50Hz

foras®

WATER PUMPS

GENERAL CATALOGUE

www.foras-pumps.it



foras®
WATER PUMPS

registered trademark of
PENTAX INDUSTRIES S.p.A.

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HISTORY

For many years **Pentax** has held a large share of the world market for motorized pumps. The sales department is constantly working to better serve existing customers and to open up new markets. This is possible thanks to the wide range of products available which allows to cover most of the applications in the pump field. Special attention is also paid to market surveys, so that any new requirements can be immediately transferred to the research and development department: the best way to properly develop and forecast future scenarios.

1989
Pentax is the result of a strategy designed at the end of the '80s and oriented to the creation of a corporate body structured on the decentralization of production

1990
The company was born from the fusion of Elettromac and Zetabase, two realities with years of experience in the sector. Thanks to advanced technologies and a rationalization of the production process, in the 90's the company imposed itself on the market

1994
Foras joins the group

2000
Increase model production, number of customers and delivery speed

2010
The Pentax group expands again with the entry of Marly: a company specialized in the realization of industrial pumps

2018
The group, now leader in the sector, reaches a consolidated turnover of 70 million euros

2019
Start of works to expand the operational headquarters with the creation of a new logistics hub of more than 8,000 square meters

2022
Installation of the 500kW photovoltaic system and start of commercial office expansion work

2024
Exa Pumps joins the group: a company specialized in the realization of submersible pumps

MISSION

After more than **30 years of activity** we can finally trace the guidelines that have governed and directed the industrial development of **Pentax Industries SpA**. Actions and processes that have intersected with the obvious aim of creating value, benefits to be redistributed to the various components of the production and distribution process.

A rational allocation of available resources, together with a refined program of production decentralization have allowed the company to adapt to changing market conditions, each time with extreme rapidity.

Maximum attention to the markets, therefore, with the commitment to respond in real time to the specific needs of the different markets, paying particular attention to technological progress. All this in the perspective of a careful policy for **customer satisfaction**.



"Creating value is our main goal"

Gianluigi Pedrollo, Chair man

VALUES

Reliability
Choosing Pentax means choosing safety at every stage

Quality
Where there is control, there is reliability: the basis for success

Speed
Impeccable delivery time

Flexibility
Pentax studies each case thoroughly, identifies the best solution and then takes action with security

Variety
The best service: a wide range of Pentax products, one for every need

OFFICIAL JOURNAL OF THE EUROPEAN UNION

Regulation UE 547/2012
ANNEX II

«The benchmark for most efficient water pumps is MEI ≥ 0,70».

«The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter».

«The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system».

Information on benchmark efficiency is available at:
www.europump.org/efficiencycharts.



CERTIFICATO

Nr. 50 100 3634 Rev.010

PENTAX S.p.A.

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

UNI EN ISO 9001:2015



CERTIFICATO

Nr. 50 100 12552 Rev.005

PENTAX S.p.A.

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

UNI EN ISO 14001:2015



CERTIFICATO

Nr. 50 100 14960 Rev.003

PENTAX S.p.A.

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

UNI EN ISO 45001:2023




Rentax







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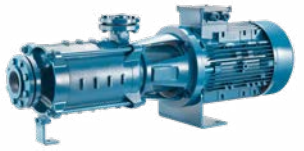
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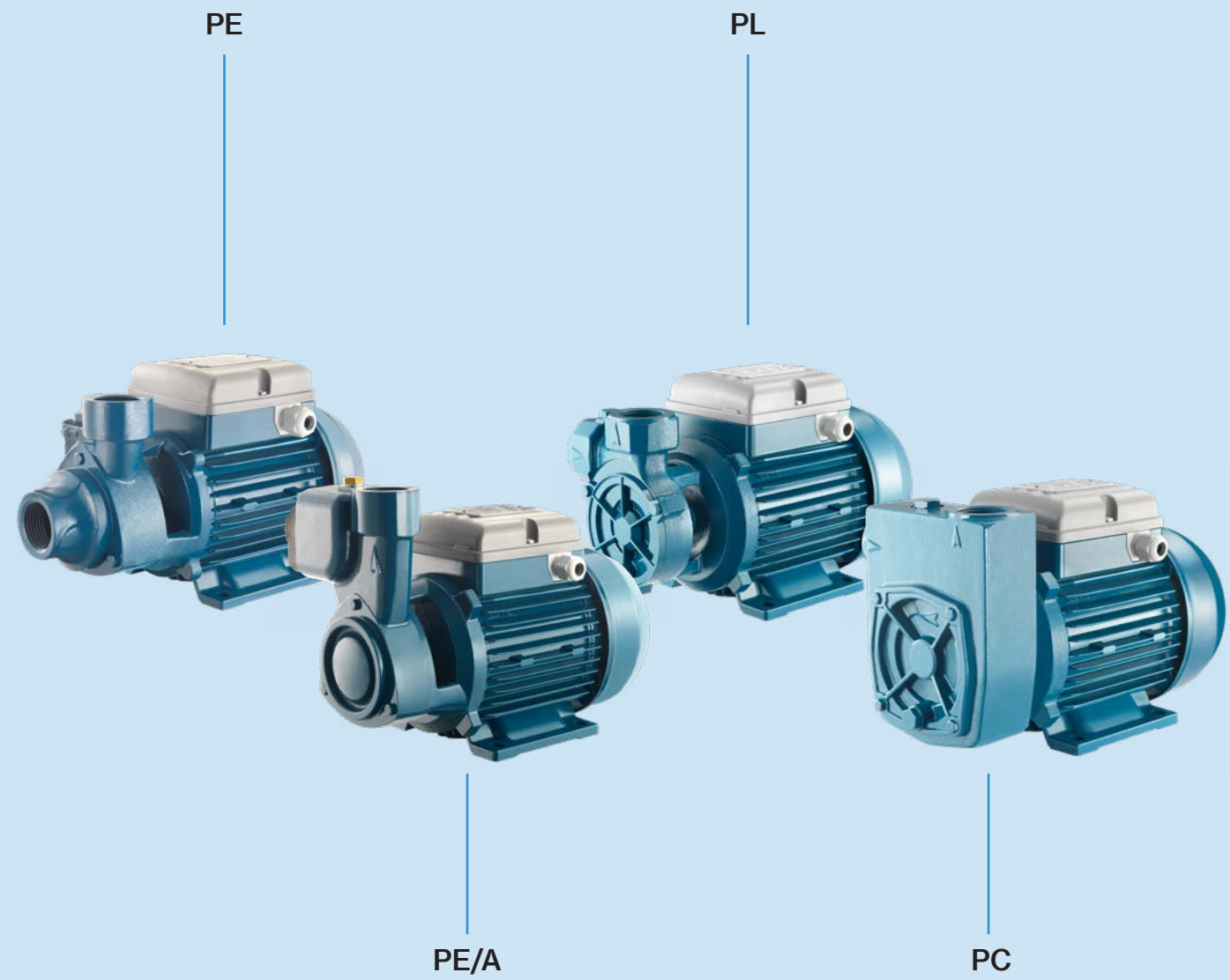
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PERIPHERALS

PERIPHERAL PUMPS

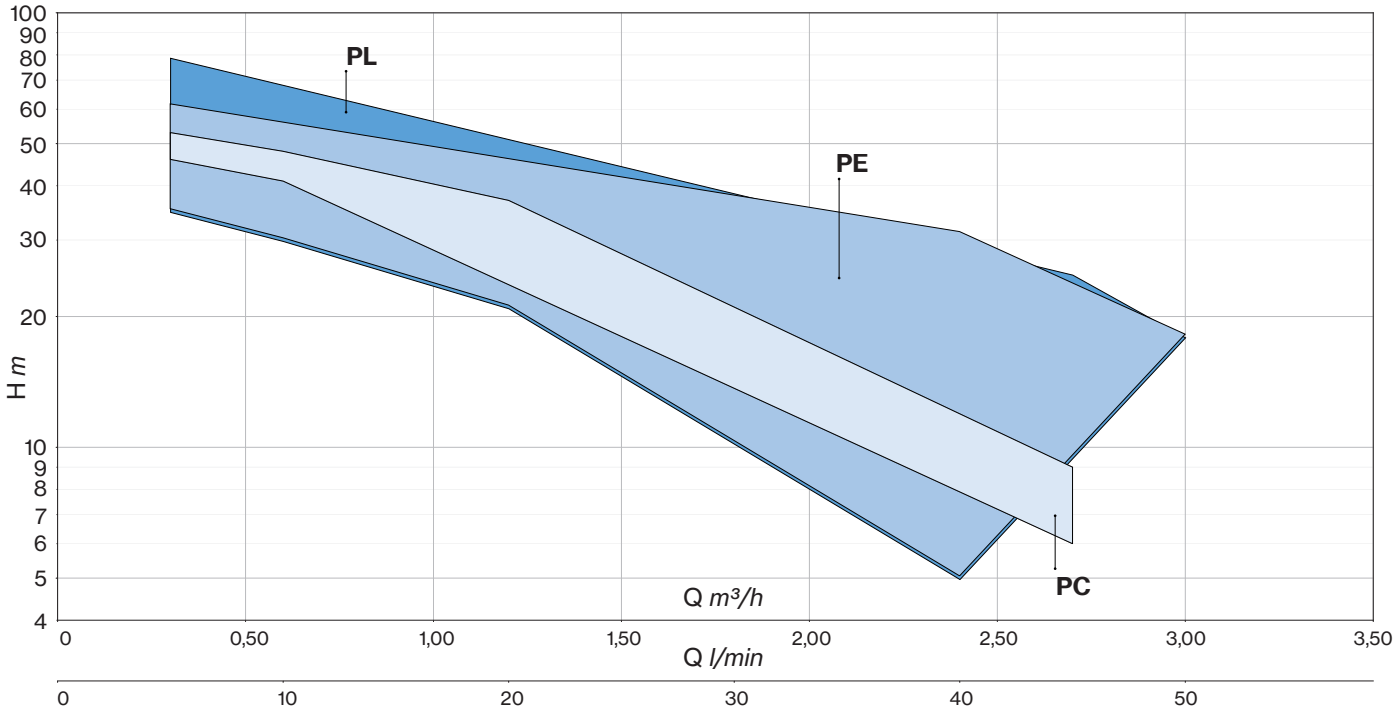


Range of peripheral and liquid ring type positive displacement pumps; they are characterized by the high ratio between the performances offered and the power required.

Applications:

- Small domestic installations
- Boiler feeding
- For washing
- Pressurization of industrial plants
- Small autoclaves
- Transfer of liquids

PERIPHERAL PUMPS



PE



PE



PE/A



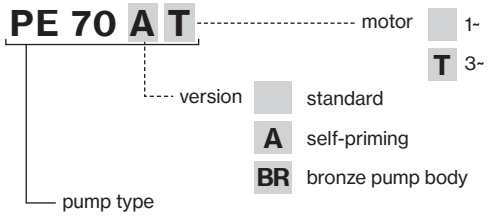
PE 55

Peripheral positive displacement pumps with front suction (PE) and side suction with self-priming system (PE A) for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required output.

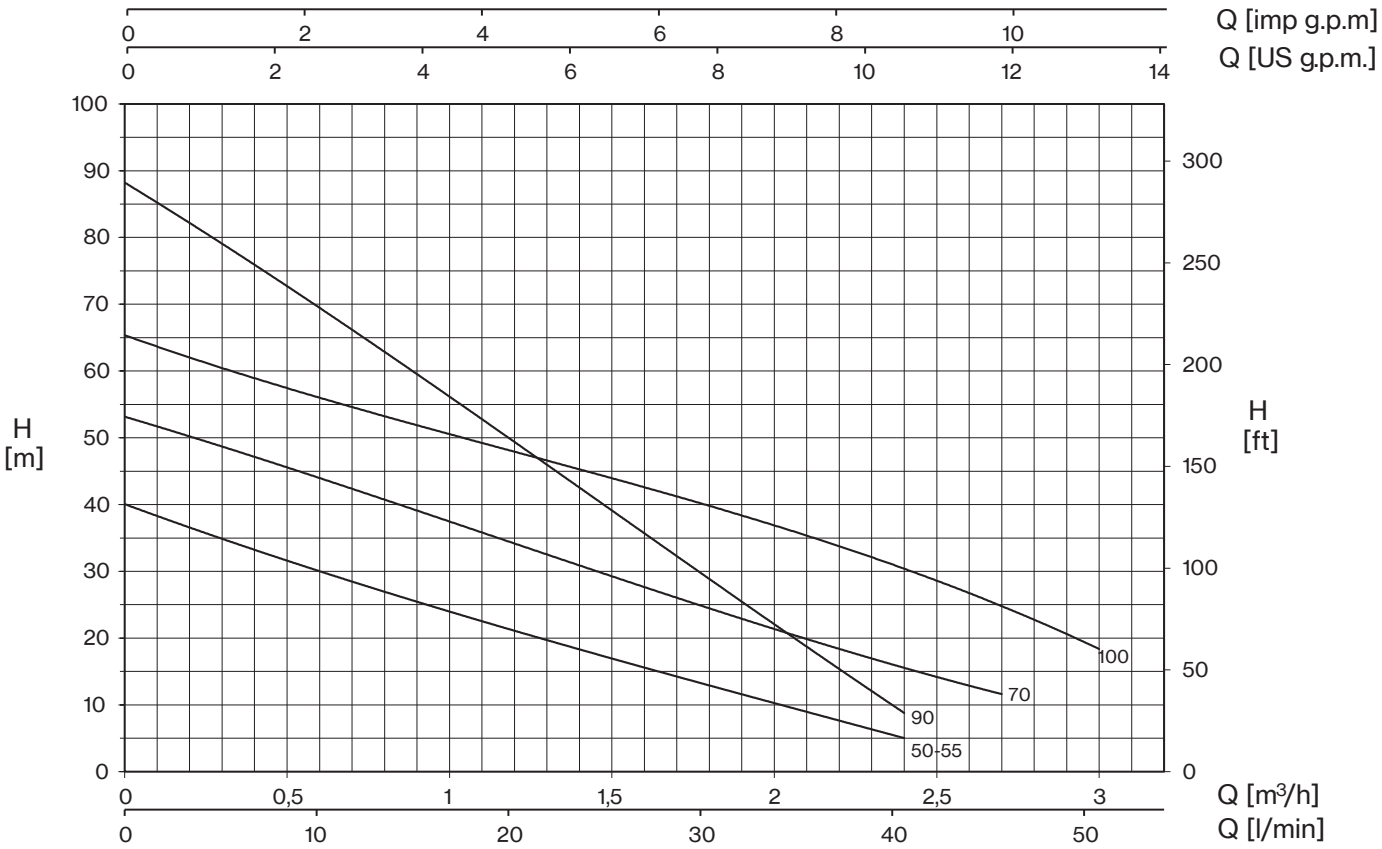
Construction features	
Painting	cataphoresis (55)
Pump body	cast iron bronze (50BR)
Motor bracket	cast iron bronze (50BR) aluminum with AISI304 insert (55)
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar (50, 55) max 8 bar (70, 100) max 9 bar (90)

Motor	
2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4



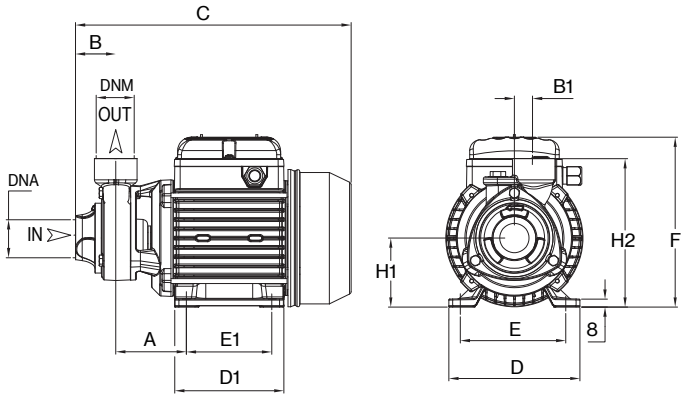


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
PE(T) 50÷55	85×110×170	198	85×110×190	220
	80×120×170	207	80×120×190	230
PE(T) 50A **PE(T) 70A** **PE(T) 100-90**	80×110×170	105	85×110×190	135
			85×120×170	136
PE(T) 70	80×120×140	152	80×120×175	171
	85×100×140	160	85×100×175	180
PE(T) 100A	80×120×145	102	80×120×190	136

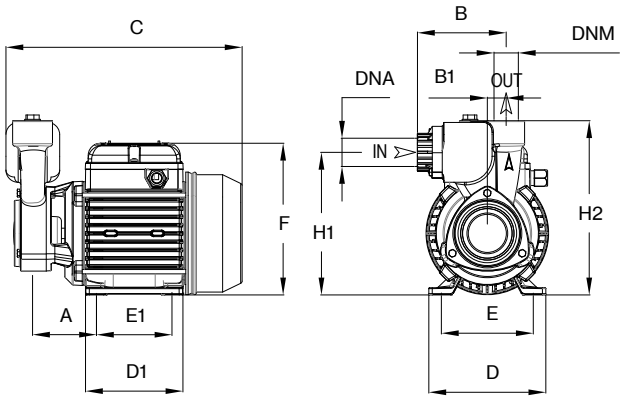


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,3	0,6	1,2	1,8	2,4	2,7	3
								0	5	10	20	30	40	45	50
		HP	kW	kW		A		H (m)							
PE 50F	**PE 50FT**	0,5	0,37	0,5	0,5	2,3	1,0	40,0	35,0	30,0	21,0	13,0	5,0		
PE 50BR	**PE 50BRT**	0,5	0,37	0,5	0,5	2,3	1,0	40,0	35,0	30,0	21,0	13,0	5,0		
PE 50A	**PE 50AT**	0,5	0,37	0,5	0,5	2,3	1,0	40,0	35,0	30,0	21,0	13,0	5,0		
PE 55	**-**	0,5	0,37	0,5	-	2,3	-	40,0	35,0	30,0	21,0	13,0	5,0		
PE 70	**PE 70T**	0,7	0,5	0,9	0,9	4,0	1,7	53,1	48,8	44,1	33,8	24,7	15,5	11,6	
PE 70A	**PE 70AT**	0,7	0,5	0,9	0,9	4,0	1,7	53,1	48,8	44,1	33,8	24,7	15,5	11,6	
PE 100	**PE 100T**	1	0,74	1,1	1,1	5,2	2,0	65,0	61,0	56	48,0	39,0	31,0	25,1	18,0
PE 100A	**PE 100AT**	1	0,74	1,1	1,1	5,2	2,0	65,0	61,0	56,0	48,0	39,0	31,0	25,1	18,0
PE 90	**PE 90T**	1	0,74	1,2	1,1	5,6	2,0	88,2	79,2	69,3	49,5	28,8	8,8		

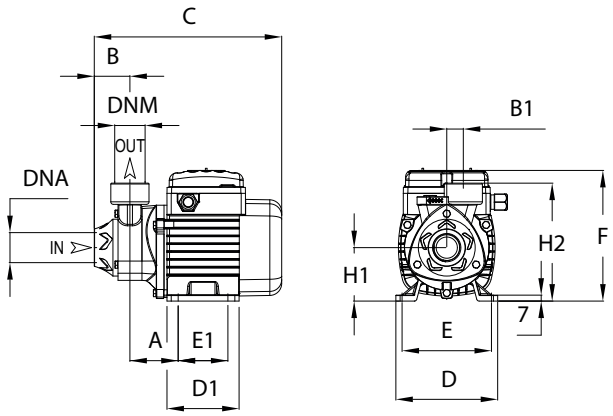
PE



TYPE		DIMENSIONS (mm)																Kg
1~	3~	A	B	B1	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
PE 50F	**PE 50FT**	63	50	20	260	120	101	100	80	158	63	143			265	150	175	6,5
PE 50BR	**PE 50BRT**	63	50	20	260	120	101	100	80	158	63	143			265	150	175	7
PE 70	**PE 70T**	71,5	42	20	256	120	101	100	80	158	63	145	1" G	1" G	285	150	180	8,5
PE 100	**PE 100T**	72,5	41	20	280	135	112	112	89	172	71	152			300	170	195	10,5
PE 90	**PE 90T**	74,5	50	20	286	135	112	112	89	172	71	158			310	185	195	11



TYPE		DIMENSIONS (mm)																Kg
1~	3~	A	B	B1	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
PE 50A	**PE 50AT**	63	89	20	240	120	101	100	80	158	150	184			300	170	195	7,5
PE 70A	**PE 70AT**	71,5	101	20	248	120	101	100	80	158	157	193	1" G	1" G	300	170	195	9
PE 100A	**PE 100AT**	71,5	101	20	271	135	112	112	89	172	165	201			290	170	230	11



TYPE	DIMENSIONS (mm)																Kg
1~	A	B	B1	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
PE 55	52	42	20	221	120	85	98	67	154	63	139	1" G	1" G	245	150	175	5,5

PL



Peripheral positive displacement pumps with side suction for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required power; frontal brass insert avoiding the risk of blockage.

Construction features

Pump body	cast iron and brass
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 90 °C
Operating pressure	max 8 bar

Motor

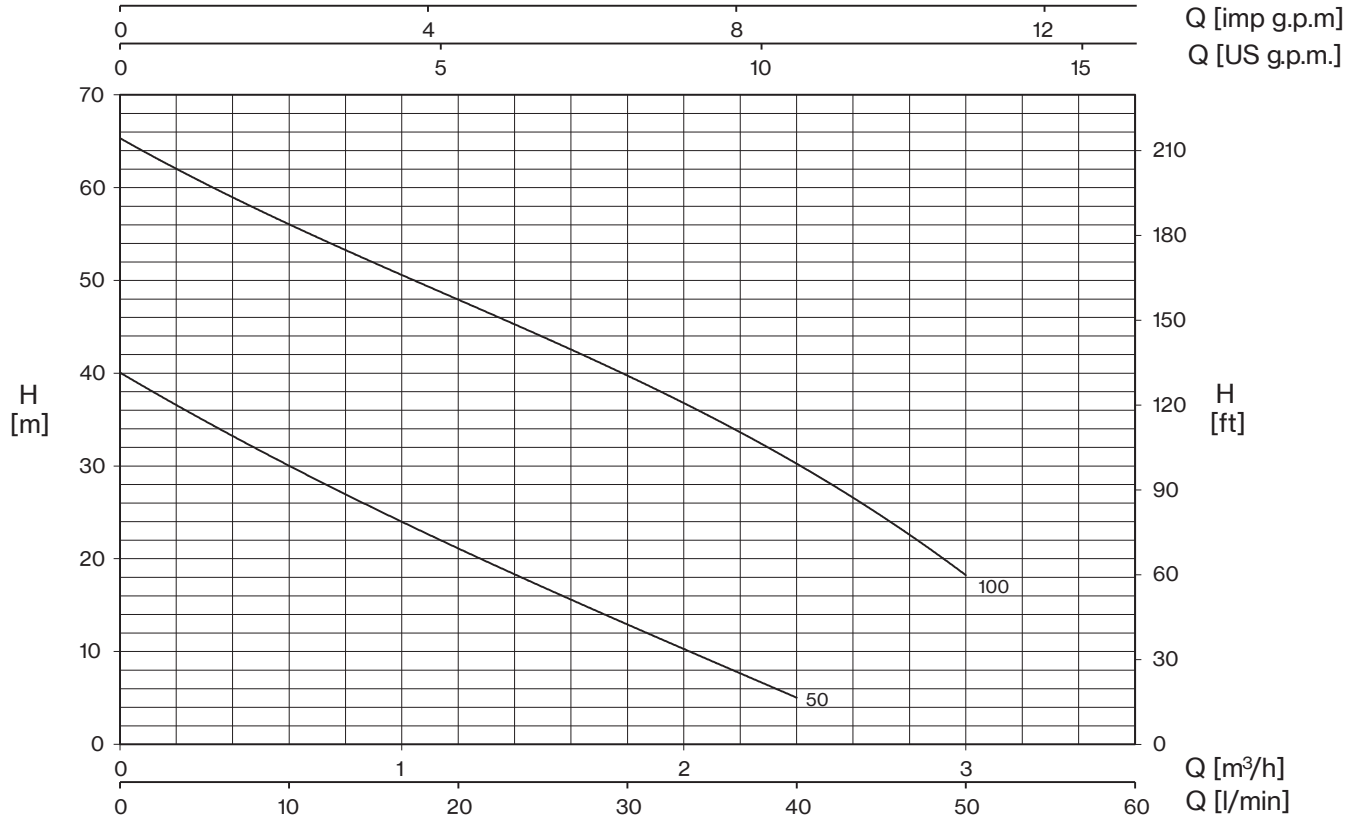
2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

PL 50 T

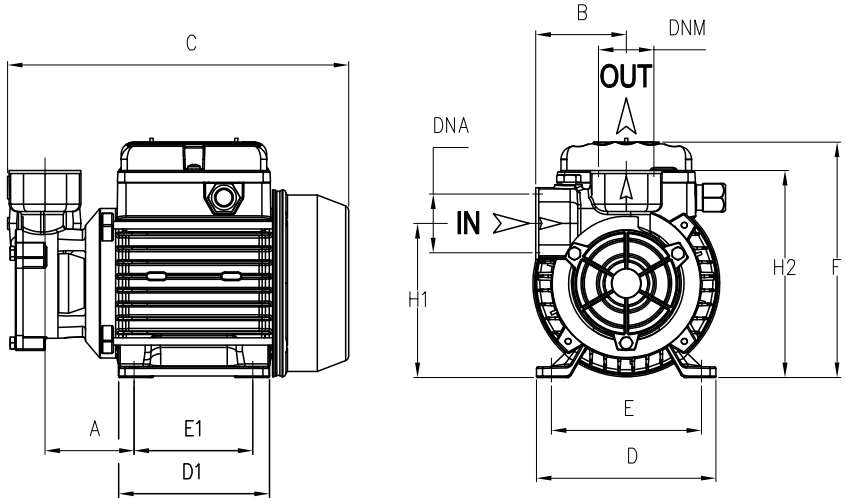
- motor
  - 1~
  - **T** 3~
- pump type

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
PL(T) 50	85×110×170	207	85×110×190	220
	80×120×170	198	80×120×190	230
PL(T) 100	85×110×170	105	85×110×190	135
			80×120×170	136

PL



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)					
1~	3~			1~	3~	1~ 230V	3~ 400V	0,3	0,6	1,2	1,8	2,4	3
								5	10	20	30	40	50
		HP	kW	kW		A		H (m)					
PL 50	**PL 50T**	0,5	0,37	0,5	0,5	2,3	1,0	35,0	30,0	21,0	13,0	5,0	
PL 100	**PL 100T**	1	0,74	1,11	1,13	5,2	2,0	61,0	56,0	48,0	39,0	31,0	18,0



TYPE		DIMENSIONS (mm)															Kg
1~	3~	A	B	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
PL 50	**PL 50T**	67	60	235	120	101	97	80	165	105	140	1" G	1" G	265	145	165	5,7
PL 100	**PL 100T**	71,5	60	263	135	112	112	89	172	124	156			310	185	195	9,2

PC



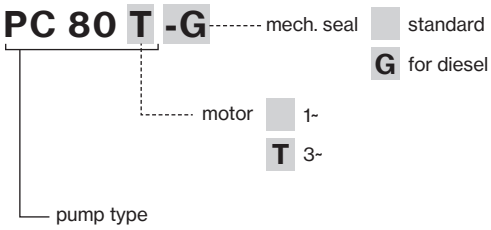
Volumetric pumps with liquid ring impeller that gives considerable suction power. Particularly suitable for liquid transfer (including volatile liquids). The pumps have a frontal brass cover thus avoiding the risk of blockage.

Construction features

Pump body	cast iron and brass
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 90 °C
Operating pressure	max 8 bar

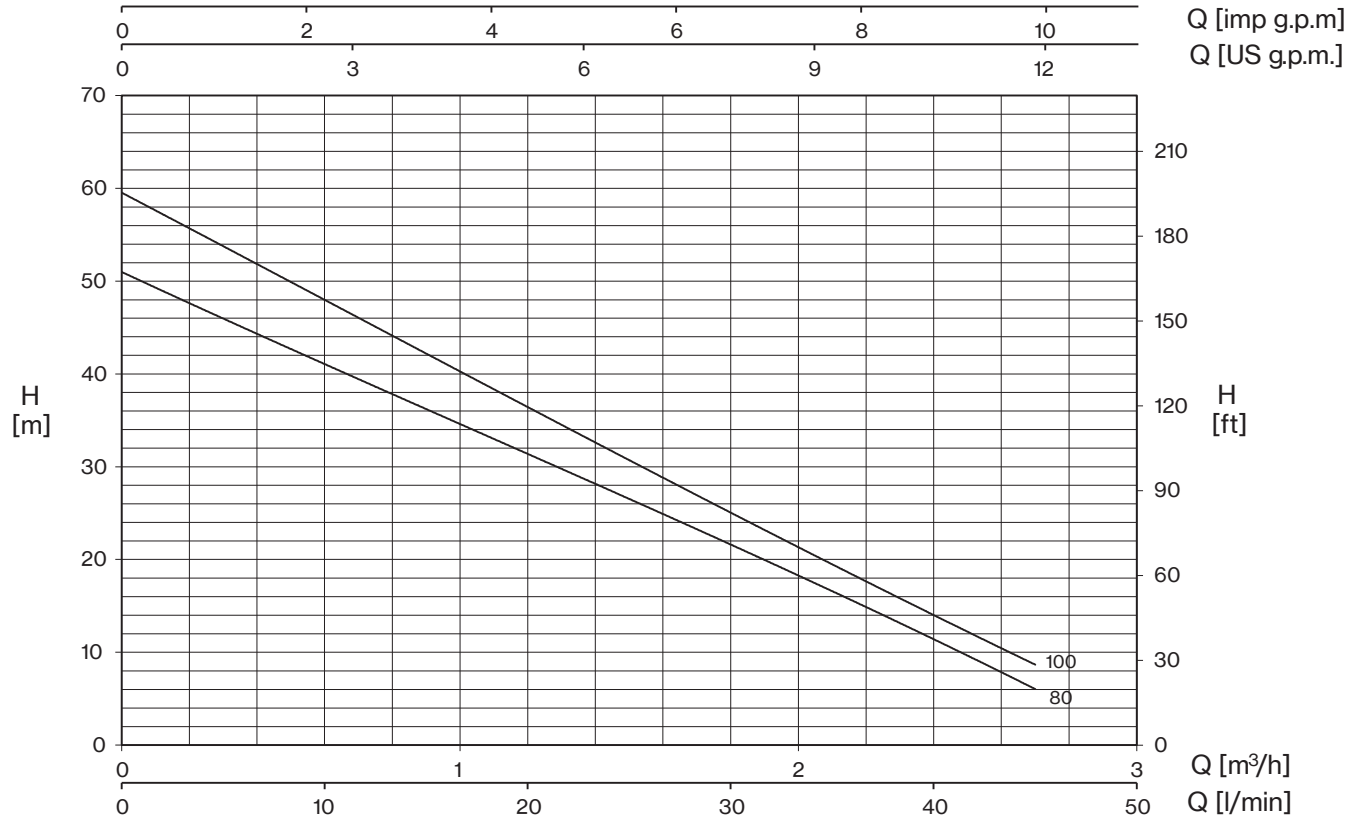
Motor

2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

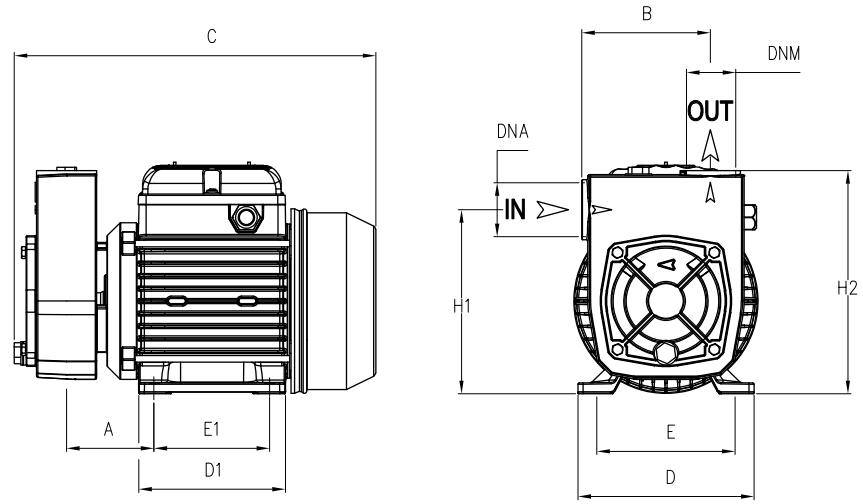


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
PC(T) 80-100	85×110×170	105	85×110×190	135
			80×120×170	136

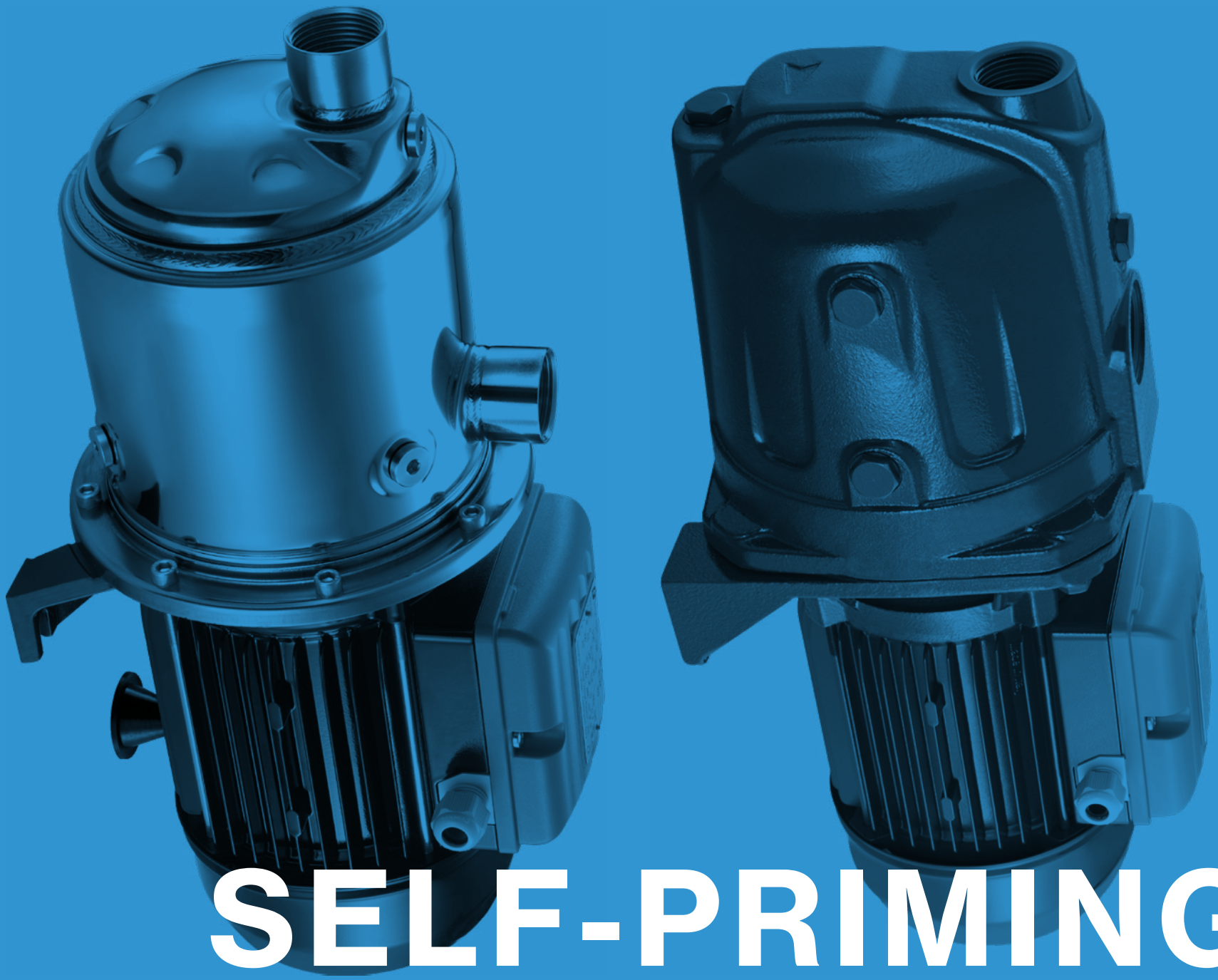
PC



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)					
1~	3~			1~	3~	1~ 230V	3~ 400V	0,3	0,6	1,2	1,8	2,4	2,7
								5	10	20	30	40	45
		HP	kW	kW		A		H (m)					
PC 80	**PC 80T**	0,8	0,59	1,03	0,94	5,0	1,7	46,0	41,0	31,5	21,5	11,5	6,0
PC 100	**PC 100T**	1,0	0,74	1,17	0,98	5,4	2,1	53,0	48,0	37,0	25,0	13,5	9,0

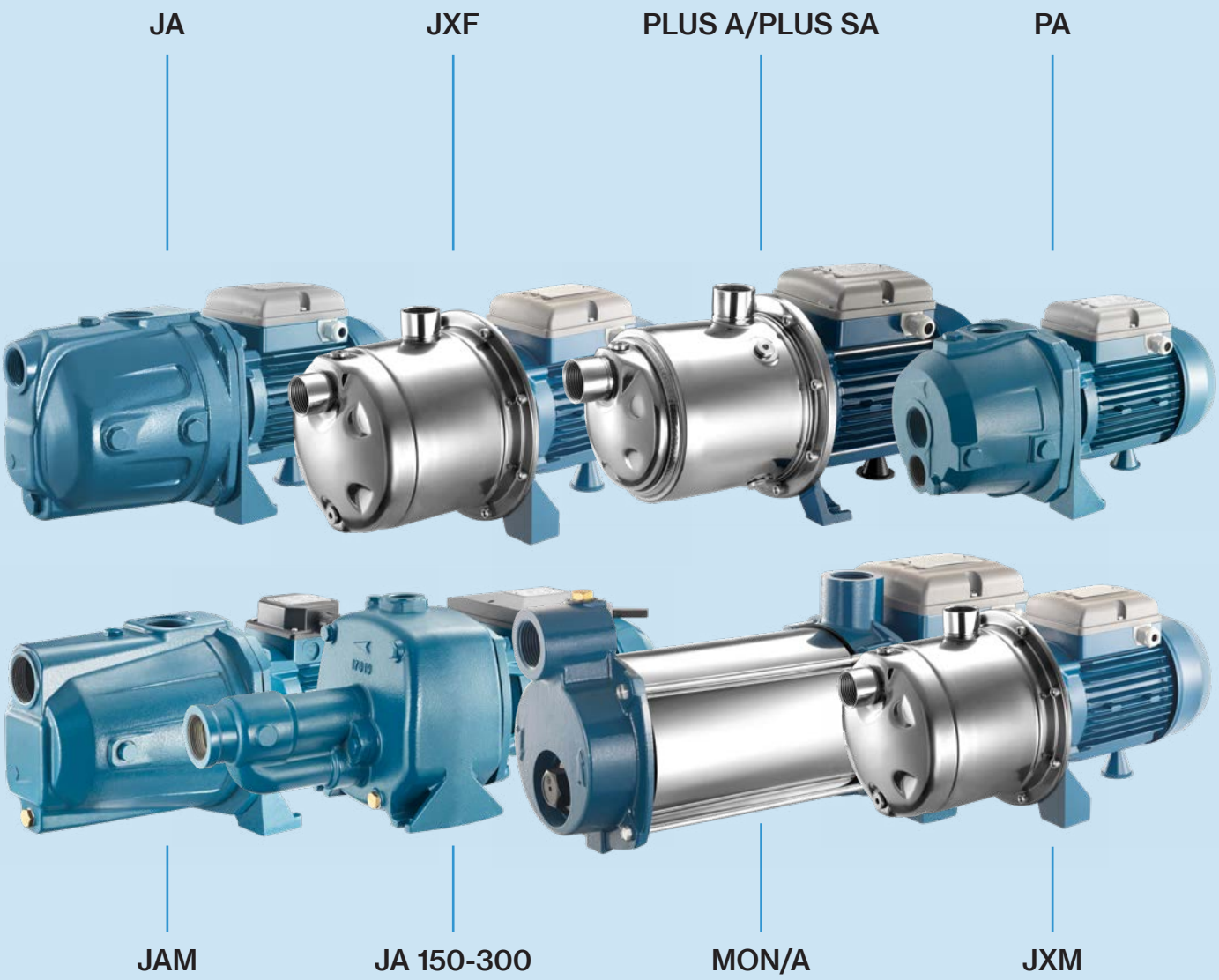


TYPE		DIMENSIONS (mm)														Kg
1~	3~	A	B	C	D	D1	E	E1	H1	H2	DNA	DNM	I	L	M	
PC 80	**PC 80T**	70	98,5	270	135	112	112	89	141	170	1" G	1" G	310	185	195	11,1
PC 100	**PC 100T**	70	98,5	270	135	112	112	89	141	170			310	185	195	11,8



SELF-PRIMING

SELF-PRIMING PUMPS



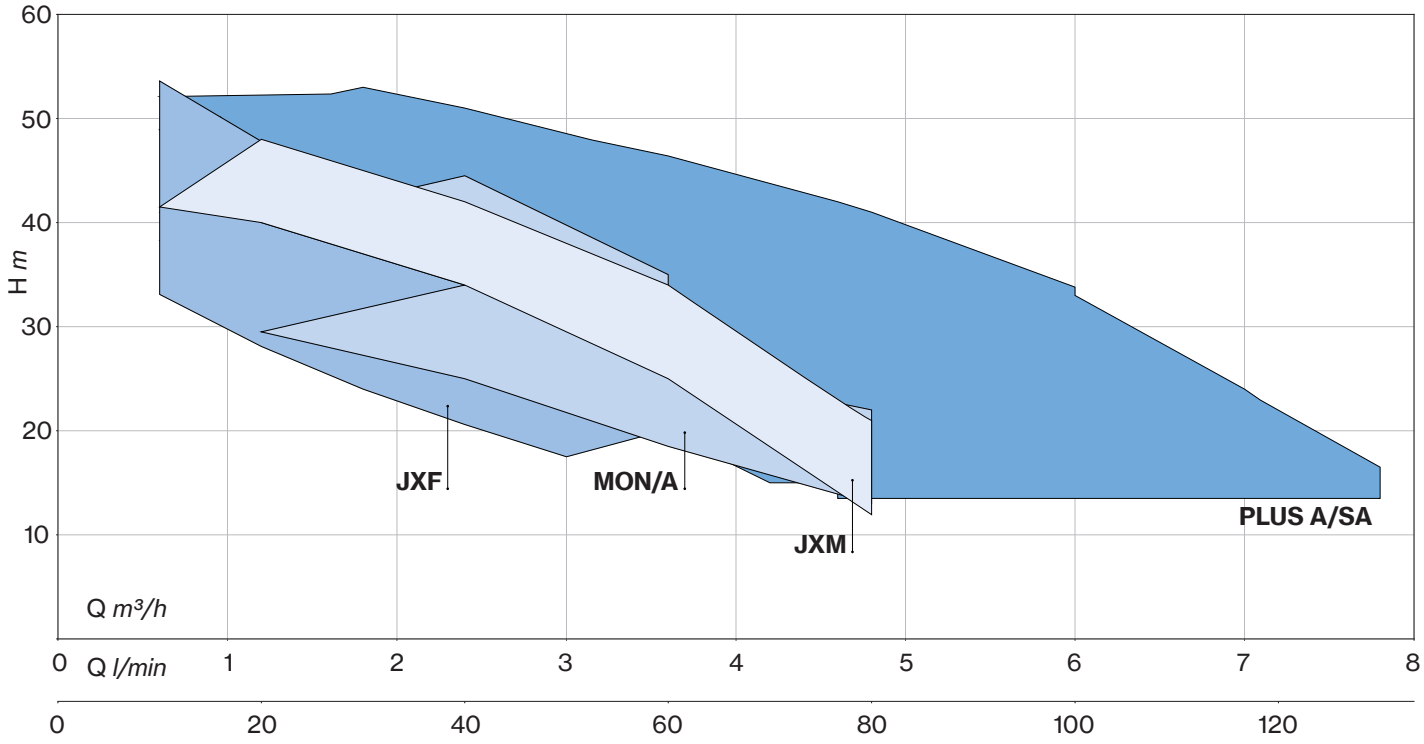
Wide range of single and multistage self-priming pumps, characterized by the fact of being able to handle liquids in the presence of dissolved gases.

Applications:

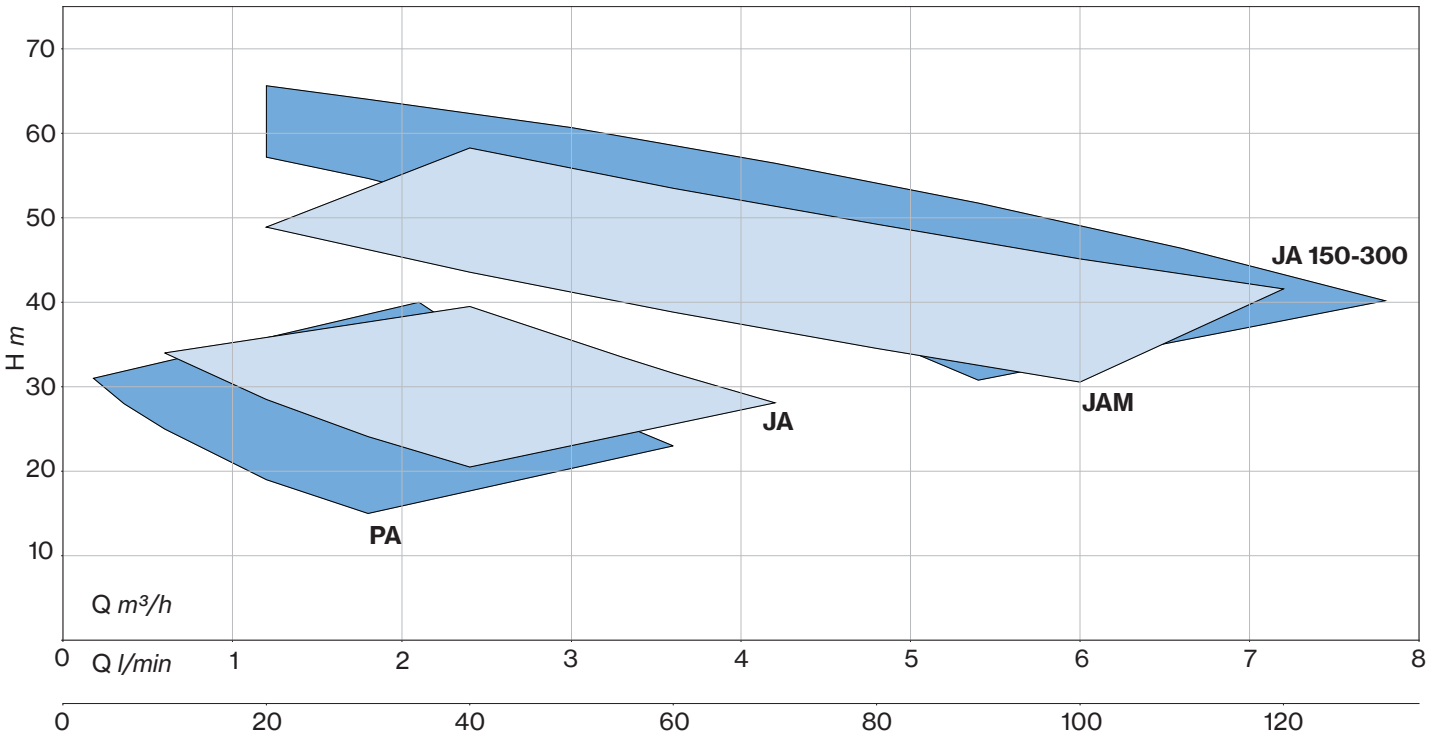
- Water supply
- Pressurization
- Liquid transfer
- Irrigation and tank emptying
- Small automatic systems of pressure increase

SELF-PRIMING PUMPS

Stainless steel



Cast iron



JA



Self-priming centrifugal pump for water supplies (even if mixed with gas) in small household systems, connected to autoclave tanks, for transferring liquids and emptying tanks; also used for gardening.

Construction features

Pump body	cast iron
Motor bracket	aluminum
Impeller	Noryl®, brass, steel AISI 304 for 106N÷146
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 6 bar (66N÷86N) max 7 bar (106N÷146)

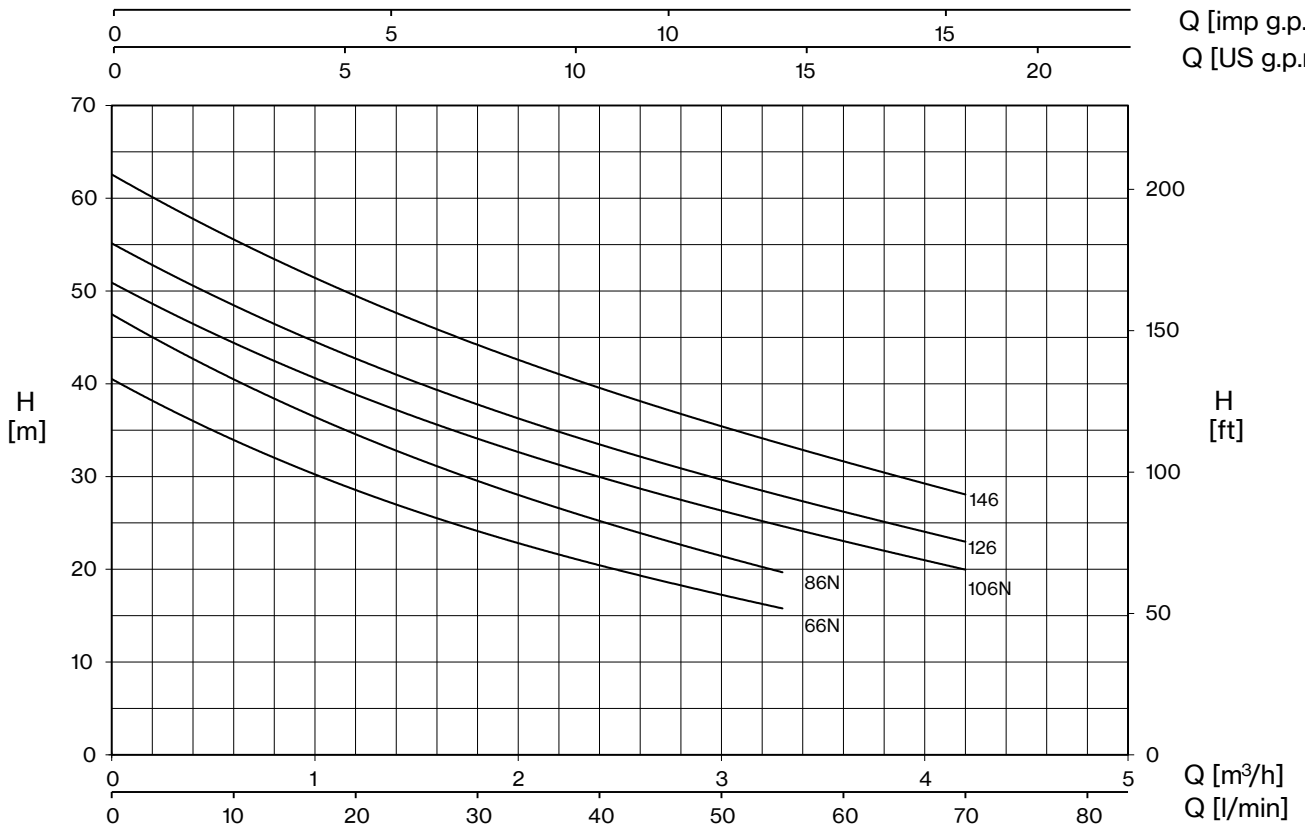
Motor

2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

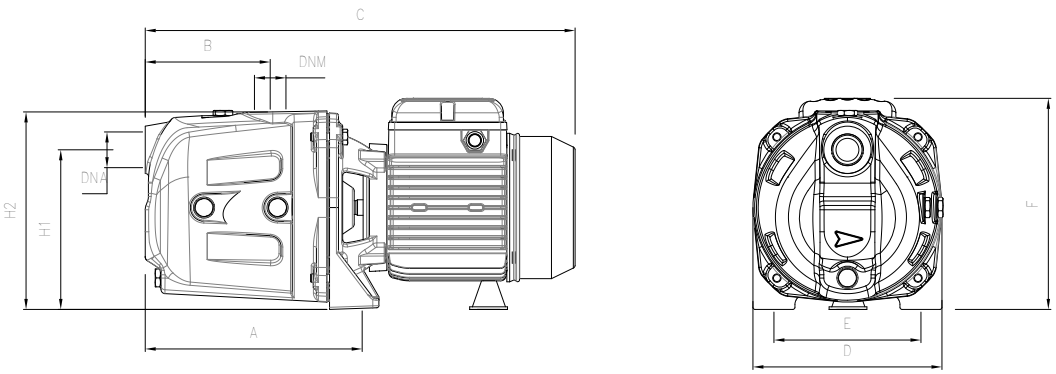
JA 106N T

- pump type
- motor bracket: **0** cast iron; **6** aluminum (66N÷146)
- impeller: Noryl®; **/1** brass; **/2** AISI 304 (106N÷146)
- motor: 1~; **T** 3~

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
JA 66N÷146(T)	85×110×145	60	85×110×190	80



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3	3,3	3,6	4,2
								0	10	20	30	40	50	55	60	70
		HP	kW	kW		A		H (m)								
JA 66N	**JA 66NT**	0,6	0,44	0,7	0,67	3,1	1,3	40,5	34,0	28,5	24,1	20,5	17,2	15,8		
JA 86N	**JA 86NT**	0,8	0,59	0,82	0,78	3,6	1,4	47,5	40,5	34,5	29,6	25,2	21,4	19,7		
JA 106N	**JA 106NT**	1	0,74	1,04	0,92	4,7	1,7	50,9	44,3	38,9	34,1	30,1	26,3	24,6	23,0	20,0
JA 126	**JA 126T**	1,2	0,88	1,14	1,07	5,2	1,9	55,1	48,5	42,6	37,8	33,5	29,7	27,9	26,2	23,0
JA 146	**JA 146T**	1,5	1,1	1,3	1,25	6	2,5	62,5	55,7	49,4	44,2	39,5	35,5	33,5	31,6	28,1

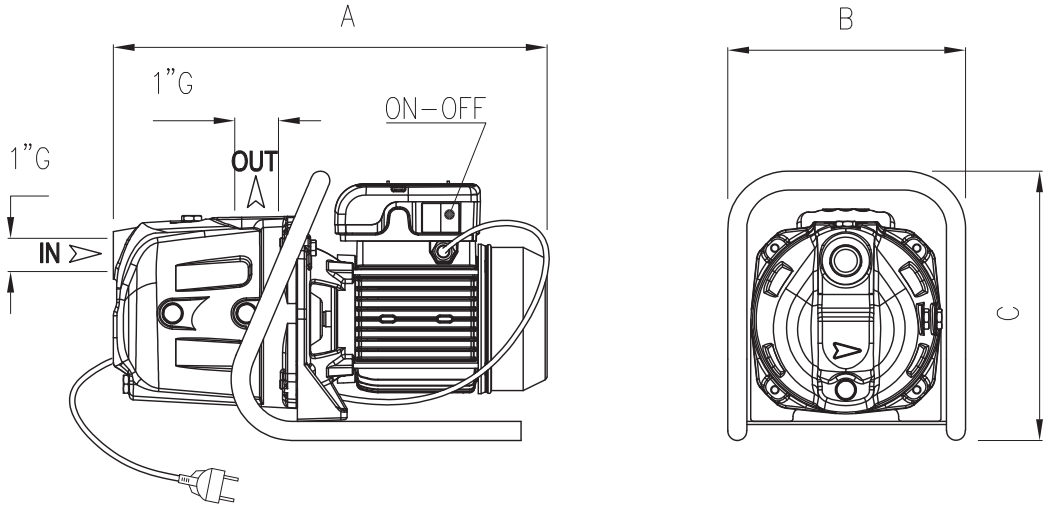


TYPE		DIMENSIONS (mm)													Kg
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
JA 66N	**JA 66NT**	214	119	410	180	140	195	150	185			440	194	215	12
JA 86N	**JA 86NT**	214	119	410	180	140	195	150	185			440	194	215	12,5
JA 106N	**JA 106NT**	214	119	410	180	140	195	150	185	1" G	1" G	440	194	215	14
JA 126	**JA 126T**	214	119	410	180	140	195	150	185			440	194	215	14,5
JA 146	**JA 146T**	214	119	410	180	140	195	150	185			440	194	215	15

JA GARDEN

Portable electropumps complete with handle, cable with plug and switch.
The performances depend on adopted pump type.

TYPE - 50 Hz	P2		P1	Pipe		Performance	
1~	HP	kW	kW	Suction	Delivery	Q (l/min)	H (m)
JA 66N GARDEN	0,6	0,44	0,7	1" G	1" G	10-55	34,0-15,8
JA 86N GARDEN	0,8	0,59	0,82			10-55	40,5-19,7
JA 106N GARDEN	1	0,74	1,04			10-70	44,3-20,0
JA 126 GARDEN	1,2	0,88	1,14			10-70	44,3-20,0
JA 146 GARDEN	1,5	1,1	1,3			10-70	55,7-28,1



TYPE	DIMENSIONS (mm)		
	A	B	C
JA 66N GARDEN	410	266	252
JA 86N GARDEN	410	266	252
JA 106N GARDEN	410	266	252
JA 126 GARDEN	410	266	252
JA 146 GARDEN	410	266	252

JXF



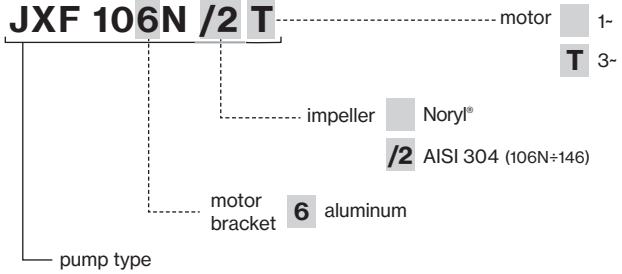
Self-priming centrifugal pumps for domestic applications such as domestic systems where air is mixed with water. Recommended in combination with pressure set for water transfer, rainwater harvesting and garden irrigation systems.

Construction features

Pump body	stainless steel AISI 304
Motor bracket	aluminum
Impeller	Noryl®; steel AISI 304 (106N, 126, 146)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

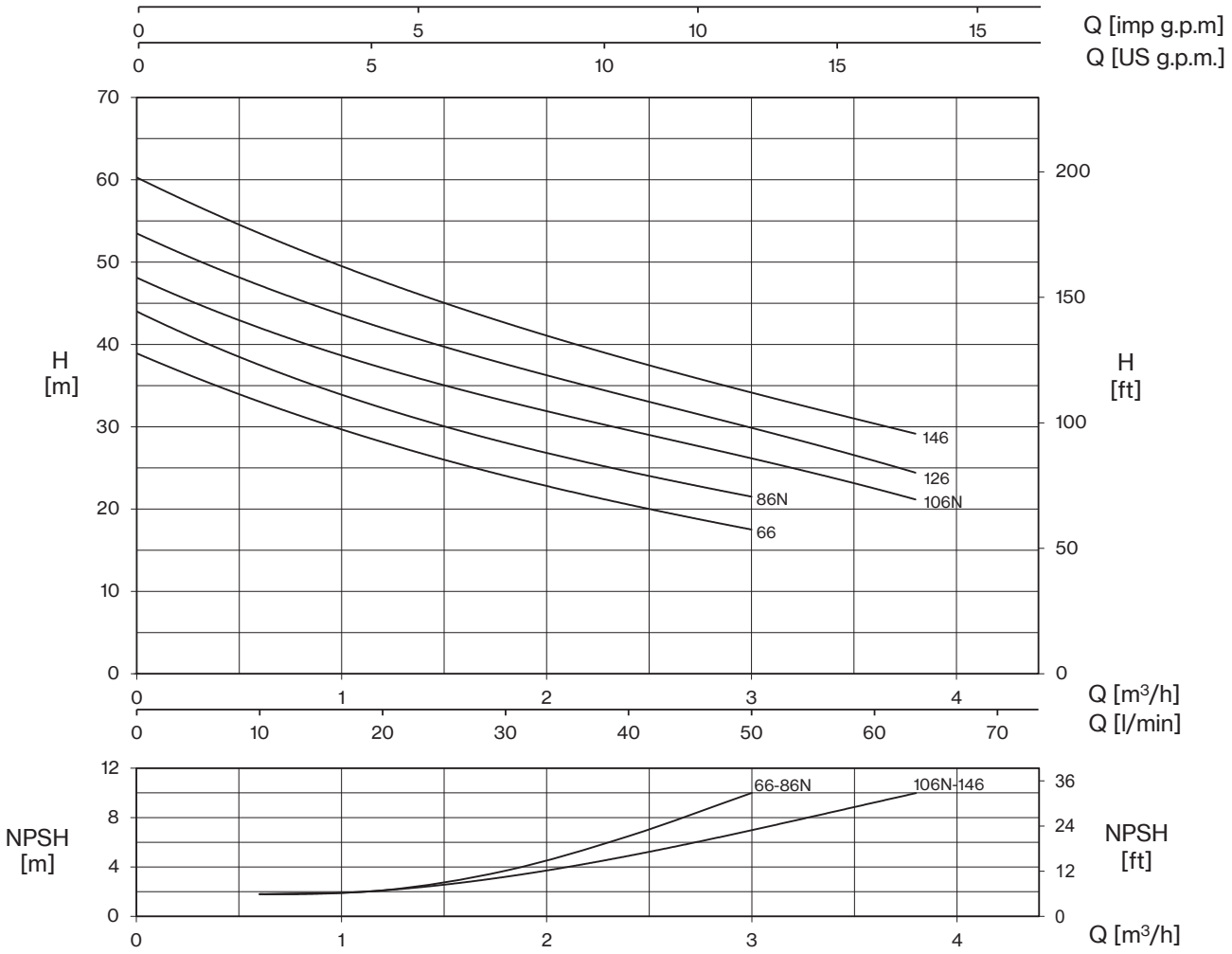
Motor

2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

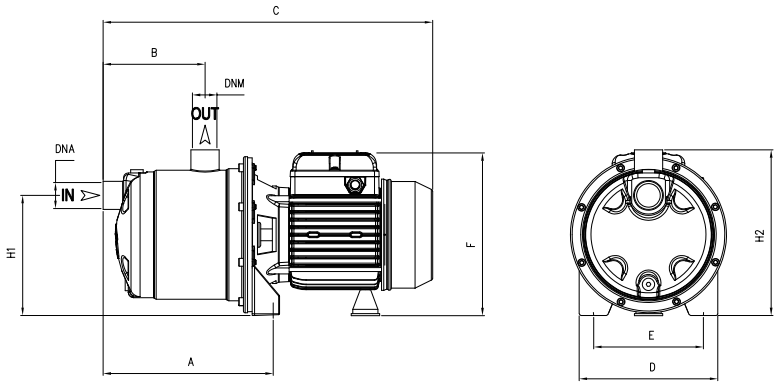


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
JXF(T)	85×110×150	60	85×110×190	80

JXF



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3	3,6	3,8
								0	10	20	30	40	50	60	63,3
		HP	kW	kW		A		H (m)							
JXF 66	**JXF 66T**	0,6	0,44	0,67	0,63	2,9	1,2	38,9	33,1	28,1	24,0	20,6	17,5		
JXF 86N	**JXF 86NT**	0,8	0,59	0,75	0,76	3,3	1,4	44,0	37,5	32,3	28,0	24,6	21,5		
JXF 106N	**JXF 106NT**	1	0,74	1,04	0,92	4,7	1,7	48,0	42,3	37,0	33,0	29,6	26,2	22,7	21,0
JXF 126	**JXF126T**	1,2	0,88	1,14	1,03	5,2	1,9	53,4	47,4	41,9	37,5	33,7	29,9	26,0	24,3
JXF 146	**JXF 146T**	1,5	1,1	1,3	1,23	6,0	2,5	60,2	53,6	47,8	42,4	38,0	34,4	30,5	29,0



TYPE		DIMENSIONS (mm)													Kg
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
JXF 66	**JXF 66T**	208	128	410	175	140	215	153	210			430	210	235	8,5
JXF 86N	**JXF 86NT**	208	128	410	175	140	215	153	210			430	210	235	9,5
JXF 106N	**JXF 106NT**	208	128	410	175	140	215	153	210	1" G	1" G	430	210	235	10,5
JXF 126	**JXF126T**	208	128	410	175	140	215	153	210			430	210	235	11
JXF 146	**JXF 146T**	208	128	410	175	140	215	153	210			430	210	235	11,5

JXF GARDEN - BOX

Portable electropumps complete with handle, cable with plug and switch.
The performances depend on adopted pump type.

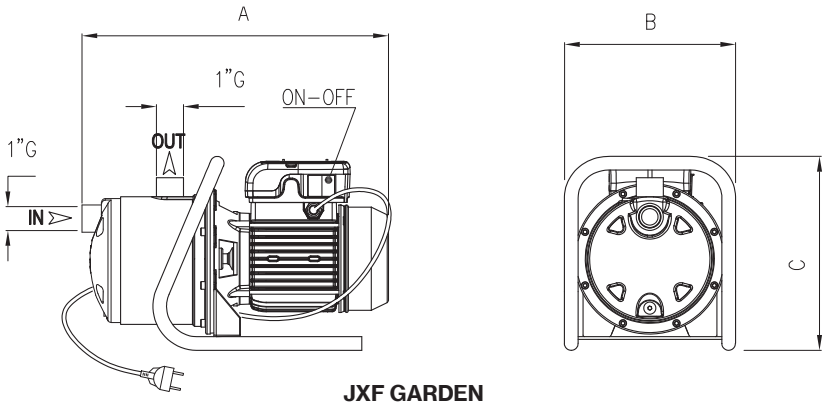


JXF GARDEN

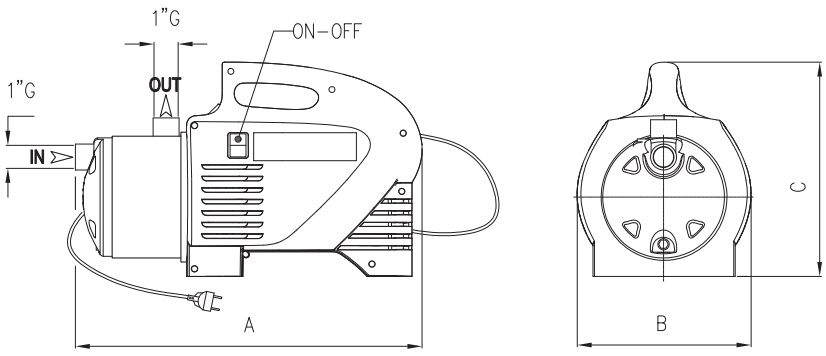


JXF BOX

TYPE - 50 Hz	P2		P1	Pipe		Performance	
1~	HP	kW	kW	Suction	Delivery	Q (l/min)	H (m)
JXF 106N GARDEN-BOX	1	0,74	1,04	1" G	1" G	10-63,3	42,3-21,0



JXF GARDEN



JXF BOX

TYPE	DIMENSIONS (mm)		
	A	B	C
JXF 106N GARDEN	410	175	285
JXF 106N BOX	429	209	287

PLUS A



Self-priming horizontal multistage stainless steel pumps suitable for domestic use, also in combination with autoclave tank. Suitable for drinking water or glycol, for water treatment, heating, air conditioning and washing systems.

Construction features

Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	Noryl®
Mechanical seal	ceramic-graphite-EPDM
Motor shaft	stainless steel AISI 303
Liquid temperature	-5 ÷ +35 °C
Operating pressure	max 7 bar

Motor

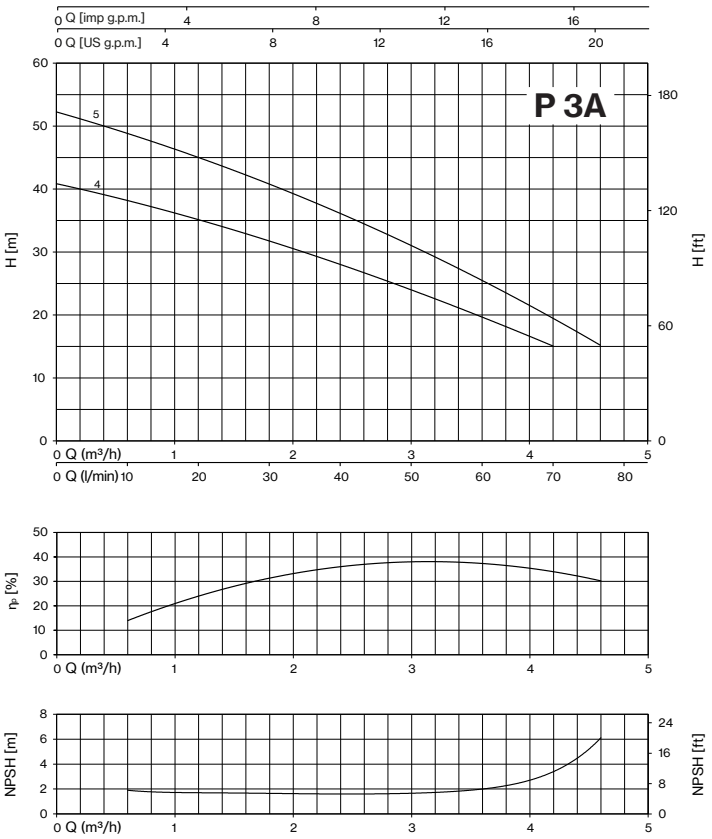
	3~ 230/400V - 50Hz
2 poles induction motor	1~ 230V - 50Hz (with thermal protection up to 1.85 kW)
Insulation class	F
Protection degree	IPX4

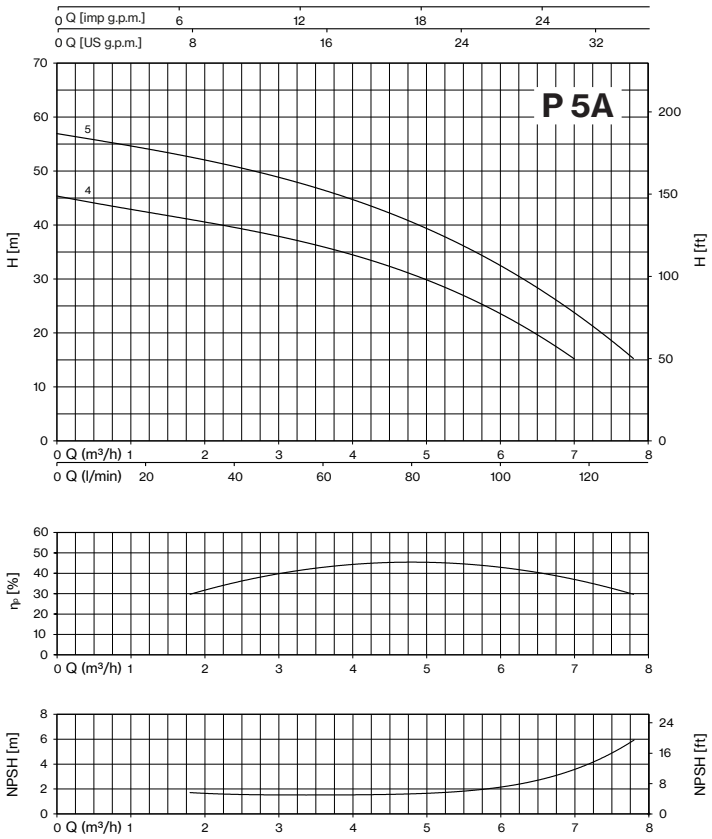
P 3 A - 100 / 5 T -WR

- pump type
- nominal flow-rate m³/h
- self-priming
- No. of impellers
- motor: 1~ / **T** 3~
- certification: standard / **-WR** WRAS approved

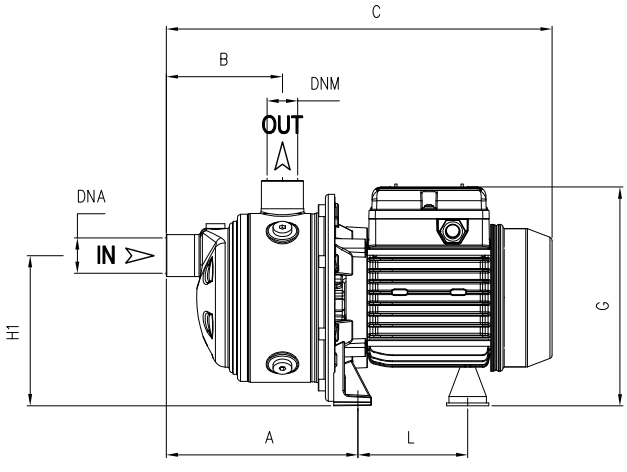
WRAS APPROVED PRODUCT
CERTIFICATION MARK

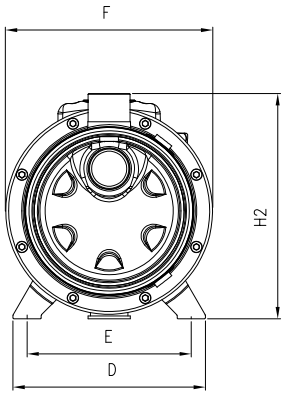
TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3A-90/4(T)	85×110×160	70	85×110×185	80
P 3A-100/5(T)	90×110×150	48	90×110×170	56
P 5A-120/4(T)	85×110×160	70	85×110×185	80
P 5A-150/5(T)	90×110×150	48	90×110×170	56





TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)											
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,2	4,6	4,8	6	7	7,8
								0	10	20	30	40	60	70	76,7	80	100	116,7	130
		HP	kW	kW		A		H (m)											
P 3A-90/4	**P 3A-90/4T**	0,9	0,66	0,9	0,88	4	1,8	40,8	38,3	35,1	31,8	27,9	19,8	15,0					
P 3A-100/5	**P 3A-100/5T**	1	0,75	1,06	1,01	4,8	1,9	52,2	48,9	45,1	40,8	36,0	25,4	19,8	15,0				
P 5A-120/4	**P 5A-120/4T**	1,2	0,9	1,13	1,13	5,2	2,5	45,3			41,3	39,6	35,6	33,4	31,7	30,8	24,0	15,0	
P 5A-150/5	**P 5A-150/5T**	1,5	1,1	1,47	1,39	6,8	2,8	56,8			53,0	51,0	46,1	43,2	41,2	40,1	33,0	24,0	15,0





TYPE		DIMENSIONS (mm)												Kg
1~	3~	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	
P 3A-90/4	**P 3A-90/4T**	238,8	175	405	164	140	176	190	93,7	128	192			9
P 3A-100/5	**P 3A-100/5T**	262,8	199	452	164	140	176	203	104,7	128	192	1" G	1" G	11,5
P 5A-120/4	**P 5A-120/4T**	238,8	175	428	164	140	176	203	104,7	128	192			11,5
P 5A-150/5	**P 5A-150/5T**	262,8	199	514	164	140	176	217	128,2	134	198			14,5

PLUS SA

Self-priming



Self-priming horizontal multistage stainless steel pumps suitable for domestic use, also in combination with autoclave tank. Suitable for drinking water or glycol, for water treatment, heating, air conditioning and washing systems.

Construction features

Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM
Motor shaft	stainless steel AISI 303
Liquid temperature	-15 ÷ +110 °C
Operating pressure	max 7 bar

Motor

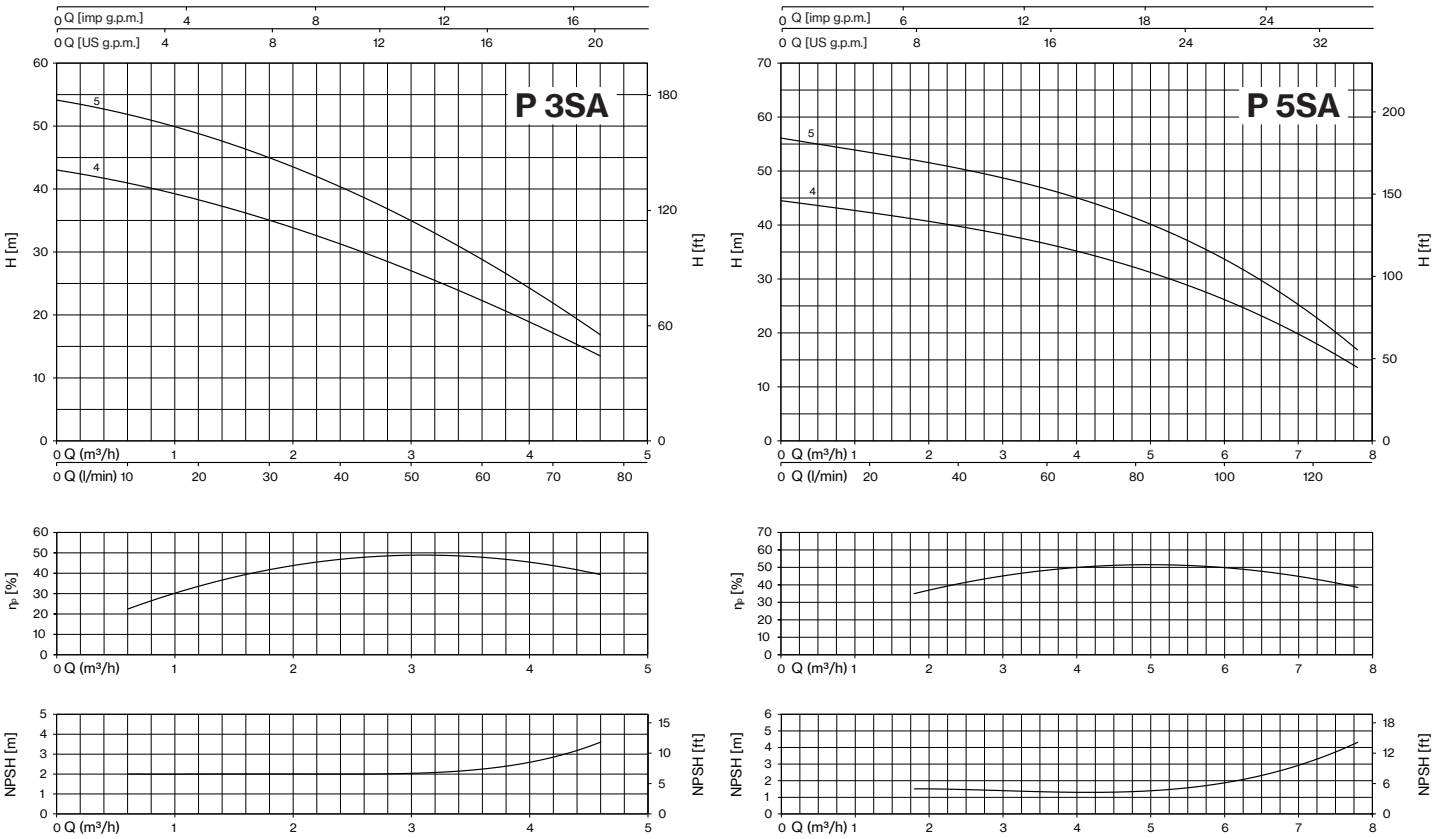
	3~ 230/400V - 50Hz
2 poles induction motor	1~ 230V - 50Hz (with thermal protection up to 1.85 kW)
Insulation class	F
Protection degree	IPX4

P 3 S A - 100 / 5 T -WR

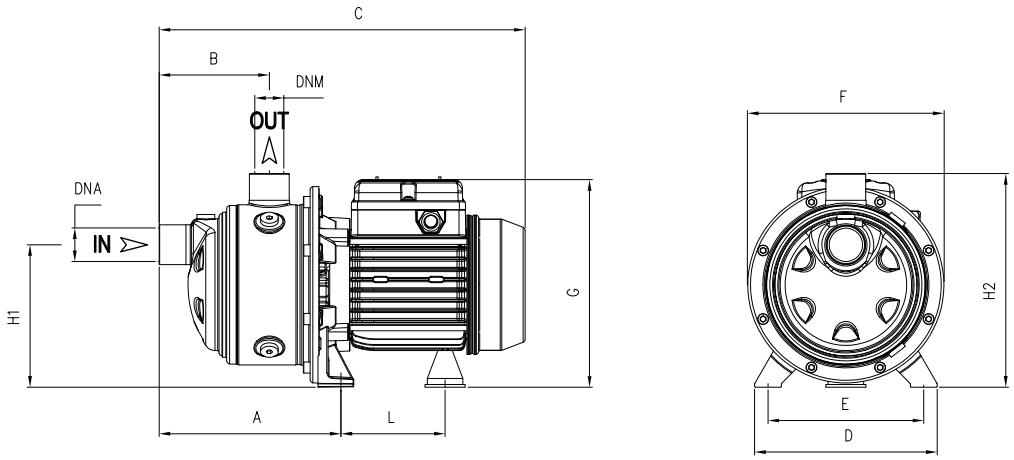
- pump type
- nominal flow-rate m³/h
- stainless steel impellers and diffusers
- self-priming
- No. of impellers
- motor: T 3~ / 1~
- certification: -WR WRAS approved / standard

WRAS APPROVED PRODUCT
CERTIFICATION MARK

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3SA-90/4(T)	85×110×160	70	85×110×185	80
P 3SA-100/5(T)	90×110×150	48	90×110×170	56
P 5SA-120/4(T)	85×110×160	70	85×110×185	80
P 5SA-150/5(T)	90×110×150	48	90×110×170	56



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)										
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,6	4,8	6	7	7,8
								0	10	20	30	40	60	76,7	80	100	116,7	130
		HP	kW	kW		A		H (m)										
P 3SA-90/4	**P 3SA-90/4T**	0,9	0,66	0,83	0,8	3,6	1,7	43,0	41,0	38,3	35,0	31,3	22,3	13,5				
P 3SA-100/5	**P 3SA-100/5T**	1	0,75	0,99	0,92	4,4	1,7	54,0	52,1	48,8	44,9	40,2	29,0	16,8				
P 5SA-120/4	**P 5SA-120/4T**	1,2	0,9	1,09	1,08	4,9	2,4	44,5			41,0	40,0	36,4	32,8	32,0	26,2	18,5	13,5
P 5SA-150/5	**P 5SA-150/5T**	1,5	1,1	1,39	1,31	6,5	2,7	56,0			52,4	50,5	46,4	42,0	41,0	33,8	23,8	16,5



TYPE		DIMENSIONS (mm)												Kg
1~	3~	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	
P 3SA-90/4	**P 3SA-90/4T**	238,8	175	405	164	140	176	190	93,7	128	192			10
P 3SA-100/5	**P 3SA-100/5T**	262,8	199	452	164	140	176	203	104,7	128	192	1" G	1" G	12,5
P 5SA-120/4	**P 5SA-120/4T**	238,8	175	428	164	140	176	203	104,7	128	192			12,5
P 5SA-150/5	**P 5SA-150/5T**	262,8	199	514	164	140	176	217	128,2	134	198			15,5

PA



PA 86÷106



PA 150÷200



4”

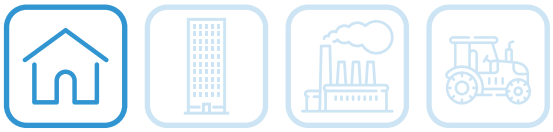
Self-priming centrifugal pumps with 4” external ejector. Suitable for water supply (even if mixed with air) of small domestic systems, that can be connected to an autoclave tank.

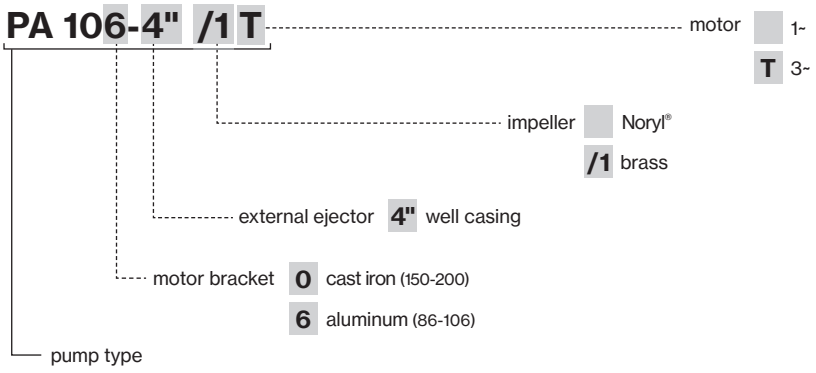
Construction features

Pump body	cast iron
Motor bracket	aluminum (86÷106), cast iron (150÷200)
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416 (86÷106), stainless steel AISI 303 hydraulic part (150÷200)
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

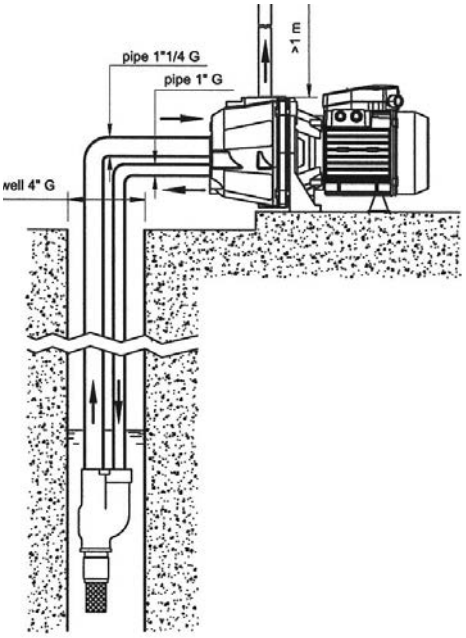
Motor

2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

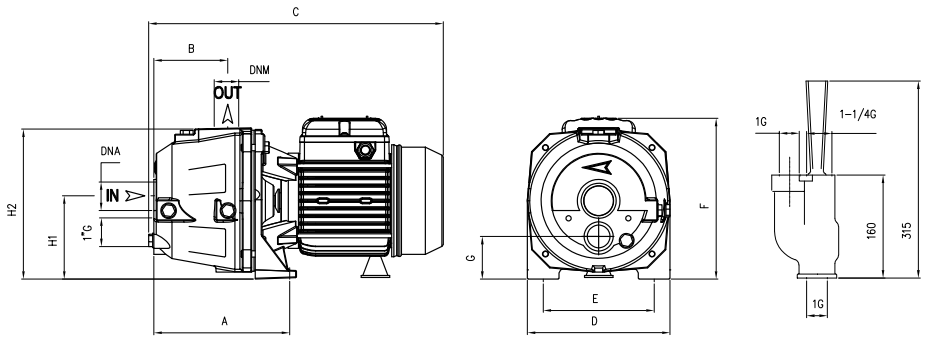




LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
PA 86÷106(T)	85×110×145	60	85×110×190	80
PA 150÷200(T)	80×120×140	35	80×120×190	49



TYPE - 50 Hz		P2		P1		CURRENT		Ejector type	Suction depth. m	Q (m³/h - l/min)									
1~	3~			1~	3~	1~ 230V	3~ 400V			0,18	0,36	0,6	0,9	1,2	1,5	1,8	2,1	3	3,6
										3	6	10	15	20	25	30	35	50	60
		HP	kW	kW		A				H (m)									
PA 86	**PA 86T**	0,8	0,59	0,8	0,81	3,7	1,4	P 20	15	31	28	25	22	19	17	15	12		
									20	28	23	18	15	13	11				
								P 30	25	22	16	11	8						
									30	14	8								
PA 106	**PA 106T**	1	0,74	1,02	1,05	4,7	2,3	P 20	15	40	37	34	30	27	24	21	18		
									20	37	34	30	25	21	17				
								P 30	25	30	25	20	14	11					
									30	14	8								
									35	12	4								
PA 150	**PA 150T**	2	1,5	1,8	1,7	8,2	3,6	P 20	15							42	35	25	21
									20						50	37	30	21	
									25						45	34	27		
								P 30	35				49	41	20				
									40			48	40						
									50		49	43	20						
PA 200	**PA 200T**	2,5	1,85	2,2	2,1	9,9	4,3	P 20	15								46	35	30
									20							48	43	32	27
									25						50	44	40	28	23
								P 30	35							28	20		
									40				46	30					
									50			49	40						



TYPE		DIMENSIONS (mm)														Kg
1~	3~	A	B	C	D	E	F	G	H1	H2	DNA	DNM	I	L	M	
PA 86	**PA 86T**	168	82	360	180	140	195	52	97	188	1" ¼ G	1" G	440	200	225	16
PA 106	**PA 106T**	168	82	360	180	140	195	52	97	188			440	200	225	18
PA 150	**PA 150T**	125	74	415	220	177	230	60	112	240			525	230	280	28,5
PA 200	**PA 200T**	125	74	415	220	177	230	60	112	240			525	230	280	29

JAM



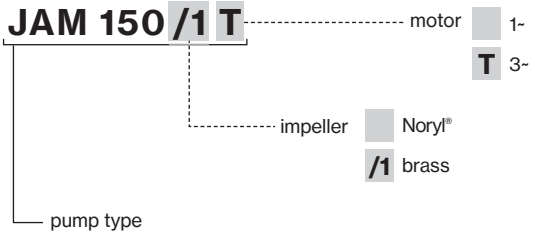
Self-priming centrifugal pumps for water supply (even if mixed with air) connected to autoclave tanks. Suitable for domestic installations, liquid transfer and tank emptying; also used for garden irrigation.

Construction features

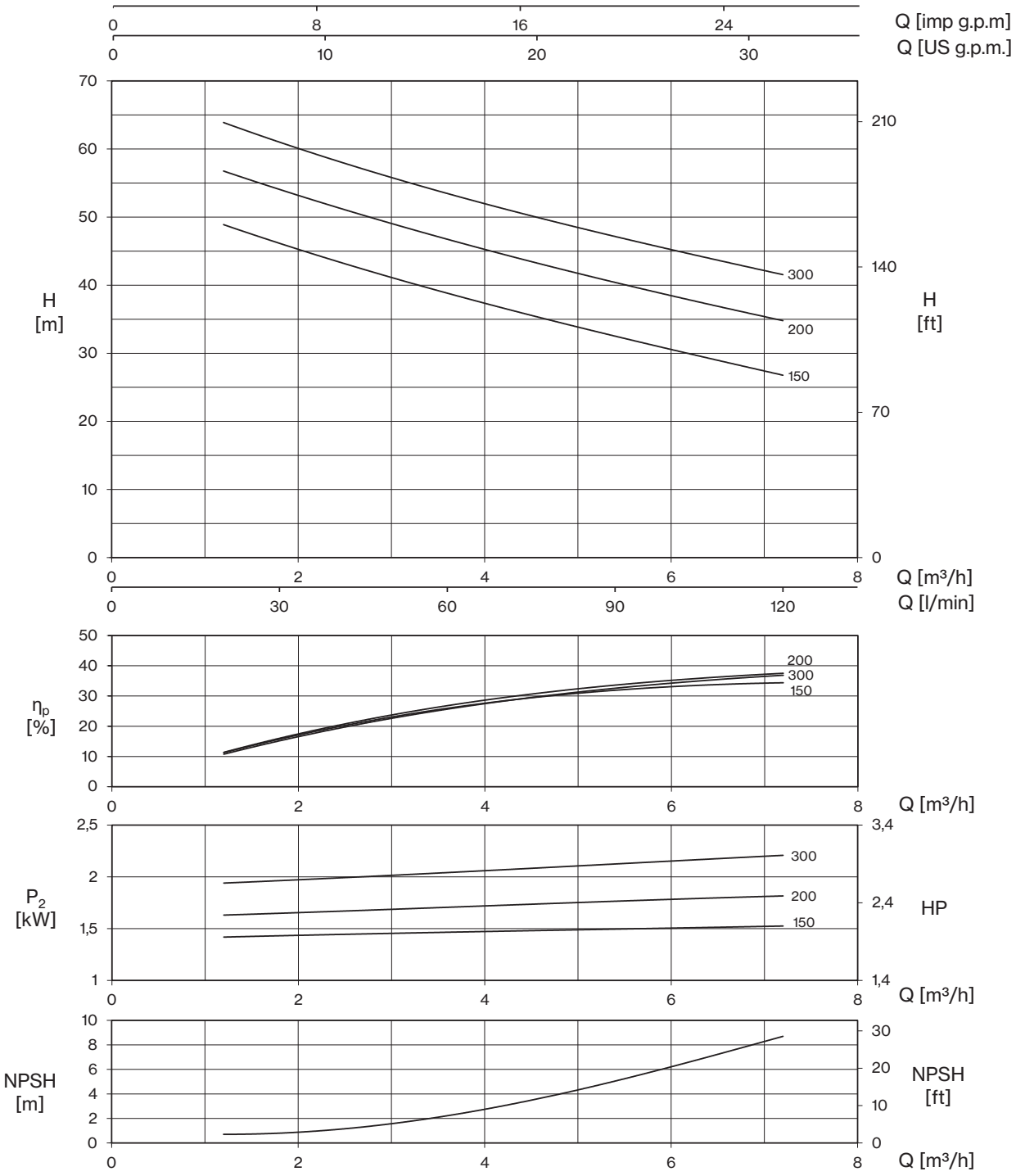
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

Motor

2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

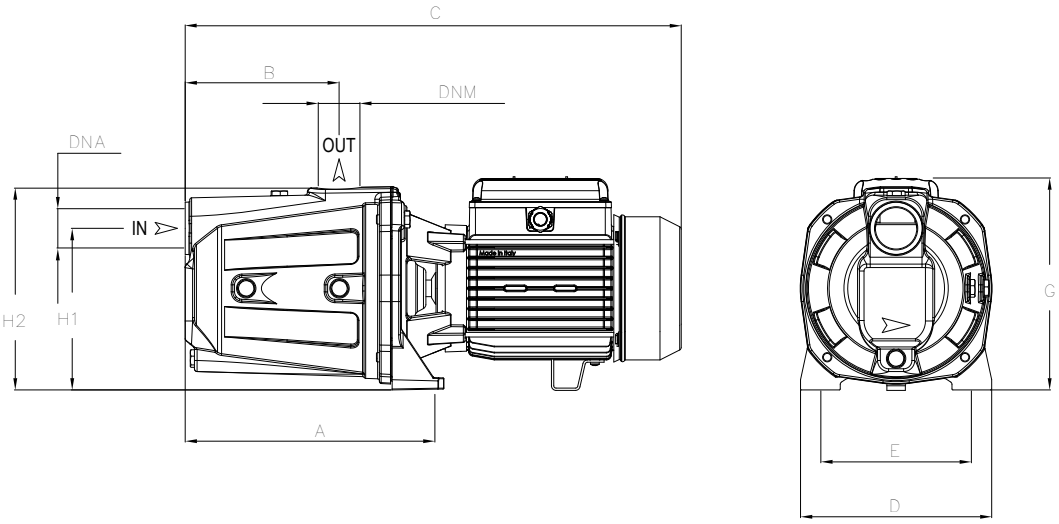


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
JAM 150÷200(T)	80×120×140	25	80×120×180	35
JAM 300	85×110×145	20	85×110×170	24
JAM 300T	80×120×140	25	80×120×180	35



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,2	2,4	3,6	4,8	6	7,2
								0	20	40	60	80	100	120
		HP	kW	kW		A		H (m)						
JAM 150	**JAM 150T**	2	1,5	1,9	1,8	8,5	3,7	54,8	48,9	43,6	38,8	34,5	30,6	26,8
JAM 200	**JAM 200T**	2,5	1,85	2,3	2,2	10,4	4,4	62,7	56,8	51,5	46,8	42,4	38,4	34,8
JAM 300	**JAM 300T**	3	2,2	2,7	2,6	12,5	5,2	70,0	63,9	58,3	53,5	49,2	45,1	41,6

JAM



TYPE		DIMENSIONS (mm)													Kg	
-1	-3	A	B	C	D	E	G	H1	H2	DNA	DNM	I	L	M	-1	-3
JAM 150	**JAM 150T**	269,6	167	538	203	165	231,5	175	220	1" ½ G	1" ¼ G	**565**	**235**	**232**	29	30,5
JAM 200	**JAM 200T**	269,6	167	538	203	165	231,5	175	220			**565**	**235**	**232**	30	29,5
JAM 300	**-**	269,6	167	608	203	165	231,5	175	220			**638**	**230**	**255**	38	-
-	**JAM 300 T**	269,6	167	538	203	165	231,5	175	220			**565**	**235**	**232**	-	30

JA 150-300

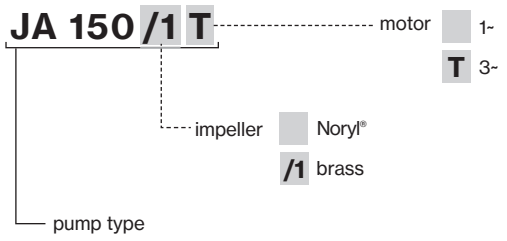
Self-priming



Self-priming centrifugal pumps for water supply (also mixed with air) of small and medium domestic and civil installations, that can be connected to an autoclave tank.

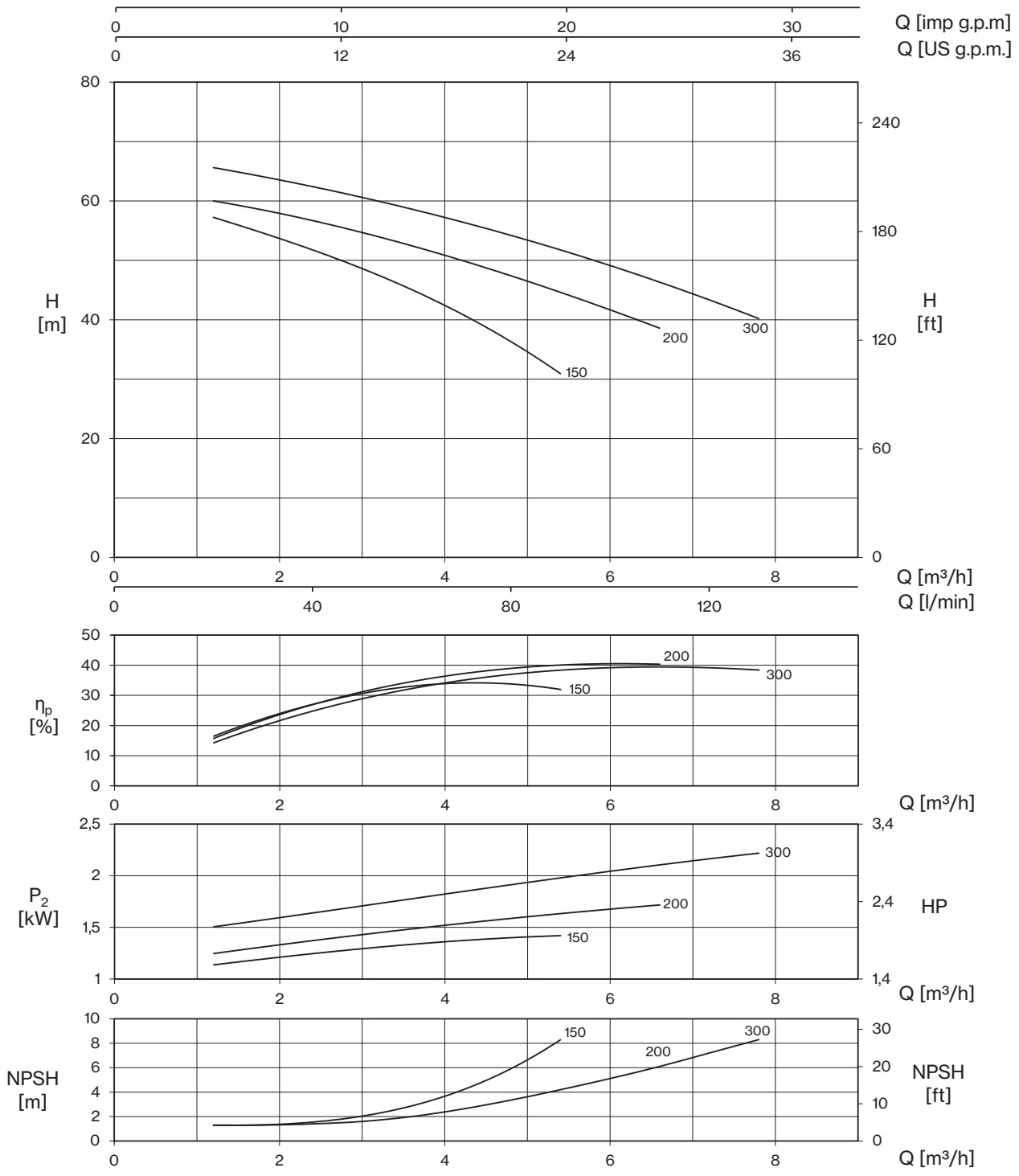
Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303 hydraulic side
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

Motor	
2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

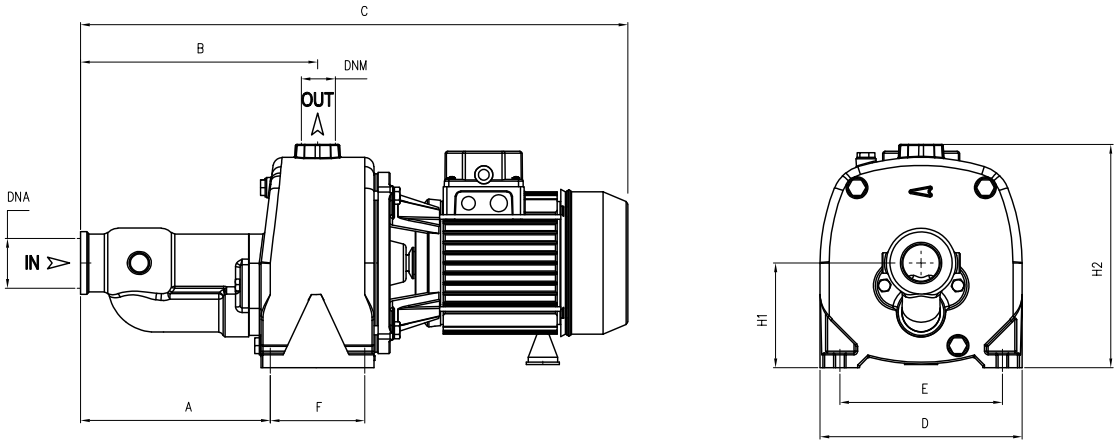


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
JA 150÷200(T)	80×120×140	25	80×120×190	35
JA 300	85×110×160	20	85×110×190	24
JA 300T	80×120×140	25	80×120×190	35

JA 150-300



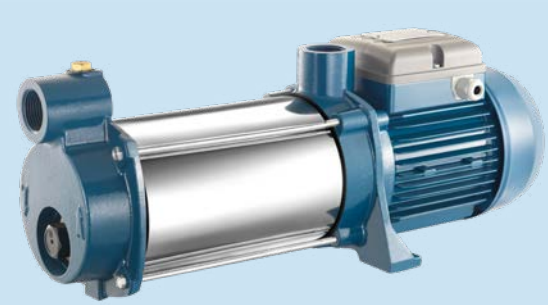
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,2	1,8	3	4,2	5,4	6,6	7,8
								0	20	30	50	70	90	110	130
		HP	kW	kW		A		H (m)							
JA 150	**JA 150T**	2	1,5	1,8	1,7	8,2	3,6	61,5	57,2	54,7	48,5	40,9	30,8		
JA 200	**JA 200T**	2,5	1,85	2,2	2,1	9,9	4,3	62,8	60,0	58,5	54,7	50,1	44,5	38,7	
JA 300	**JA 300T**	3	2,2	2,8	2,6	13,0	5,2	68,4	65,6	64,0	60,7	56,5	51,7	46,4	40,2



TYPE		DIMENSIONS (mm)														
												M L I			Kg	
~1	~3	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	~1	~3
JA 150	**JA 150T**	204	257	626	220	177	105	112	240	1" ½ G	1" G	638	230	255	33	34
JA 200	**JA 200T**	204	257	626	220	177	105	112	240			638	230	255	32,5	33
JA 300	**-**	204	257	696	220	177	105	112	240			777	259	280	42	-
-	**JA 300T**	204	257	626	220	177	105	112	240			638	230	255	-	34

MON/A

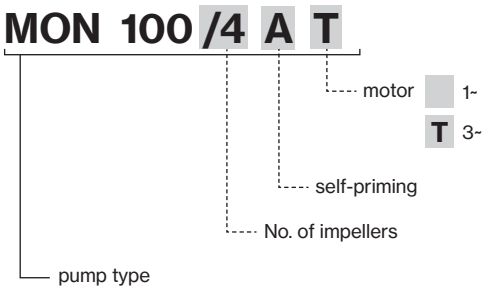
Self-priming



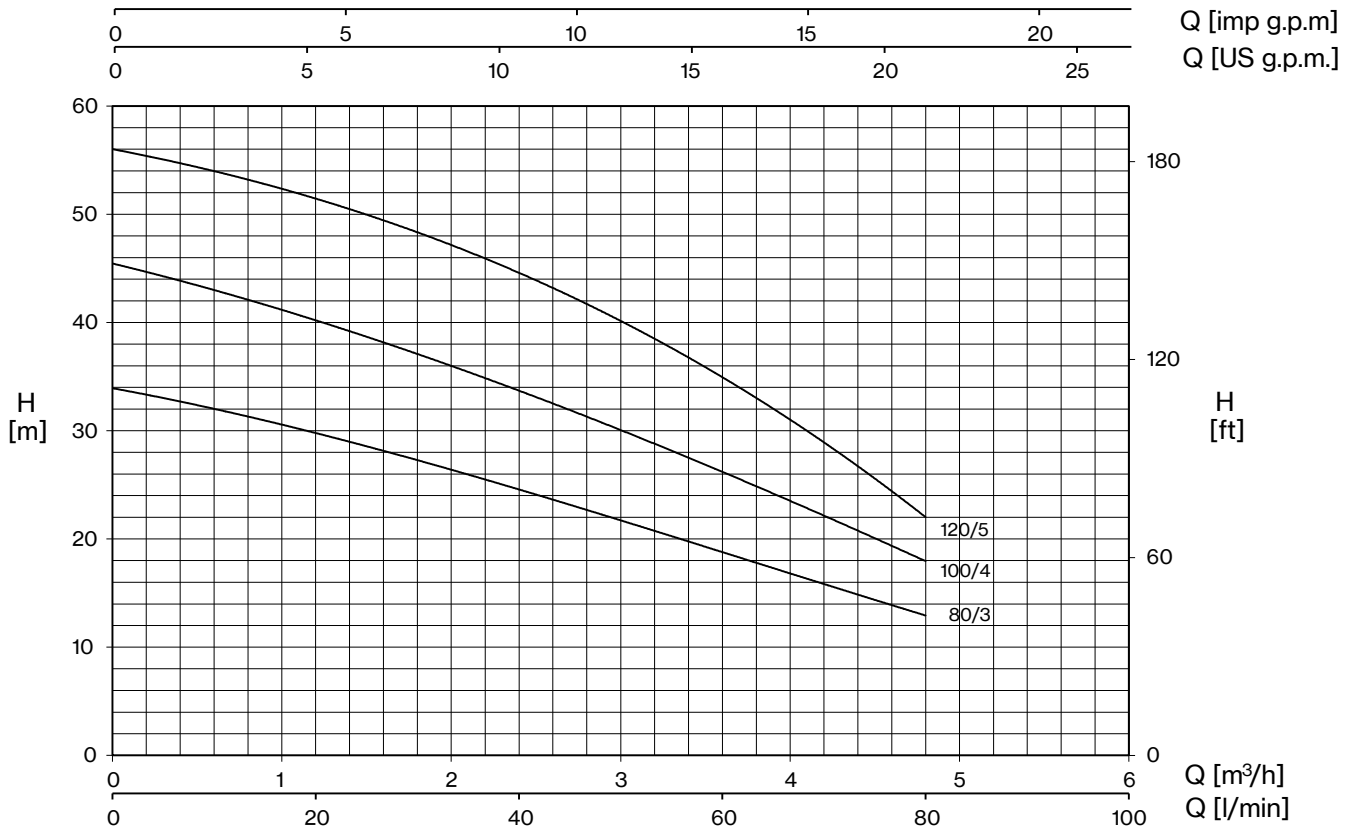
Multi-stage centrifugal pumps, horizontal and self-priming, particularly suitable for constructing small and medium sized pressurisation systems; able to suck liquids mixed with air.

Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl®
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 11 bar

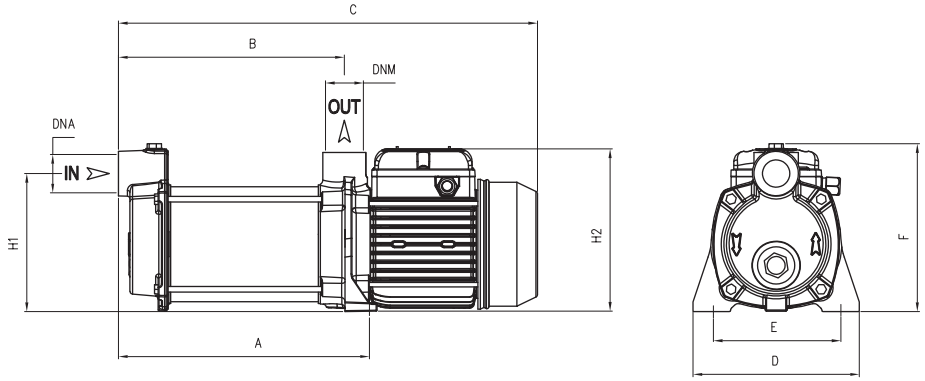
Motor	
2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protector)
Insulation class	F
Protection degree	IPX4



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
MON/A(T)	80×120×150	48	80×120×190	64



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)				
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,2	2,4	3,6	4,8
								0	20	40	60	80
		HP	kW	kW		A		H (m)				
MON 80/3A	**MON 80/3AT**	0,8	0,59	0,83	0,88	3,8	1,6	34,0	29,5	25,0	18,5	13,0
MON 100/4A	**MON 100/4AT**	1	0,74	1,07	1,1	5,0	1,9	45,5	40,0	34,0	26,0	18,0
MON 120/5A	**MON 120/5AT**	1,2	0,88	1,27	1,33	6,1	2,3	56,0	51,5	44,5	35,0	22,0



TYPE		DIMENSIONS (mm)													Kg
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
MON 80/3A	**MON 80/3AT**	245	224	425	180	140	185	150	175	1" G	1" G	440	200	215	14
MON 100/4A	**MON 100/4AT**	270	240	450	180	140	185	150	175			500	200	215	15,5
MON 120/5A	**MON 120/5AT**	295	264	475	180	140	185	150	175			500	200	215	16

JXM



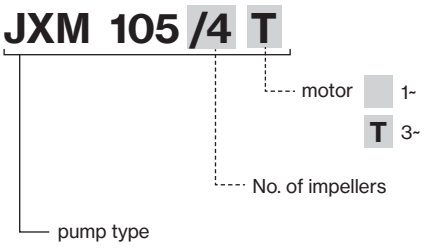
Multi-stage centrifugal pumps, horizontal and self-priming, particularly suitable for constructing small and medium sized pressurisation systems; able to suck liquids mixed with air.

Construction features

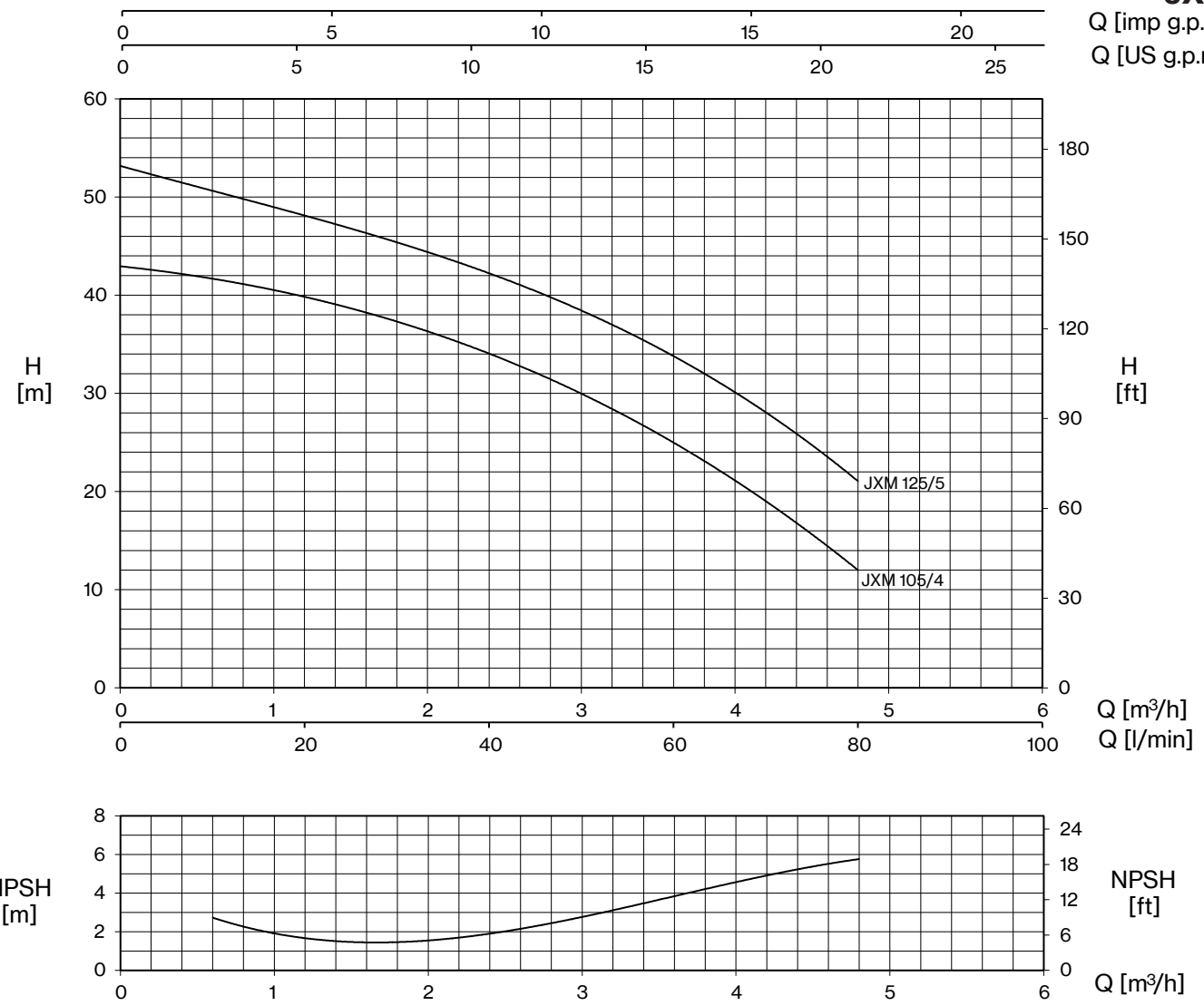
Pump body	stainless steel AISI 304
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-NBR
Pump shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

Motor

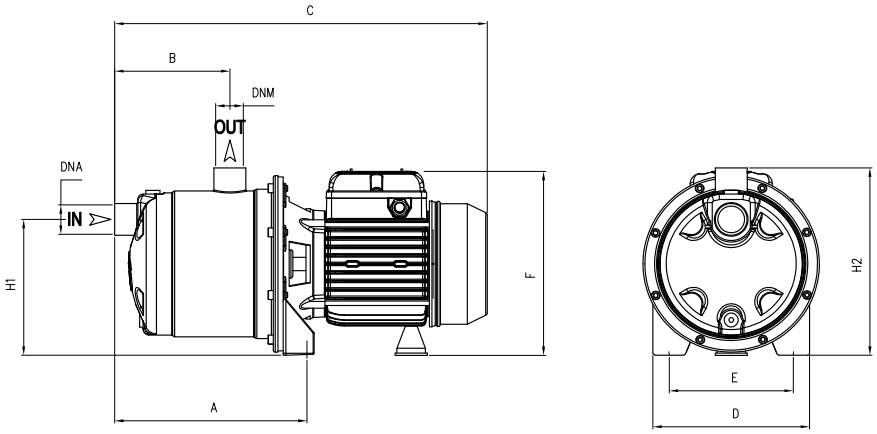
2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection
Insulation class	F
Protection degree	IPX4



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
JXM(T)	85×110×170	60	85×110×190	80



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)					
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	2,4	3,6	4,8
								0	10	20	40	60	80
		HP	kW	kW		A		H (m)					
JXM 105/4	**JXM 105/4T**	1	0,74	1,07	1,1	5,0	1,9	43,0	41,5	40,0	34,0	25,0	12,0
JXM 125/5	**JXM 125/5T**	1,2	0,88	1,27	1,33	6,1	2,3	53,0	51,0	48,0	42,0	34,0	21,0



TYPE		DIMENSIONS (mm)													Kg
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
JXM 105/4	**JXM 105/4T**	208	128	410	175	140	215	153	210	1" G	1" G	430	210	235	11
JXM 125/5	**JXM 125/5T**	208	128	410	175	140	215	153	210			430	210	235	11,5

JXM GARDEN-BOX

Portable electropumps complete with handle, cable with plug and switch.
The performances depend on adopted pump type.

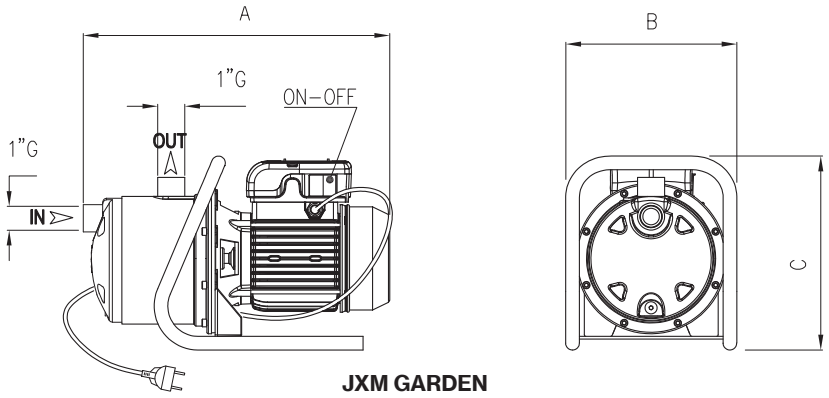


JXM GARDEN

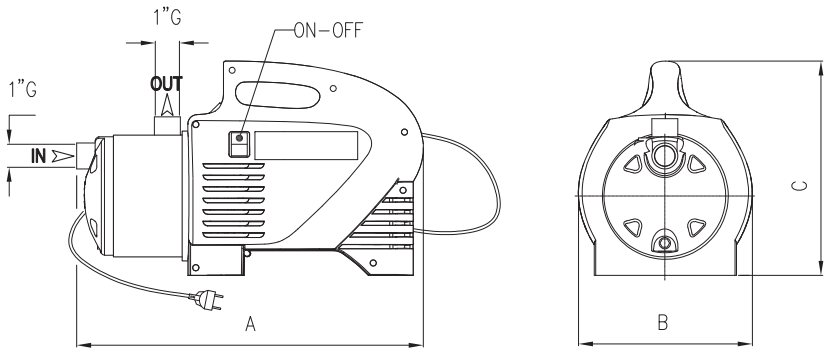


JXM BOX

TYPE - 50 Hz	P2		P1	Pipe		Performance	
1~	HP	kW	kW	Suction	Delivery	Q (l/min)	H (m)
JXM 100/4 GARDEN-BOX	1	0,74	1,07	1" G	1" G	10,0-80,0	41,5-12,0
JXM 120/5 GARDEN-BOX	1,2	0,88	1,27			10,0-80,0	51,0-21,0



JXM GARDEN



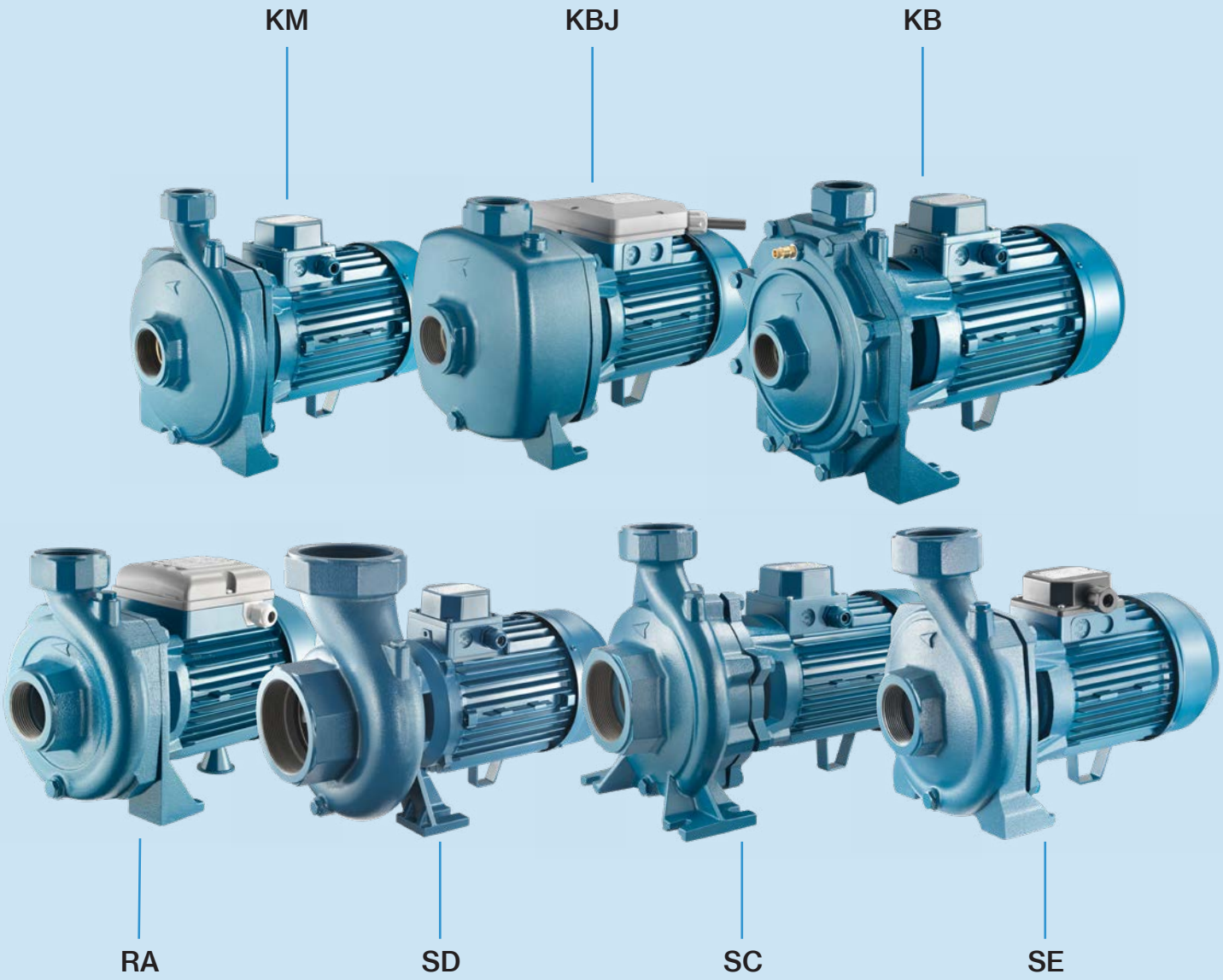
JXM BOX

TYPE	DIMENSIONS (mm)		
	A	B	C
JXM 100/4 GARDEN	410	175	285
JXM 120/5 GARDEN	410	175	285
JXM 100/4 BOX	429	209	287
JXM 120/5 BOX	410	175	285



THREADED CENTRIFUGAL

THREADED CENTRIFUGAL PUMPS

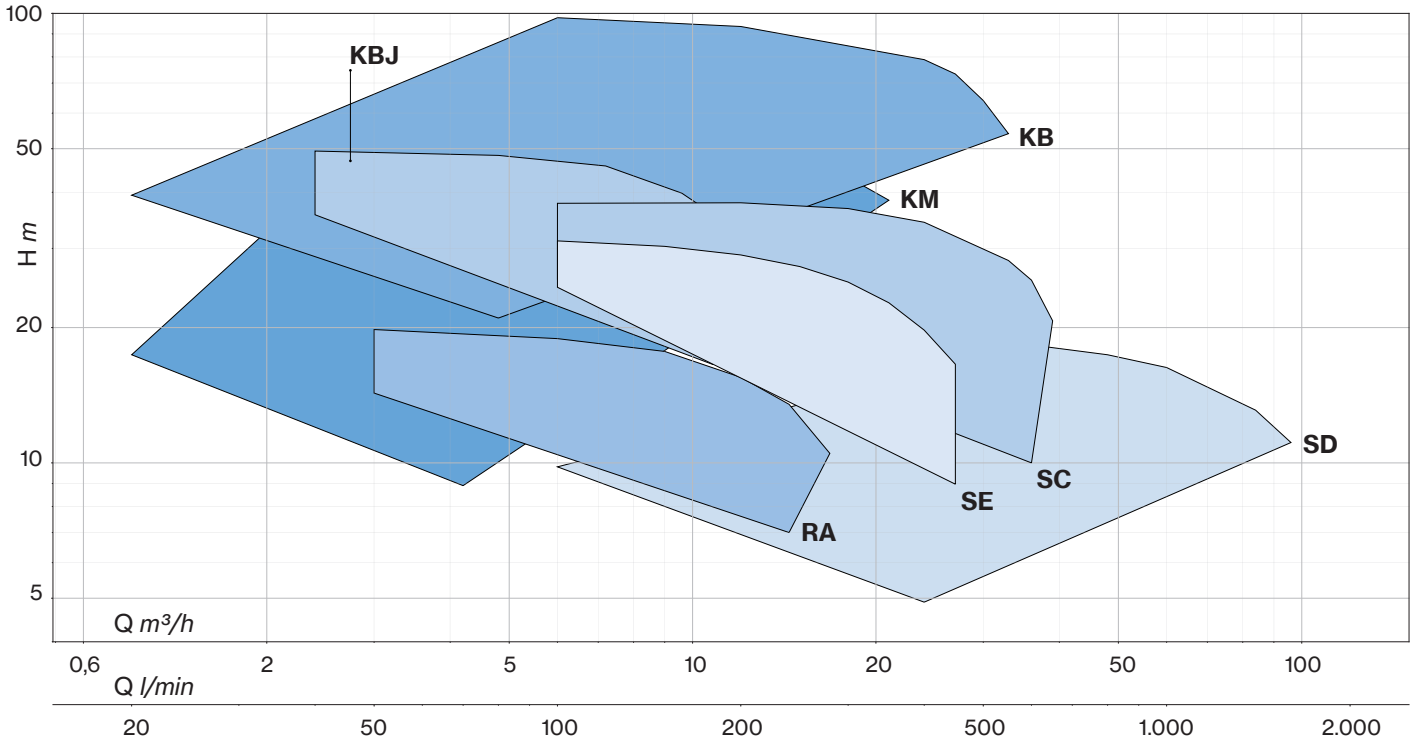


Extremely silent single and double impeller centrifugal pumps, designed for a wide range of applications

Applications:

- Water supply
- Pressurization
- Water circulation systems for heating and air conditioning
- Liquid transfer in industry and horticulture

THREADED CENTRIFUGAL PUMPS



KM

Threaded Centrifugal



Single-impeller centrifugal pumps, extremely quiet, suitable for domestic, civil and industrial applications. The pumps guarantee constant pressure at the variation of flow rates.

Construction features

Pump body	cast iron
Motor bracket	cast iron (45, 50, 164÷550); aluminum (86-106)
Impeller	Noryl® (45) Noryl® or brass (50÷550)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	steel AISI 416 (45÷106) steel AISI 303 (164÷550)
Liquid temperature	Noryl® impeller: 0 - 50 °C brass impeller: 0 - 90 °C
Operating pressure	max 6 bar (45÷106) max 8 bar (164÷550)

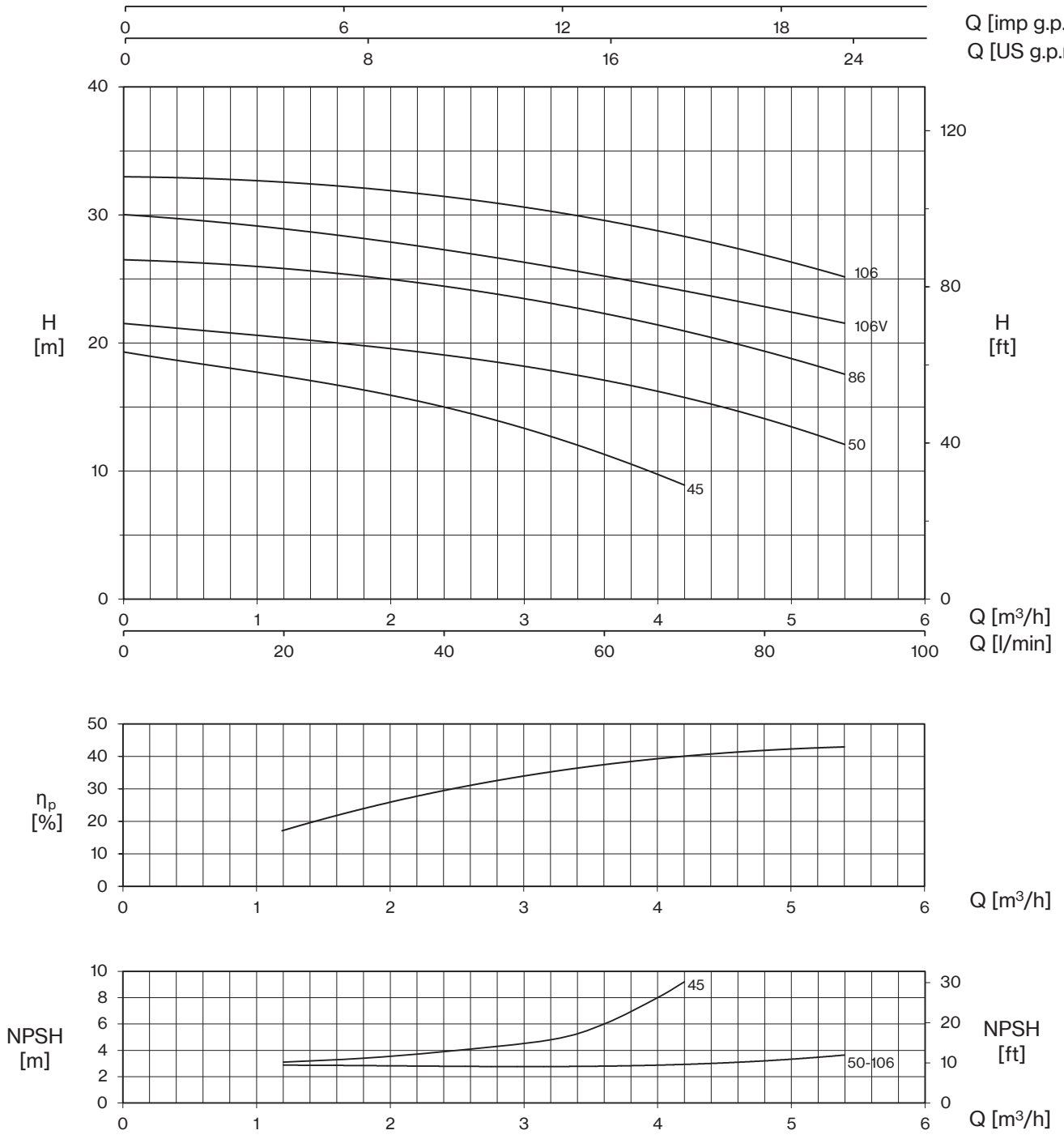
Motor

	3~ 230/400V - 50Hz
2 Poles induction motor	1~ 230V - 50Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4

KM 106 /1 T

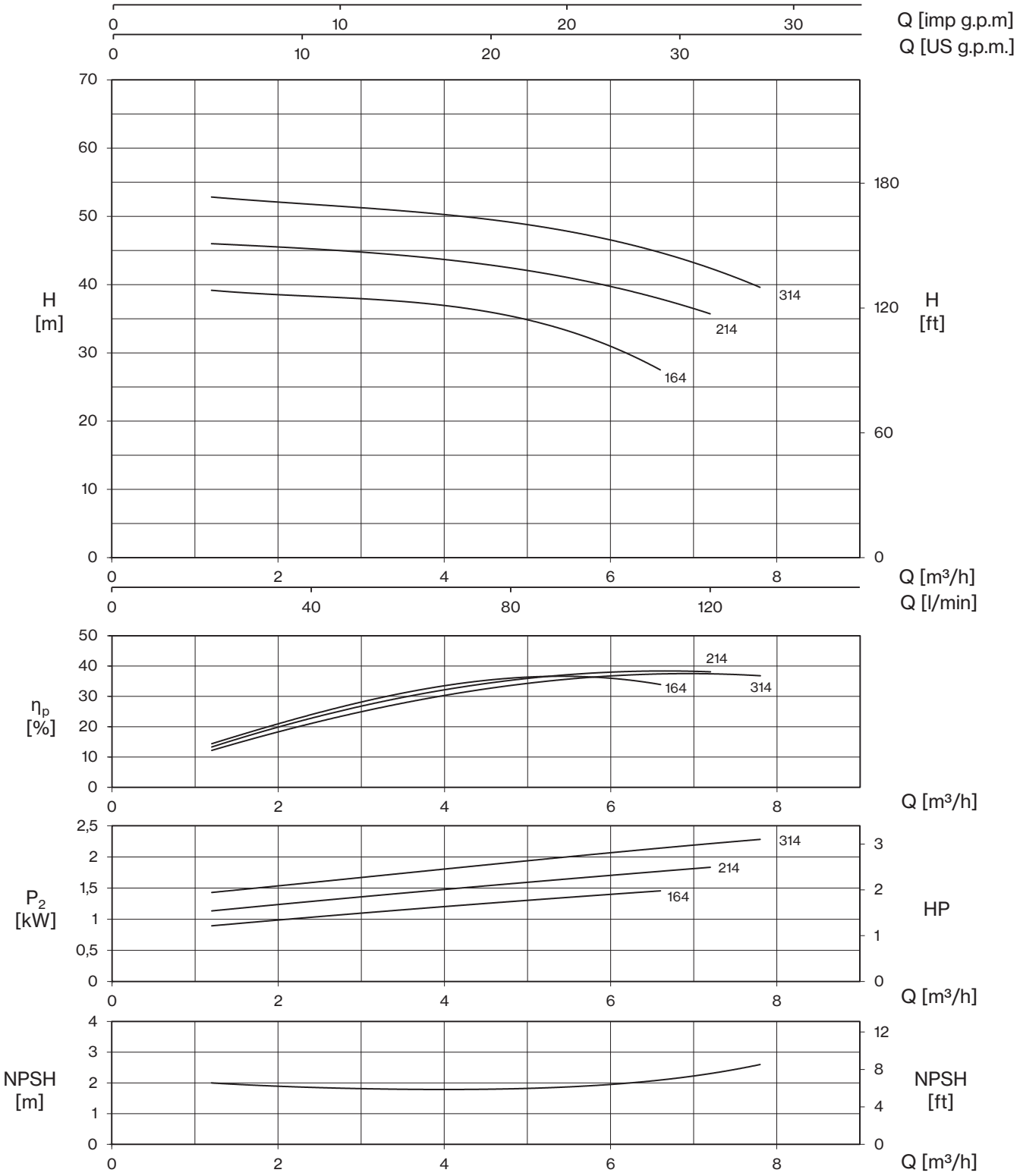
- pump type
- impeller: /1 brass; Noryl®
- motor: T 3~; 1~

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
KM 45÷50(T)	80×120×145	102	80×120×190	136
KM 86÷106(T)	85×110×145	65	85×110×195	91
KM 164÷314(T)	85×110×170	40	85×110×200	48
KM 314	85×110×150	24	85×110×180	30
KM 314T	85×110×170	40	85×110×200	48
KM 400÷550(T)	85×110×150	24	85×110×180	30

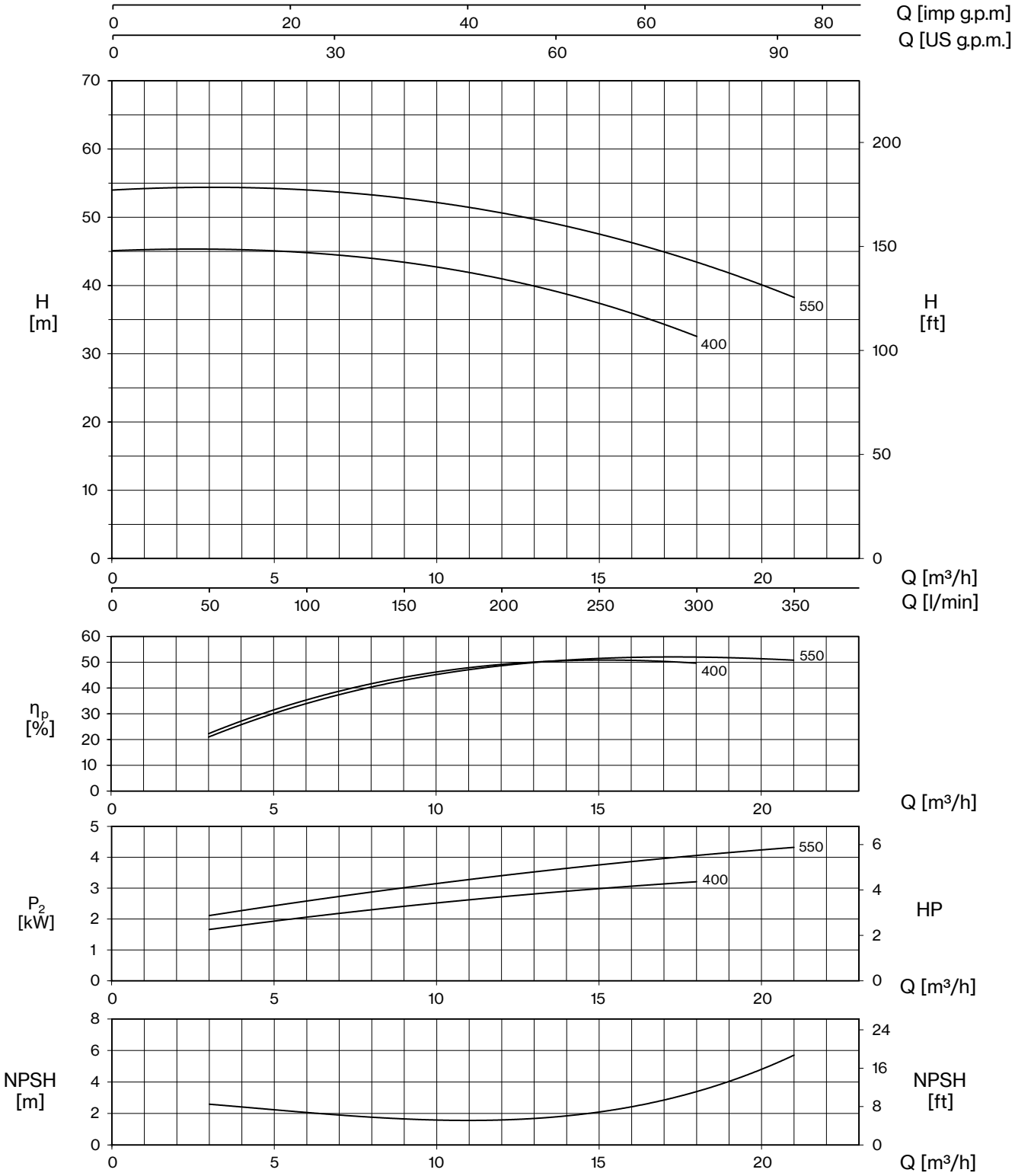


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,2	2,4	3,6	4,2	4,8	5,4
								0	20	40	60	70	80	90
		HP	kW	kW		A		H (m)						
KM 45	**KM 45T**	0,4	0,3	0,51	0,56	2,3	1	19,3	17,4	150	11,3	8,9		
KM 50	**KM 50T**	0,5	0,37	0,59	0,65	2,8	1,1	21,5	20,5	19,0	17,0	15,8	14,2	12,0
KM 86	**KM 86T**	0,8	0,59	0,9	0,94	4,5	1,7	26,5	25,8	24,5	22,2	20,9	19,5	17,5
KM 106V	**-**	1	0,74	1,05	-	4,6	-	30,0	29,0	27,2	25,2	24,1	22,9	21,5
KM 106	**KM 106T**	1	0,74	1,16	1,17	5,7	2	33,0	32,5	31,5	29,6	28,3	26,8	25,2

KM

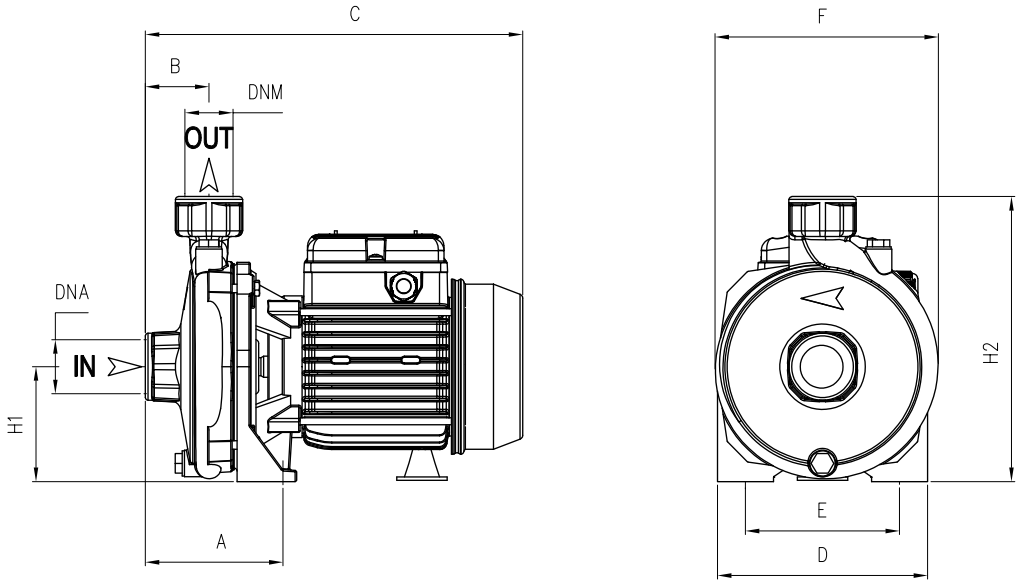


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,2	2,4	3,6	4,8	6	6,6	7,2	7,8
								0	20	40	60	80	100	110	120	130
		HP	kW	kW		A		H (m)								
KM 164	**KM 164T**	2	1,5	1,8	1,8	8,2	3,7	39,4	39,1	38,6	37,2	35,2	31,5	27,2		
KM 214	**KM 214T**	2,5	1,85	2,3	2,2	10,4	4,4	46,3	45,9	45,5	44,1	42,1	39,8	38,2	35,5	
KM 314	**KM 314T**	3	2,2	2,8	2,6	13,0	5,2	53,2	52,7	52,1	50,8	48,8	46,3	45,0	42,9	39,2



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3	6	9	12	15	18	21
								0	50	100	150	200	250	300	350
		HP	kW	kW		A		H (m)							
KM 400	**KM 400T**	4	3	3,6	3,7	16,0	6,7	45,1	45,2	44,9	43,4	40,9	37,4	32,5	
-	**KM 550T**	5,5	4	-	4,9	-	9,0	54,1	54,1	54,0	52,9	50,7	47,5	43,2	38,4

KM



TYPE		DIMENSIONS (mm)													Kg	
~1	~3	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	~1	~3
KM 45	**KM 45T**	95	45,5	265	150	110	160	82	202	1" G	1" G	290	175	225	8,5	8,5
KM 50	**KM 50T**	95	45,5	265	150	110	160	82	202			290	170	230	9,5	9,5
KM 86	**KM 86T**	110	46,5	300	180	140	185	97	234			325	200	265	13,5	13
KM 106V	**-**	110	46,5	300	180	140	185	97	234	1" G	1" G	325	200	265	14	-
KM 106	**KM 106T**	110	46,5	300	180	140	185	97	234			325	200	265	15	14,5
KM 164	**KM 164T**	117	46,5	378	220	180	225	115	285			420	230	309	25,5	26,5
KM 214	**KM 214T**	117	46,5	378	220	180	225	115	285	1" ¼ G	1" G	420	230	309	26,5	25,5
KM 314	**-**	117	46,5	446	220	180	225	115	285			520	235	320	34,5	-
-	**KM 314T**	117	46,5	378	220	180	225	115	285			420	230	309	-	27
KM 400	**KM 400T**	108	54	460	240	190	250	133	323	2" G	1" ¼ G	480	255	342	46	41,5
-	**KM 550T**	108	54	460	240	190	250	133	323			480	255	342	-	45,5

KBJ

Threaded Centrifugal



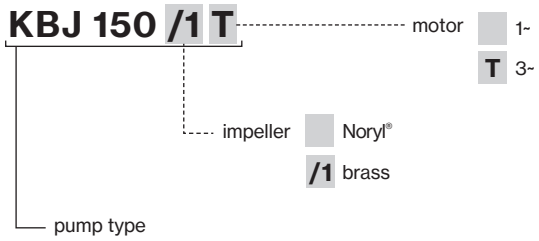
Two impeller compact centrifugal pumps for constructing pressurisation systems for civil and industrial plant: guarantee good ratio between pressure and flow rate.

Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

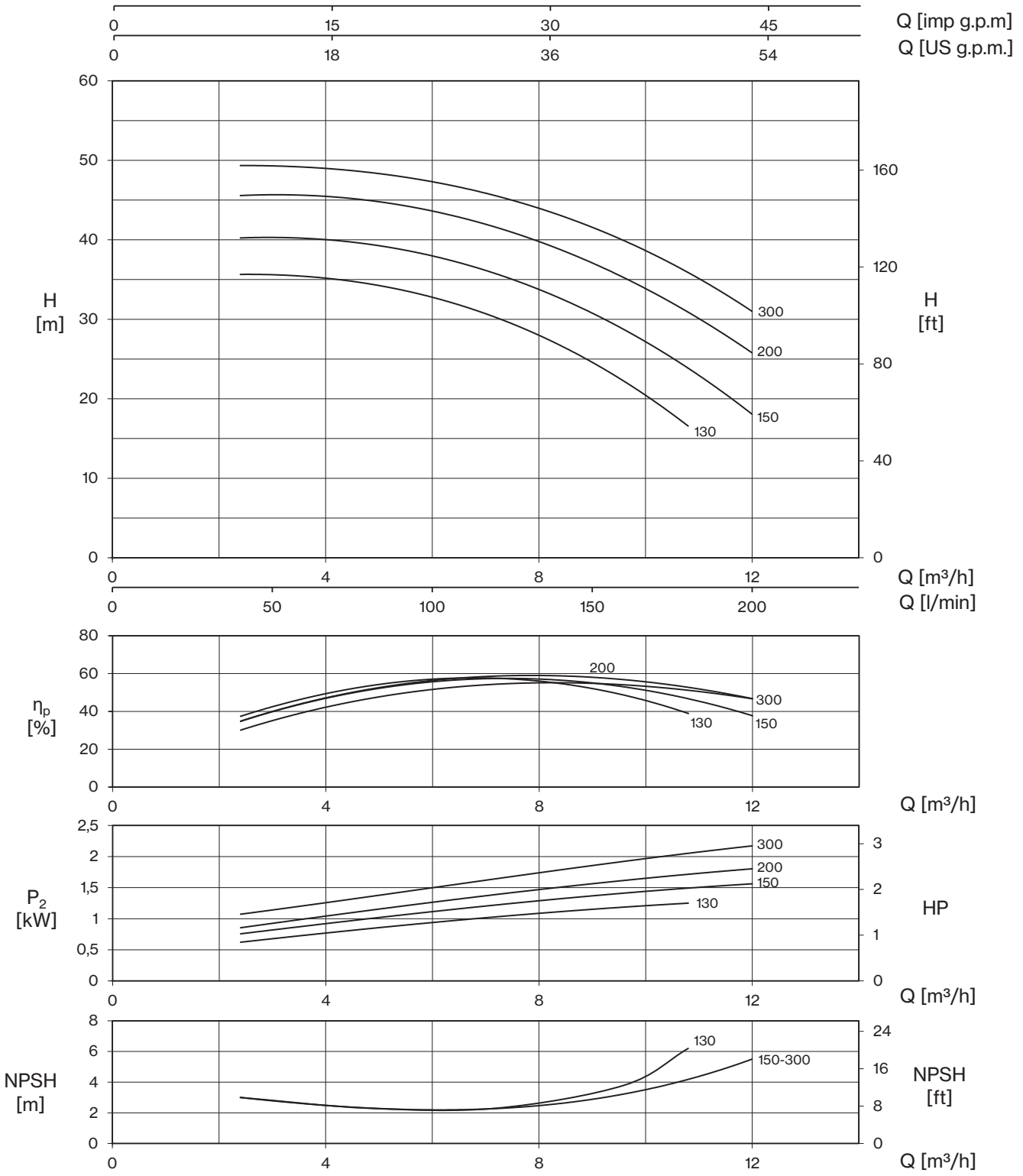
Motor

2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

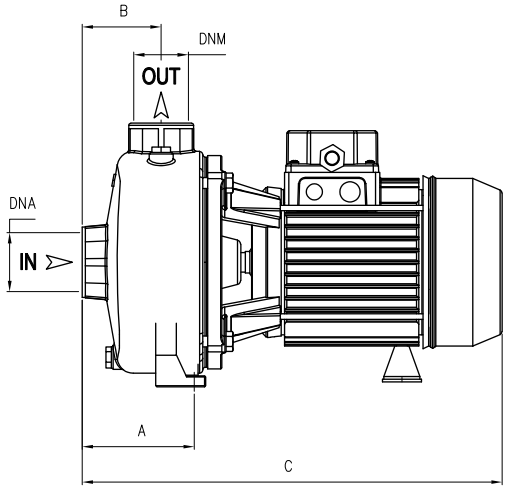


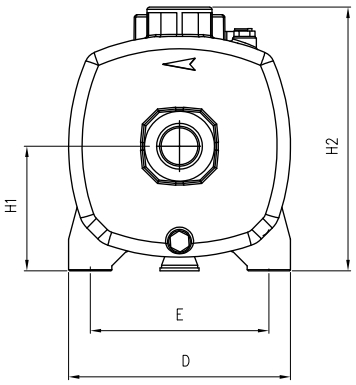
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
KBJ 130÷200(T)	85×110×160	35	85×110×190	42
KBJ 300	80×120×145	24	80×120×175	30
KBJ 300(T)	85×110×160	35	85×110×190	42

KBJ



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	2,4	4,8	7,2	9,6	10,8	12
								0	40	80	120	160	180	200
		HP	kW	kW		A		H (m)						
KBJ 130	**-**	1,8	1,3	1,6	-	7,4	-	35,1	35,6	34,5	30,2	22,2	16,6	
KBJ 150	**KBJ 150T**	2	1,5	2,0	1,9	8,9	3,7	39,2	40,2	39,5	35,7	28,7	23,9	18,0
KBJ 200	**KBJ 200T**	2,5	1,85	2,3	2,2	10,4	4,4	44,9	45,6	44,8	41,7	35,2	30,8	25,8
KBJ 300	**KBJ 300T**	3	2,2	2,6	2,5	12,4	5,1	49,5	49,4	48,3	45,8	39,8	35,8	31,1





TYPE		DIMENSIONS (mm)													
											M L I			Kg	
~1	~3	A	B	C	D	E	H1	H2	DNA	DNM	I	L	M	~1	~3
KBJ 130	-	108	73	415	205	165	115	242			433	220	287	23,5	-
KBJ 150	**KBJ 150T**	108	73	415	205	165	115	242			433	220	287	24	25
KBJ 200	**KBJ 200T**	108	73	415	205	165	115	242	1" ½ G	1" ¼ G	433	220	287	25,5	25
KBJ 300	-	108	73	485	205	165	115	242			520	235	320	34	-
-	**KBJ 300T**	108	73	415	205	165	115	242			433	220	287	-	26,5

KB

Threaded Centrifugal



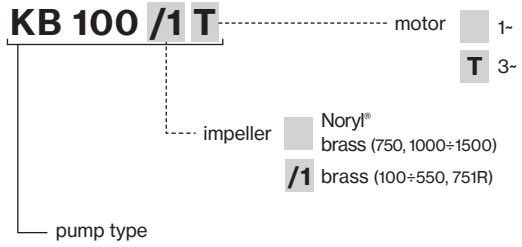
Twin-impeller centrifugal pumps for pressurisation systems in civil and industrial applications; the dual impellers ensure high head and flow rate.

Construction features

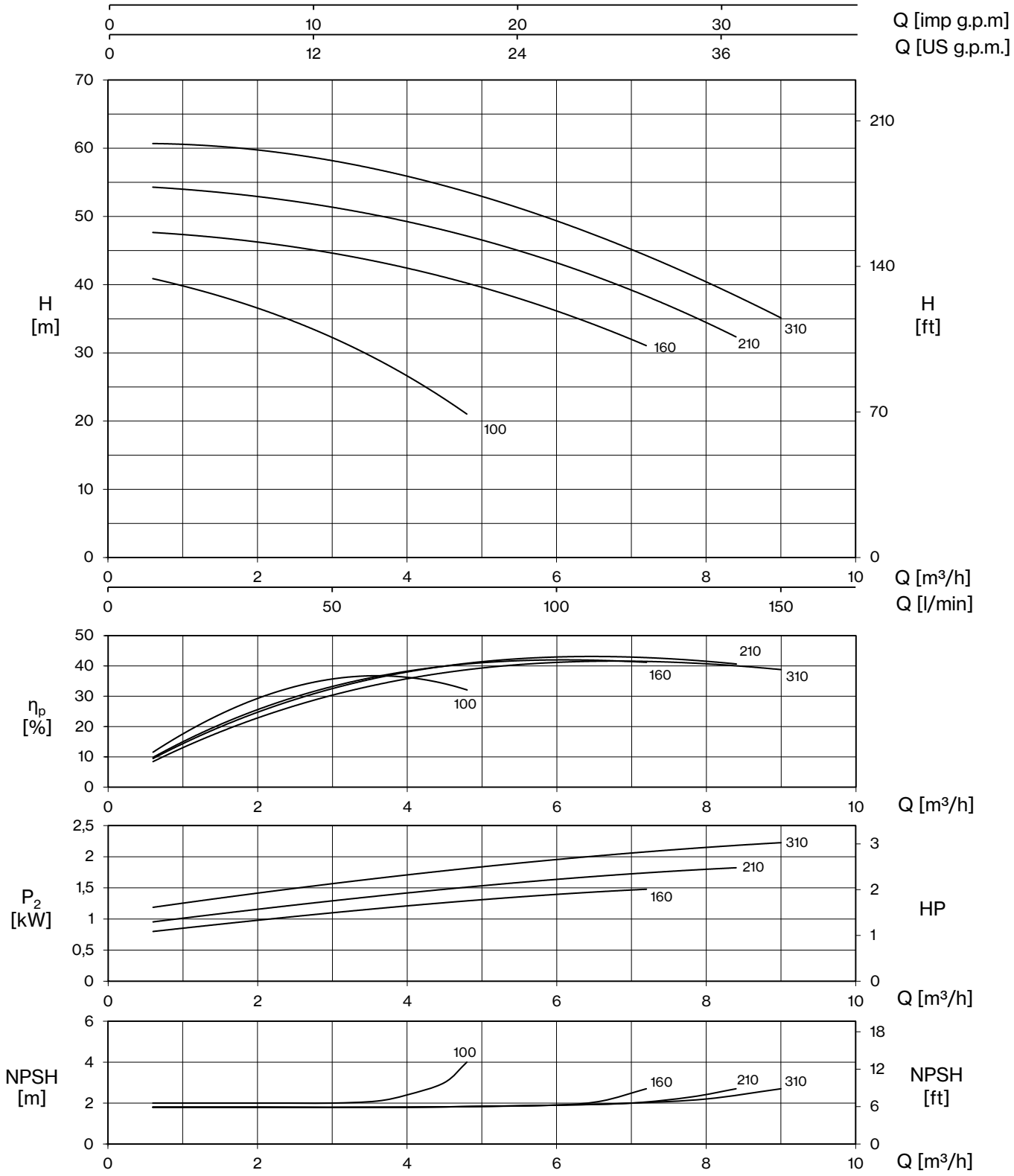
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass (100÷900) brass (750÷1500)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303 stainless steel AISI 416 (100)
Liquid temperature	Noryl® impeller: 0 - 50 °C brass impeller: 0 - 90 °C
Operating pressure	max 6 bar (100) max 11 bar (160÷1500)

Motor

2 Poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 1~ 230V - 50Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4 IPX5 (KB750÷1500)

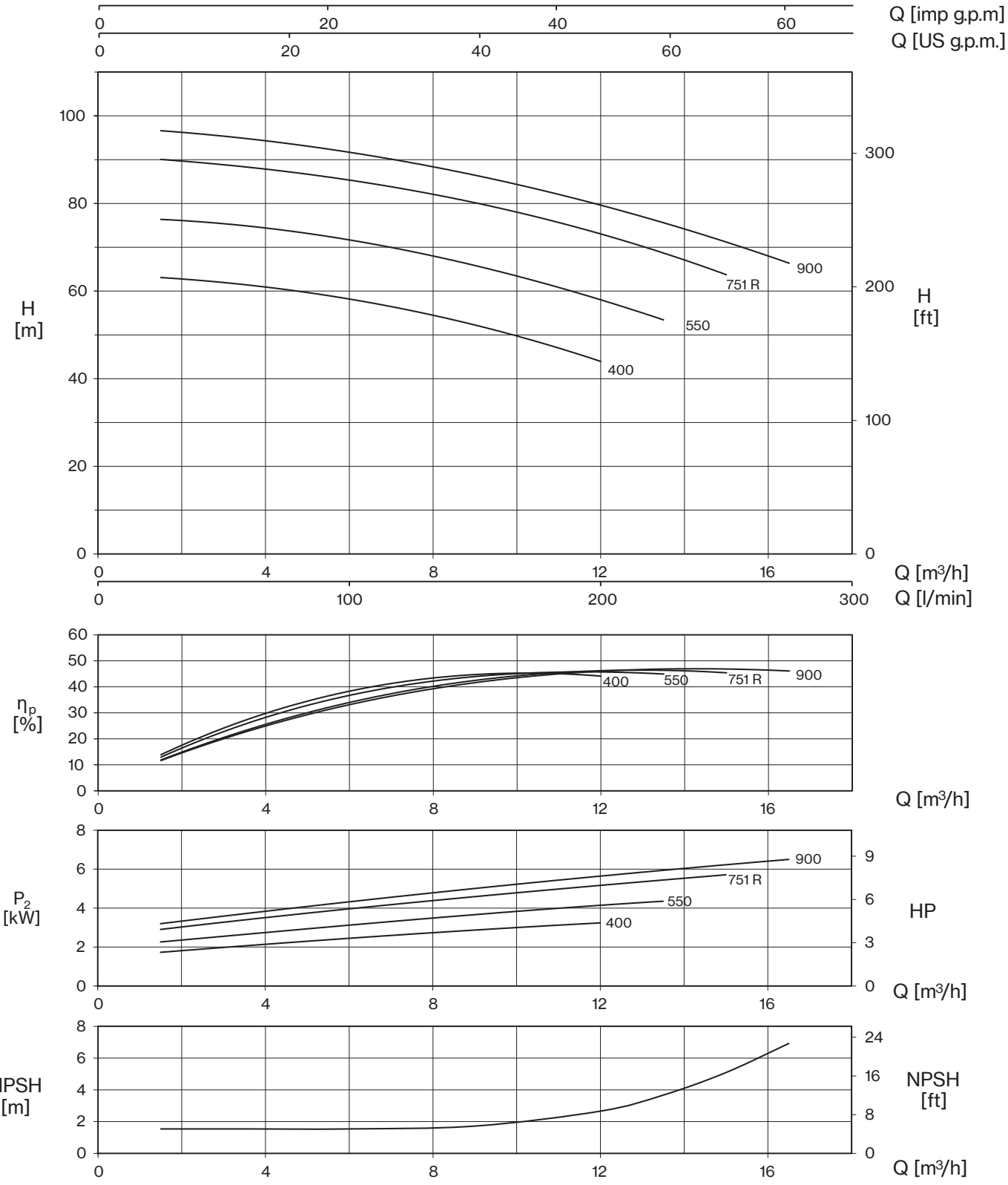


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
KB 100(T)	90×110×145	65	90×110×195	91
KB 160÷210(T)	85×110×160	35	85×110×190	42
KB 310	85×110×150	24	85×110×180	30
KB 310T	85×110×160	35	85×110×190	42
KB 400÷900(T)	85×120×150	24	85×120×180	30
KB 750÷1500(T)	100×120×140	18	100×120×185	24

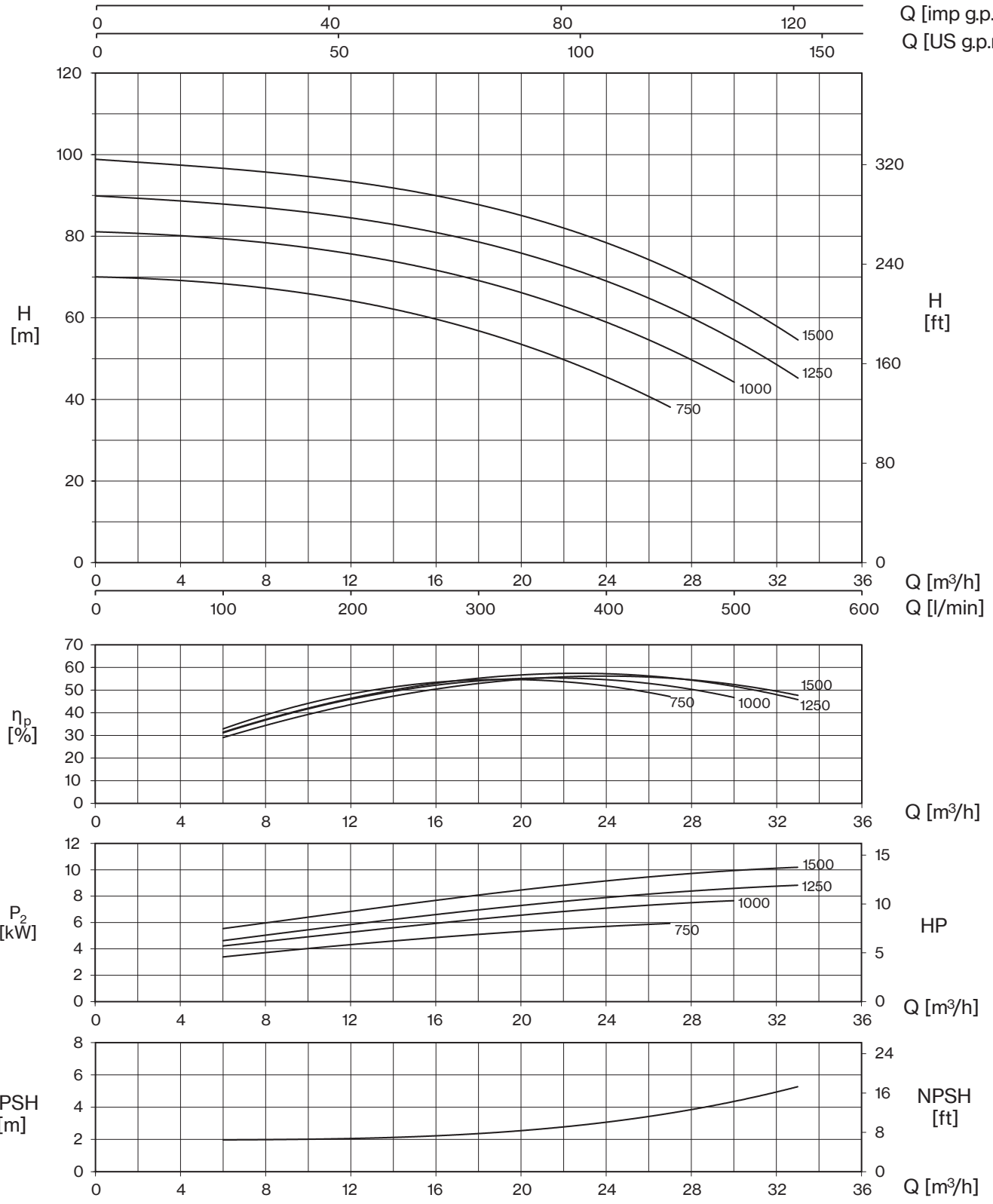


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)										
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8	6	7,2	8,4	9
								0	10	20	30	40	60	80	100	120	140	150
		HP	kW	kW		A		H (m)										
KB 100	**KB 100T**	1	0,74	1,17	1,15	5,4	2,4	42,0	40,8	39,4	37,4	34,7	29,2	21,0				
KB 160	**KB 160T**	2	1,5	1,9	1,8	8,5	3,7	48,3	47,7	47,1	46,5	45,7	43,5	40,1	36,2	31,1		
KB 210	**KB 210T**	2,5	1,85	2,3	2,2	10,4	4,4	54,9	54,4	53,8	53,0	52,3	50,5	47,1	43,1	38,3	32,4	
KB 310	**KB 310T**	3	2,2	2,8	2,6	13,0	5,2	61,4	60,9	60,3	59,8	59,2	57,1	53,6	49,3	44,2	38,3	35,2

KB

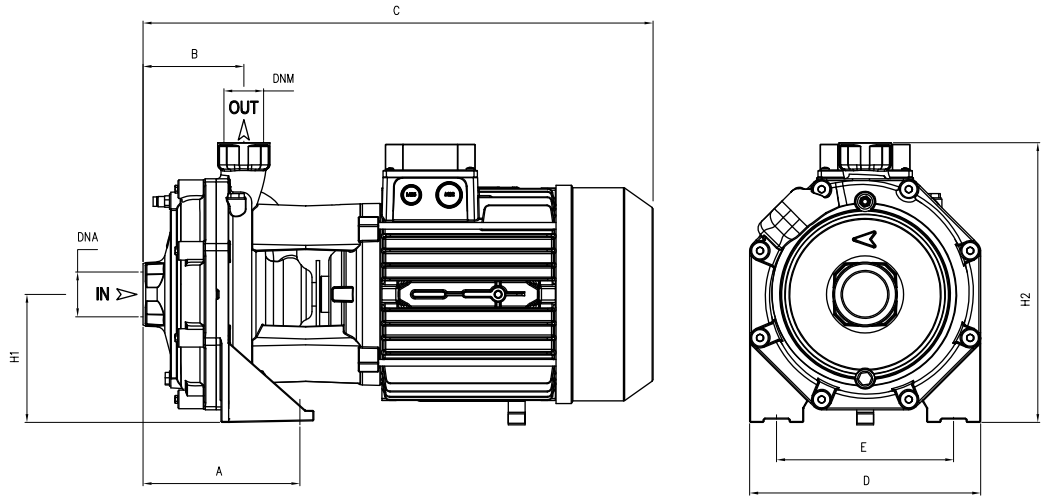


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)											
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12	13,5	15,0	16,5
								0	25	50	75	100	125	150	175	200	225	250	275
		HP	kW	kW		A		H (m)											
KB 400	**KB 400T**	4	3,0	3,7	3,8	16,4	6,7	63,6	63,1	62,0	60,3	58,2	55,5	52,3	48,4	43,9			
KB 550	**KB 550T**	5,5	4,0	5,2	5,0	23,3	9,1	76,9	76,4	75,4	73,8	71,7	69,0	65,9	62,1	58,0	53,4		
-	**KB 751RT**	7,5	5,5	-	6,5	-	11,5	90,7	90,0	88,9	87,3	85,3	82,9	80,1	76,8	73,1	68,8	63,7	
-	**KB 900T**	10	7,5	-	7,3	-	13,3	97,5	96,6	95,4	93,7	91,7	89,2	86,5	83,3	79,8	75,2	71,2	66,4



TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)							
3~				3~ 400V	0	6	12	18	24	27	30	33
					0	100	200	300	400	450	500	550
	HP	kW	kW	A	H (m)							
KB 750T	7,5	5,5	6,7	11,1	70,0	68,5	63,9	57,1	45,3	38,2		
KB 1000T	10	7,5	8,5	13,9	80,7	80,4	75,0	68,5	59,7	52,6	43,7	
KB 1250T	12,5	9,2	9,8	16,3	89,5	88,8	84,1	77,7	69,7	63,0	54,2	45,1
KB 1500T	15	11,0	11,2	18,6	98,3	97,8	93,5	85,7	78,9	73,3	64,0	54,0

KB



TYPE		DIMENSIONS (mm)												Kg	
~1	~3	A	B	C	D	E	H1	H2	DNA	DNM	I	L	M	~1	~3
KB 100	**KB 100T**	122	72	328	180	140	98	228	1" G	1" G	350	195	265	15,5	15
KB 160	**KB 160T**	115	82	408	210	170	110	265	1" ¼ G		433	220	287	25,5	26,5
KB 210	**KB 210T**	115	82	408	210	170	110	265			433	220	287	26	27
KB 310	**-**	115	82	477	210	170	110	265			520	235	320	35,5	-
-	**KB 310T**	115	82	408	210	170	110	265			433	220	287	-	27,5
KB 400	**KB 400T**	145	95,5	498	266	212	135	305	1" ½ G	1" ¼ G	553	274	318	48	44
KB 550	**KB 550T**	145	95,5	498	266	212	135	305			553	274	318	56,5	48
-	**KB 751RT**	145	95,5	532	266	212	135	305			553	274	318	-	56
-	**KB 900T**	145	95,5	532	266	212	135	305			553	274	318	-	62
-	**KB 750T**	190	120	605	275	210	150	330	2" G	1" ¼ G	675	390	300	-	78
-	**KB 1000T**	190	120	605	275	210	150	330			675	390	300	-	84
-	**KB 1250T**	190	120	645	275	210	150	330			675	390	300	-	91,5
-	**KB 1500T**	190	120	645	275	210	150	330			675	390	300	-	95,5

RA

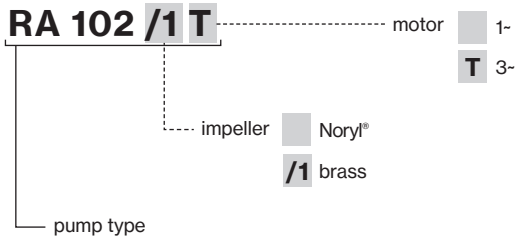
Threaded Centrifugal



Medium delivery centrifugal pumps for agricultural applications. Equipped with an open impeller that allows the pumping of nonclean liquids, guaranteeing the free passage of small solids (Ø max. 10 mm).

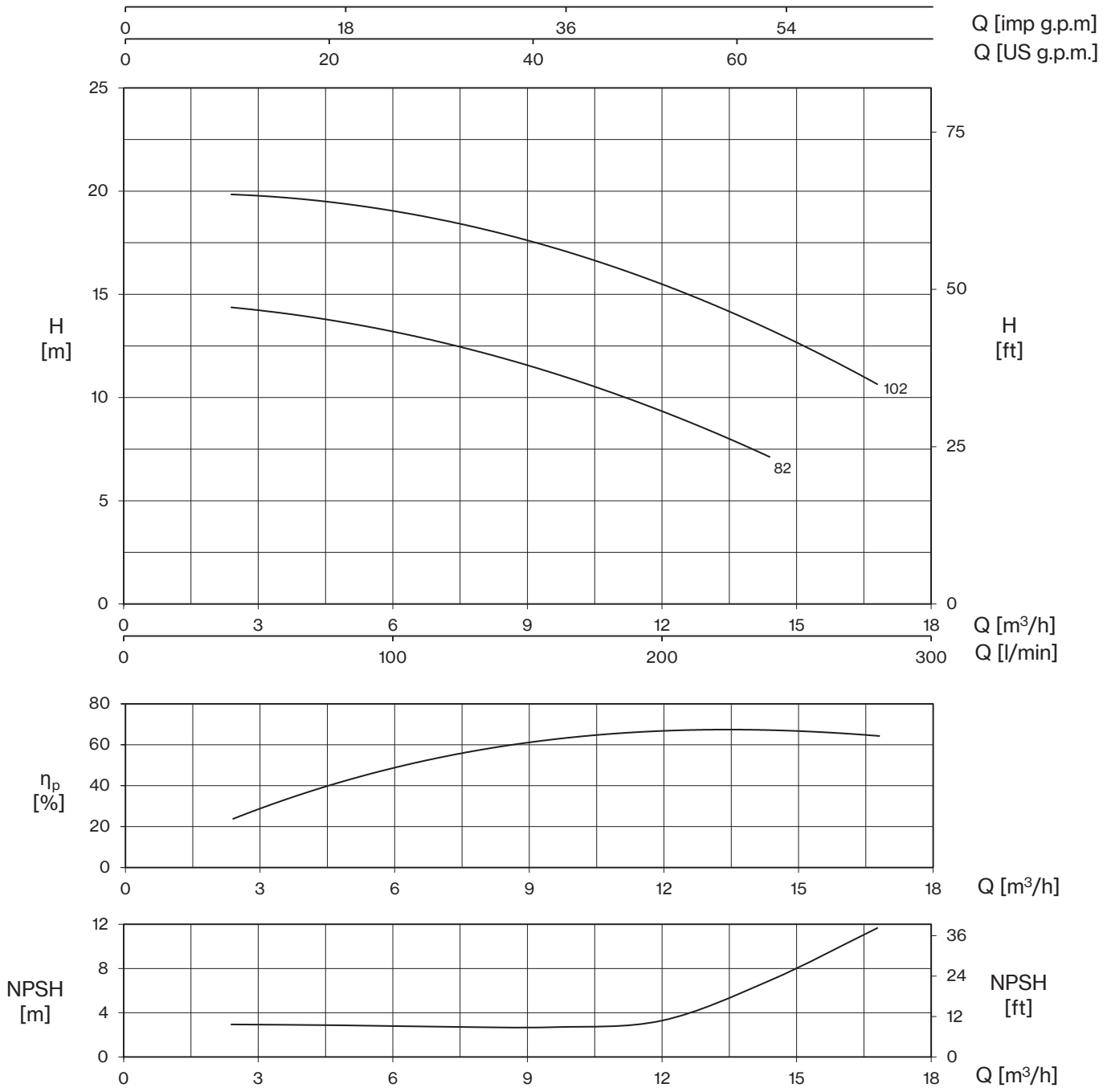
Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	Noryl® impeller: 0 - 50 °C brass impeller: 0 - 90 °C
Operating pressure	max 6 bar

Motor	
2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

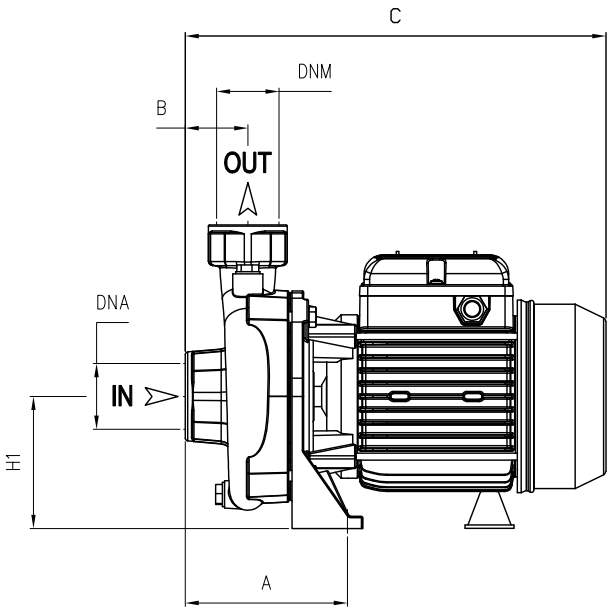


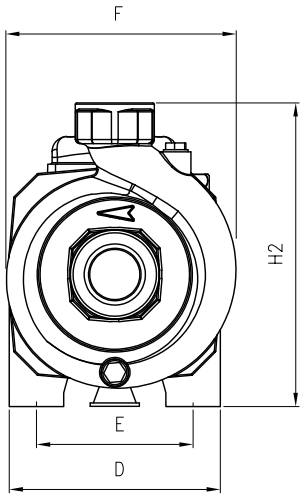
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
RA(T)	85×110×145	65	85×110×195	91

RA



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3	6	9	12	14,4	16,8
								0	50	100	150	200	240	280
		HP	kW	kW		A		H (m)						
RA 82	**RA 82T**	0,8	0,59	0,73	0,83	3,4	1,5	15,0	14,3	13,0	11,6	9,5	7,0	
RA 102	**RA 102T**	1	0,74	1,14	1,20	5,3	2,4	20,5	19,8	18,9	17,7	15,5	13,5	10,5





TYPE		DIMENSIONS (mm)														
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	1~	3~
RA 82	**RA 82T**	120	45	308	155	115	170	97	222	1" ½ G	1" ½ G	325	200	265	13,1	12,5
RA 102	**RA 102T**	120	45	308	155	115	170	97	222			325	200	265	14,5	13,7

SD

Threaded Centrifugal



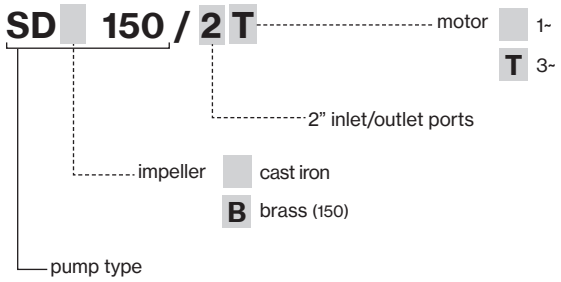
Single-impeller, medium to high-flow rate centrifugal pumps with 2”, 3” and 4” delivery openings. Mainly used in agriculture for flood and sprinkler irrigation, and water withdrawal from reservoirs or canals.

Construction features

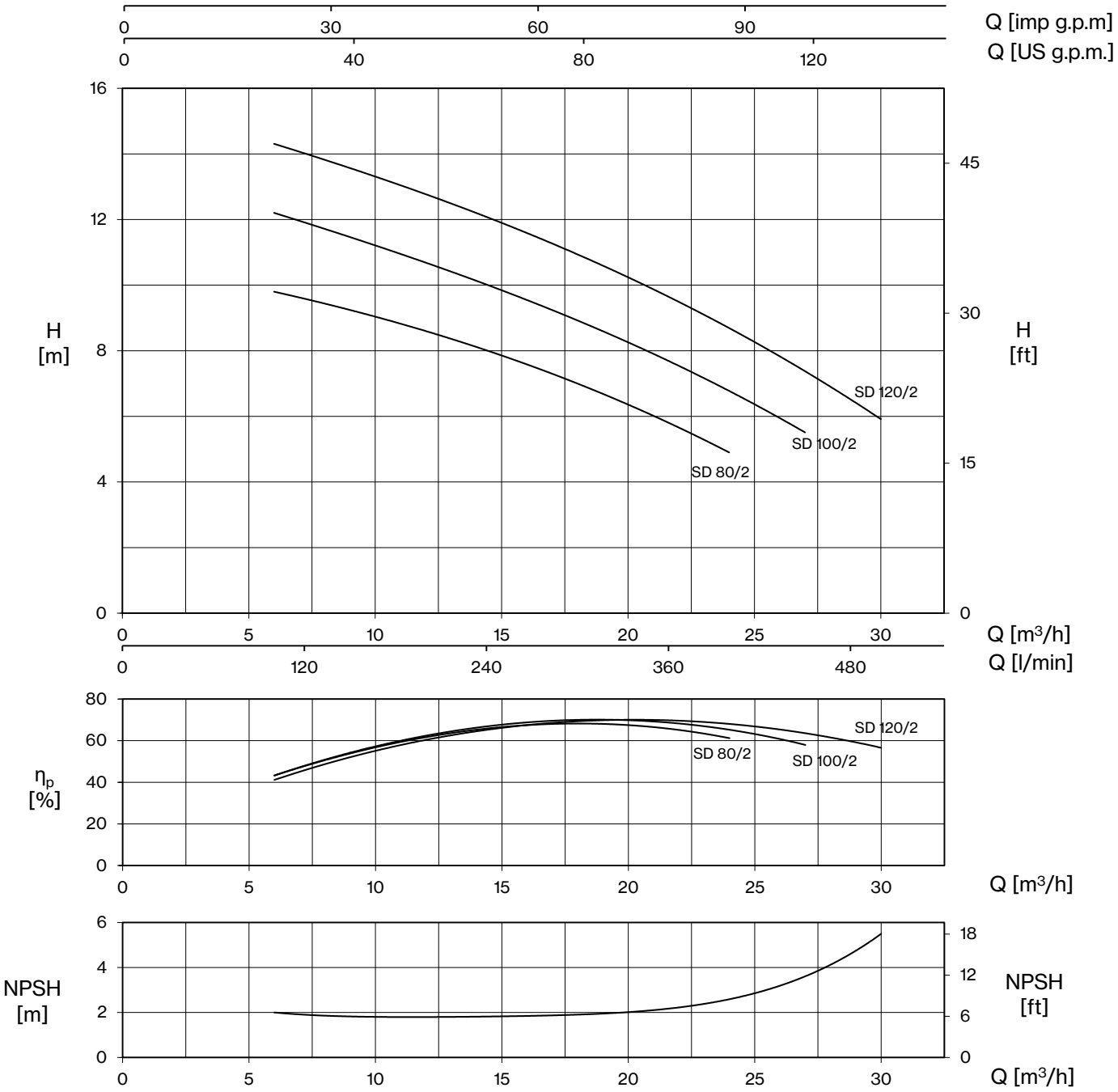
Pump body	cast iron
Motor bracket	cast iron
Impeller	cast iron or brass (SDB)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303 stainless steel AISI 416 (SD 80÷120)
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar

Motor

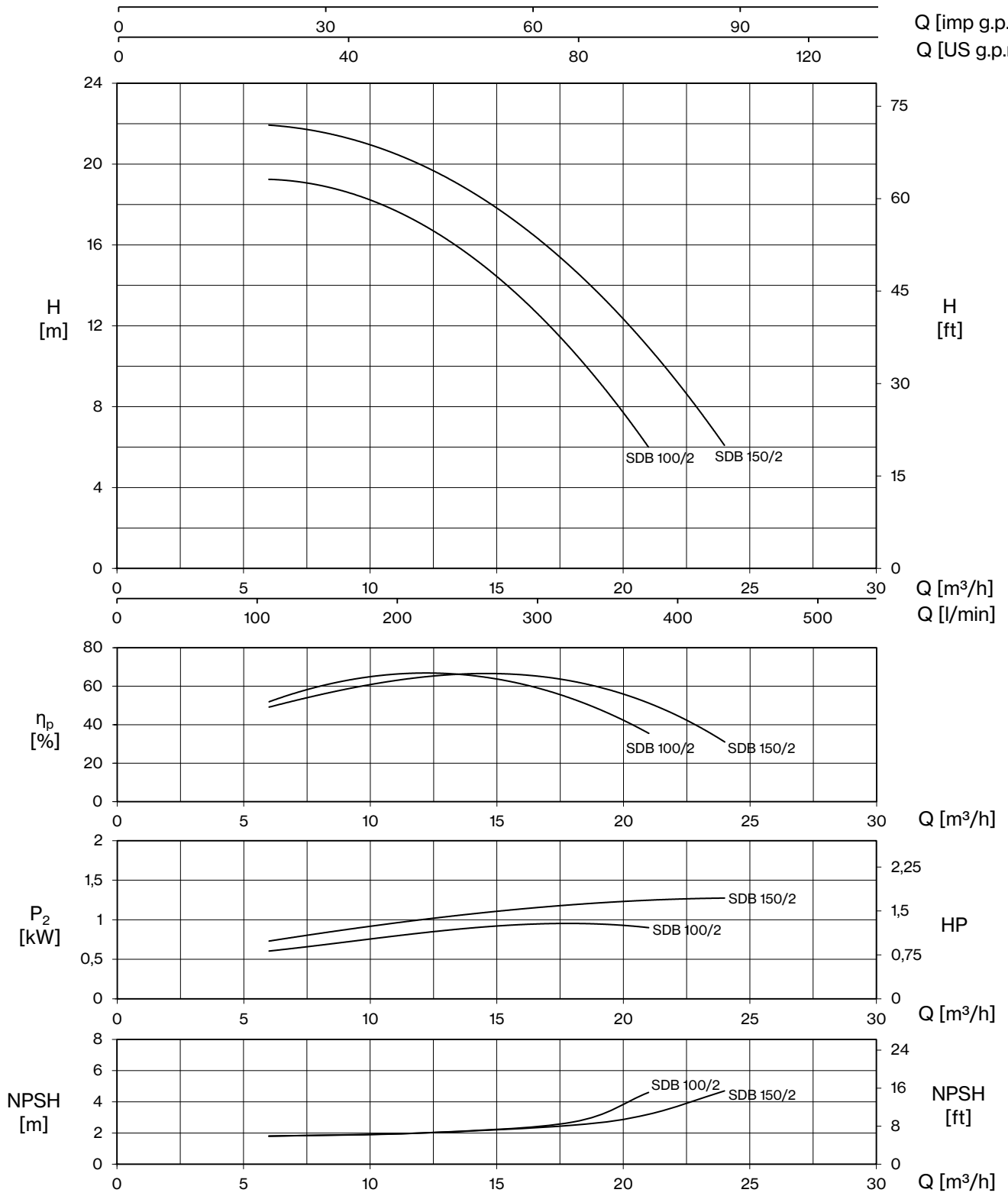
2 Poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW 1~ 230V - 50Hz (with thermal protecion up to MEC 80)
Insulation class	F
Protection degree	IPX4



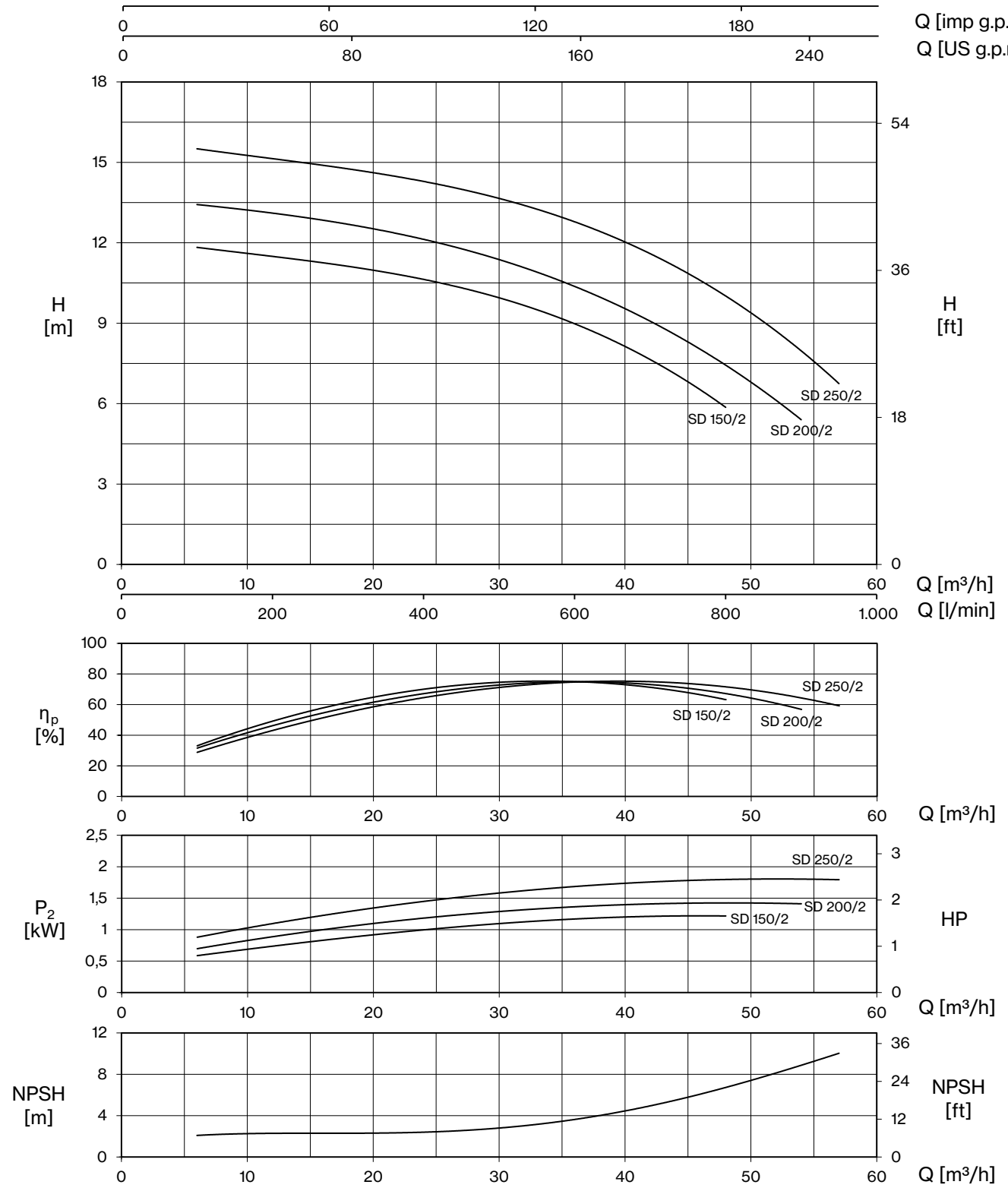
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
SD 80/2÷120/2(T)	90×110×145	65	90×110×195	91
SD(B) 100/2÷250/2(T)	85×110×170	40	85×110×200	48
SD 200/3-300/3(T)	85×110×150	30	85×110×180	60
SD 400/3÷550/4(T)	80×120×150	30	80×120×180	60
SD 750/4T-1000/4T	100×120×140	18	100×120×185	24



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	6	12	18	24	27	30
								0	100	200	300	400	450	500
		HP	kW	kW		A		H (m)						
SD 80/2	**SD 80/2T**	0,8	0,59	0,8	0,7	3,5	1,3	10,1	9,8	8,6	7,0	4,9		
SD 100/2	**SD 100/2T**	1	0,74	1	0,85	4,5	1,6	12,8	12,2	10,7	8,9	6,8	5,5	
SD 120/2	**SD 120/2T**	1,2	0,9	1,2	1,1	5,4	2,0	15,0	14,3	12,8	10,9	8,7	7,4	5,9

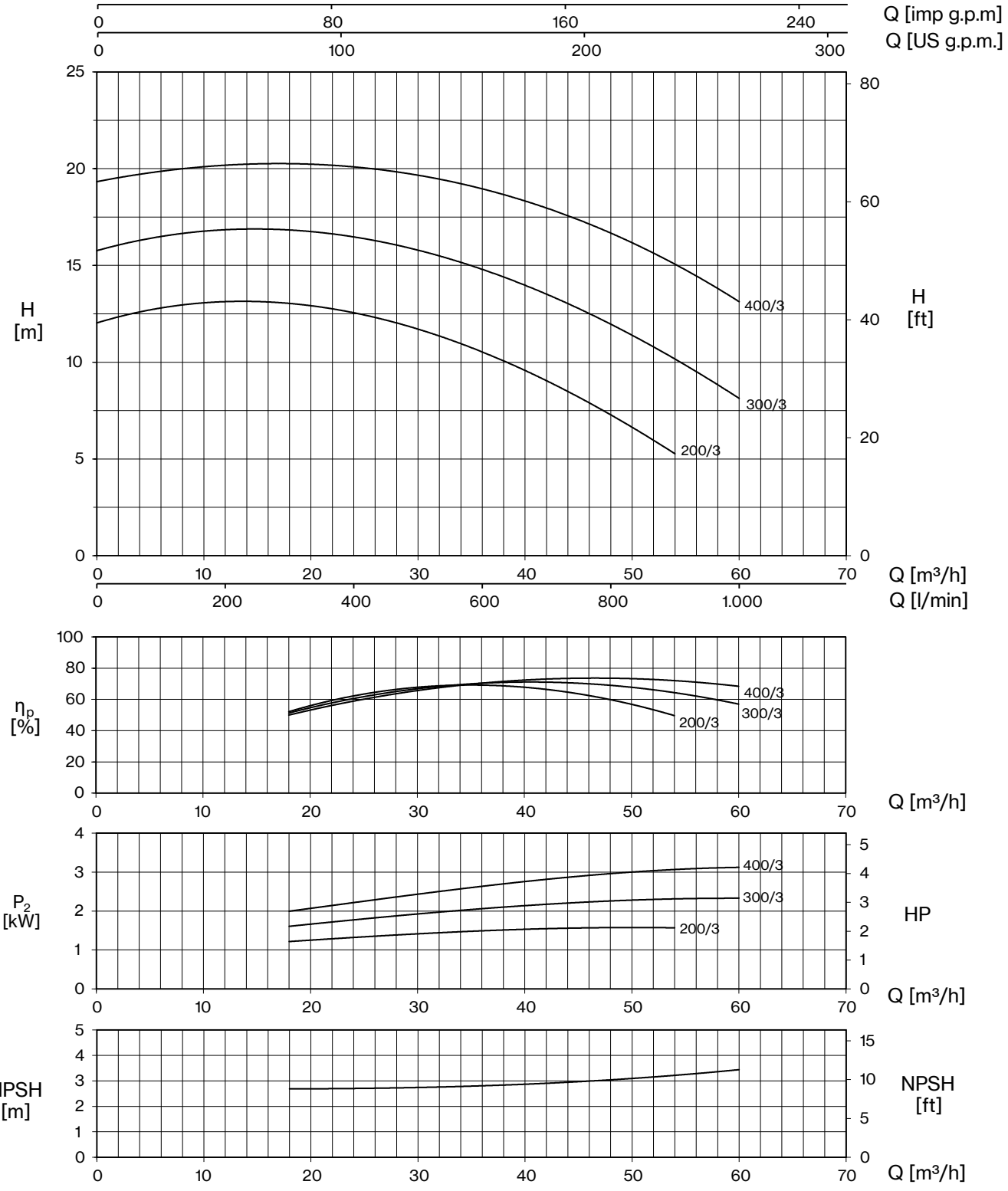


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)					
1~	3~			1~	3~	1~ 230V	3~ 400V	0	6	12	18	21	24
								0	100	200	300	350	400
		HP	kW	kW		A		H (m)					
SDB 100/2	-	1,5	1,1	1,3	-	6,1	-	18,8	19,2	17,1	10,8	6,0	
SDB 150/2	**SDB 150/2T**	1,8	1,3	1,6	1,5	7,4	3,5	21,6	21,9	19,9	15,0	10,8	6,1

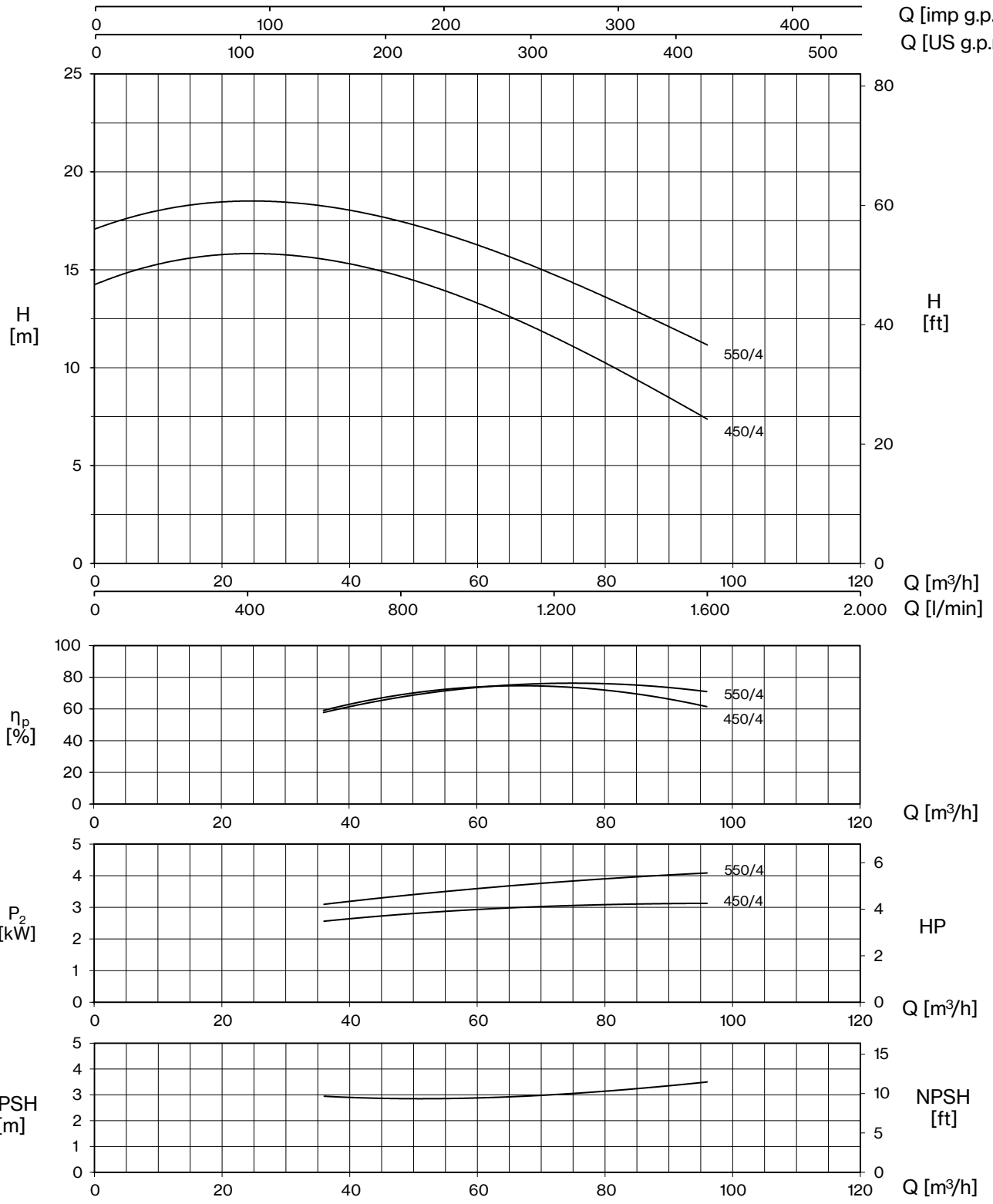


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)									
1~	3~			1~	3~	1~ 230V	3~ 400V	0	6	18	24	30	36	42	48	54	57
								0	100	300	400	500	600	700	800	900	950
		HP	kW	kW		A		H (m)									
SD 150/2	**SD 150/2T**	1,8	1,3	1,5	1,4	7,1	3,4	11,9	11,8	11,1	10,6	10,0	8,9	7,6	5,9		
SD 200/2	**SD 200/2T**	2	1,5	1,7	1,7	8,0	3,6	13,5	13,4	12,6	12,1	11,4	10,4	9,1	7,3	5,4	
SD 250/2	**SD 250/2T**	2,5	1,85	2,2	2,1	9,9	4,3	15,6	15,6	14,6	14,3	13,8	12,9	11,6	9,9	7,9	6,9

SD

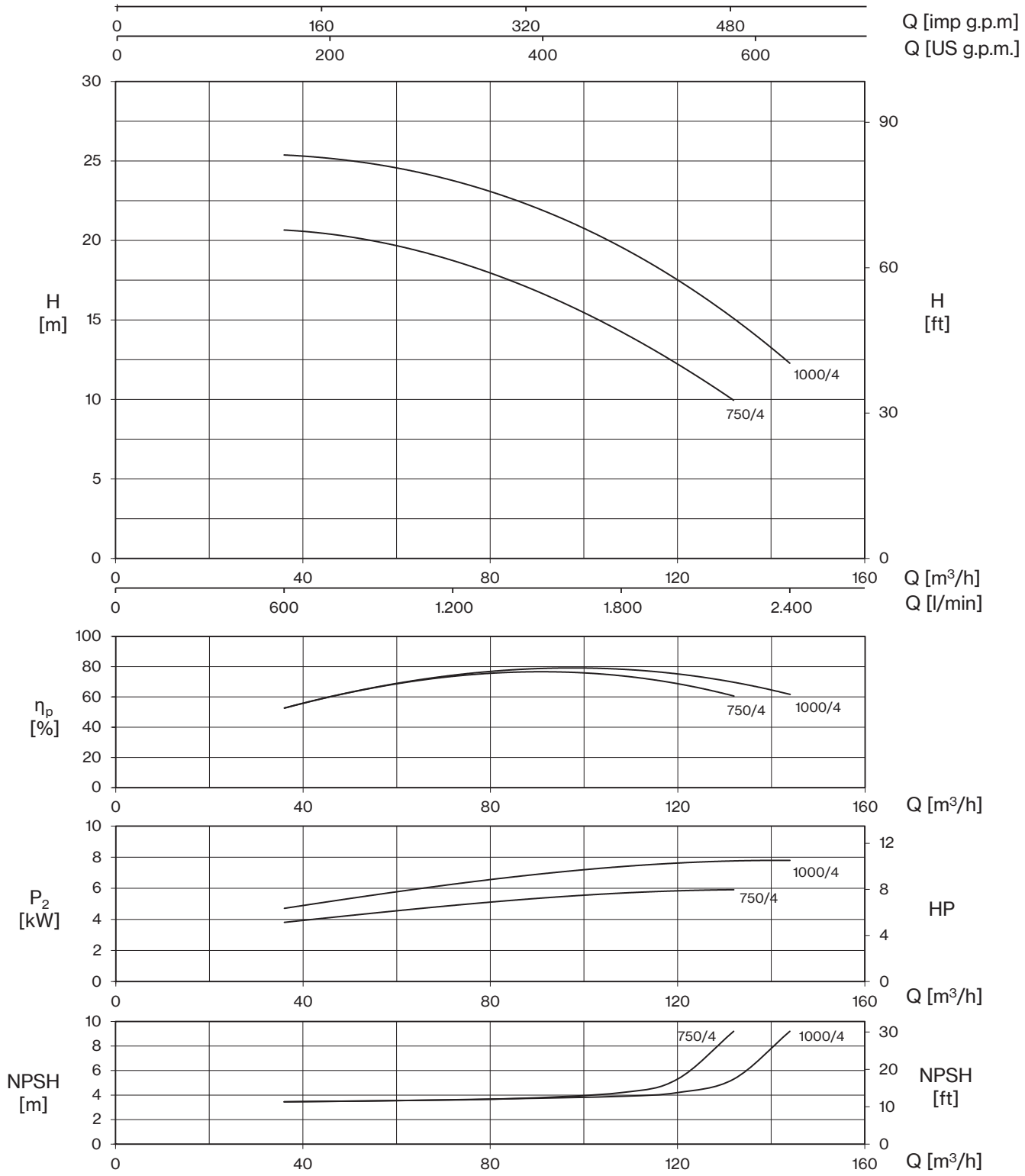


TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	18	24	30	36	42	48	54	60
								0	300	400	500	600	700	800	900	1000
		HP	kW	kW		A		H (m)								
SD 200/3	**SD 200/3T**	2	1,5	1,9	1,9	8,9	3,5	12,0	13,0	12,6	11,8	10,6	9,0	7,2	5,3	
SD 300/3	**SD 300/3T**	3	2,2	2,7	2,7	12,4	5,0	15,8	16,8	16,5	15,7	14,7	13,6	12,0	10,1	8,2
-	**SD 400/3T**	4	3	-	3,6	-	6,6	19,3	20,3	20,1	19,6	18,9	18,0	16,8	15,0	13,1

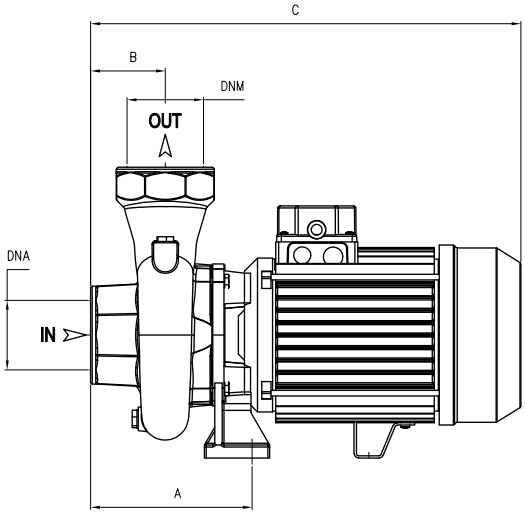


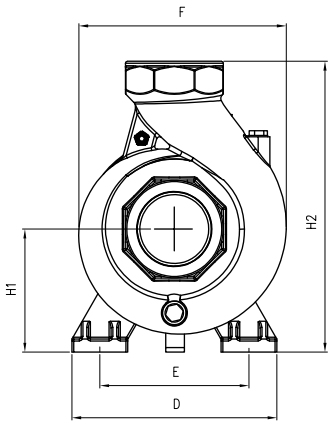
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	36	48	60	72	84	96
								0	600	800	1000	1200	1400	1600
		HP	kW	kW		A		H (m)						
SD 450/4	**SD 450/4T**	4	3	3,6	3,6	16,1	6,5	14,2	15,5	14,7	13,4	11,5	9,6	7,4
-	**SD 550/4T**	5,5	4	-	4,7	-	8,5	17,1	18,3	17,4	16,3	14,7	13,1	11,1

SD



TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)								
3~				3~ 400V	0	36	48	60	84	108	120	132	144
					0	600	800	1000	1400	1800	2000	2200	2400
	HP	kW	kW	A	H (m)								
SD 750/4T	7,5	5,5	6,7	11,6	18,9	20,6	20,4	19,7	17,4	14,3	12,3	9,9	
SD 1000/4T	10	7,5	8,8	15,4	23,6	25,3	25,2	24,6	22,6	19,5	17,6	15,2	12,2





TYPE		DIMENSIONS (mm)													Kg	
~1	~3	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	~1	~3
SD 80/2	**SD 80/2T**	127	45	315	155	115	178	97	247			340	195	280	14,5	14
SD 100/2	**SD 100/2T**	127	45	315	155	115	178	97	247			340	195	280	16	15
SD 120/2	**SD 120/2T**	127	45	315	155	115	178	97	247	2” G	2” G	340	195	280	16,5	16
SDB 100/2	**-**	130	70	395	180	130	195	90	240			420	230	309	23	-
SDB 150/2	**SDB 150/2T**	130	70	395	180	130	195	90	240			420	230	309	23	23
SD 150/2	**SD 150/2 T**	150	53	400	180	140	218	115	285			420	230	309	27	27,5
SD 200/2	**SD 200/2T**	150	53	400	180	140	218	115	285	2" G	2" G	420	230	309	26	27,5
SD 250/2	**SD 250/2T**	150	53	400	180	140	218	115	285			420	230	309	27,5	28
SD 200/3	**SD 200/3T**	176,5	80	485	184	130	225	112	292			520	235	320	33	28
SD 300/3	**SD 300/3T**	176,5	80	485	184	130	225	112	292	3” G	3” G	520	235	320	33	30,5
-	**SD 400/3T**	176,5	80	485	184	130	225	112	292			520	235	320	-	36,5
SD 450/4	**SD 450/4T**	165	85	515	200	150	250	130	330			546	265	355	46,5	42,5
-	**SD 550/4T**	165	85	515	200	150	250	130	330	4” G	4” G	546	265	355	-	47
-	**SD 750/4T**	117	83	559	215	170	254	134	333			627	287	408	-	56,5
-	**SD 1000/4T**	117	83	559	215	170	254	134	333			627	287	408	-	63

SC

Threaded Centrifugal



Centrifugal pumps characterized by medium flow rate and stable head as the flow rate changes. Suitable for flood and sprinkler irrigation, water withdrawal from reservoirs or canals and industrial applications.

Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	cast iron
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar

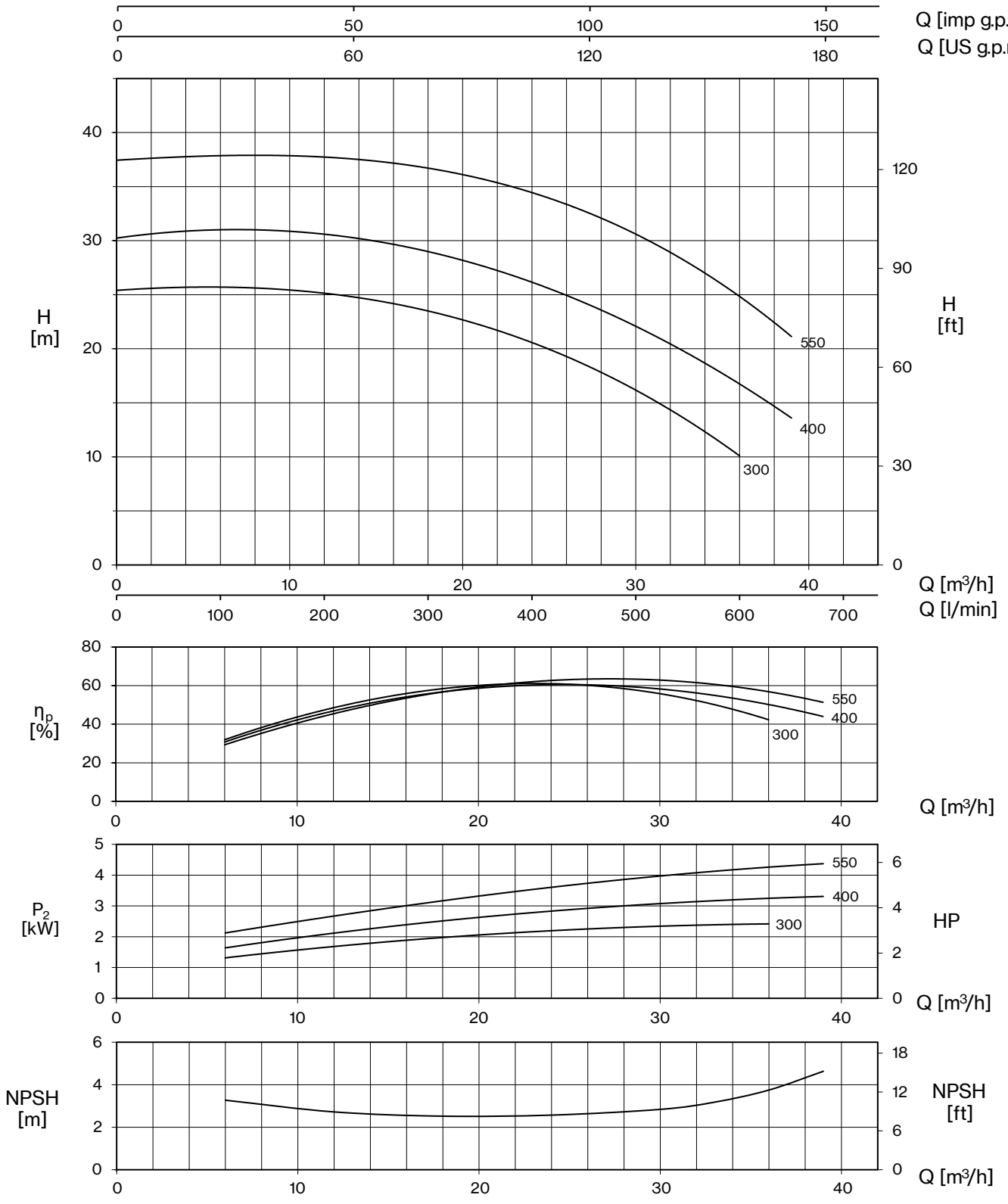
Motor

2 Poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

SC 300 T — motor: (blank) 1~, **T** 3~

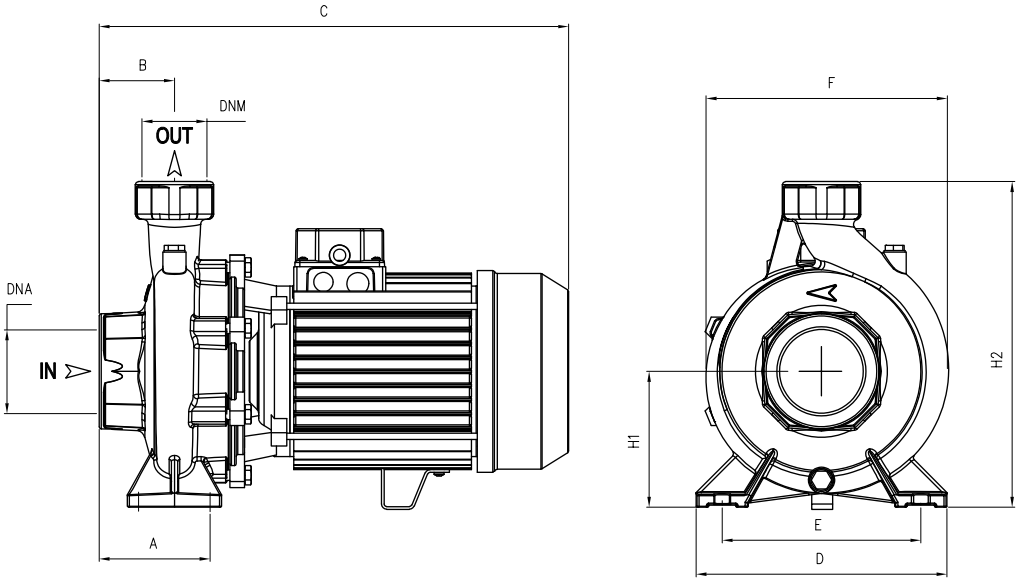
pump type

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
SC 300÷550(T)	85×110×150	30	85×110×180	30



TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	6	12	18	24	30	33	36	39
								0	100	200	300	400	500	550	600	650
		HP	kW	kW		A		H (m)								
SC 300	**SC 300T**	3	2,2	2,8	2,8	12,7	5,2	25,4	25,6	25,3	23,5	20,5	16,2	13,5	10,0	
SC 400	**SC 400T**	4	3	3,8	3,8	17,0	6,9	30,3	30,8	30,7	29,1	26,1	22,0	19,5	16,7	13,6
-	**SC 550T**	5,5	4	-	5,0	-	9,1	37,4	37,8	37,9	36,8	34,3	30,2	28,2	25,5	20,7

SC



TYPE		DIMENSIONS (mm)														Kg	
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	1~	3~
SC 300	-	105	70	465	240	190	240	126	306			530	280	355	38	-
-	**SC 300T**	105	70	425	240	190	240	126	306			530	280	355	-	35
SC 400	-	105	70	480	240	190	240	126	306	3" G	2" G	530	280	355	45,5	-
-	**SC 400T**	105	70	465	240	190	240	126	306			530	280	355	-	38,5
-	**SC 550T**	105	70	480	240	190	240	126	306			530	280	355	-	45,5

SE

Threaded Centrifugal



Centrifugal pumps characterized by medium flow rate and stable head as the flow rate changes. Suitable for flood and sprinkler irrigation, water withdrawal from reservoirs or canals and industrial applications.

Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar

Motor

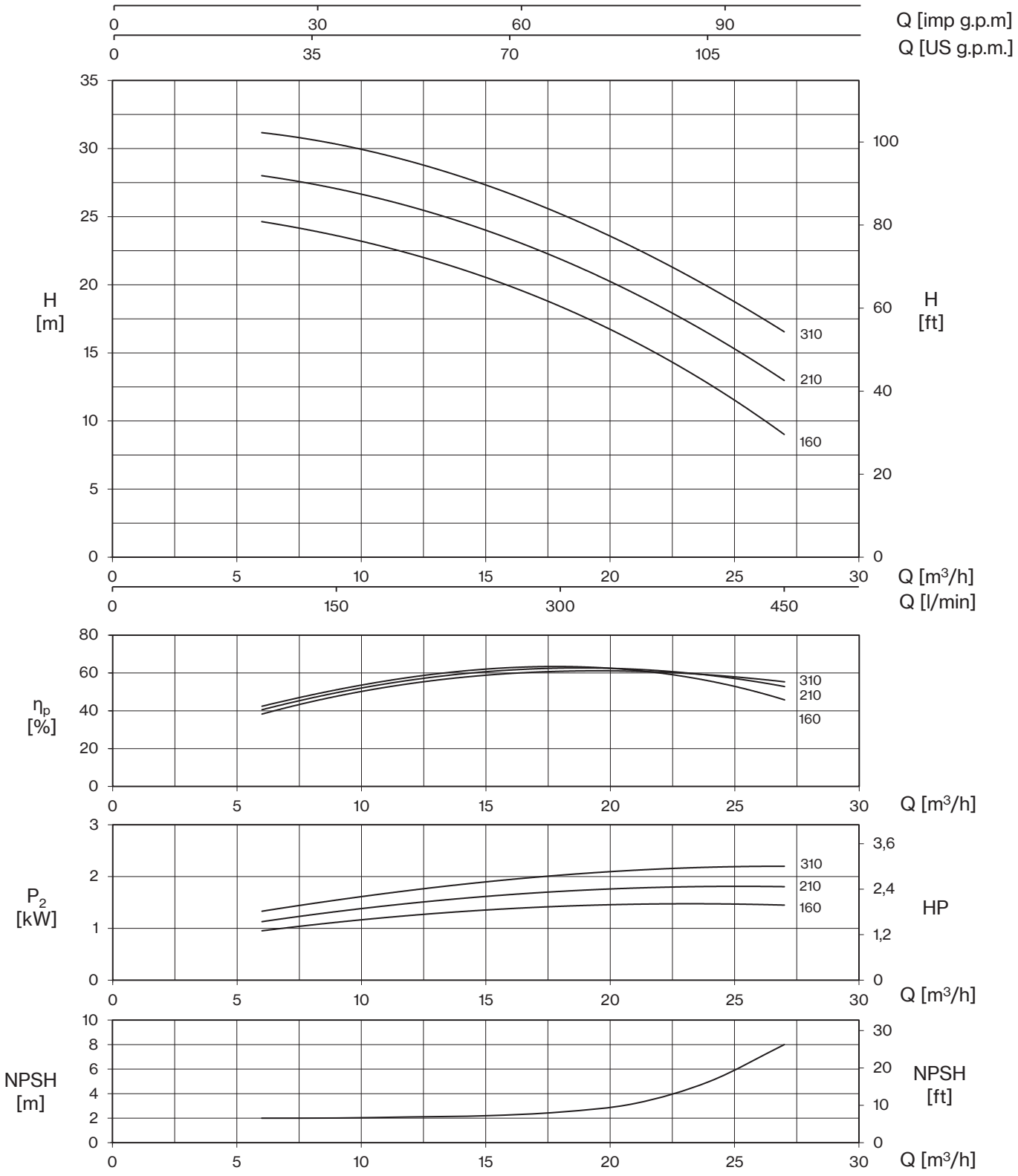
	3~ 230/400V - 50Hz
2 Poles induction motor	1~ 230V - 50Hz (with thermal protecion up to MEC 80)
Insulation class	F
Protection degree	IPX4

SE 160 T — motor: (blank) 1~, T 3~

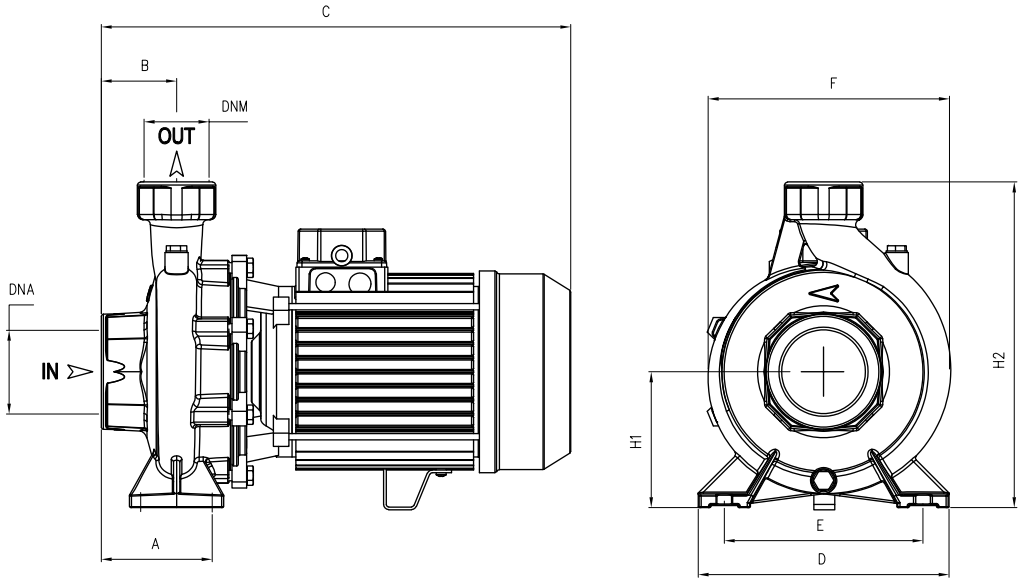
pump type

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
SE 160÷210(T)	85×110×170	40	85×110×200	48
SE 310	80×120×145	24	80×120×175	30
SE 310T	85×110×170	40	85×110×200	48

SE



TYPE - 50 Hz		P2		P1		CURRENT		Q (m3/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	6	9	12	15	18	21	24	27
								0	100	150	200	250	300	350	400	450
		HP	kW	kW		A										
SE 160	**SE 160T**	2	1,5	1,8	1,8	8,2	3,7	24,8	24,6	23,7	22,3	20,5	18,4	15,8	12,8	9,0
SE 210	**SE 210T**	2,5	1,85	2,3	2,1	10,4	4,3	28,3	28,0	27,1	25,7	23,9	21,9	19,3	16,4	13,0
SE 310	**SE 310T**	3	2,2	2,6	2,6	12,3	5,2	31,6	31,2	30,3	29,0	27,3	25,3	22,7	19,7	16,6



TYPE		DIMENSIONS (mm)													Kg	
1~	3~	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	1~	3~
SE 160	**SE 160T**	105	48	395	200	160	215	110	285	2" G	2" G	420	230	309	26,5	27,5
SE 210	**SE 210T**	105	48	395	200	160	215	110	285			420	230	309	26	26,5
SE 310	**-**	105	48	465	200	160	215	110	285			520	235	320	35,5	-
-	**SE 310T**	105	48	395	200	160	215	110	285			420	230	309	-	28

Foras®

WATER PUMPS





CENTRIFUGAL FLANGED

CENTRIFUGAL FLANGED PUMPS



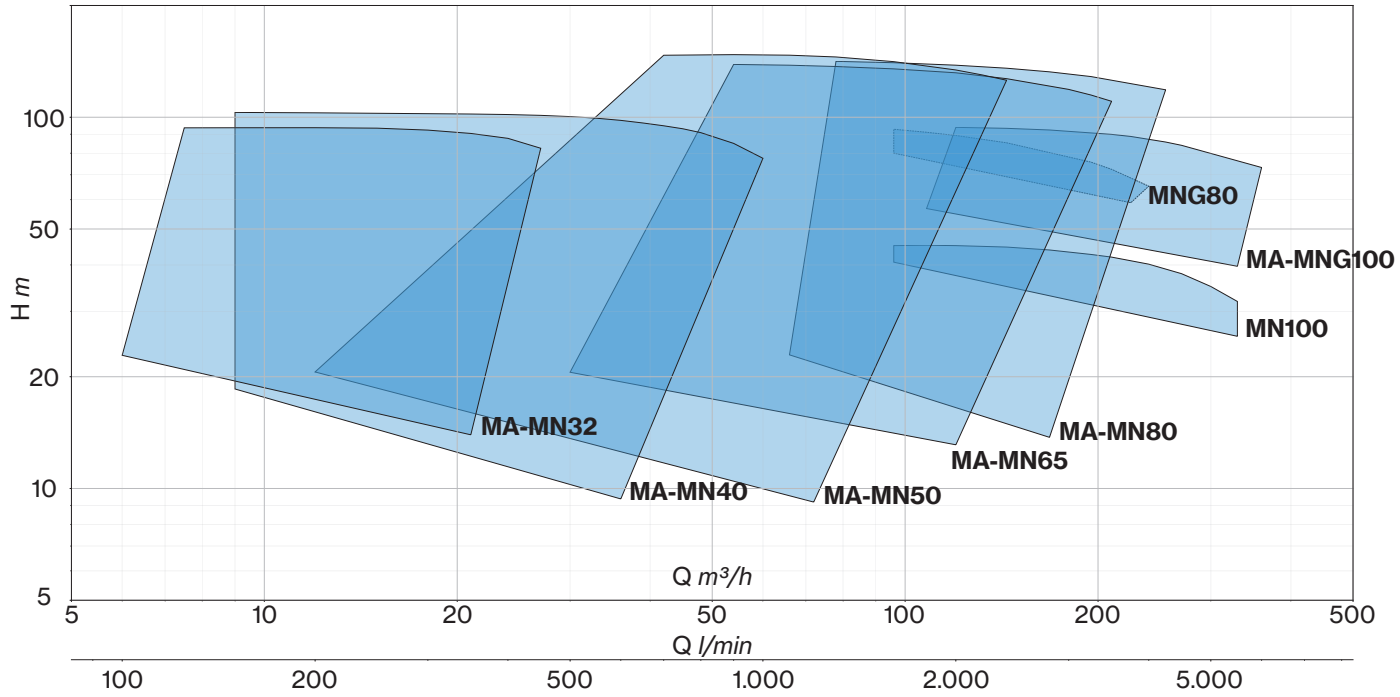
Wide range of centrifugal free axle and monobloc pumps, flanged with axial suction with hydraulic part entirely made of cast iron (MN, MNG, MA), in AISI 304 (KMS) and AISI 316 (MAX).

Applications:

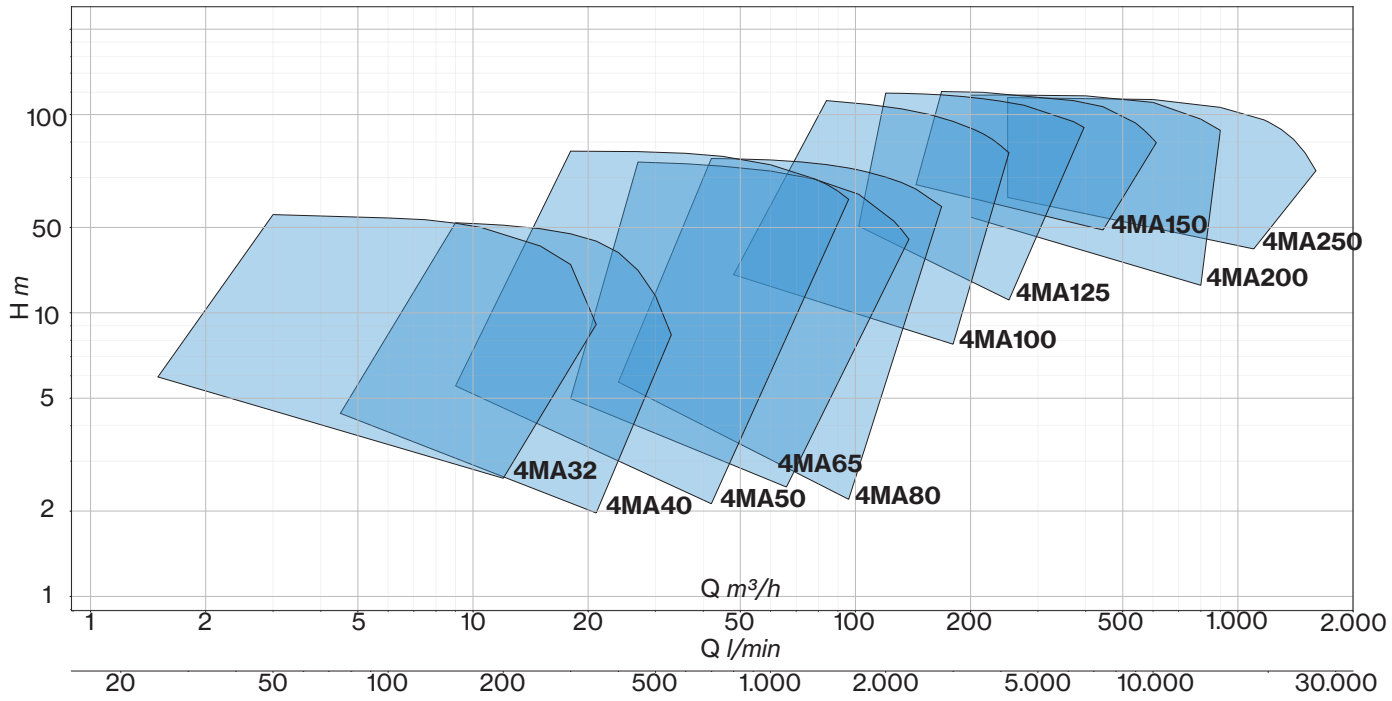
- Water supply
- Pressurization
- Circulation of water in heating and air conditioning systems
- Fluid transfer in industry and agriculture

MN-MNG-MA

2 poles



4 poles



MN-MNG-MA-4MA

Centrifugal Flanged EN 733

MN: Front suction close-coupled centrifugal pumps with close impeller mounted on IE3 motor shaft extension. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

MNG-MNGX: Front suction centrifugal pumps connected to IE3 standard motor (stub-shaft construction). Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

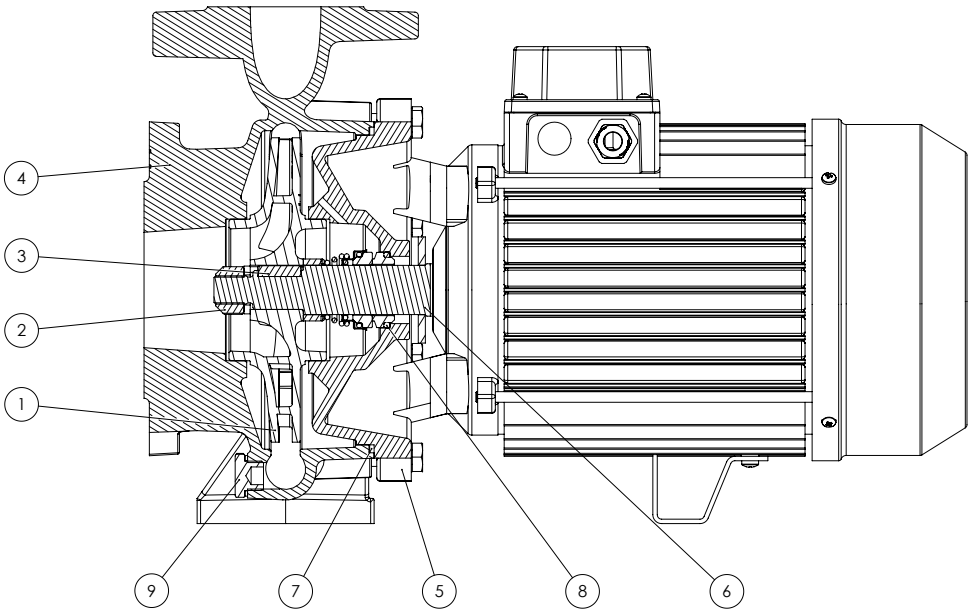
MA-MAX-4MA-4MAX: Single-stage end-suction centrifugal frame-mounted pumps. Dimensions in accordance with EN 733.

TYPE	2 POLES							4 POLES			
	MN	MNG	MNGX	MA	MAT MAX MATX	Flow rate m³/h	Head m	4MA 4MAT	4MAX 4MATX	Flow rate m³/h	Head m
32-160C	■	-	-	■	■	6 ÷ 21	22,8 ÷ 14	■	■	3 ÷ 12	5,6 ÷ 2,4
32-160B	■	-	-	■	■	6 ÷ 24	27,7 ÷ 17	■	■	3 ÷ 12	6,7 ÷ 3,8
32-160A	■	-	-	■	■	6 ÷ 27	36,2 ÷ 22,1	■	■	3 ÷ 13,5	9,0 ÷ 5,6
32-200C	■	-	-	■	■	6 ÷ 27	40,3 ÷ 28,7	■	■	3 ÷ 18	9,9 ÷ 2,6
32-200B1	■	-	-	-	-	6 ÷ 27	48 ÷ 37,9	-	-	-	-
32-200B	■	-	-	■	■	6 ÷ 30	48 ÷ 35,4	■	■	3 ÷ 19	12,0 ÷ 4,8
32-200A1	■	-	-	-	-	6 ÷ 30	58,3 ÷ 46,6	-	-	-	-
32-200A	■	-	-	■	■	6 ÷ 33	58,3 ÷ 44,3	■	■	3 ÷ 20	14,7 ÷ 5,8
32-250C	■	-	-	■	■	6 ÷ 27	72 ÷ 61,3	■	■	3 ÷ 19	17,5 ÷ 9,1
32-250B	■	-	-	■	■	7,5 ÷ 27	84 ÷ 73,2	■	■	3 ÷ 20	20,5 ÷ 11,8
32-250A1	■	-	-	-	-	7,5 ÷ 27	93,6 ÷ 85,3	-	-	-	-
32-250A	■	-	-	■	■	7,5 ÷ 27	93,6 ÷ 85,5	■	■	3 ÷ 21	23,1 ÷ 13,2
40-125C	■	-	-	■	■	9 ÷ 36	18,5 ÷ 9,4	■	■	3 ÷ 18	4,5 ÷ 2
40-125B	■	-	-	■	■	9 ÷ 39	23,4 ÷ 13,2	■	■	3 ÷ 21	5,6 ÷ 2,2
40-125A	■	-	-	■	■	9 ÷ 42	27,6 ÷ 16,8	■	■	3 ÷ 24	6,5 ÷ 2,3
40-160B	■	-	-	■	■	9 ÷ 36	29,2 ÷ 20,5	■	■	3 ÷ 24	7,1 ÷ 2,8
40-160A	■	-	-	■	■	9 ÷ 42	34,9 ÷ 23,4	■	■	3 ÷ 24	8,5 ÷ 4,6
40-160AP	■	-	-	■	■	9 ÷ 48	39,8 ÷ 25,3	■	■	3 ÷ 24	9,5 ÷ 5,6
40-200B1	■	-	-	-	-	9 ÷ 39	45,5 ÷ 32,3	-	-	-	-
40-200B	■	-	-	■	■	9 ÷ 42	45,5 ÷ 29,4	■	■	3 ÷ 24	11,0 ÷ 5,0
40-200A1	■	-	-	-	-	9 ÷ 39	56,5 ÷ 44,4	-	-	-	-
40-200A	■	-	-	■	■	9 ÷ 42	56,5 ÷ 41,6	■	■	3 ÷ 24	13,9 ÷ 8,5
40-200AP	■	-	-	■	■	9 ÷ 45	61,4 ÷ 42,2	■	■	3 ÷ 24	14,8 ÷ 8,8
40-250C	■	-	-	■	■	9 ÷ 36	64,4 ÷ 55,4	■	■	3 ÷ 27	15,9 ÷ 5,0
40-250B	■	-	-	■	■	9 ÷ 39	79,9 ÷ 62,1	■	■	3 ÷ 30	18,4 ÷ 5,2
40-250A1	■	-	-	-	-	9 ÷ 42	84,6 ÷ 72,8	-	-	-	-
40-250A	■	-	-	■	■	9 ÷ 45	84,6 ÷ 69	■	■	3 ÷ 33	20,8 ÷ 5,4
40-250BM	■	-	-	■	■	9 ÷ 54	93,2 ÷ 72	■	■	3 ÷ 33	22,7 ÷ 8,0
40-250AM	■	-	-	■	■	9 ÷ 60	103 ÷ 77,5	■	■	3 ÷ 33	24,5 ÷ 11,3
50-125B	■	-	-	■	■	12 ÷ 72	20,6 ÷ 9,2	■	■	9 ÷ 42	5,1 ÷ 1,6
50-125A	■	-	-	■	■	12 ÷ 72	24,3 ÷ 14,2	■	■	9 ÷ 45	6,1 ÷ 2,1
50-160B1	■	-	-	-	-	21 ÷ 66	33,5 ÷ 21,5	-	-	-	-
50-160B	■	-	-	■	■	21 ÷ 72	33,5 ÷ 18,9	■	■	9 ÷ 42	7,8 ÷ 2,6
50-160A1	■	-	-	-	-	21 ÷ 72	39,8 ÷ 27,6	-	-	-	-
50-160A	■	-	-	■	■	21 ÷ 78	39,8 ÷ 25,4	■	■	9 ÷ 48	9,5 ÷ 3,4
50-200C	■	-	-	■	■	24 ÷ 72	49,7 ÷ 28,9	■	■	9 ÷ 42	12,1 ÷ 3,7
50-200B	■	-	-	■	■	24 ÷ 72	54,6 ÷ 35	■	■	9 ÷ 45	13,3 ÷ 3,9
50-200A1	■	-	-	-	-	24 ÷ 78	61,8 ÷ 39,8	-	-	-	-

TYPE	2 POLES							4 POLES			
	MN	MNG	MNGX	MA	MAT MAX MATX	Flow rate m³/h	Head m	4MA 4MAT	4MAX 4MATX	Flow rate m³/h	Head m
50-200A	■	-	-	■	■	24 ÷ 78	61,8 ÷ 39,8	■	■	9 ÷ 45	14,9 ÷ 5,6
50-250C1	■	-	-	-	-	27 ÷ 60	68,2 ÷ 56,2	-	-	-	-
50-250C	■	-	-	■	■	27 ÷ 66	68,2 ÷ 52,1	■	■	12 ÷ 45	17,4 ÷ 8,0
50-250B	■	-	-	■	■	27 ÷ 72	78,4 ÷ 58,5	■	■	12 ÷ 48	19,6 ÷ 8,2
50-250A	■	-	-	■	■	27 ÷ 78	88,3 ÷ 61,8	■	■	12 ÷ 52	21,4 ÷ 8,2
50-315DN	-	-	-	■	-	42 ÷ 132	90,4 ÷ 73,4	-	-	-	-
50-315C	-	-	-	-	-	-	-	■	■	18 ÷ 84	24,7 ÷ 16,8
50-315CN	-	-	-	■	-	42 ÷ 132	105 ÷ 88,7	-	-	-	-
50-315B	-	-	-	-	-	-	-	■	■	18 - 90	31,4 - 21,6
50-315BN	-	-	-	■	-	42 ÷ 144	124,3 ÷ 103,5	-	-	-	-
50-315A	-	-	-	-	-	-	-	■	■	18 - 96	37,2 - 25,1
50-315AN	-	-	-	■	-	42 ÷ 144	146,9 ÷ 125,8	-	-	-	-
65-125B1	■	-	-	-	-	30 ÷ 108	20,6 ÷ 15	-	-	-	-
65-125B	■	-	-	■	■	30 ÷ 120	20,6 ÷ 13,1	■	■	18 ÷ 66	5 ÷ 2,4
65-125A1	■	-	-	-	-	30 ÷ 120	25,2 ÷ 18,8	-	-	-	-
65-125A	■	-	-	■	■	30 ÷ 132	25,2 ÷ 16,8	■	■	18 ÷ 72	6,4 ÷ 3,4
65-160C	■	-	-	■	■	42 ÷ 144	30,6 ÷ 13,9	■	■	24 ÷ 78	7,3 ÷ 2,7
65-160B	■	-	-	■	■	42 ÷ 144	35,1 ÷ 20,4	■	■	24 ÷ 78	8,5 ÷ 3,9
65-160A1	■	-	-	-	-	42 ÷ 138	42,5 ÷ 31,7	-	-	-	-
65-160A	■	-	-	■	■	42 ÷ 144	42,5 ÷ 30,9	■	■	24 ÷ 8	10,4 ÷ 5,7
65-200C1	■	-	-	-	-	54 ÷ 132	46,1 ÷ 28,9	-	-	-	-
65-200C	■	-	-	■	■	54 ÷ 138	46,1 ÷ 26,8	■	■	27 ÷ 78	11,2 ÷ 5
65-200B	■	-	-	■	■	54 ÷ 144	53,9 ÷ 34,6	■	■	27 ÷ 84	13 ÷ 5,9
65-200A	■	-	-	■	■	54 ÷ 144	61,8 ÷ 44,4	■	■	27 ÷ 90	14,9 ÷ 6,4
65-250B	■	-	-	■	■	54 ÷ 144	80,6 ÷ 47,3	■	■	27 ÷ 84	20 ÷ 7
65-250A	■	-	-	■	■	54 ÷ 150	91,6 ÷ 57,9	■	■	30 ÷ 90	22,3 ÷ 7,8
65-315CM	-	-	-	-	-	-	-	■	■	27 ÷ 126	23,5 ÷ 13,9
65-315CN	-	-	-	■	-	54 ÷ 180	96,5 ÷ 80,8	-	-	-	-
65-315BM	-	-	-	-	-	-	-	■	■	27 ÷ 132	28,9 ÷ 17,2
65-315BN	-	-	-	■	-	54 ÷ 195	117,9 ÷ 96,3	-	-	-	-
65-315AM	-	-	-	-	-	-	-	■	■	27 ÷ 138	34 ÷ 18,2
65-315AN	-	-	-	■	-	54 ÷ 210	138,8 ÷ 110,4	-	-	-	-
80-160E	■	-	-	■	■	66 ÷ 168	22,9 ÷ 13,7	■	■	24 ÷ 96	5,7 ÷ 2,2
80-160D	■	-	-	■	■	66 ÷ 180	27,3 ÷ 16,4	■	■	27 ÷ 102	6,8 ÷ 2,6
80-160C1	■	-	-	-	-	66 ÷ 195	30,9 ÷ 18,4	-	-	-	-
80-160C	■	-	-	■	■	66 ÷ 195	30,9 ÷ 18,4	■	■	30 ÷ 108	7,4 ÷ 3,1
80-160B	■	-	-	■	■	66 ÷ 210	35,9 ÷ 22	■	■	33 ÷ 120	8,9 ÷ 3,5
80-160A	■	-	-	■	■	66 ÷ 225	40,5 ÷ 23,9	■	■	36 ÷ 132	9,8 ÷ 3,8
80-200B	■	-	-	■	■	72 ÷ 225	54,5 ÷ 38,5	■	■	42 ÷ 132	13,1 ÷ 7,1
80-200A	■	-	-	■	■	72 ÷ 240	61,7 ÷ 43,9	■	■	42 ÷ 144	14,7 ÷ 7,5
80-250B	-	■	■	■	■	96 ÷ 225	80 ÷ 58,8	■	■	42 ÷ 132	19,2 ÷ 11,1
80-250A	-	■	■	■	■	96 ÷ 240	92,8 ÷ 65,2	■	■	42 ÷ 144	22,9 ÷ 12,6
80-315B	-	-	-	-	-	-	-	■	■	42 ÷ 150	28,3 ÷ 19,9
80-315BN	-	-	-	■	-	78 ÷ 255	112,4 ÷ 90,8	-	-	-	-
80-315A	-	-	-	-	-	-	-	■	■	42 ÷ 168	35 ÷ 23,7
80-315AN	-	-	-	■	-	78 ÷ 255	141,4 ÷ 118,5	-	-	-	-
100-160B	■	-	-	-	-	96 ÷ 330	40,7 ÷ 25,7	-	-	-	-
100-160A	■	-	-	-	-	96 ÷ 330	45,1 ÷ 31,9	-	-	-	-
100-200D	-	-	-	■	■	108 ÷ 300	43,1 ÷ 26,6	■	■	48 ÷ 168	10,8 ÷ 4,8
100-200C	-	-	-	■	■	108 ÷ 330	48,4 ÷ 28,1	■	■	48 ÷ 168	12 ÷ 6,3
100-200B	-	■	■	■	■	108 ÷ 330	56,8 ÷ 39,7	■	■	48 ÷ 180	13,6 ÷ 7,8
100-200A	-	■	■	■	■	108 ÷ 360	62,2 ÷ 42,5	■	■	48 ÷ 192	15,4 ÷ 9,1
100-250E	-	-	-	-	-	-	-	■	■	60 ÷ 180	16,9 ÷ 11,4
100-250D	-	-	-	-	-	-	-	■	■	60 ÷ 192	19,6 ÷ 12,7

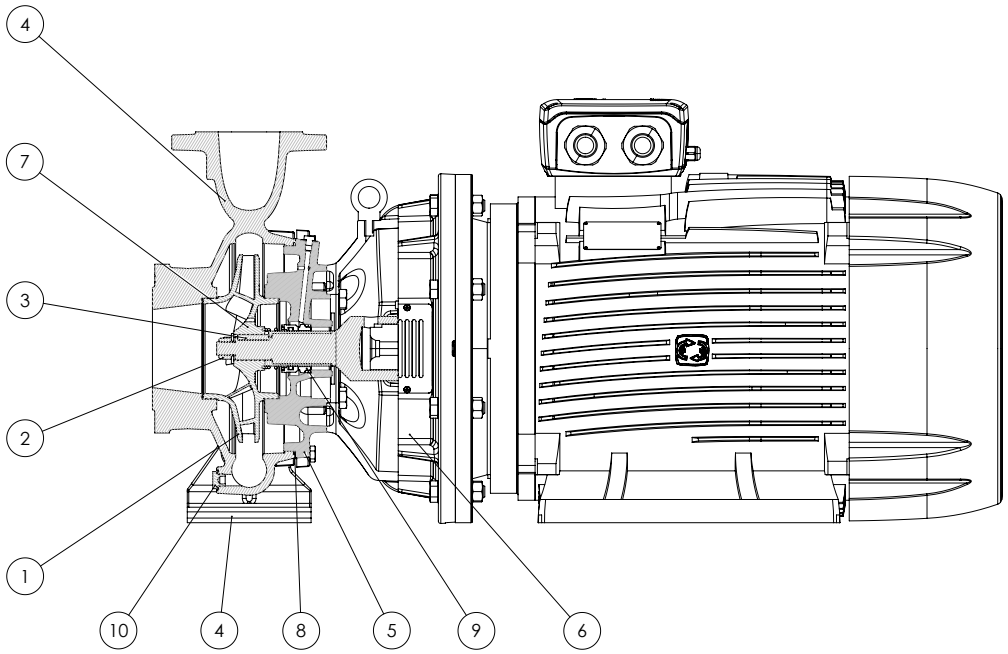
TYPE	2 POLES							4 POLES			
	MN	MNG	MNGX	MA	MAT MAX MATX	Flow rate	Head	4MA 4MAT	4MAX 4MATX	Flow rate	Head
						m³/h	m			m³/h	m
100-250C	-	■	■	■	■	120 ÷ 300	73,2 ÷ 61	-	-	-	-
100-250B	-	■	■	■	■	120 ÷ 330	83,7 ÷ 67,6	-	-	-	-
100-250A	-	■	■	■	■	120 ÷ 360	93,9 ÷ 73,2	■	■	60 ÷ 204	22,3 ÷ 13,8
100-315B	-	-	-	-	-	-	-	■	■	72 ÷ 216	31,4 ÷ 17,9
100-315A	-	-	-	-	-	-	-	■	■	72 ÷ 216	36,5 ÷ 23,1
100-400C	-	-	-	-	-	-	-	■	■	84 ÷ 228	40,6 ÷ 25,8
100-400B	-	-	-	-	-	-	-	■	■	84 ÷ 240	48,7 ÷ 31,6
100-400A	-	-	-	-	-	-	-	■	■	84 ÷ 252	56 ÷ 36,7
125-250B	-	-	-	-	-	-	-	■	■	102 ÷ 252	20,2 ÷ 11,1
125-250A	-	-	-	-	-	-	-	■	■	102 ÷ 276	24 ÷ 14,7
125-315C	-	-	-	-	-	-	-	■	■	120 ÷ 348	25,8 ÷ 15,7
125-315B	-	-	-	-	-	-	-	■	■	120 ÷ 372	33 ÷ 22,2
125-315A	-	-	-	-	-	-	-	■	■	120 ÷ 372	39,6 ÷ 28,2
125-400C	-	-	-	-	-	-	-	■	■	120 ÷ 372	47,6 ÷ 33,8
125-400B	-	-	-	-	-	-	-	■	■	120 ÷ 396	54,5 ÷ 39,1
125-400A	-	-	-	-	-	-	-	■	■	120 ÷ 396	59,5 ÷ 45
150-315D	-	-	-	-	-	-	-	■	■	144 ÷ 444	28,3 ÷ 19,6
150-315C	-	-	-	-	-	-	-	■	■	144 ÷ 492	32,2 ÷ 21,8
150-315B	-	-	-	-	-	-	-	■	■	144 ÷ 540	36,3 ÷ 23,6
150-315A	-	-	-	-	-	-	-	■	■	144 ÷ 564	41 ÷ 27,2
150-400C	-	-	-	-	-	-	-	■	■	168 ÷ 564	47,8 ÷ 28,7
150-400B	-	-	-	-	-	-	-	■	■	168 ÷ 588	54,4 ÷ 34,3
150-400A	-	-	-	-	-	-	-	■	■	168 ÷ 612	60,3 ÷ 39,8
Not envisaged in the EN 733 standard											
200-315D	-	-	-	-	-	-	-	■	■	200 ÷ 800	21,7 ÷ 12,5
200-315C	-	-	-	-	-	-	-	■	■	200 ÷ 850	26,6 ÷ 14,6
200-315B	-	-	-	-	-	-	-	■	■	200 ÷ 900	33,4 ÷ 16,7
200-315A	-	-	-	-	-	-	-	■	■	200 ÷ 900	35,9 ÷ 19,8
200-400C	-	-	-	-	-	-	-	■	■	200 ÷ 800	44,1 ÷ 31,5
200-400B	-	-	-	-	-	-	-	■	■	200 ÷ 850	50,8 ÷ 36,6
200-400A	-	-	-	-	-	-	-	■	■	200 ÷ 900	58,5 ÷ 44
250-315C	-	-	-	-	-	-	-	■	■	250 ÷ 1100	25,5 ÷ 16,8
250-315B	-	-	-	-	-	-	-	■	■	250 ÷ 1170	33 ÷ 19
250-315A	-	-	-	-	-	-	-	■	■	250 ÷ 1200	35 ÷ 20
250-400D	-	-	-	-	-	-	-	■	■	250 ÷ 1300	39,9 ÷ 24,3
250-400C	-	-	-	-	-	-	-	■	■	250 ÷ 1400	45,8 ÷ 27,4
250-400B	-	-	-	-	-	-	-	■	■	250 ÷ 1500	51,7 ÷ 30,3
250-400A	-	-	-	-	-	-	-	■	■	250 ÷ 1600	57,4 ÷ 31,7

MN Series
Models list and materials



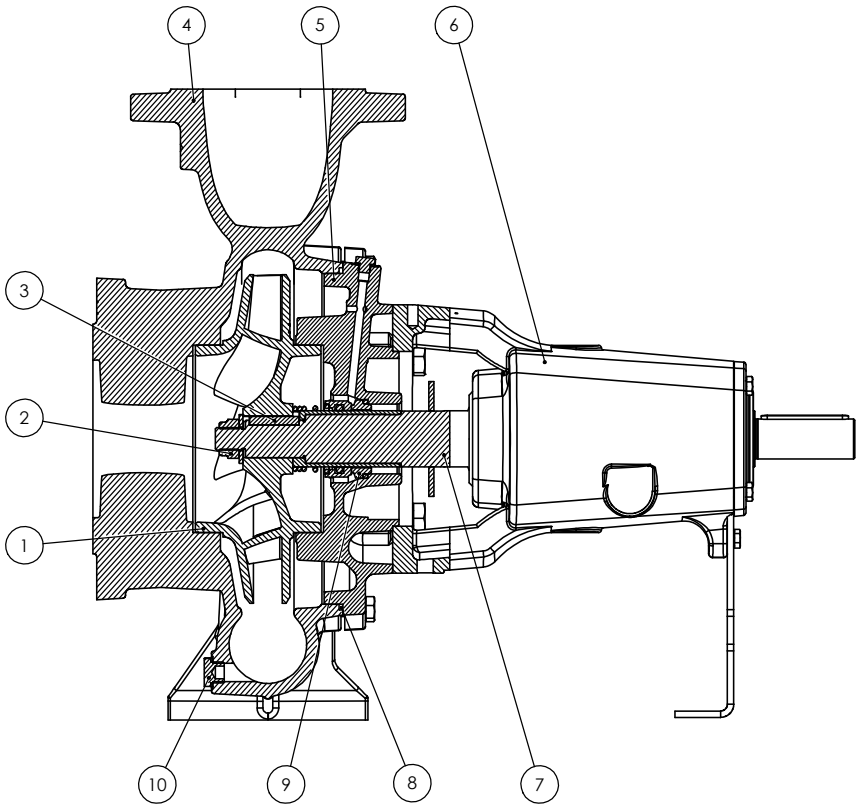
POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	**Impeller**	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		B	Bronze	CuSn10-C (CC480K)	UNS C90700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
2	**Impeller lock nut and washer**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	**Impeller key**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	**Volute casing**	Up to 80-200	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		From 80-250	Cast iron G25	GJL-250 (JL1040)	ASTM Class 35
5	**Motor bracket**		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
6	**Shaft extension**		Stainless steel	X5CrNi18-10/ 1.4301	AISI 304
7	**O-ring**	Standard	NBR		
		E	EPDM		
		V	FKM		
8	**Mechanical seal**		(Search for the material in the mechanical seal table)		
9	**Fill and drain plugs**		Brass	CU ZN 40 PB2 UNI 5705/65	C37700

MNG Series
Models list and materials



POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	**Impeller**	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		B	Bronze	CuSn10-C (CC480K)	UNS C90700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
2	**Impeller lock nut and washer**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	**Impeller key**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	**Volute casing**	Standard	Cast iron G25	GJL-250 (JL1040)	ASTM Class 35
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
5	**Casing cover**	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
6	**Motor bracket**		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
7	**Stub shaft**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
8	**O-ring**	Standard	NBR		
		E	EPDM		
		V	FKM		
9	**Mechanical seal**		(Search for the material in the mechanical seal table)		
10	**Fill and drain plugs**	Fill and drain plugs	Brass	CU ZN 40 PB2 UNI 5705/65	C37700

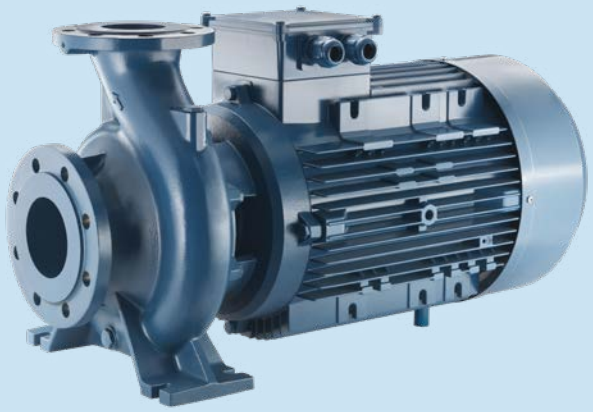
MA-4MA Series
Models list and materials



POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	**Impeller**	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		B	Bronze	CuSn10-C (CC480K)	UNS C90700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
2	**Impeller lock nut and washer**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	**Impeller key**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	**Volute casing**	Up to 80-200	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		From 80-250	Cast iron G25	GJL-250 (JL1040)	ASTM Class 35
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
5	**Casing cover**	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
6	**Bracket**		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
7	**Pump shaft wet end**		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
8	**O-ring**	Standard	NBR		
		E	EPDM		
		V	FKM		
9	**Mechanical seal**		(Search for the material in the mechanical seal table)		
10	**Fill and drain plugs**	Standard	Brass	CU ZN 40 PB2 UNI 5705/65	C37700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316

MN ~ 2900 rpm

Centrifugal Flanged EN 733



Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications.

Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impeller	cast iron, bronze or stainless steel AISI 316
Seal type	mechanical
Pump shaft wet end	stainless steel AISI 304
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar

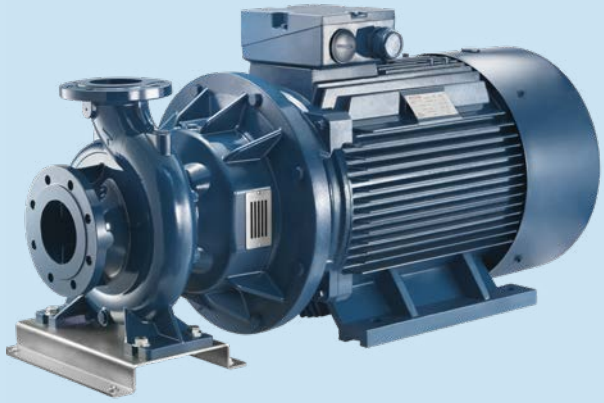
Motor	
2 Poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW 1~ 230V-50Hz
Insulation class	F
Protection degree	IPX5

MN 50-160A -X -2E -WF

- pump type
- impeller: (blank) cast iron; **B** bronze; **X** AISI 316
- mech. seal and O-rings: (blank) standard; **E** EPDM; **V** FKM; **2E** SiC-SiC-EPDM; **2V** SiC-SiC-FKM
- counter flange: (blank) with; **WF** without

MNG-MNGX ~ 2900 rpm

Centrifugal Flanged EN 733



Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems; standard supply with counter-flange.

Construction features	
Pump body	cast iron (MNG) stainless steel AISI 316 (MNGX)
Motor bracket	cast iron
Impeller	cast iron, bronze, stainless steel AISI 316 (MNG), stainless steel AISI 316 (MNGX)
Seal type	mechanical
Pump shaft wet end	stainless steel AISI 316
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar

Motor	
2 Poles induction motor	3~ 400/690V - 50Hz
Insulation class	F
Protection degree	IPX5

MNGX 80-250 A -X -2E -WF

- pump type
- pump body material: (blank) cast iron; X AISI 316
- impeller material: (blank) as same as the pump body; B bronze; X AISI 316
- mech. seal and O-rings: (blank) standard; E EPDM; V FKM; 2E SiC-SiC-EPDM; 2V SiC-SiC-FKM
- counter flange: (blank) with; WF without

MA-MAX

~ 2900 rpm

4MA-4MAX

~ 1450 rpm

Bare shaft centrifugal pumps constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems.



MA-4MA



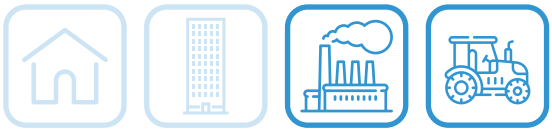
MAX-4MAX

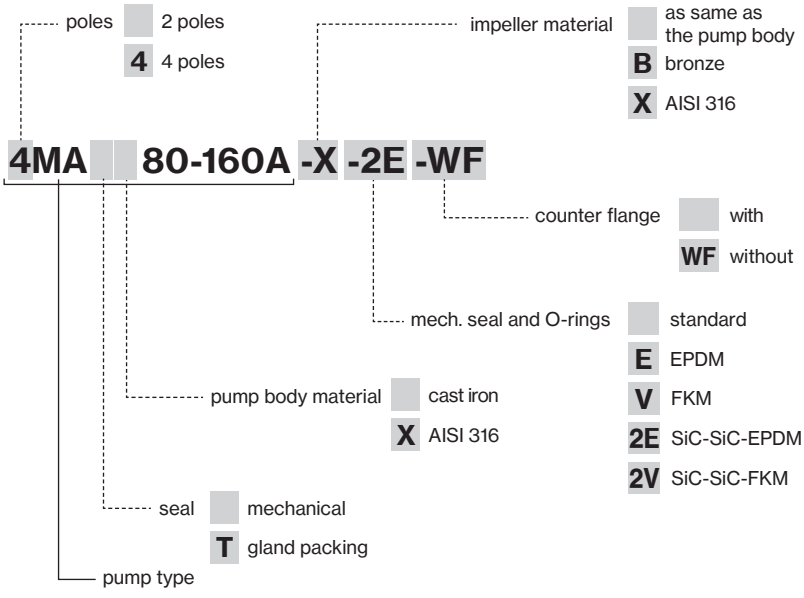
Construction features

Pump body	cast iron (MA) stainless steel AISI 316 (MAX)
Motor bracket	cast iron
Impeller	cast iron, bronze, stainless steel AISI 316 (MA) stainless steel AISI 316 (MAX)
Seal type	mechanical (MA-MAX) or gland packing graphite impreganated (MAT-MATX)
Pump shaft wet end	stainless steel AISI 316
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar max 14 bar (... -315 ~ 2900 rpm)

Motor

Available with IE3-IE4 efficiency class motor



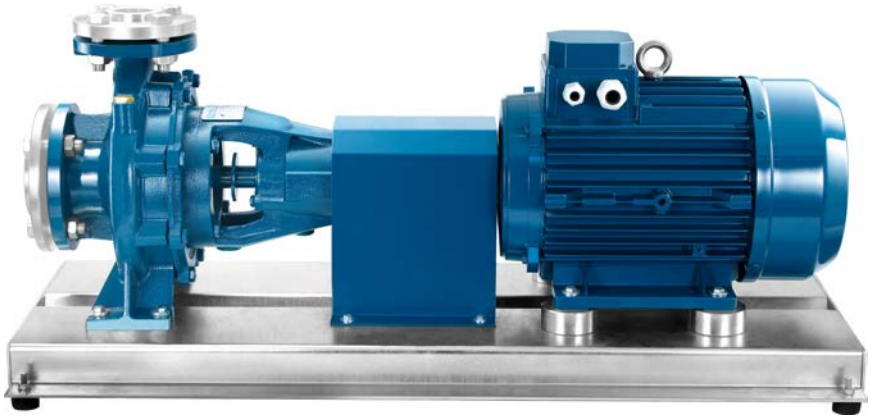


MA-MAX
~ 3500 rpm

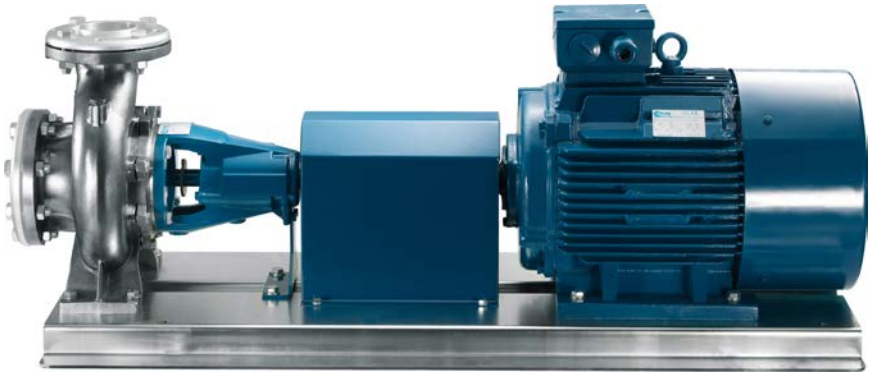
4MA-4MAX
~ 1750 rpm

Construction versions

The pumps can be fitted next to a motor on a common baseplate, with the pump shaft and the motor shaft connected by a flexible coupling.



MA-4MA with motor
counterflanges supplied separately



MAX-4MAX with motor
counterflanges supplied separately

Shaft seals versions

The pumps can be provided on request with gland packing instead of mechanical seal.



MA-MAX-4MA-4MAX
mechanical seal



MAT-MATX-4MAT-4MATX
gland packing seal

TYPE - 50 Hz	P2		P1		CURRENT		Q (m3/h - l/min)											
			1~	3~	1~ 230V	3~ 400V	0	6	7,5	9	12	15	18	21	24	27	30	33
							0	100	125	150	200	250	300	350	400	450	500	550
	HP	kW	kW		A		H (m)											
32-160C	2	1,5	2,0	1,9	9,3	3,6	23,0	22,8	22,5	22,0	21,0	19,2	16,9	14,0				
32-160B	3	2,2	2,7	2,6	12,4	4,9	28,0	27,7	27,4	27,0	26,2	24,9	22,9	20,1	17,0			
32-160A	4	3	-	3,8	-	6,8	36,1	36,2	36,0	35,6	34,6	33,2	31,4	28,9	25,7	22,1		
32-200C	5,5	4	5,2	4,9	22,9	8,9	40,2	40,3	40,1	39,8	38,9	37,7	36,1	34,2	31,6	28,7		
32-200B1	7,5	5,5	-	6,4	-	11,3	48,3	48,0	47,9	47,6	46,7	45,5	44,2	42,6	40,5	37,9		
32-200B	7,5	5,5	-	6,7	-	11,1	48,3	48,0	47,9	47,6	46,7	45,5	44,2	42,6	40,5	37,9	35,4	
32-200A1	10	7,5	-	8,2	-	14,5	57,9	58,3	58,4	58,4	58,0	57,1	55,6	53,8	51,4	49,2	46,6	
32-200A	10	7,5	-	8,6	-	14,1	57,9	58,3	58,4	58,4	58,0	57,1	55,6	53,8	51,4	49,2	46,6	44,3
32-250C	12,5	9,2	-	10,0	-	16,8	74,6		72,8	72,5	71,9	70,5	68,8	66,6	64,1	61,3		
32-250B	15	11	-	12,2	-	20,0	84,8		84,0	83,9	83,6	82,7	81,1	78,6	75,4	73,2		
32-250A1	20	15	-	13,5	-	23,2	93,5		93,6	93,7	93,7	93,4	92,3	90,4	87,7	85,3		
32-250A	20	15	-	13,5	-	23,2	93,5		93,6	93,7	93,7	93,4	92,3	90,4	87,7	85,3		

TYPE - 50 Hz	P2		P1		CURRENT		Q (m³/h - l/min)															
			1~	3~	1~ 230V	3~ 400V	0	9	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60
							0	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000
	HP	kW	kW		A		H (m)																
40-125C	2	1,5	2,0	1,9	9,3	3,6	17,9	18,5	18,4	18,1	17,5	16,6	15,6	14,3	12,8	11,1	9,4						
40-125B	3	2,2	2,7	2,6	12,4	4,9	22,6	23,4	23,3	23,1	22,7	22,0	21,0	19,9	18,6	17,0	15,1	13,2					
40-125A	4	3	-	3,6	-	6,5	26,8	27,6	27,7	27,6	27,2	26,5	25,7	24,6	23,4	22,0	20,3	18,5	16,8				
40-160B	4	3	3,8	3,8	16,7	6,8	28,2	29,2	29,2	28,9	28,3	27,5	26,5	25,3	23,8	22,3	20,5						
40-160A	5,5	4	5,0	4,9	22,5	8,8	33,8	34,9	34,8	34,5	33,9	33,2	32,4	31,3	30,0	28,5	26,9	25,2	23,4				
40-160AP	7,5	5,5	-	6,1	-	11,0	38,6	39,8	39,9	39,8	39,4	38,7	37,9	37,0	35,8	34,4	32,9	31,1	29,3	27,4	25,3		
40-200B1	7,5	5,5	-	6,8	-	12,0	44,7	45,5	45,4	45,0	44,5	43,5	42,3	41,0	39,3	37,2	34,9	32,3					
40-200B	7,5	5,5	-	6,9	-	11,4	44,6	45,5	45,4	45,0	44,5	43,5	42,3	41,0	39,3	37,2	34,9	32,3	29,4				
40-200A1	10	7,5	-	9,0	-	15,5	56,2	56,5	56,5	56,3	55,9	55,1	54,1	52,8	51,2	49,3	47,0	44,4					
40-200A	10	7,5	-	9,3	-	15,1	56,2	56,5	56,5	56,3	55,9	55,1	54,1	52,8	51,2	49,3	47,0	44,4	41,6				
40-200AP	12,5	9,2	-	10,2	-	16,8	61,7	61,4	61,2	60,8	60,0	59,1	57,9	56,4	54,7	53,1	51,1	48,5	45,5	42,2			
40-250C	12,5	9,2	-	11,1	-	18,0	64,8	64,4	64,2	63,8	63,4	62,7	61,9	61,0	59,8	57,9	55,4						
40-250B	15	11	-	13,8	-	22,3	73,7	73,9	74,5	73,2	71,9	71,1	70,2	69,2	68,1	66,7	64,7	62,1					
40-250A1	20	15	-	16,5	-	27,2	82,6	84,6	84,8	84,7	84,3	83,4	82,4	81,3	80,0	78,5	76,9	75,4	72,8				
40-250A	20	15	-	17,5	-	29,1	82,6	84,6	84,8	84,7	84,3	83,4	82,4	81,3	80,0	78,5	76,9	75,4	72,8	69,0			
40-250BM *max 14 bar*	25	18,5	-	20,6	-	34,1	92,6	93,2	93,3	93,2	93,1	92,8	92,4	91,7	90,9	89,8	88,3	86,5	84,6	82,3	79,5	72,0	
40-250AM *max 14 bar*	30	22	-	24,4	-	40,3	101,7	103,0	102,8	102,3	102,2	102,0	101,7	101,2	100,4	99,4	98,1	96,5	94,8	93,1	90,9	85,0	77,5

TYPE - 50 Hz	P2		P1		CURRENT		Q (m³/h - l/min)																		
			1~	3~	1~ 230V	3~ 400V	0	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
							0	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
	HP	kW	kW		A		H (m)																		
50-125B	4	3	3,6	3,8	16,1	6,8	20,0	20,6	20,6	20,4	20,3	20,1	19,9	19,6	19,2	18,7	18,2	17,6	17,0	16,4	15,0	13,2	11,3	9,2	
50-125A	5,5	4	5,0	4,8	22,5	8,8	23,7	24,3	24,3	24,2	24,1	23,9	23,7	23,3	23,0	22,6	22,1	21,7	21,2	20,7	19,6	18,2	16,4	14,2	
50-160B1	7,5	5,5	-	6,5	-	11,4	32,1				33,5	33,4	33,1	32,7	32,2	31,6	31,0	30,2	29,1	28,3	26,2	23,9	21,5		
50-160B	7,5	5,5	-	6,5	-	10,9	32,1				33,5	33,4	33,1	32,7	32,2	31,6	31,0	30,2	29,1	28,3	26,2	23,9	21,5	18,9	
50-160A1	10	7,5	-	8,6	-	15,1	38,1				39,8	39,8	39,7	39,5	39,2	38,8	38,3	37,7	36,7	36,0	34,2	32,2	29,7	27,4	
50-160A	10	7,5	-	8,8	-	14,4	38,1				39,8	39,8	39,7	39,5	39,2	38,8	38,3	37,7	36,7	36,0	34,2	32,2	29,7	27,4	25,4
50-200C	12,5	9,2	-	10,4	-	17,2	48,2					49,7	49,2	48,5	47,7	46,9	45,9	44,9	43,7	42,6	40,0	36,0	32,3	28,9	
50-200B	15	11	-	11,9	-	19,5	53,1					54,6	54,1	53,5	52,9	52,2	51,4	50,4	49,3	48,1	45,5	42,7	38,8	35,0	
50-200A1	20	15	-	14,6	-	24,7	59,9					61,8	61,5	61,0	60,4	59,7	58,8	58,0	57,1	56,0	53,6	50,8	47,8	44,4	39,8
50-200A	20	15	-	14,6	-	24,7	59,9					61,8	61,5	61,0	60,4	59,7	58,8	58,0	57,1	56,0	53,6	50,8	47,8	44,4	39,8
50-250C1	20	15	-	16,1	-	26,6	69,2						68,2	67,7	67,0	66,3	65,6	64,7	63,8	62,8	59,9	56,2			
50-250C	20	15	-	17,2	-	28,6	69,2						68,2	67,7	67,0	66,3	65,6	64,7	63,8	62,8	59,9	56,2	52,1		
50-250B	25	18,5	-	20,7	-	34,3	78,8						78,4	78,0	77,6	77,0	76,1	75,1	74,0	72,9	70,3	66,9	62,9	58,5	
50-250A	30	22	-	24,8	-	40,9	88,5						88,3	88,1	87,7	87,2	86,6	85,8	84,8	83,8	81,4	78,5	75,0	70,2	64,8

TYPE - 50 Hz	P2		P1	CUR.	Q (m³/h - l/min)																				
				3~ 400V	0	30	33	36	39	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	150
					0	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500
	HP	kW	kW	A	H (m)																				
65-125B1	7,5	5,5	6,4	11,3	19,7	20,6	20,5	20,4	20,4	20,3	20,2	20,2	20,0	19,7	19,3	18,8	18,2	17,5	16,3	15,0					
65-125B	7,5	5,5	6,6	11,0	19,7	20,6	20,5	20,4	20,4	20,3	20,2	20,2	20,0	19,7	19,3	18,8	18,2	17,5	16,3	15,0	13,1				
65-125A1	10	7,5	8,6	15,1	24,6	25,2	25,2	25,1	25,1	25,0	24,8	24,9	24,7	24,5	24,2	23,9	23,5	23,0	22,0	20,6	18,8				
65-125A	10	7,5	8,8	14,4	24,6	25,2	25,2	25,1	25,1	25,0	24,9	24,9	24,7	24,5	24,2	23,9	23,5	23,0	22,0	20,6	18,8	16,8			
65-160C	12,5	9,2	10,1	16,8	28,9					30,6	30,5	30,3	30,0	29,6	29,1	28,5	27,9	27,2	25,3	22,9	20,2	17,5	16,0	13,9	
65-160B	15	11	12,7	20,6	33,2					35,1	35,0	34,9	34,6	34,3	33,8	33,3	32,8	32,1	30,4	28,2	25,5	22,5	21,4	20,4	
65-160A1	20	15	16,8	27,6	40,1					42,5	42,5	42,5	42,3	42,1	41,8	41,4	41,0	40,4	38,9	37,1	35,3	32,8	31,7		
65-160A	20	15	17,1	28,5	40,1					42,5	42,5	42,5	42,3	42,1	41,8	41,4	41,0	40,4	38,9	37,1	35,3	32,8	31,7	30,9	
65-200C1	20	15	16,8	27,6	44,4								46,1	45,4	44,7	44,0	43,2	42,4	40,3	37,5	33,7	28,9			
65-200C	20	15	17,0	28,3	44,4								46,1	45,4	44,7	44,0	43,2	42,4	40,3	37,5	33,7	28,9	26,8		
65-200B	25	18,5	21,2	34,8	51,7								53,9	53,4	52,7	52,0	51,3	50,4	48,6	45,9	43,0	39,4	37,1	34,6	
65-200A	30	22	25,4	41,7	60,3								61,8	61,4	61,0	60,4	59,8	59,1	57,1	54,6	51,6	48,3	46,5	44,4	
65-250B	40	30	30,8	55,3	80,6								80,6	79,5	78,4	77,1	75,7	74,1	70,4	66,1	61,0	54,7	51,0	47,3	
65-250A	50	37	37,0	69,2	91,6								91,6	90,8	89,8	88,6	87,4	85,9	82,5	77,8	72,8	67,4	64,3	60,8	57,9

TYPE - 50 Hz	P2		P1	CUR.	Q (m³/h - l/min)																		
				3~ 400V	0	66	72	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240
					0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000
	HP	kW	kW	A	H (m)																	
80-160E	12,5	9,2	9,8	16,3	21,5	22,9	22,5	22,1	21,6	20,8	19,9	18,9	17,7	17,2	16,6	15,3	13,7					
80-160D	15	11	12,2	20,0	25,4	27,3	27,0	26,6	26,3	25,4	24,5	23,5	22,4	21,8	21,2	19,9	18,3	16,4				
80-160C1	20	15	14,5	24,5	29,0	30,9	30,7	30,4	30,1	29,4	28,5	27,4	26,3	25,8	25,3	24,1	22,5	20,7	18,4			
80-160C	20	15	14,5	24,5	29,0	30,9	30,7	30,4	30,1	29,4	28,5	27,4	26,3	25,8	25,3	24,1	22,5	20,7	18,4			
80-160B	25	18,5	18,1	30,3	33,6	35,9	35,7	35,4	35,2	34,5	33,7	32,9	32,0	31,6	31,1	30,0	28,6	27,0	24,5	22,0		
80-160A	30	22	22	37	38	40,5	40,4	40,2	40,1	39,6	39,1	38,4	37,5	37,1	36,6	35,4	34,1	32,6	30,4	28,3	23,9	
80-200B	40	30	32,0	57,2	50,4				54,5	53,9	53,2	52,3	51,3	50,7	50,2	48,9	47,4	45,8	43,4	40,9	38,5	
80-200A	50	37	38,6	71,6	57,3				61,7	61,3	60,6	59,4	58,2	57,8	57,5	56,8	55,4	53,7	51,5	49,1	46,6	43,9

TYPE - 50 Hz	P2		P1	CUR.	Q (m³/h - l/min)																
				3~ 400V	0	96	108	120	132	138	144	156	168	180	195	210	225	240	270	300	330
					0	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4500	5000	5500
	HP	kW	kW	A	H (m)																
100-160B	40	30	31,9	57,1	41,7	40,7	40,8	40,7	40,4	40,3	40,1	39,6	39,1	38,5	37,8	37,0	36,1	35,0	32,3	29,2	25,7
100-160A	50	37	37,5	70,2	46,0	45,1	45,2	45,1	44,9	44,8	44,7	44,3	43,9	43,3	42,7	42,0	41,1	40,2	37,9	35,0	31,9

MNG-MNGX ~ 2900 rpm

Centrifugal Flanged EN 733

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	96	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360
			0	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000
	kW		H (m) *pump input power (kW)*																		
80-250B	45	225M	77,2 *14,01*	80,0 *30,93*	79,0 *32,60*	77,5 *34,34*	75,3 *36,13*	74,2 *37,02*	73,1 *37,86*	71,0 *39,38*	69,0 *40,78*	67,0 *42,10*	64,5 *43,60*	61,8 *44,94*	58,8 *46,15*						
80-250A	55	250M	90,0 *16,74*	92,8 *36,56*	91,1 *38,57*	89,3 *40,54*	87,4 *42,46*	86,4 *43,39*	85,4 *44,31*	83,1 *46,12*	80,7 *47,81*	78,5 *49,29*	75,7 *50,92*	72,4 *52,59*	68,8 *54,18*	65,2 *55,50*					
100-200B	45	225M	56,1 *21,75*		56,8 *28,84*	56,5 *29,78*	56,1 *30,74*	55,9 *31,24*	55,6 *31,75*	55,1 *32,81*	54,5 *33,89*	53,9 *35,04*	53,1 *36,50*	52,2 *37,82*	51,4 *38,89*	50,4 *39,85*	49,0 *40,77*	47,5 *41,60*	43,8 *42,92*	39,7 *43,82*	
100-200A	55	250M	61,1 *24,57*		62,2 *33,04*	61,8 *34,07*	61,5 *35,11*	61,2 *35,64*	61,0 *36,18*	60,5 *37,28*	59,9 *38,39*	59,5 *39,49*	58,9 *40,86*	58,3 *42,23*	57,4 *43,60*	56,4 *44,97*	55,2 *46,20*	53,8 *47,28*	50,6 *49,05*	46,8 *50,53*	42,5 *51,62*
100-250C	55	250M	71,9			73,2	73,1	73,0	72,9	72,6	72,2	71,8	71,1	70,3	69,3	67,9	66,4	64,7	61,0		
	75	280S	*24,75*			*40,12*	*41,93*	*42,84*	*43,70*	*45,28*	*46,77*	*48,21*	*49,94*	*51,65*	*53,38*	*55,05*	*56,66*	*58,19*	*60,99*		
100-250B	75	280S	83,6 *29,69*			83,7 *47,10*	83,5 *49,06*	83,4 *50,04*	83,2 *51,01*	82,9 *52,92*	82,5 *54,76*	82,1 *56,47*	81,4 *58,46*	80,8 *60,26*	80,0 *61,86*	79,0 *63,49*	77,9 *65,17*	76,4 *66,93*	72,0 *70,91*	67,6 *73,78*	
100-250A	90	280M	93,5 *32,71*			93,9 *51,99*	93,7 *54,14*	93,5 *55,23*	93,4 *56,31*	92,9 *58,48*	92,4 *60,60*	91,8 *62,57*	90,9 *64,88*	89,9 *66,97*	88,8 *68,84*	87,4 *70,81*	85,7 *72,81*	84,0 *74,73*	80,4 *78,17*	75,8 *81,33*	70,8 *84,50*

MA-MAX

Centrifugal Flanged
EN 733

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)											
			0	6	7,5	9	12	15	18	21	24	27	30	33
			0	100	125	150	200	250	300	350	400	450	500	550
	kW		H (m) *pump input power (kW)*											
32-160C	1,5	90S	23,0 *0,57*	22,8 *0,93*	22,5 *1,02*	22,0 *1,10*	21,0 *1,26*	19,2 *1,40*	16,9 *1,52*	14,0 *1,61*				
32-160B	2,2	90L	28,0 *0,83*	27,7 *1,24*	27,4 *1,35*	27,0 *1,45*	26,2 *1,65*	24,9 *1,83*	22,9 *1,99*	20,1 *2,13*	17,0 *2,25*			
32-160A	3	100L	36,1 *1,29*	36,2 *1,80*	36,0 *1,94*	35,6 *2,07*	34,6 *2,32*	33,2 *2,55*	31,4 *2,76*	28,9 *2,94*	25,7 *3,11*	22,1 *3,25*		
	4	112M												
32-200C	4	112M	40,2 *1,61*	40,3 *2,27*	40,1 *2,45*	39,8 *2,63*	38,9 *2,96*	37,7 *3,27*	36,1 *3,56*	34,2 *3,82*	31,6 *4,08*	28,7 *4,31*		
	5,5	132S												
32-200B	5,5	132S	48,3 *2,35*	48,0 *3,16*	47,9 *3,37*	47,6 *3,57*	46,7 *3,97*	45,5 *4,35*	44,2 *4,71*	42,6 *5,05*	40,5 *5,36*	37,9 *5,66*	35,4 *5,93*	
	7,5	132S												
32-200A	7,5	132S	57,9 *3,06*	58,3 *4,03*	58,4 *4,28*	58,4 *4,53*	58,0 *5,02*	57,1 *5,50*	55,6 *5,92*	53,8 *6,34*	51,4 *6,72*	49,2 *7,08*	46,6 *7,42*	44,3 *7,72*
32-250C	11	160M	74,6 *4,25*		72,8 *5,69*	72,5 *6,00*	71,9 *6,59*	70,5 *7,17*	68,8 *7,69*	66,6 *8,17*	64,1 *8,67*	61,3 *9,08*		
32-250B	11	160M	84,8 *5,16*		84,0 *6,93*	83,9 *7,29*	83,6 *7,99*	82,7 *8,66*	81,1 *9,28*	78,6 *9,87*	75,4 *10,44*	73,2 *11,05*		
32-250A	15	160M	93,5 *5,71*		93,6 *7,59*	93,7 *7,99*	93,7 *8,82*	93,4 *9,59*	92,3 *10,35*	90,4 *11,07*	87,7 *11,72*	85,3 *12,34*		

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																
			0	9	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60
			0	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000
	kW		H (m) *pump input power (kW)*																
40-125C	1,5	90S	17,9 *0,56*	18,5 *0,96*	18,4 *1,09*	18,1 *1,21*	17,5 *1,31*	16,6 *1,41*	15,6 *1,48*	14,3 *1,53*	12,8 *1,57*	11,1 *1,59*	9,4 *1,60*						
	2,2	90L																	
40-125B	2,2	90L	22,6 *0,82*	23,4 *1,30*	23,3 *1,48*	23,1 *1,63*	22,7 *1,76*	22,0 *1,89*	21,0 *2,00*	19,9 *2,09*	18,6 *2,16*	17,0 *2,22*	15,1 *2,27*	13,2 *2,30*					
	3	100L																	
40-125A	3	100L	26,8 *1,10*	27,6 *1,64*	27,7 *1,83*	27,6 *2,03*	27,2 *2,20*	26,5 *2,37*	25,7 *2,52*	24,6 *2,65*	23,4 *2,76*	22,0 *2,86*	20,3 *2,95*	18,5 *3,02*	16,8 *3,08*				
40-160B	3	100L	28,2 *1,26*	29,2 *1,92*	29,2 *2,13*	28,9 *2,33*	28,3 *2,51*	27,5 *2,67*	26,5 *2,82*	25,3 *2,96*	23,8 *3,08*	22,3 *3,17*	20,5 *3,25*						
	4	112M																	
40-160A	4	112M	33,8 *1,62*	34,9 *2,33*	34,8 *2,58*	34,5 *2,81*	33,9 *3,04*	33,2 *3,25*	32,4 *3,44*	31,3 *3,62*	30,0 *3,78*	28,5 *3,93*	26,9 *4,06*	25,2 *4,16*	23,4 *4,25*				
	5,5	132S																	
40-160AP	5,5	132S	38,6 *1,90*	39,8 *2,76*	39,9 *3,06*	39,8 *3,33*	39,4 *3,60*	38,7 *3,85*	37,9 *4,08*	37,0 *4,29*	35,8 *4,49*	34,4 *4,67*	32,9 *4,84*	31,1 *5,00*	29,3 *5,14*	27,4 *5,27*	25,3 *5,39*		
40-200B	5,5	132S	44,6 *2,32*	45,5 *3,25*	45,4 *3,62*	45,0 *3,96*	44,5 *4,27*	43,5 *4,57*	42,3 *4,85*	41,0 *5,11*	39,3 *5,35*	37,2 *5,57*	34,9 *5,76*	32,3 *5,94*	29,4 *6,13*				
	7,5	132S																	
40-200A	7,5	132S	56,2 *3,48*	56,5 *4,63*	56,5 *5,08*	56,3 *5,51*	55,9 *5,91*	55,1 *6,31*	54,1 *6,68*	52,8 *7,01*	51,2 *7,32*	49,3 *7,63*	47,0 *7,90*	44,4 *8,14*	41,6 *8,37*				
	11	160M																	
40-200AP	7,5	132S	61,7 *3,50*	61,4 *4,81*	61,2 *5,30*	60,8 *5,74*	60,0 *6,16*	59,1 *6,56*	57,9 *6,95*	56,4 *7,31*	54,7 *7,65*	53,1 *7,96*	51,1 *8,25*	48,5 *8,51*	45,5 *8,73*	42,2 *8,93*			
	11	160M																	
40-250C	11	160M	64,8 *4,23*	64,4 *5,50*	64,2 *6,02*	63,8 *6,56*	63,4 *7,11*	62,7 *7,65*	61,9 *8,14*	61,0 *8,63*	59,8 *9,12*	57,9 *9,57*	55,4 *10,01*						
40-250B	11	160M	73,7 *5,33*	73,9 *6,74*	74,5 *7,38*	73,2 *7,96*	71,9 *8,53*	71,1 *9,10*	70,2 *9,69*	69,2 *10,28*	68,1 *10,87*	66,7 *11,43*	64,7 *11,91*	62,1 *12,39*					
	15	160M																	
40-250A	15	160M	82,6 *6,57*	84,6 *8,36*	84,8 *9,03*	84,7 *9,74*	84,3 *10,45*	83,4 *11,11*	82,4 *11,76*	81,3 *12,44*	80,0 *13,08*	78,5 *13,66*	76,9 *14,23*	75,4 *14,80*	72,8 *15,37*	69,0 *15,93*			
	18,5	160L																	
40-250BM max 14 bar	18,5	160L	92,6 *7,41*	93,2 *9,12*	93,3 *9,78*	93,2 *10,48*	93,1 *11,18*	92,8 *11,91*	92,4 *12,65*	91,7 *13,38*	90,9 *14,06*	89,8 *14,73*	88,3 *15,38*	86,5 *16,00*	84,6 *16,60*	82,3 *17,18*	79,5 *17,74*	72,0 *18,83*	
40-250AM max 14 bar	22	180M	101,7 *8,80*	103,0 *10,63*	102,8 *11,26*	102,3 *11,93*	102,2 *12,69*	102,0 *13,46*	101,7 *14,21*	101,2 *14,97*	100,4 *15,74*	99,4 *16,50*	98,1 *17,22*	96,5 *17,92*	94,8 *18,61*	93,1 *19,29*	90,9 *19,96*	85,0 *21,28*	77,5 *22,45*

MA-MAX ~ *EN 733*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
			0	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
	kW		H (m) *pump input power (kW)*																		
50-125B	3	100L	20,0 *1,15*	20,6 *1,65*	20,6 *1,79*	20,4 *1,93*	20,3 *2,07*	20,1 *2,19*	19,9 *2,28*	19,6 *2,37*	19,2 *2,49*	18,7 *2,63*	18,2 *2,75*	17,6 *2,84*	17,0 *2,92*	16,4 *3,00*	15,0 *3,13*	13,2 *3,21*	11,3 *3,28*	9,2 *3,31*	
50-125A	4	112M	23,7 *1,50*	24,3 *2,02*	24,3 *2,19*	24,2 *2,35*	24,1 *2,51*	23,9 *2,66*	23,7 *2,81*	23,3 *2,94*	23,0 *3,07*	22,6 *3,21*	22,1 *3,34*	21,7 *3,47*	21,2 *3,59*	20,7 *3,69*	19,6 *3,88*	18,2 *4,03*	16,4 *4,15*	14,2 *4,23*	
50-160B	5,5	132S	32,1 *1,92*				33,5 *3,60*	33,4 *3,84*	33,1 *4,06*	32,7 *4,28*	32,2 *4,48*	31,6 *4,67*	31,0 *4,84*	30,2 *4,99*	29,1 *5,12*	28,3 *5,24*	26,2 *5,45*	23,9 *5,60*	21,5 *5,70*	18,9 *5,75*	
50-160A	7,5	132S	38,1 *2,49*				39,8 *4,44*	39,8 *4,74*	39,7 *5,03*	39,5 *5,30*	39,2 *5,56*	38,8 *5,79*	38,3 *6,00*	37,7 *6,21*	36,9 *6,21*	36,0 *6,60*	34,2 *6,93*	32,2 *7,20*	29,7 *7,45*	27,4 *7,66*	25,4 *7,95*
50-200C	11	160M	48,2 *3,13*					49,7 *6,11*	49,2 *6,44*	48,5 *6,75*	47,7 *7,06*	46,9 *7,35*	45,9 *7,62*	44,9 *7,88*	43,7 *8,11*	42,6 *8,31*	40,0 *8,67*	36,0 *9,02*	32,3 *9,26*	28,9 *9,43*	
50-200B	11	160M	53,1 *3,44*					54,6 *6,75*	54,1 *7,14*	53,5 *7,52*	52,9 *7,86*	52,2 *8,17*	51,4 *8,47*	50,4 *8,78*	49,3 *9,09*	48,1 *9,34*	45,5 *9,76*	42,7 *10,15*	38,8 *10,47*	35,0 *10,73*	
50-200A	15	160M	59,9 *4,38*					61,8 *7,92*	61,5 *8,36*	61,0 *8,78*	60,4 *9,20*	59,7 *9,62*	58,8 *10,02*	58,0 *10,38*	57,1 *10,73*	56,0 *11,05*	53,6 *11,65*	50,8 *12,17*	47,8 *12,62*	44,4 *13,01*	39,8 *13,35*
50-250C	15	160M	69,2 *5,27*						68,2 *10,08*	67,7 *10,60*	67,0 *11,11*	66,3 *11,60*	65,6 *12,07*	64,7 *12,52*	63,8 *12,94*	62,8 *13,33*	59,9 *14,14*	56,2 *14,94*	52,1 *15,59*		
50-250B	18,5	160L	78,8 *6,33*						78,4 *11,72*	78,0 *12,33*	77,6 *12,92*	77,0 *13,49*	76,1 *14,03*	75,1 *14,55*	74,0 *15,06*	72,9 *15,53*	70,3 *16,44*	66,9 *17,34*	62,9 *18,18*	58,5 *18,96*	
50-250A	22	180M	88,5 *7,43*						88,3 *13,20*	88,1 *13,87*	87,7 *14,55*	87,2 *15,22*	86,6 *15,88*	85,8 *16,51*	84,8 *17,13*	83,8 *17,74*	81,4 *18,90*	78,5 *19,99*	75,0 *21,00*	70,2 *21,94*	64,8 *22,82*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																
			0	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	
			0	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	
	kW		H (m) *pump input power (kW)*																
50-315DN No EN 733; no CAT, CAX, CATX	37	200L	87,8 *11,19*	90,4 *20,11*	90,3 *20,81*	90,2 *21,52*	89,9 *22,91*	89,2 *24,19*	88,2 *25,41*	87,1 *26,58*	86,0 *27,71*	84,8 *28,81*	82,4 *30,91*	79,9 *32,92*	76,9 *34,81*	73,4 *36,56*			
50-315CN No EN 733; no CAT, CAX, CATX	45	225M	101,8 *13,32*	105,0 *23,97*	104,9 *24,79*	104,8 *25,63*	104,3 *27,25*	103,7 *28,77*	102,7 *30,21*	101,5 *31,55*	100,3 *32,85*	99,1 *34,15*	96,7 *36,68*	94,1 *39,06*	91,3 *41,26*	88,7 *43,26*			
50-315BN No EN 733; no CAT, CAX, CATX	55	250M	122,3 *17,44*	124,3 *29,30*	124,4 *30,29*	124,5 *31,30*	124,7 *33,28*	124,4 *35,10*	123,6 *36,80*	122,5 *38,35*	121,3 *39,85*	119,9 *41,39*	116,6 *44,41*	113,3 *47,32*	110,1 *50,01*	107,1 *52,39*	105,4 *53,60*	103,5 *54,83*	
50-315AN No EN 733; no CAT, CAX, CATX	75	280S	146,1 *22,75*	146,9 *35,89*	147,1 *37,03*	147,3 *38,21*	147,4 *40,53*	147,3 *42,66*	146,9 *44,71*	146,3 *46,72*	145,3 *48,67*	144,1 *50,59*	141,2 *54,26*	137,9 *57,67*	134,1 *60,84*	130,0 *63,78*	127,9 *65,11*	125,8 *66,34*	

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																				
			0	30	33	36	39	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	150
			0	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500
	kW		H (m) *pump input power (kW)*																				
65-125B	5,5	132S	19,7 *2,07*	20,6 *3,36*	20,5 *3,49*	20,4 *3,62*	20,4 *3,75*	20,3 *3,87*	20,2 *3,99*	20,2 *4,11*	20,0 *4,34*	19,7 *4,54*	19,3 *4,71*	18,8 *4,87*	18,2 *5,03*	17,5 *5,17*	16,3 *5,45*	15,0 *5,67*	13,1 *5,84*				
65-125A	7,5	132S	24,6 *2,95*	25,2 *4,37*	25,2 *4,52*	25,1 *4,68*	25,1 *4,83*	25,0 *4,98*	24,9 *5,13*	24,9 *5,29*	24,7 *5,60*	24,5 *5,89*	24,2 *6,16*	23,9 *6,41*	23,5 *6,65*	23,0 *6,86*	22,0 *7,25*	20,6 *7,55*	18,8 *7,77*	16,8 *7,93*			
65-160C	11	160M	28,9 *2,67*					30,6 *5,52*	30,5 *5,71*	30,3 *5,90*	30,0 *6,26*	29,6 *6,60*	29,1 *6,93*	28,5 *7,23*	27,9 *7,51*	27,2 *7,77*	25,3 *8,26*	22,9 *8,64*	20,2 *8,92*	17,5 *9,11*	16,0 *9,17*	13,9 *9,19*	
65-160B	11	160M	33,2 *3,37*					35,1 *6,51*	35,0 *6,74*	34,9 *6,95*	34,6 *7,37*	34,3 *7,77*	33,8 *8,17*	33,3 *8,56*	32,8 *8,91*	32,1 *9,24*	30,4 *9,85*	28,2 *10,38*	25,5 *10,82*	22,5 *11,17*	21,4 *11,34*	20,4 *11,49*	
65-160A	15	160M	40,1 *4,54*					42,5 *8,31*	42,5 *8,59*	42,5 *8,86*	42,3 *9,37*	42,1 *9,86*	41,8 *10,35*	41,4 *10,85*	41,0 *11,32*	40,4 *11,77*	38,9 *12,65*	37,1 *13,46*	35,3 *14,14*	32,8 *14,79*	31,7 *15,14*	30,9 *15,52*	
65-200C	15	160M	44,4 *4,38*								46,1 *10,30*	45,4 *10,87*	44,7 *11,44*	44,0 *12,00*	43,2 *12,52*	42,4 *12,98*	40,3 *13,76*	37,5 *14,36*	33,7 *14,89*	28,9 *15,27*	26,8 *15,43*		
65-200B	18,5	160L	51,7 *5,71*								53,9 *12,58*	53,4 *13,25*	52,7 *13,89*	52,0 *14,51*	51,3 *15,12*	50,4 *15,66*	48,6 *16,56*	45,9 *17,56*	43,0 *18,37*	39,4 *18,96*	37,1 *19,20*	34,6 *19,42*	
65-200A	22	180M	60,3 *7,25*								61,8 *14,56*	61,4 *15,38*	61,0 *16,18*	60,4 *16,93*	59,8 *17,64*	59,1 *18,33*	57,1 *19,66*	54,6 *20,84*	51,6 *21,83*	48,3 *22,73*	46,5 *23,10*	44,4 *23,41*	
65-250B	30	200L	80,6 *9,16*								80,6 *19,79*	79,5 *20,77*	78,4 *21,74*	77,1 *22,72*	75,7 *23,63*	74,1 *24,37*	70,4 *25,59*	66,1 *26,73*	61,0 *27,55*	54,7 *28,09*	51,0 *28,27*	47,3 *28,38*	
65-250A	37	200L	91,6 *11,32*								91,6 *23,01*	90,8 *24,18*	89,8 *25,33*	88,6 *26,47*	87,4 *27,58*	85,9 *28,55*	82,5 *30,14*	77,8 *31,64*	72,8 *32,77*	67,4 *33,54*	64,3 *33,85*	60,8 *34,09*	57,9 *34,25*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	54	60	66	72	78	84	96	108	120	132	138	144	150	156	168	180	195	210
			0	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500
	kW		H (m) *pump input power (kW)*																		
65-315CN No CAT, CAX, CATX	55	250M	93,9 *15,58*	96,5 *26,64*	96,4 *27,96*	96,3 *29,26*	96,0 *30,48*	95,6 *31,67*	95,1 *32,88*	93,8 *35,28*	92,3 *37,55*	90,7 *39,76*	89,1 *41,99*	88,3 *43,09*	87,5 *44,18*	86,5 *45,24*	85,5 *46,28*	83,2 *48,31*	80,8 *50,27*		
65-315BN No CAT, CAX, CATX	75	280S	116,5 *21,16*	117,9 *34,28*	117,8 *35,82*	117,7 *37,35*	117,4 *38,80*	117,0 *40,26*	116,4 *41,84*	114,9 *45,05*	113,3 *47,88*	111,4 *50,51*	109,4 *53,05*	108,3 *54,27*	107,2 *55,48*	106,0 *56,64*	104,9 *57,76*	102,5 *59,94*	99,9 *62,26*	96,3 *65,43*	
65-315AN No CAT, CAX, CATX	90	280M	138,2 *26,69*	138,8 *43,17*	138,5 *45,02*	138,1 *46,88*	137,6 *48,78*	137,0 *50,67*	136,4 *52,51*	135,0 *56,09*	133,5 *59,51*	131,7 *62,82*	129,5 *66,08*	128,3 *67,67*	127,0 *69,20*	125,8 *70,68*	124,5 *72,10*	121,8 *74,81*	118,8 *77,32*	114,8 *80,16*	110,4 *83,11*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	66	72	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240	
			0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	
	kW		H (m) *pump input power (kW)*																		
80-160E	11	160M	21,5 *3,48*	22,9 *6,43*	22,5 *6,65*	22,1 *6,86*	21,6 *7,07*	20,8 *7,45*	19,9 *7,76*	18,9 *8,05*	17,7 *8,38*	17,2 *8,52*	16,6 *8,65*	15,3 *8,84*	13,7 *8,88*						
80-160D	11	160M	25,4 *4,16*	27,3 *7,74*	27,0 *8,01*	26,6 *8,27*	26,3 *8,53*	25,4 *9,03*	24,5 *9,46*	23,5 *9,79*	22,4 *10,14*	21,8 *10,32*	21,2 *10,49*	19,9 *10,76*	18,3 *10,95*	16,4 *11,07*					
80-160C	15	160M	29,0 *4,74*	30,9 *8,66*	30,7 *8,98*	30,4 *9,29*	30,1 *9,59*	29,4 *10,22*	28,5 *10,85*	27,4 *11,38*	26,3 *11,85*	25,8 *12,06*	25,3 *12,25*	24,1 *12,59*	22,5 *12,85*	20,7 *13,05*	18,4 *13,21*				
80-160B	18,5	160L	33,6 *6,28*	35,9 *10,61*	35,7 *10,94*	35,4 *11,25*	35,2 *11,57*	34,5 *12,25*	33,7 *12,99*	32,9 *13,69*	32,0 *14,33*	31,6 *14,62*	31,1 *14,90*	30,0 *15,38*	28,6 *15,75*	27,0 *16,04*	24,5 *16,35*	22,0 *16,57*			
80-160A	22,5	180M	38,0 *6,82*	40,5 *12,04*	40,4 *12,50*	40,2 *12,96*	40,1 *13,42*	39,6 *14,34*	39,1 *15,23*	38,4 *16,05*	37,5 *16,81*	37,1 *17,19*	36,6 *17,57*	35,4 *18,29*	34,1 *18,86*	32,6 *19,34*	30,4 *19,84*	28,3 *20,38*	23,9 *20,28*		
80-200B	30	200L	50,4 *8,89*				54,5 *18,00*	53,9 *19,22*	53,2 *20,56*	52,3 *22,05*	51,3 *23,32*	50,7 *23,79*	50,2 *24,21*	48,9 *25,06*	47,4 *26,03*	45,8 *26,97*	43,4 *27,97*	40,9 *28,81*	38,5 *29,48*		
80-200A	37	200L	57,3 *10,32*				61,7 *21,15*	61,3 *22,80*	60,6 *24,43*	59,4 *26,13*	58,2 *27,62*	57,8 *28,17*	57,5 *28,57*	56,8 *29,28*	55,4 *30,39*	53,7 *31,67*	51,5 *32,98*	49,1 *34,05*	46,6 *34,94*	43,9 *35,68*	
80-250B	45	225M	77,2 *14,01*					80,0 *30,93*	79,0 *32,60*	77,5 *34,34*	75,3 *36,13*	74,2 *37,02*	73,1 *37,86*	71,0 *39,38*	69,0 *40,78*	67,0 *42,10*	64,5 *43,60*	61,8 *44,94*	58,8 *46,15*		
80-250A	55	250M	90,0 *16,74*					92,8 *36,56*	91,1 *38,57*	89,3 *40,54*	87,4 *42,46*	86,4 *43,39*	85,4 *44,31*	83,1 *46,12*	80,7 *47,81*	78,5 *49,29*	75,7 *50,92*	72,4 *52,59*	68,8 *54,18*	65,2 *55,50*	

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																	
			0	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240	255	
			0	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	
	kW		H (m) *pump input power (kW)*																	
80-315BN No CAT, CAX, CATX	90	280M	108,0 *21,85*	112,4 *42,35*	112,4 *44,06*	112,2 *47,49*	111,7 *50,86*	111,1 *54,13*	110,2 *57,25*	109,7 *58,76*	109,1 *60,24*	107,9 *63,14*	106,4 *65,95*	104,9 *68,72*	102,7 *72,14*	100,4 *75,60*	98,3 *78,97*	95,7 *82,15*	90,8 *85,17*	
80-315AN No CAT, CAX, CATX	110	315S	140,5 *31,92*	141,4 *55,48*	141,1 *57,36*	140,2 *61,13*	139,2 *64,91*	138,1 *68,78*	136,9 *72,88*	136,2 *74,96*	135,5 *76,96*	134,1 *80,84*	132,5 *84,36*	131,0 *87,02*	128,7 *90,23*	125,8 *94,76*	122,5 *99,35*	121,7 *103,04*	118,5 *106,15*	

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360	
			0	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000	
	kW		H (m) *pump input power (kW)*																		
100-200D	30	200L	44,1 *17,69*	43,3 *21,82*	42,9 *22,56*	42,3 *23,28*	42,0 *23,62*	41,6 *23,94*	40,8 *24,53*	39,9 *25,08*	39,0 *25,65*	37,9 *26,39*	36,8 *27,08*	35,4 *27,68*	33,8 *28,21*	32,3 *28,71*	30,6 *29,16*	26,3 *29,70*			
100-200C	37	200L	48,5 *19,89*	48,4 *24,72*	48,0 *25,53*	47,6 *26,31*	47,3 *26,70*	47,0 *27,09*	46,3 *27,87*	45,4 *28,66*	44,6 *29,43*	43,6 *30,38*	42,5 *31,30*	41,2 *32,12*	39,5 *32,85*	37,8 *33,51*	36,2 *34,11*	32,7 *35,06*	28,1 *35,64*		
100-200B	45	225M	56,1 *21,75*	56,8 *28,84*	56,5 *29,78*	56,1 *30,74*	55,9 *31,24*	55,6 *31,75*	55,1 *32,81*	54,5 *33,89*	53,9 *35,04*	53,1 *36,50*	52,2 *37,82*	51,4 *38,89*	50,4 *39,85*	49,0 *40,77*	47,5 *41,60*	43,8 *42,92*	39,7 *43,82*		
100-200A	55	250M	61,1 *24,57*	62,2 *33,04*	61,8 *34,07*	61,5 *35,11*	61,2 *35,64*	61,0 *36,18*	60,5 *37,28*	59,9 *38,39*	59,5 *39,49*	58,9 *40,86*	58,3 *42,23*	57,4 *43,60*	56,4 *44,97*	55,2 *46,20*	53,8 *47,28*	50,6 *49,05*	46,8 *50,53*	42,5 *51,62*	
100-250C	55	250M	71,9		73,2	73,1	73,0	72,9	72,6	72,2	71,8	71,1	70,3	69,3	67,9	66,4	64,7	61,0			
	75	280S	*24,75*		*40,12*	*41,93*	*42,84*	*43,70*	*45,28*	*46,77*	*48,21*	*49,94*	*51,65*	*53,38*	*55,05*	*56,66*	*58,19*	*60,99*			
100-250B	75	280S	83,6 *29,69*		83,7 *47,10*	83,5 *49,06*	83,4 *50,04*	83,2 *51,01*	82,9 *52,92*	82,5 *54,76*	82,1 *56,47*	81,4 *58,46*	80,8 *60,26*	80,0 *61,86*	79,0 *63,49*	77,9 *65,17*	76,4 *66,93*	72,0 *70,91*	67,6 *73,78*		
100-250A	90	280M	93,5 *32,71*		93,9 *51,99*	93,7 *54,14*	93,5 *55,23*	93,4 *56,31*	92,9 *58,48*	92,4 *60,60*	91,8 *62,57*	90,9 *64,88*	89,9 *66,97*	88,8 *68,84*	87,4 *70,81*	85,7 *72,81*	84,0 *74,73*	80,4 *78,17*	75,8 *81,33*	70,8 *84,50*	

4MA-4MAX

Centrifugal Flanged
EN 733

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)										
			0	3	6	9	12	13,5	15	18	19	20	21
			0	50	100	150	200	225	250	300	316,7	333,3	350
	kW		H (m) *pump input power (kW)*										
32-160C	0,37	71B	5,7 *0,10*	5,6 *0,15*	5,1 *0,19*	4,0 *0,22*	2,4 *0,24*						
32-160B	0,37	71B	6,8 *0,12*	6,7 *0,17*	6,3 *0,22*	5,4 *0,26*	3,8 *0,29*						
32-160A	0,55	80A	9,0 *0,18*	9,0 *0,24*	8,7 *0,30*	8,0 *0,36*	6,6 *0,41*	5,6 *0,40*					
32-200C	0,75	80B	10,1 *0,25*	9,9 *0,32*	9,6 *0,41*	8,8 *0,48*	7,4 *0,54*	6,4 *0,57*	5,3 *0,60*	2,6 *0,65*			
32-200B	1,1	90S	12,0 *0,34*	12,0 *0,42*	11,8 *0,52*	11,1 *0,63*	10,1 *0,72*	9,4 *0,76*	8,5 *0,80*	5,9 *0,85*	4,8 *0,90*		
32-200A	1,1	90S	14,7 *0,39*	14,7 *0,51*	14,5 *0,63*	13,6 *0,74*	12,3 *0,84*	11,4 *0,89*	10,4 *0,93*	8,0 *1,00*	7,0 *1,02*	5,8 *1,04*	
32-250C	1,5	90L	17,8 *0,56*	17,5 *0,69*	17,2 *0,83*	16,3 *0,96*	14,9 *1,07*	14,2 *1,12*	13,2 *1,17*	10,3 *1,23*	9,1 *1,25*		
32-250B	1,5	90L	20,8 *0,71*	20,5 *0,85*	20,3 *1,01*	19,4 *1,16*	18,0 *1,29*	17,2 *1,35*	16,2 *1,40*	14,1 *1,49*	13,1 *1,52*	11,8 *1,54*	
32-250A	2,2	100L	23,5 *0,86*	23,1 *1,02*	23,0 *1,21*	22,3 *1,39*	20,9 *1,55*	19,9 *1,62*	18,8 *1,69*	16,5 *1,79*	15,6 *1,82*	14,5 *1,85*	13,2 *1,88*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)											
			0	3	6	9	12	15	18	21	24	27	30	33
			0	50	100	150	200	250	300	350	400	450	500	550
	kW		H (m) *pump input power (kW)*											
40-125C	0,37	71B	4,4 *0,09*	4,5 *0,12*	4,4 *0,16*	4,1 *0,19*	3,6 *0,20*	2,9 *0,21*	2,0 *0,22*					
40-125B	0,37	71B	5,5 *0,11*	5,6 *0,15*	5,6 *0,19*	5,3 *0,23*	4,8 *0,25*	4,1 *0,27*	3,2 *0,28*	2,2 *0,29*				
40-125A	0,55	80A	6,4 *0,14*	6,5 *0,19*	6,5 *0,23*	6,2 *0,27*	5,7 *0,31*	5,0 *0,33*	4,1 *0,35*	3,1 *0,36*	2,3 *0,36*			
40-160B	0,55	80A	6,9 *0,17*	7,1 *0,23*	7,2 *0,28*	7,0 *0,33*	6,6 *0,37*	5,9 *0,40*	5,1 *0,43*	4,0 *0,44*	2,8 *0,45*			
40-160A	0,75	80A	8,4 *0,23*	8,5 *0,28*	8,6 *0,34*	8,4 *0,40*	7,9 *0,46*	7,3 *0,50*	6,5 *0,53*	5,6 *0,55*	4,6 *0,57*			
40-160AP	0,75	80A	9,3 *0,26*	9,5 *0,31*	9,5 *0,38*	9,3 *0,45*	8,9 *0,51*	8,3 *0,56*	7,5 *0,60*	6,6 *0,63*	5,6 *0,65*			
40-200B	0,75	90S	11,0 *0,30*	11,0 *0,37*	11,0 *0,46*	10,7 *0,54*	10,1 *0,60*	9,3 *0,66*	8,0 *0,71*	6,5 *0,75*	5,0 *0,78*			
40-200A	1,1	90S	13,9 *0,43*	13,9 *0,51*	13,9 *0,61*	13,7 *0,72*	13,3 *0,81*	12,6 *0,90*	11,5 *0,97*	10,1 *1,02*	8,5 *1,07*			
40-200AP	1,1	90L	14,9 *0,44*	14,8 *0,52*	14,7 *0,63*	14,5 *0,74*	13,9 *0,84*	13,1 *0,93*	12,0 *1,00*	10,6 *1,05*	8,8 *1,10*			
40-250C	1,5	90L	15,7 *0,54*	15,9 *0,65*	15,8 *0,78*	15,4 *0,90*	14,9 *1,03*	13,8 *1,14*	12,1 *1,24*	10,2 *1,35*	7,8 *1,43*	5,0 *1,51*		
40-250B	2,2	100L	18,2 *0,69*	18,4 *0,81*	18,3 *0,95*	18,0 *1,10*	17,6 *1,25*	16,8 *1,39*	15,4 *1,51*	13,4 *1,64*	11,1 *1,75*	8,5 *1,85*	5,2 *1,95*	
40-250A	2,2	100L	20,5 *0,82*	20,8 *0,95*	20,9 *1,11*	20,5 *1,28*	20,0 *1,45*	19,4 *1,61*	18,3 *1,75*	16,2 *1,89*	14,0 *2,01*	11,4 *2,14*	8,5 *2,24*	5,4 *2,35*
40-250BM	3	100L	22,5 *0,92*	22,7 *1,06*	22,6 *1,23*	22,5 *1,41*	22,2 *1,60*	21,6 *1,77*	20,5 *1,92*	18,6 *2,06*	16,3 *2,19*	13,9 *2,32*	11,3 *2,44*	8,0 *2,55*
40-250AM	3	100L	24,6 *1,09*	24,5 *1,23*	24,4 *1,40*	24,3 *1,59*	24,0 *1,79*	23,5 *1,97*	22,5 *2,13*	20,9 *2,29*	18,7 *2,44*	16,4 *2,57*	13,8 *2,70*	11,3 *2,82*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)														
			0	9	12	15	18	21	24	27	30	33	36	39	42	45	48	52
			0	150	200	250	300	350	400	450	500	550	600	650	700	750	800	866,7
	kW		H (m) *pump input power (kW)*															
50-125B	0,55	80A	4,9 *0,17*	5,1 *0,25*	5,0 *0,29*	4,9 *0,32*	4,8 *0,35*	4,6 *0,38*	4,3 *0,40*	4,0 *0,42*	3,6 *0,43*	3,1 *0,44*	2,7 *0,45*	2,2 *0,45*	1,6 *0,44*			
50-125A	0,75	80B	5,9 *0,20*	6,1 *0,31*	6,0 *0,35*	6,0 *0,39*	5,8 *0,43*	5,7 *0,46*	5,4 *0,49*	5,1 *0,52*	4,7 *0,54*	4,3 *0,56*	3,8 *0,57*	3,2 *0,57*	2,7 *0,58*	2,1 *0,58*		
50-160B	0,75	80B	7,7 *0,27*	7,8 *0,43*	7,8 *0,49*	7,6 *0,54*	7,4 *0,59*	7,0 *0,62*	6,6 *0,65*	6,0 *0,68*	5,4 *0,70*	4,8 *0,71*	4,1 *0,71*	3,4 *0,71*	2,6 *0,71*			
50-160A	1,1	90S	9,3 *0,36*	9,5 *0,54*	9,6 *0,62*	9,5 *0,69*	9,4 *0,75*	9,1 *0,81*	8,7 *0,86*	8,2 *0,90*	7,7 *0,93*	7,2 *0,96*	6,6 *0,98*	5,9 *1,00*	5,2 *1,01*	4,3 *1,02*	3,4 *1,01*	
50-200C	1,1	90S	11,7 *0,40*	12,1 *0,66*	11,9 *0,75*	11,7 *0,83*	11,2 *0,90*	10,7 *0,96*	10,1 *1,01*	9,3 *1,06*	8,3 *1,10*	7,2 *1,12*	6,0 *1,14*	4,9 *1,15*	3,7 *1,16*			
50-200B	1,5	90L	13,1 *0,47*	13,3 *0,75*	13,2 *0,84*	12,9 *0,93*	12,5 *1,01*	12,0 *1,08*	11,5 *1,15*	10,7 *1,20*	9,8 *1,25*	8,8 *1,29*	7,7 *1,32*	6,5 *1,34*	5,3 *1,35*	3,9 *1,36*		
50-200A	1,5	90L	14,6 *0,56*	14,9 *0,86*	14,8 *0,97*	14,5 *1,07*	14,2 *1,16*	13,7 *1,24*	13,1 *1,31*	12,3 *1,38*	11,4 *1,44*	10,4 *1,49*	9,4 *1,53*	8,3 *1,56*	7,0 *1,59*	5,6 *1,61*		
50-250C	2,2	100L	17,7 *0,80*		17,4 *1,32*	17,1 *1,45*	16,8 *1,57*	16,3 *1,68*	15,8 *1,79*	15,1 *1,89*	14,2 *1,97*	13,2 *2,05*	12,0 *2,13*	10,8 *2,20*	9,4 *2,26*	8,0 *2,32*		
50-250B	3	100L	19,7 *0,93*		19,6 *1,50*	19,3 *1,65*	19,0 *1,78*	18,6 *1,91*	18,1 *2,02*	17,4 *2,13*	16,5 *2,23*	15,5 *2,32*	14,3 *2,41*	13,1 *2,49*	11,7 *2,56*	10,5 *2,63*	8,2 *2,69*	
50-250A	4	112M	21,8 *1,01*		21,4 *1,59*	21,2 *1,74*	20,9 *1,90*	20,6 *2,05*	20,0 *2,18*	19,4 *2,30*	18,5 *2,41*	17,4 *2,51*	16,2 *2,61*	15,0 *2,70*	13,8 *2,78*	12,4 *2,86*	11,0 *2,93*	8,2 *2,98*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																			
			0	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78	84	90	96
			0	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1500	1600
	kW		H (m) pump input power (kW)																			
50-315C No EN 733	5,5	132M	24,4 1,64	24,7 2,58	24,7 2,77	24,6 2,96	24,5 3,15	24,3 3,33	24,0 3,50	23,7 3,66	23,4 3,82	23,1 3,96	22,8 4,11	22,5 4,24	21,9 4,51	21,1 4,77	20,2 5,01	19,2 5,23	18,1 5,43	16,8 5,62		
50-315B No EN 733	7,5	132M	31,3 2,35	31,4 3,54	31,4 3,78	31,3 4,01	31,3 4,24	31,2 4,47	30,9 4,68	30,6 4,89	30,3 5,08	29,9 5,27	29,5 5,46	29,1 5,64	28,2 5,99	27,3 6,32	26,5 6,61	25,5 6,89	24,4 7,14	23,1 7,37	21,6 7,58	
50-315A No EN 733	11	160M	37,5 3,06	37,2 4,39	37,2 4,65	37,1 4,92	37,0 5,18	36,9 5,45	36,7 5,72	36,5 5,97	36,3 6,22	36,0 6,45	35,6 6,68	35,2 6,90	34,3 7,31	33,3 7,69	32,1 8,04	30,9 8,37	29,7 8,69	28,4 8,96	26,9 9,18	25,1 9,37

TYPE - 50 Hz	P2	Motor Size	Q (m3/h - l/min)														
			0	18	21	24	27	30	36	42	48	54	60	66	72	78	84	90
			0	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500
	kW		H (m) pump input power (kW)															
65-125B	0,75	80M	4,8 0,28	5,0 0,45	4,9 0,48	4,9 0,51	4,8 0,54	4,7 0,56	4,5 0,60	4,2 0,64	3,8 0,67	3,4 0,69	3,0 0,70	2,4 0,70				
65-125A	1,1	90S	6,1 0,39	6,4 0,61	6,3 0,65	6,3 0,69	6,2 0,73	6,1 0,76	6,0 0,82	5,8 0,88	5,5 0,93	5,1 0,96	4,6 0,99	4,0 1,01	3,4 1,02			
65-160C	1,5	90L	7,1 0,37			7,3 0,74	7,2 0,78	7,1 0,83	6,9 0,91	6,5 0,97	6,1 1,02	5,6 1,07	5,0 1,10	4,3 1,12	3,5 1,13	2,7 1,14		
65-160B	1,5	90L	8,2 0,45			8,5 0,88	8,4 0,93	8,3 0,98	8,1 1,07	7,8 1,15	7,3 1,22	6,8 1,28	6,1 1,33	5,4 1,36	4,7 1,39	3,9 1,40		
65-160A	2,2	100L	10,0 0,66			10,4 1,14	10,3 1,21	10,3 1,27	10,1 1,40	9,9 1,51	9,6 1,62	9,1 1,72	8,6 1,81	7,9 1,89	7,2 1,95	6,5 2,00	5,7 2,03	
65-200C	2,2	110L	10,9 0,63				11,2 1,32	11,0 1,39	10,7 1,52	10,2 1,64	9,7 1,73	9,0 1,80	8,1 1,86	7,1 1,91	6,1 1,92	5,0 1,93		
65-200B	3	110L	12,7 0,74				13,0 1,56	12,9 1,64	12,5 1,79	12,1 1,92	11,5 2,03	10,9 2,13	10,2 2,21	9,2 2,27	8,1 2,32	7,0 2,36	5,9 2,39	
65-200A	3	110L	14,7 0,95				14,9 1,83	14,8 1,92	14,4 2,10	14,0 2,24	13,5 2,37	12,8 2,49	12,1 2,59	11,2 2,68	10,2 2,75	9,0 2,80	7,7 2,84	6,4 2,87
65-250B	4	112M	17,7 0,80				20,0 2,59	19,7 2,74	19,0 2,99	18,1 3,19	17,1 3,35	15,9 3,48	14,5 3,56	12,8 3,61	11,0 3,64	9,1 3,63	7,0 3,58	
65-250A	5,5	132S	22,9 1,44					22,3 3,07	21,7 3,34	20,9 3,58	19,8 3,78	18,6 3,94	17,3 4,06	15,8 4,15	14,2 4,21	12,3 4,23	10,2 4,21	7,8 4,17

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																						
			0	27	30	33	36	39	42	45	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
			0	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
	kW		H (m) pump input power (kW)																						
65-315CM	7,5	132M	23,0 2,05	23,5 3,38	23,5 3,55	23,4 3,70	23,3 3,86	23,2 4,01	23,1 4,16	22,9 4,32	22,7 4,47	22,3 4,77	21,9 5,05	21,5 5,33	21,0 5,59	20,5 5,84	20,0 6,08	19,3 6,32	18,5 6,56	17,7 6,77	16,9 6,97	16,0 7,16	15,0 7,35	13,9 7,52		
65-315BM	11	160M	28,9 2,72	28,9 4,33	28,9 4,52	28,8 4,70	28,7 4,89	28,6 5,07	28,4 5,24	28,2 5,42	28,0 5,61	27,5 5,98	27,0 6,33	26,5 6,65	25,9 6,95	25,3 7,24	24,7 7,53	24,0 7,80	23,3 8,06	22,5 8,30	21,6 8,52	20,6 8,72	19,6 8,91	18,4 9,10	17,2 9,29	
65-315AM	11	160M	34,5 3,44	34,0 5,43	33,9 5,66	33,7 5,88	33,5 6,10	33,3 6,32	33,1 6,54	32,9 6,75	32,6 6,96	32,2 7,35	31,6 7,73	31,0 8,10	30,4 8,45	29,6 8,78	28,9 9,08	28,1 9,35	27,2 9,61	26,2 9,84	25,1 10,05	23,8 10,24	22,5 10,40	21,1 10,55	19,6 10,68	18,2 10,78

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																
			0	24	27	30	33	36	42	48	60	72	84	96	102	108	120	132	144
			0	400	450	500	550	600	700	800	1000	1200	1400	1600	1700	1800	2000	2200	2400
	kW		H (m) pump input power (kW)																
80-160E	1,1	90S	5,5 0,35	5,7 0,71	5,7 0,74	5,7 0,74	5,6 0,78	5,4 0,81	5,1 0,88	4,9 0,90	4,2 0,97	3,8 1,02	2,8 1,02	2,2 1,00					
80-160D	1,5	90L	6,3 0,61		6,8 0,89	6,7 0,91	6,6 0,95	6,5 0,98	6,3 1,04	6,1 1,10	5,5 1,19	4,8 1,25	4 1,28	3,1 1,30	2,6 1,29				
80-160C	1,5	90L	7,0 0,67			7,4 1,04	7,3 1,08	7,3 1,12	7,1 1,18	6,8 1,25	6,4 1,35	5,7 1,42	4,9 1,47	4 1,48	3,5 1,48	3,1 1,48			
80-160B	2,2	100L	8,5 0,62				8,9 1,29	8,9 1,35	8,7 1,43	8,5 1,51	8,0 1,72	7,5 1,87	6,8 1,95	5,7 2,01	5,2 2,02	4,7 2,04	3,5 2,04		
80-160A	3	100L	9,3 1,09					9,8 1,60	9,7 1,71	9,5 1,81	9,1 2,01	8,6 2,14	7,9 2,27	7,1 2,34	6,6 2,37	6,2 2,39	5,0 2,42	3,8 2,43	
80-200B	4	112M	12,3 1,25						13,1 2,32	13,0 2,48	12,6 2,79	12,1 3,03	11,4 3,26	10,5 3,45	10,1 3,52	9,6 3,58	8,4 3,69	7,1 3,75	
80-200A	5,5	132S	13,8 1,40						14,7 2,64	14,6 2,81	14,2 3,14	13,7 3,43	13,1 3,66	12,3 3,87	11,7 3,99	11,2 4,09	10,1 4,21	8,8 4,30	7,5 4,35
80-250B	5,5	132S	18,9 1,79						19,2 3,52	19,0 3,75	18,1 4,14	17,0 4,48	15,9 4,78	14,8 5,05	14,2 5,16	13,6 5,24	12,4 5,41	11,1 5,54	
80-250A	7,5	132M	22,4 2,22						22,9 4,28	22,6 4,56	21,8 5,05	20,7 5,46	19,6 5,85	18,3 6,21	17,7 6,37	17,0 6,52	15,6 6,77	14,2 6,96	12,6 7,10

4MA-4MAX ~ *EN 733*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)														
			0	42	48	60	72	84	96	102	108	120	132	144	150	156	168
			0	700	800	1000	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800
	kW		H (m) *pump input power (kW)*														
80-315B	11	160M	27,7 *2,99*	28,3 *5,48*	28,2 *5,88*	27,9 *6,67*	27,2 *7,42*	26,4 *8,09*	25,4 *8,67*	24,9 *8,95*	24,4 *9,21*	23,3 *9,74*	21,9 *10,28*	20,5 *10,66*	19,9 *10,85*		
80-315A	15	160L	34,5 *4,29*	35,0 *7,30*	34,9 *7,78*	34,6 *8,75*	34,0 *9,66*	33,3 *10,53*	32,4 *11,37*	31,9 *11,77*	31,3 *12,17*	30,1 *12,91*	28,8 *13,50*	27,3 *14,05*	26,4 *14,31*	25,5 *14,56*	23,7 *15,04*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																
			0	48	60	72	84	96	102	108	120	132	144	150	156	168	180	192	204
			0	800	1000	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400
	kW		H (m) *pump input power (kW)*																
100-200D	4	112M	10,9 *2,28*	10,8 *2,69*	10,6 *2,88*	10,3 *3,05*	9,9 *3,19*	9,5 *3,34*	9,2 *3,41*	9,0 *3,48*	8,5 *3,58*	7,8 *3,66*	6,9 *3,71*	6,4 *3,72*	5,9 *3,73*	4,8 *3,71*			
100-200C	5,5	132S	12,0 *2,46*	12,0 *2,99*	11,8 *3,20*	11,5 *3,40*	11,2 *3,57*	10,8 *3,76*	10,6 *3,85*	10,3 *3,94*	9,8 *4,06*	9,1 *4,17*	8,3 *4,26*	7,8 *4,28*	7,4 *4,30*	6,3 *4,33*			
100-200B	5,5	132S	13,5 *2,79*	13,6 *3,48*	13,4 *3,70*	13,1 *3,93*	12,8 *4,15*	12,5 *4,38*	12,3 *4,49*	12,1 *4,59*	11,6 *4,77*	11,0 *4,93*	10,3 *5,05*	9,9 *5,09*	9,5 *5,13*	8,7 *5,19*	7,8 *5,23*		
100-200A	7,5	132M	15,2 *3,12*	15,4 *3,96*	15,3 *4,22*	15,0 *4,48*	14,8 *4,74*	14,5 *5,03*	14,4 *5,17*	14,2 *5,31*	13,8 *5,58*	13,2 *5,80*	12,5 *5,99*	12,2 *6,07*	11,8 *6,13*	11,0 *6,23*	10,1 *6,33*	9,1 *6,40*	
100-250E	7,5	132M	16,7 *3,06*		16,9 *4,71*	16,8 *5,06*	16,6 *5,42*	16,3 *5,75*	16,2 *5,91*	16,0 *6,07*	15,5 *6,39*	14,8 *6,69*	14,0 *6,96*	13,6 *7,08*	13,2 *7,19*	12,4 *7,38*	11,4 *7,53*		
100-250D	7,5	132M	19,6		19,6	19,4	19,2	18,9	18,7	18,5	18,0	17,4	16,6	16,2	15,7	14,8	13,7	12,7	
	11	160M	*3,39*		*5,44*	*5,88*	*6,29*	*6,66*	*6,82*	*6,98*	*7,30*	*7,60*	*7,90*	*8,05*	*8,19*	*8,41*	*8,60*	*8,75*	
100-250A	11	160M	22,6 *3,96*		22,3 *6,17*	22,1 *6,67*	21,8 *7,15*	21,4 *7,59*	21,2 *7,80*	21,0 *8,00*	20,5 *8,37*	19,9 *8,71*	19,1 *9,04*	18,7 *9,20*	18,3 *9,36*	17,3 *9,63*	16,1 *9,85*	15,0 *10,04*	13,8 *10,19*

TYPE - 50 Hz	P2	Motor Size	Q (m3/h - l/min)															
			0	72	84	96	102	108	120	132	144	150	156	168	180	192	204	216
			0	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600
	kW		H (m) *pump input power (kW)*															
100-315B	15	160L	31,8 *4,74*	31,4 *9,27*	30,6 *10,05*	29,8 *9,67*	29,4 *10,05*	29,0 *11,42*	28,2 *11,10*	27,3 *12,54*	26,3 *12,27*	25,8 *12,54*	25,3 *13,54*	24,2 *13,06*	23,0 *14,31*	21,4 *13,54*	19,7 *14,92*	17,9 *15,14*
100-315A	18,5	180M	37,1 *5,63*	36,5 *11,03*	35,7 *11,94*	34,9 *12,80*	34,4 *13,21*	34,0 *13,60*	33,1 *14,33*	32,2 *15,01*	31,2 *15,69*	30,7 *16,02*	30,2 *16,32*	29,1 *16,86*	27,9 *17,32*	26,3 *17,76*	24,7 *18,15*	23,1 *18,49*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																	
			0	84	96	102	108	120	132	144	150	156	168	180	192	204	216	228	240	252
			0	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200
	kW		H (m) *pump input power (kW)*																	
100-400C	22	180L	42,4 *6,93*	40,6 *14,36*	39,8 *15,34*	39,3 *15,81*	38,8 *16,27*	37,8 *17,14*	36,7 *17,98*	35,5 *18,83*	34,9 *19,25*	34,3 *19,64*	32,8 *20,30*	31,4 *20,95*	30,3 *21,50*	29,1 *21,91*	27,7 *22,31*	25,8 *22,70*		
100-400B	30	200L	50,3 *9,32*	48,7 *18,20*	47,9 *19,51*	47,5 *20,14*	47,0 *20,75*	46,0 *21,93*	44,9 *23,04*	43,8 *24,07*	43,2 *24,56*	42,6 *25,03*	41,3 *25,95*	39,8 *26,80*	38,2 *27,61*	36,5 *28,36*	34,7 *29,01*	33,1 *29,56*	31,6 *30,00*	
100-400A	37	225S	58,3 *11,46*	56,0 *21,50*	55,2 *23,05*	54,8 *23,80*	54,3 *24,54*	53,4 *25,95*	52,4 *27,31*	51,3 *28,63*	50,7 *29,27*	50,1 *29,89*	48,7 *31,07*	47,3 *32,15*	45,8 *33,12*	44,3 *34,00*	42,7 *34,77*	40,9 *35,48*	38,8 *36,11*	36,7 *36,69*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																
			0	102	108	120	132	144	150	156	168	180	192	204	216	228	240	252	276
			0	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600
	kW		H (m) *pump input power (kW)*																
125-250B	11	160M	19,6 *5,41*	20,2 *8,04*	20,0 *8,22*	19,7 *8,56*	19,2 *8,80*	18,8 *9,30*	18,5 *9,50*	18,2 *9,66*	17,6 *9,99*	16,9 *10,23*	16,1 *10,44*	15,2 *10,67*	14,3 *10,88*	13,3 *11,02*	12,2 *11,12*	11,1 *11,18*	
125-250A	15	160L	23,2 *6,18*	24,0 *9,71*	23,8 *9,92*	23,5 *10,36*	23,2 *10,80*	22,8 *11,24*	22,6 *11,47*	22,4 *11,70*	21,9 *12,16*	21,3 *12,60*	20,7 *13,02*	20,0 *13,42*	19,3 *13,77*	18,5 *14,08*	17,6 *14,34*	16,6 *14,57*	14,7 *14,94*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																	
			0	120	132	144	150	156	168	180	192	204	216	228	240	252	276	348	372	396
			0	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600
	kW		H (m) *pump input power (kW)*																	
125-315C	22	180L	24,1 *7,23*	25,8 *12,72*	25,7 *13,39*	25,5 *14,05*	25,4 *14,38*	25,3 *14,70*	25,0 *15,34*	24,7 *15,95*	24,4 *16,49*	24,1 *16,99*	23,7 *17,48*	23,3 *17,98*	22,8 *18,49*	22,2 *18,99*	21,0 *19,96*	15,7 *22,32*		
125-315B	30	200L	31,5 *9,52*	33,0 *16,73*	33,0 *17,53*	32,9 *18,36*	32,8 *18,77*	32,7 *19,15*	32,4 *19,84*	32,1 *20,43*	31,7 *21,01*	31,3 *21,67*	31,0 *22,39*	30,6 *23,13*	30,1 *23,83*	29,6 *24,48*	28,3 *25,71*	24,2 *29,14*	22,2 *30,13*	
125-315A	37	225S	38,6 *11,88*	39,6 *20,51*	39,5 *21,40*	39,2 *22,29*	39,0 *22,73*	38,8 *23,17*	38,4 *24,03*	38,1 *24,84*	37,9 *25,60*	37,6 *26,36*	37,3 *27,14*	37,0 *27,97*	36,6 *28,82*	36,2 *29,66*	35,2 *31,26*	29,6 *35,58*	28,2 *36,82*	
125-400C	45	225M	46,2 *13,91*	47,6 *24,65*	47,5 *25,83*	47,2 *27,03*	47,0 *27,62*	46,9 *28,20*	46,5 *29,31*	46,1 *30,30*	45,7 *31,22*	45,2 *32,17*	44,7 *33,24*	44,2 *34,42*	43,7 *35,62*	43,2 *36,73*	42,4 *38,53*	36,5 *43,95*	33,8 *45,52*	
125-400B	55	250M	53,4 *16,79*	54,5 *28,74*	54,3 *30,15*	54,1 *31,55*	54,0 *32,25*	53,9 *32,94*	53,5 *34,30*	53,2 *35,60*	52,7 *36,85*	52,3 *38,07*	51,7 *39,30*	51,2 *40,56*	50,6 *41,82*	50,0 *43,06*	48,8 *45,43*	44,6 *51,75*	42,0 *53,55*	39,1 *55,27*
125-400A	75	280S	58,6 *18,95*	59,5 *31,66*	59,4 *33,20*	59,2 *34,74*	59,1 *35,52*	59,0 *36,29*	58,7 *37,81*	58,3 *39,30*	57,8 *40,77*	57,4 *42,22*	56,8 *43,66*	56,3 *45,09*	55,7 *46,50*	55,1 *47,87*	53,9 *50,49*	49,9 *57,63*	47,2 *59,76*	45,0 *61,83*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																	
			0	144	150	156	168	180	192	204	216	228	240	252	276	348	372	396	444	492	540	564
			0	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600	7400	8200	9000	9400
	kW		H (m) *pump input power (kW)*																			
150-315D	30	200L	25,7 *12,22*	28,3 *18,44*	28,3 *18,74*	28,3 *19,04*	28,2 *19,63*	28,1 *20,19*	27,9 *20,71*	27,7 *21,22*	27,5 *21,72*	27,2 *22,23*	26,8 *22,73*	26,5 *23,25*	25,8 *24,37*	24,7 *27,81*	23,8 *28,75*	22,7 *29,56*	19,6 *30,78*				
150-315C	37	225S	29,6 *14,01*	32,2 *21,16*	32,2 *21,49*	32,3 *21,84*	32,2 *22,52*	32,2 *23,20*	32,1 *23,85*	31,9 *24,45*	31,6 *25,02*	31,3 *25,58*	31,0 *26,14*	30,7 *26,73*	30,2 *28,01*	28,6 *31,79*	27,9 *32,95*	27,0 *34,00*	24,7 *35,84*	21,8 *37,45*		
150-315B	45	225M	34,0 *16,47*	36,3 *24,33*	36,2 *24,72*	36,2 *25,12*	36,2 *25,92*	36,1 *26,72*	36,0 *27,47*	35,7 *28,17*	35,5 *28,85*	35,4 *29,51*	35,2 *30,15*	34,9 *30,83*	34,5 *32,25*	32,8 *36,29*	32,2 *37,54*	31,3 *38,77*	29,3 *41,13*	26,9 *43,09*	23,6 *44,99*	
150-315A	55	250M	39,4 *18,39*	41,0 *27,78*	41,0 *28,22*	40,8 *28,66*	40,8 *29,55*	40,8 *30,43*	40,8 *31,31*	40,6 *32,18*	40,3 *33,05*	40,0 *33,92*	39,7 *34,77*	39,5 *35,59*	39,2 *37,10*	37,6 *41,75*	36,6 *43,40*	35,8 *45,02*	34,1 *48,12*	31,7 *50,36*	28,9 *52,60*	27,2 *53,65*

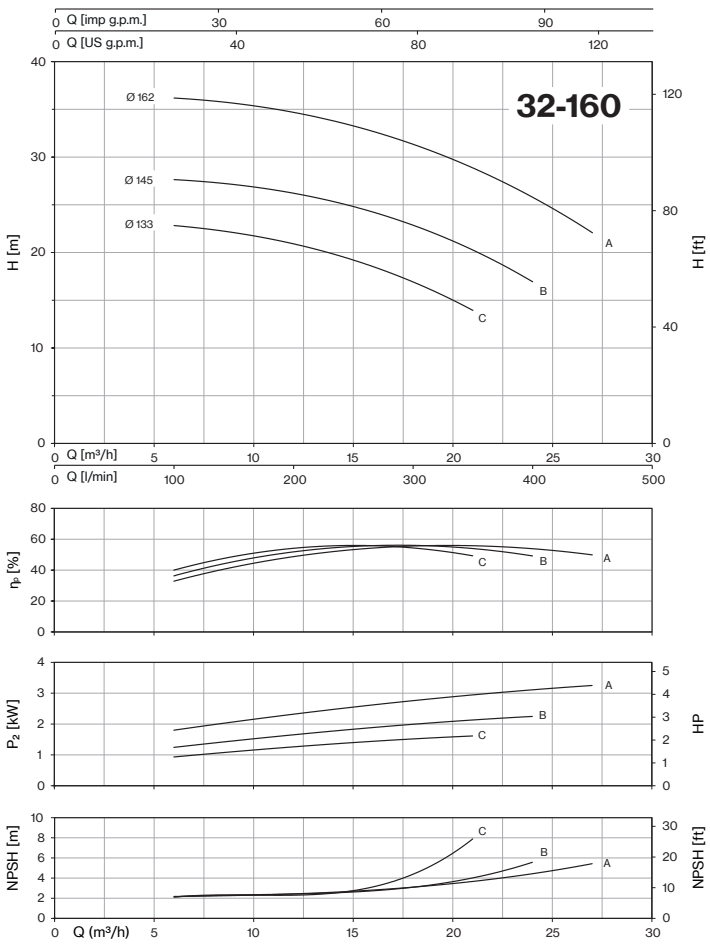
TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																	
			0	168	180	192	204	216	228	240	252	276	348	372	396	444	492	540	564	588	612
			0	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600	7400	8200	9000	9400	9800	10200
	kW		H (m) *pump input power (kW)*																		
150-400C	75	280S	45,6 *20,78*	47,8 *35,35*	47,7 *36,41*	47,6 *37,46*	47,4 *38,54*	47,2 *39,58*	47,0 *40,43*	46,7 *41,65*	46,5 *42,62*	45,8 *44,48*	43,9 *50,44*	43,1 *52,51*	42,0 *54,34*	39,2 *57,61*	35,8 *60,59*	31,5 *63,18*	28,7 *64,43*		
150-400B	75	280S	52,8 *26,57*	54,4 *41,90*	54,2 *43,10*	53,9 *44,29*	57,3 *45,48*	53,5 *46,65*	53,2 *47,81*	52,9 *48,96*	52,6 *50,10*	51,8 *52,35*	50,3 *58,79*	49,8 *60,86*	48,9 *62,94*	46,1 *66,80*	42,9 *70,20*	39,1 *73,30*	36,7 *74,72*	34,3 *76,14*	
150-400A	90	280M	59,0 *29,82*	60,3 *47,01*	60,2 *48,30*	60,0 *49,59*	59,8 *50,88*	59,9 *52,18*	59,4 *53,48*	59,1 *54,78*	58,8 *56,10*	58,1 *58,76*	56,4 *66,15*	56,0 *68,45*	55,3 *70,93*	53,3 *75,79*	50,6 *79,82*	46,7 *83,73*	44,5 *85,61*	42,2 *87,41*	39,8 *89,16*

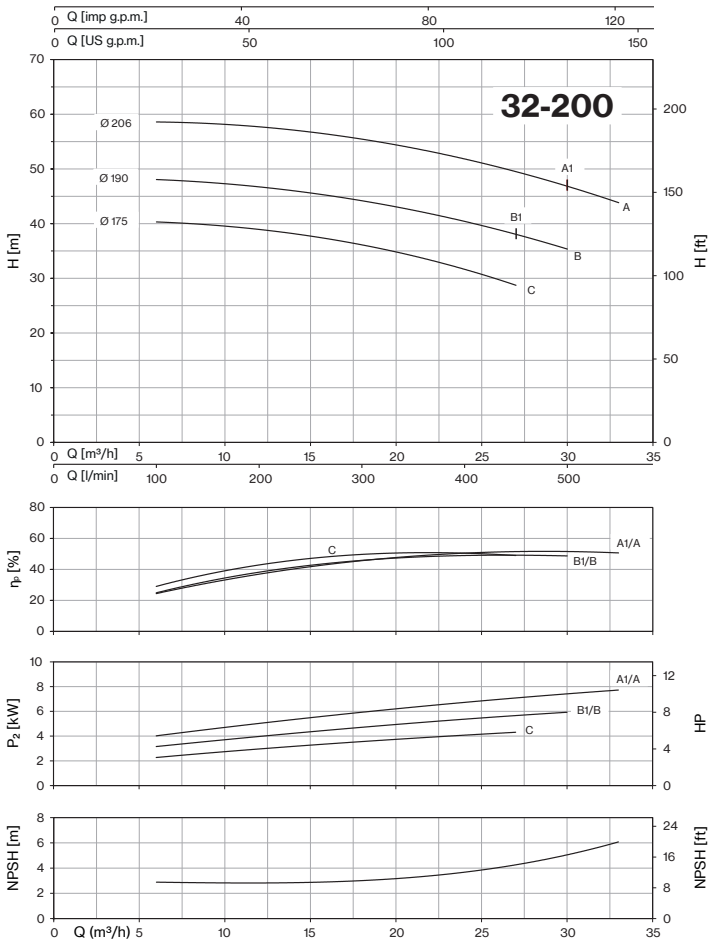
4MA-4MAX ~ *1450 rpm*

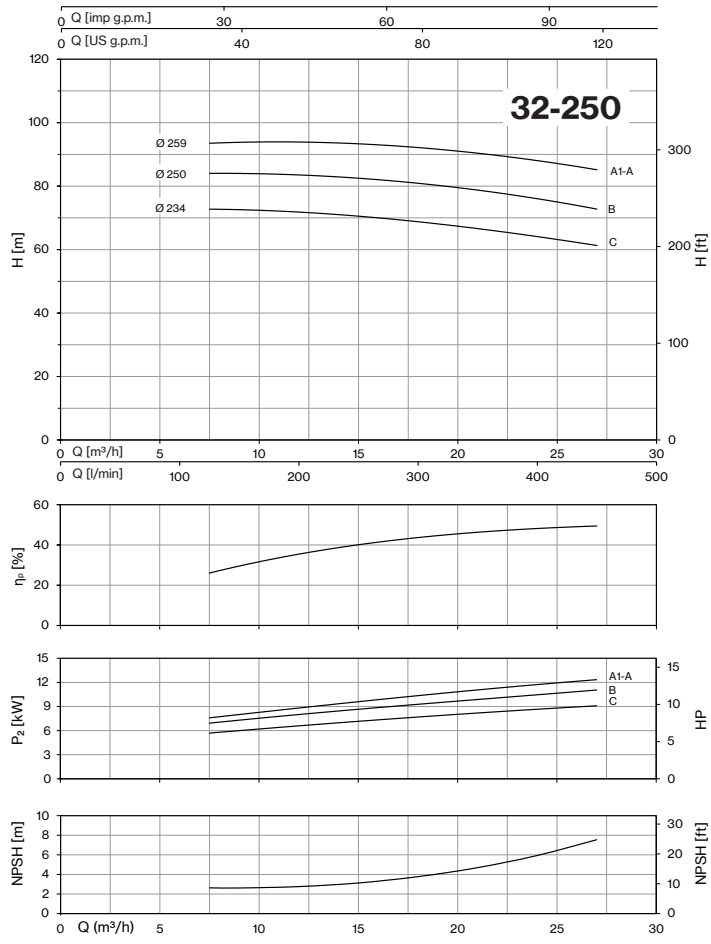
Machines complementing the existing range, not envisaged in the EN 733 standard

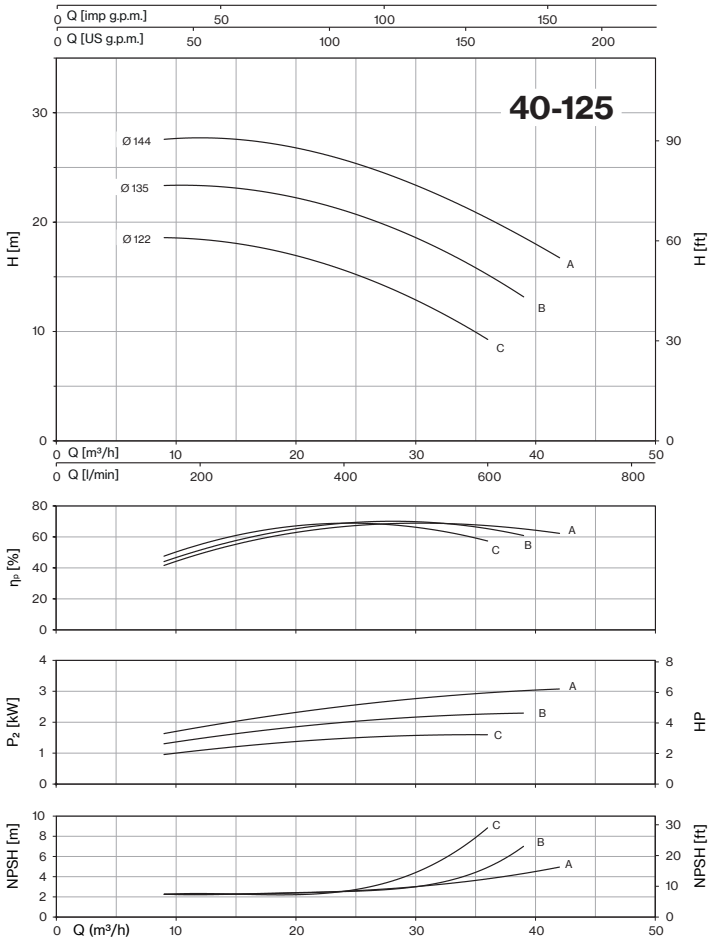
TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)							
			0	200	250	400	600	800	850	900
			0	3333	4167	6667	10000	13333	14167	15000
	kW		H (m) *pump input power (kW)*							
200-315D	37	225S	21,2 *18,00*	21,7 *24,31*	21,8 *26,11*	21,2 *31,21*	18,3 *36,07*	12,5 *37,00*		
200-315C	45	225M	26,6 *21,54*	26,6 *29,42*	26,4 *31,44*	25,9 *37,61*	23,1 *43,07*	16,9 *45,42*	14,6 *45,55*	
200-315B	55	250M	33,4 *25,04*	33,4 *36,30*	33,2 *38,91*	32,2 *46,32*	28,6 *52,72*	21,7 *55,67*	19,4 *55,62*	16,7 *55,25*
200-315A	75	280S	36,3 *27,90*	35,9 *39,49*	35,8 *42,13*	35,0 *50,07*	31,8 *58,82*	24,9 *62,36*	22,5 *62,45*	19,8 *62,15*
200-400C	90	280M	43,0 *31,27*	44,1 *45,90*	44,1 *50,14*	43,6 *62,49*	39,9 *77,58*	31,5 *89,60*		
200-400B	110	315S	49,5 *40,00*	50,8 *54,29*	51,0 *58,92*	50,6 *73,89*	47,2 *91,32*	39,5 *105,65*	36,6 *108,43*	
200-400A	132	315M	57,2 *49,00*	58,5 *65,01*	58,6 *70,26*	58,2 *87,26*	55,2 *107,05*	48,2 *124,54*	45,6 *128,46*	44,0 *132,15*

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)													
			0	250	400	600	800	850	900	1100	1170	1200	1300	1400	1500	1600
			0	4167	6667	10000	13333	14167	15000	18333	19500	20000	21667	23333	25000	26667
	kW		H (m) *pump input power (kW)*													
250-315C	55	280M	26,1	25,5	25,3	24,1	22,3	21,7	21,0	16,8						
	75	280S	*28,00*	*37,82*	*44,23*	*51,71*	*57,65*	*58,82*	*59,57*	*59,89*						
250-315B	75	280S	33,2 *43,46*	33,0 *54,77*	32,7 *61,20*	31,8 *68,72*	29,6 *74,57*	28,6 *75,26*	27,5 *75,64*	21,7 *74,47*	19,0 *73,35*					
250-315A	90	280M	35,8 *46,41*	35,0 *57,61*	34,4 *64,50*	33,3 *73,28*	31,3 *78,44*	30,4 *79,01*	29,3 *79,32*	23,0 *78,27*	20,7 *77,03*	20,0 *76,36*				
250-400D	110	315S	38,3	39,9	39,9	39,0	36,9	36,1	35,2	30,6	28,6	27,7	24,3			
	132	315M	*48,00*	*61,74*	*71,25*	*84,15*	*95,73*	*98,36*	*100,80*	*108,97*	*111,27*	*112,17*	*114,78*			
250-400C	132	315M	44,0	45,8	45,9	44,9	42,7	42,0	41,2	37,2	35,4	34,5	31,3	27,4		
	160	315L	*53,83*	*71,89*	*83,20*	*98,11*	*112,06*	*115,25*	*118,20*	*128,07*	*130,85*	*131,93*	*135,08*	*137,50*		
250-400B	160	315L	50,0	51,7	51,8	51,0	49,0	48,4	47,6	43,9	42,3	41,5	38,5	34,8	30,3	
	200	315L	*64,57*	*84,18*	*97,49*	*115,36*	*131,10*	*134,76*	*138,27*	*151,48*	*155,58*	*157,12*	*161,60*	*164,88*	*167,09*	
250-400A	200	315L	55,7 *70,94*	57,4 *91,89*	57,5 *106,81*	56,5 *127,19*	54,5 *145,00*	53,8 *149,18*	53,0 *153,24*	49,4 *168,92*	47,9 *173,94*	47,1 *175,86*	44,3 *181,62*	40,8 *186,11*	36,6 *189,07*	31,7 *190,57*

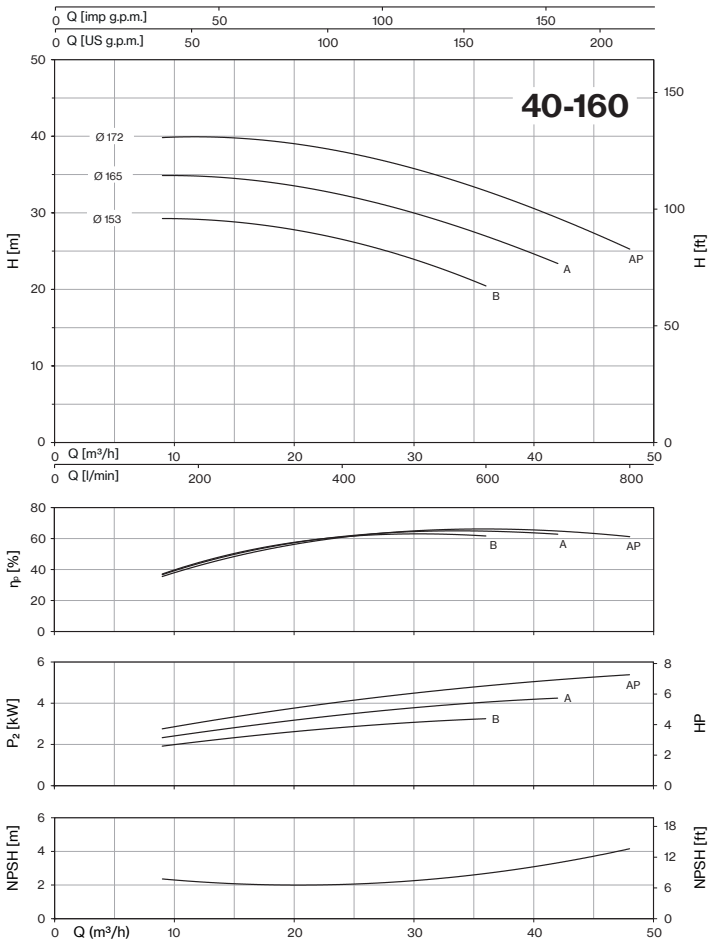

32-160
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 162
Ø 145
Ø 133
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

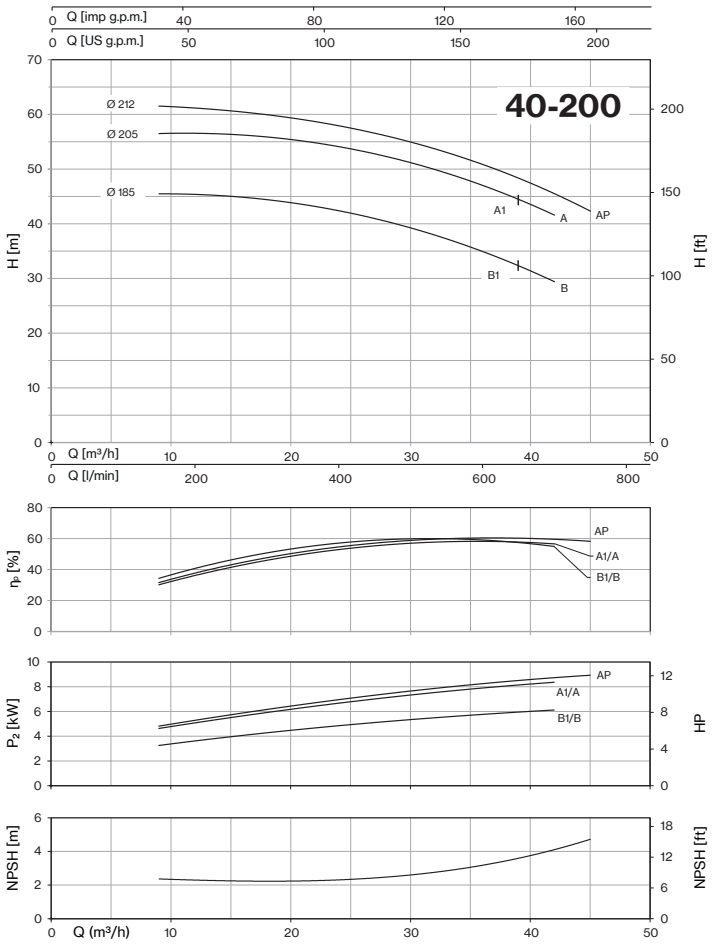

32-200
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 206
Ø 190
Ø 175
A1
A
B1
B
C
ηp [%]
A1/A
B1/B
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

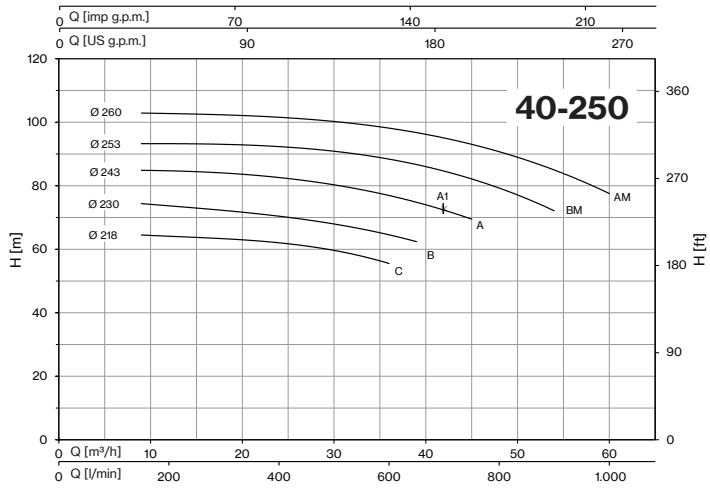

32-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 259
Ø 250
Ø 234
A1-A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

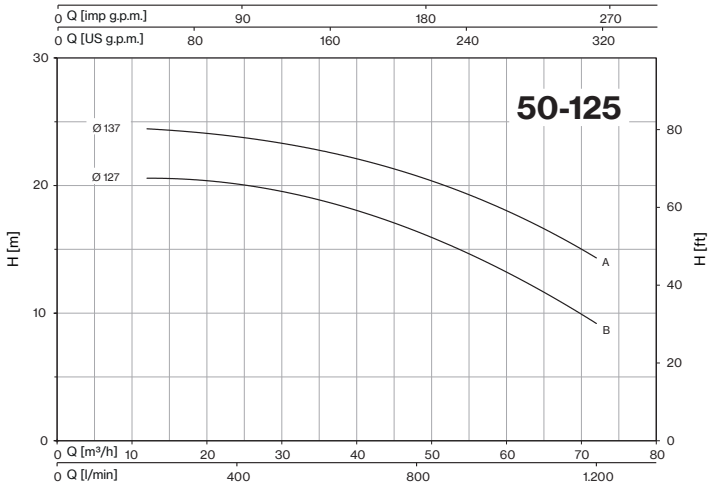

40-125
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 144
Ø 135
Ø 122
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

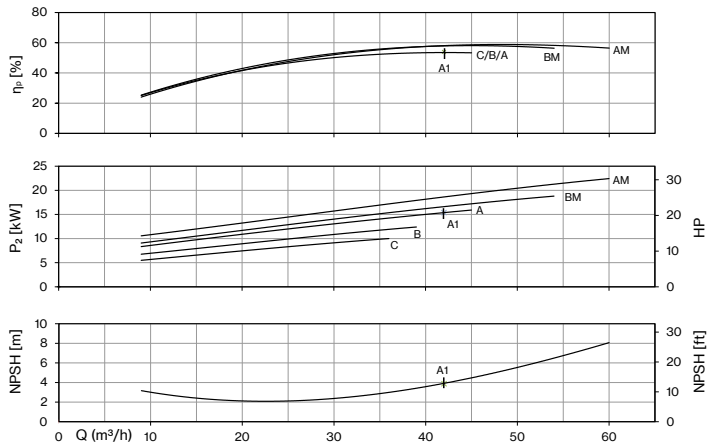
MN-MNG-MNGX-MA-MAX ~ *EN 733*

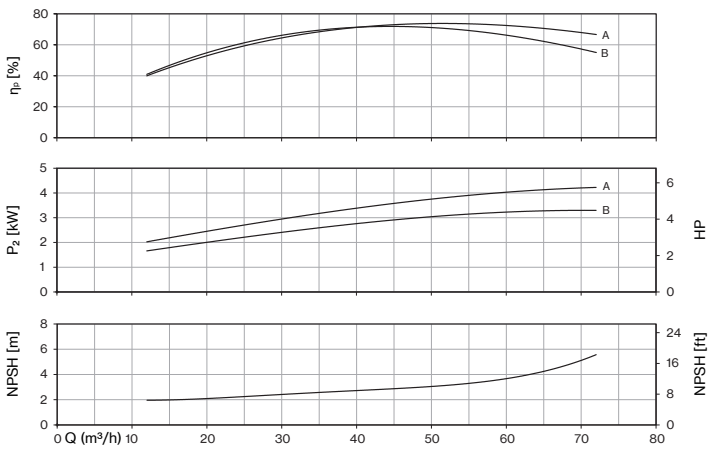




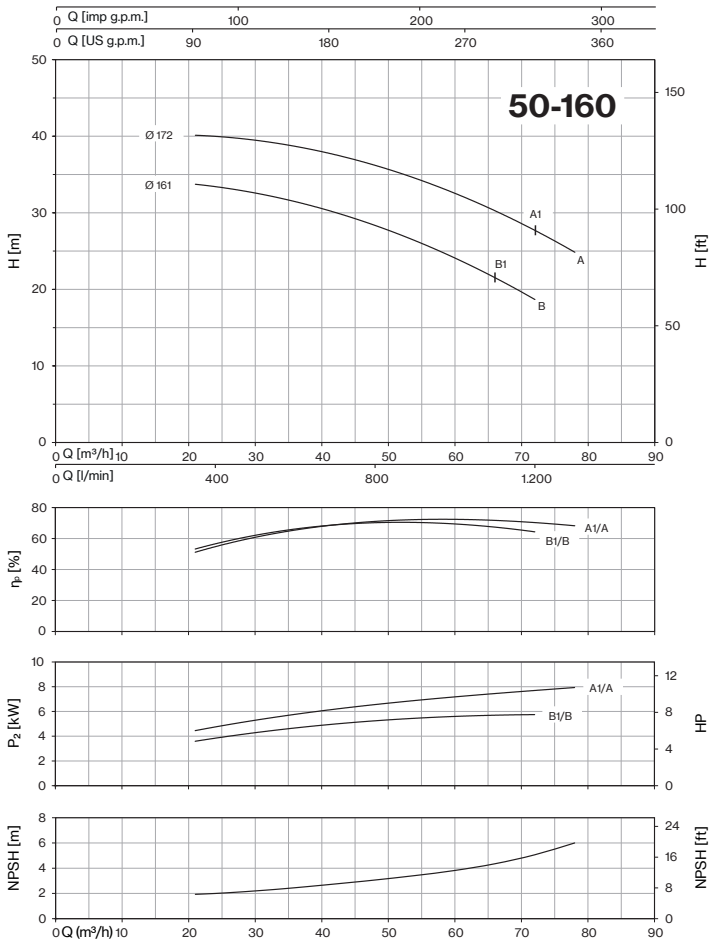


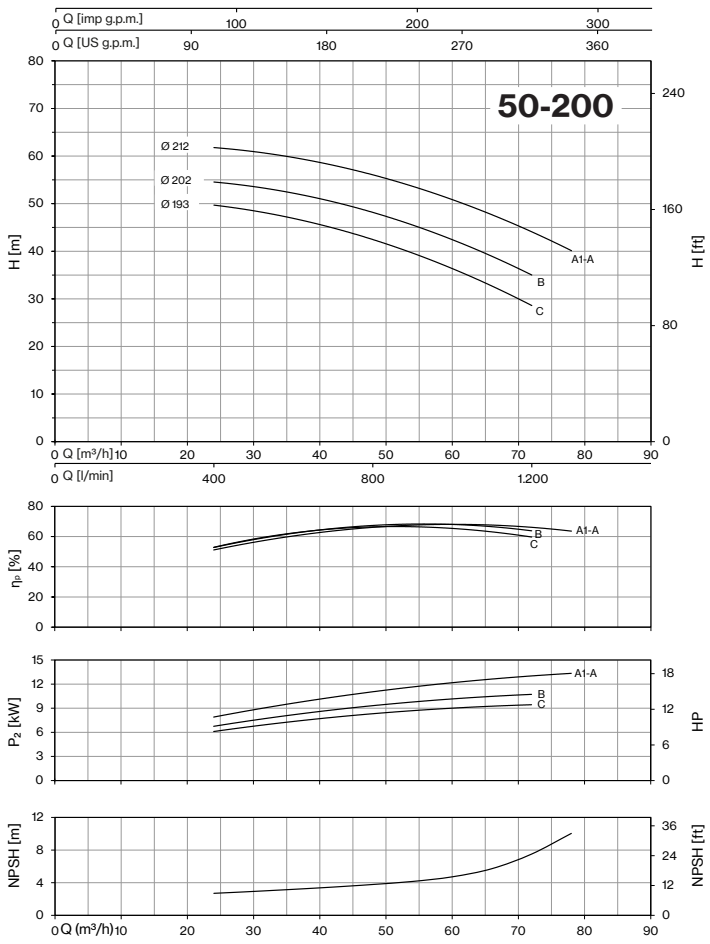


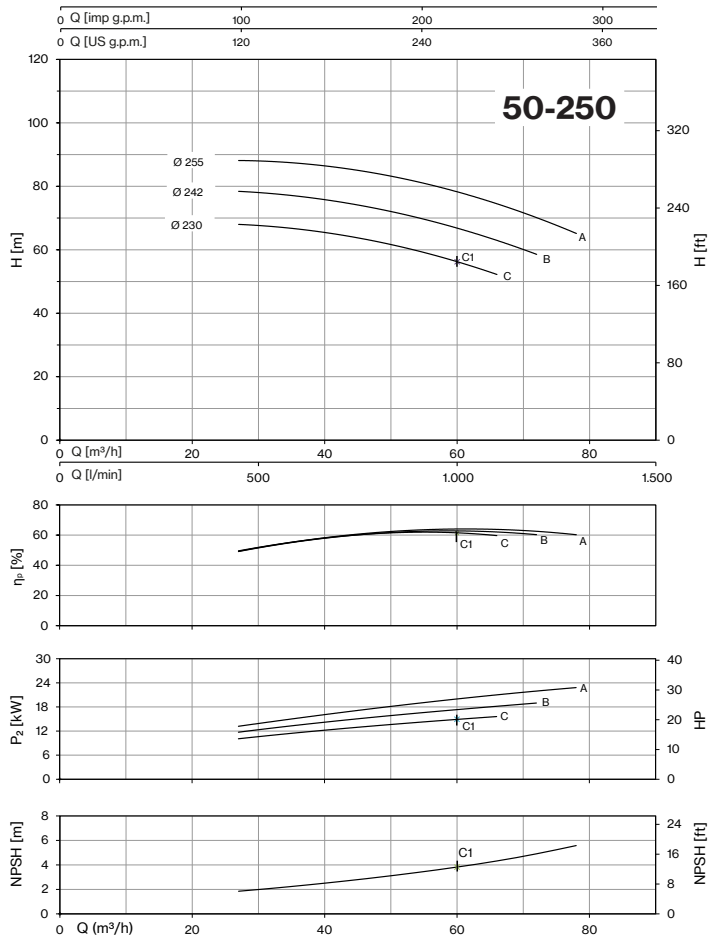


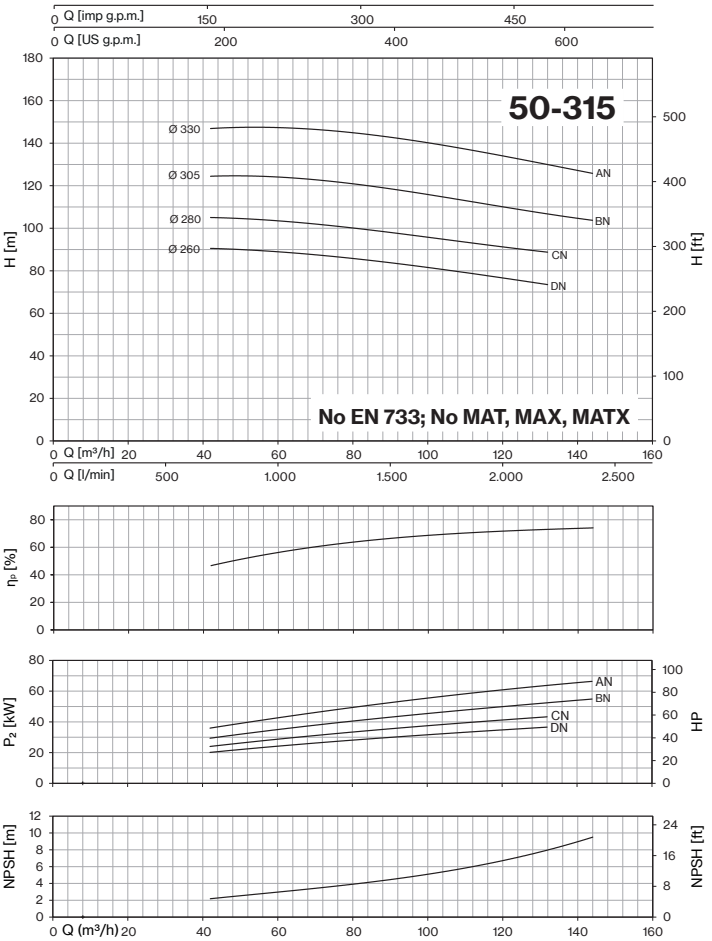


Tolerance: ISO 9906:2012 - Grade 3B
Check pumps availability on page 88-89-90

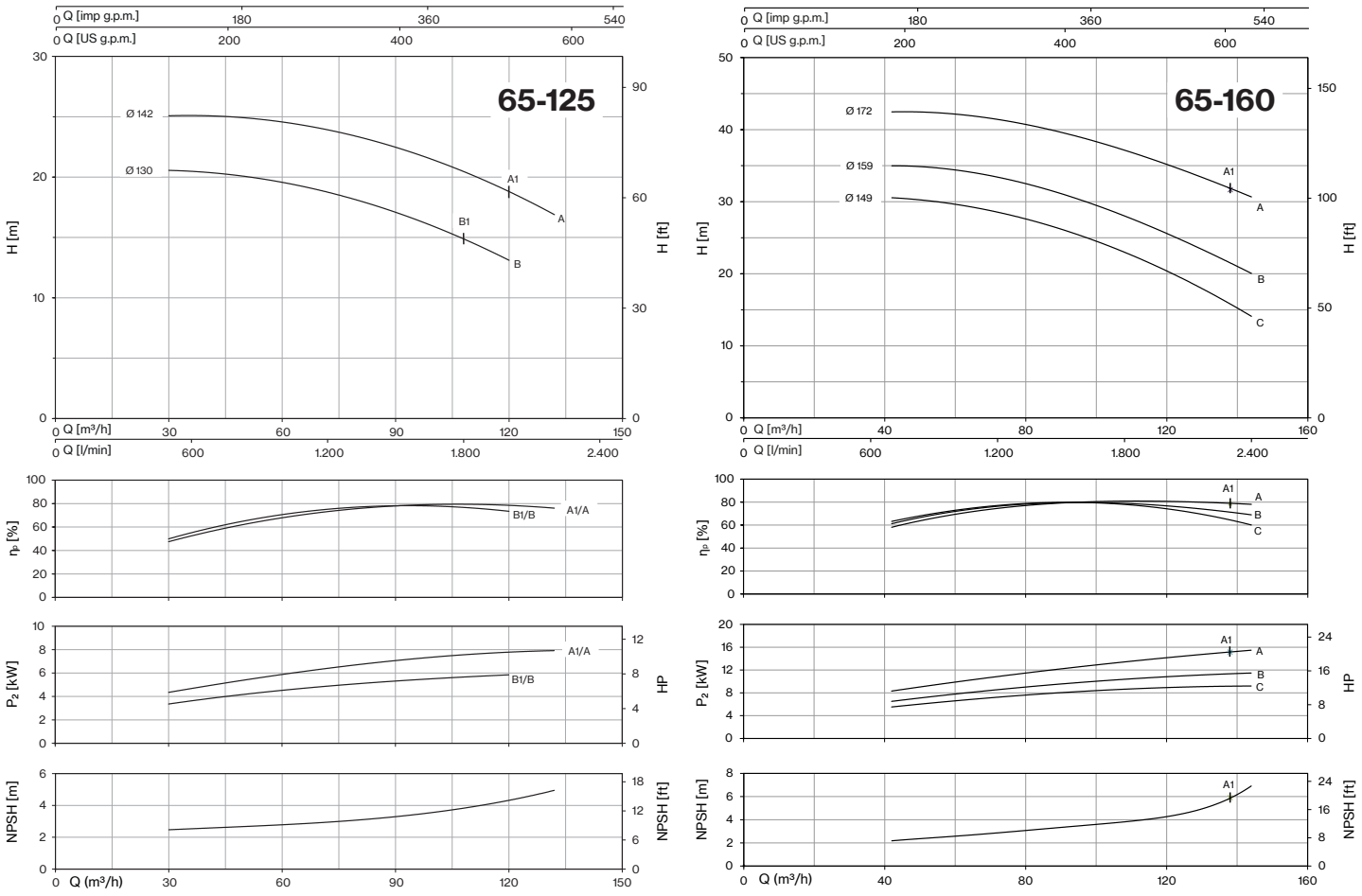

50-160
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 172
Ø 161
A1
A
B1
B
ηp [%]
A1/A
B1/B
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

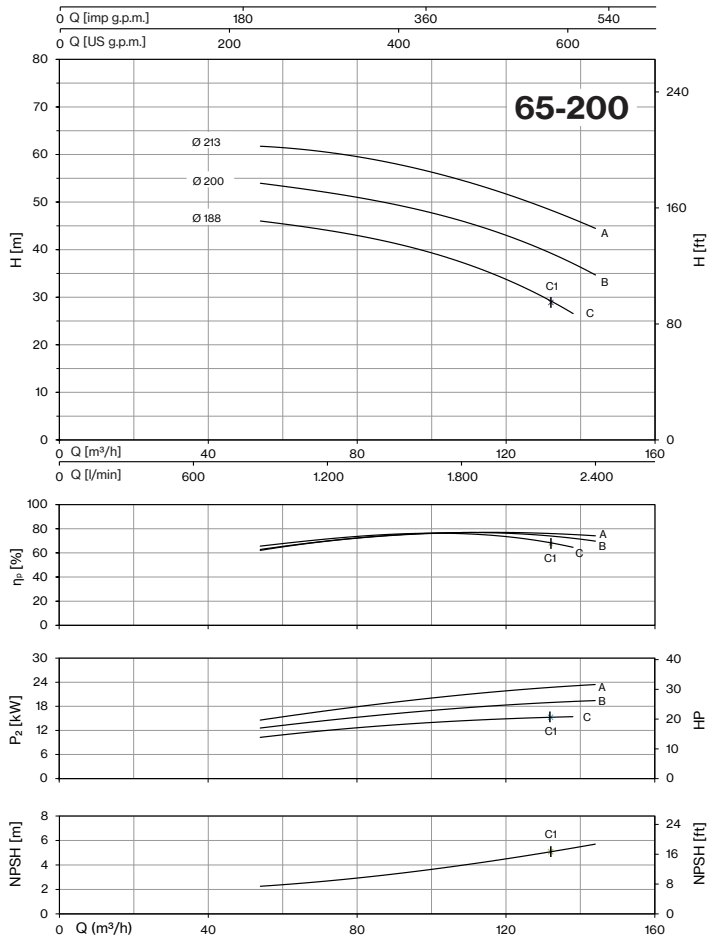

50-200
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 212
Ø 202
Ø 193
A1-A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

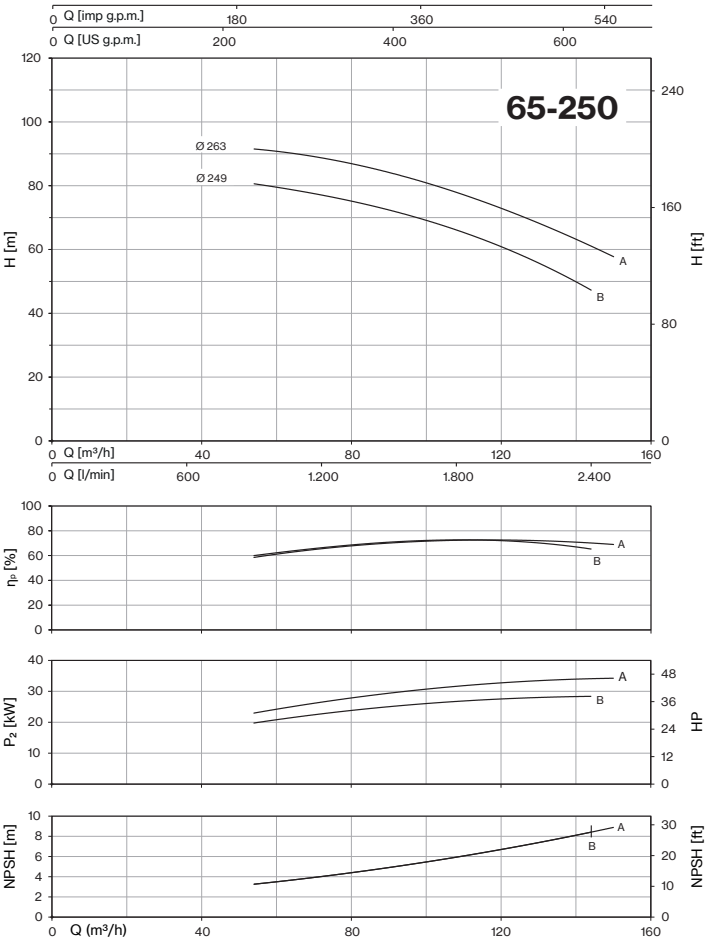

50-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 255
Ø 242
Ø 230
A
B
C1
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


50-315
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 330
Ø 305
Ø 280
Ø 260
AN
BN
CN
DN
No EN 733; No MAT, MAX, MATX
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

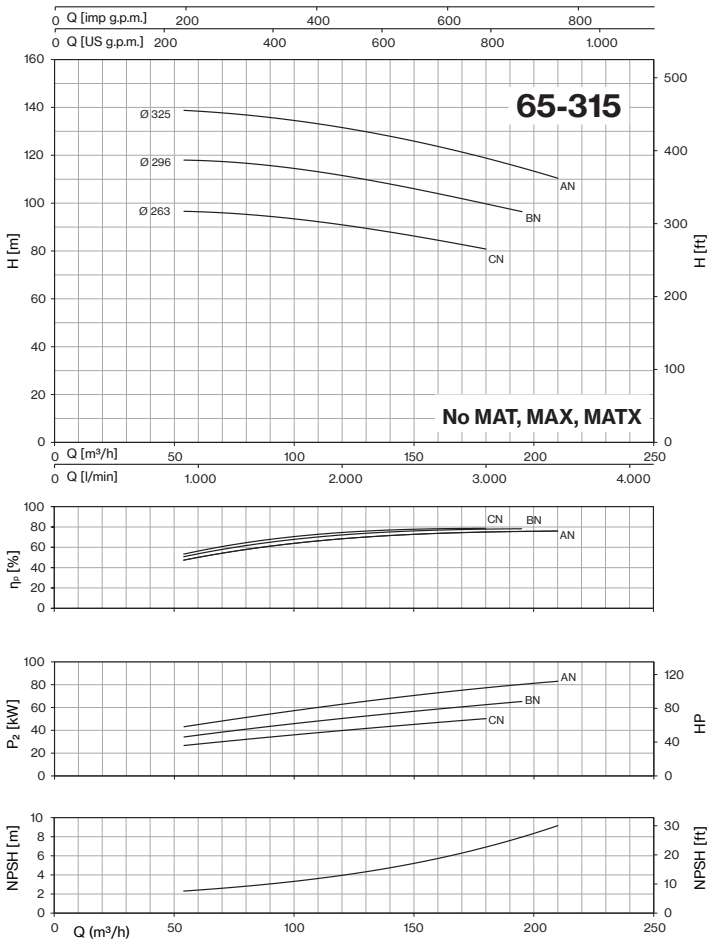
MN-MNG-MNGX-MA-MAX ~ *EN 733*

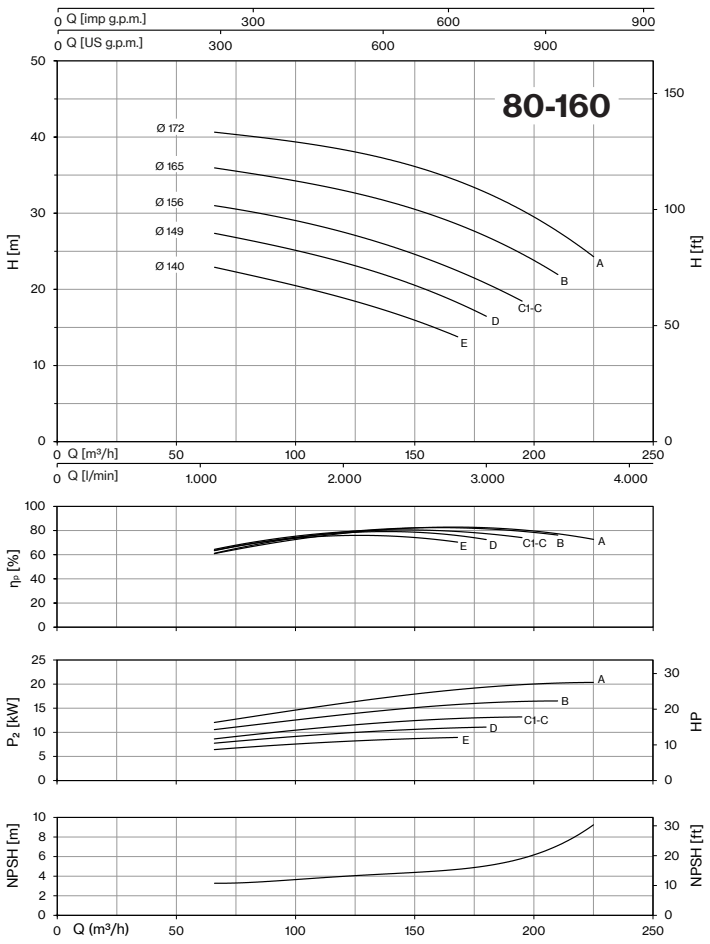


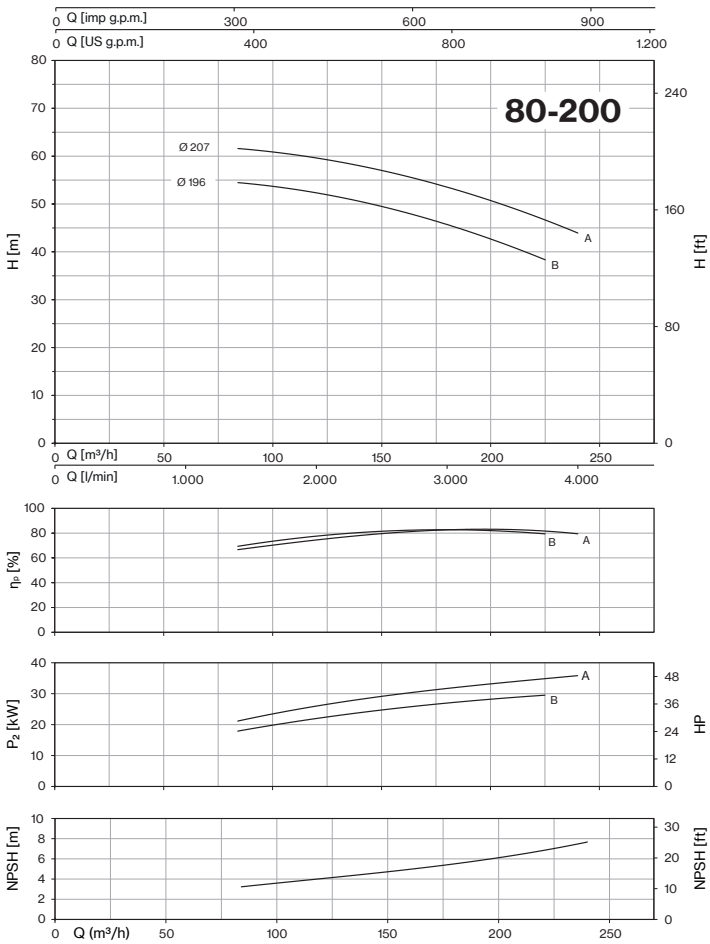


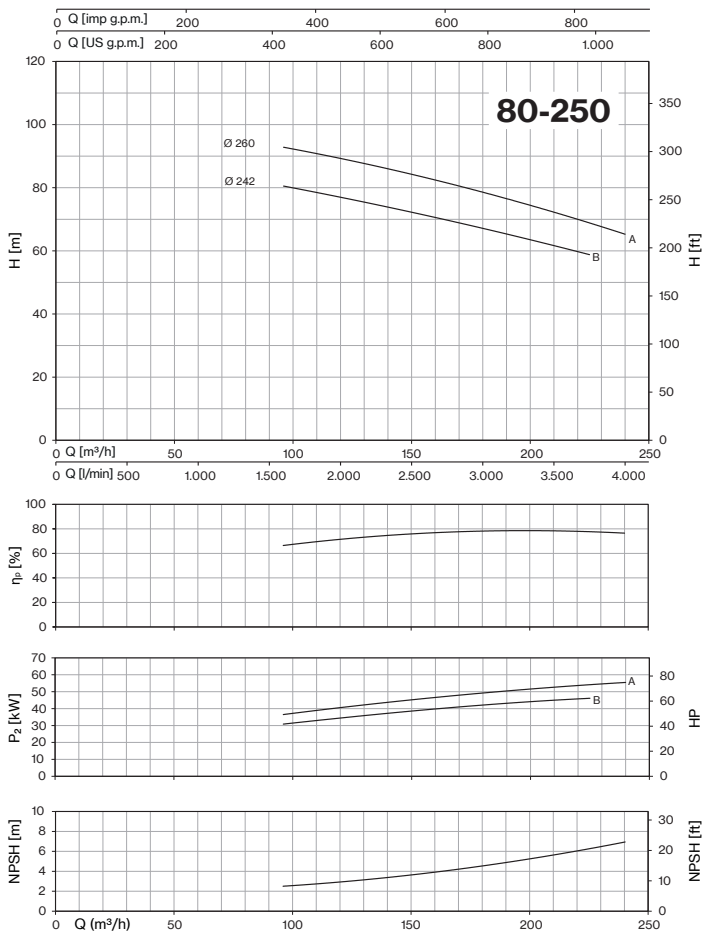


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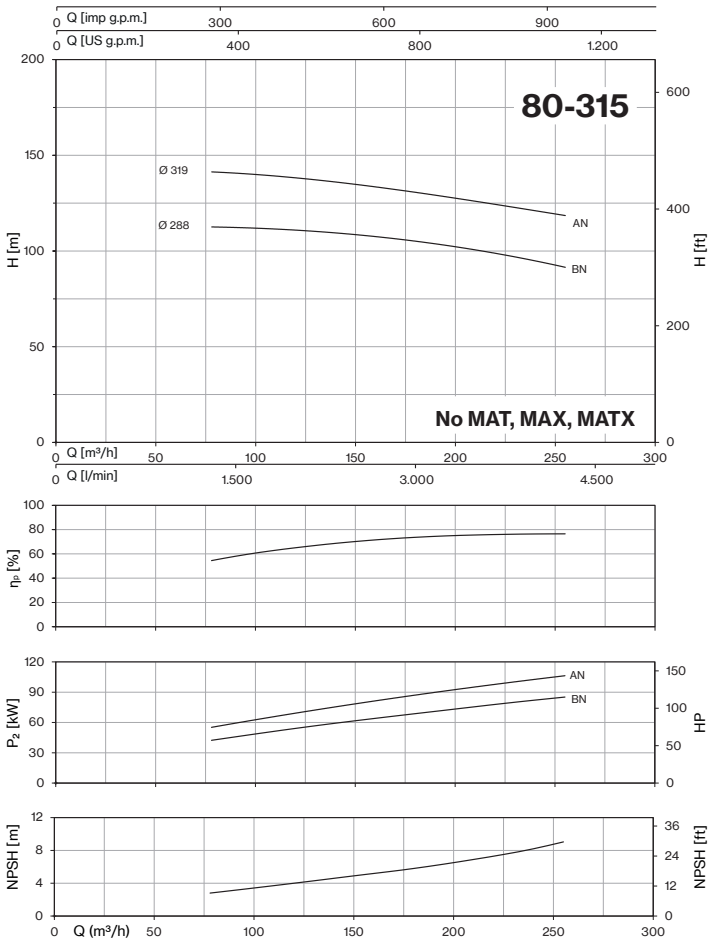


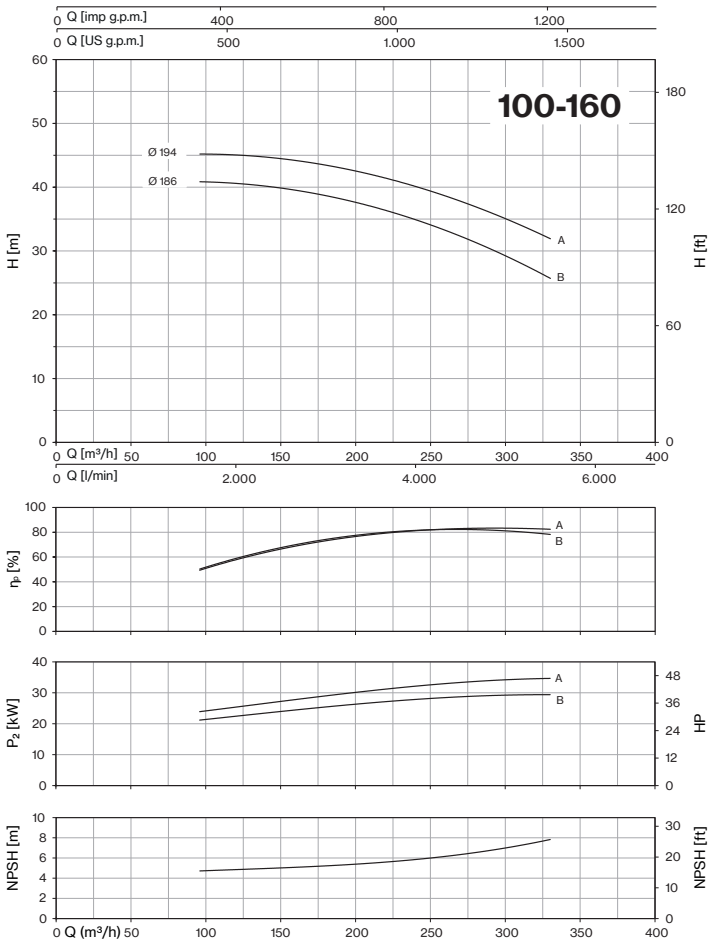


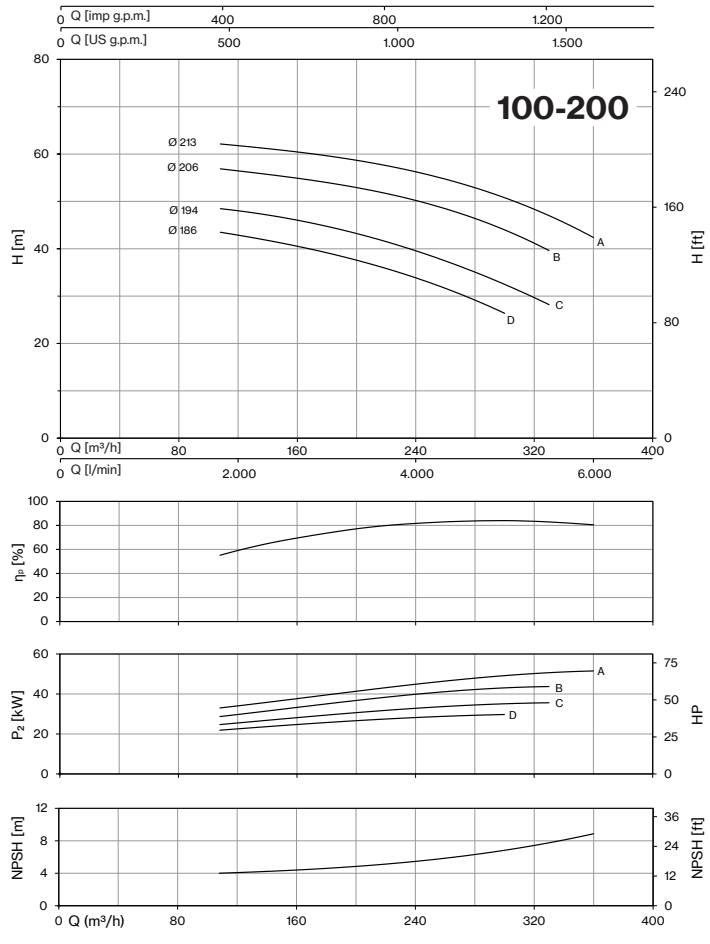


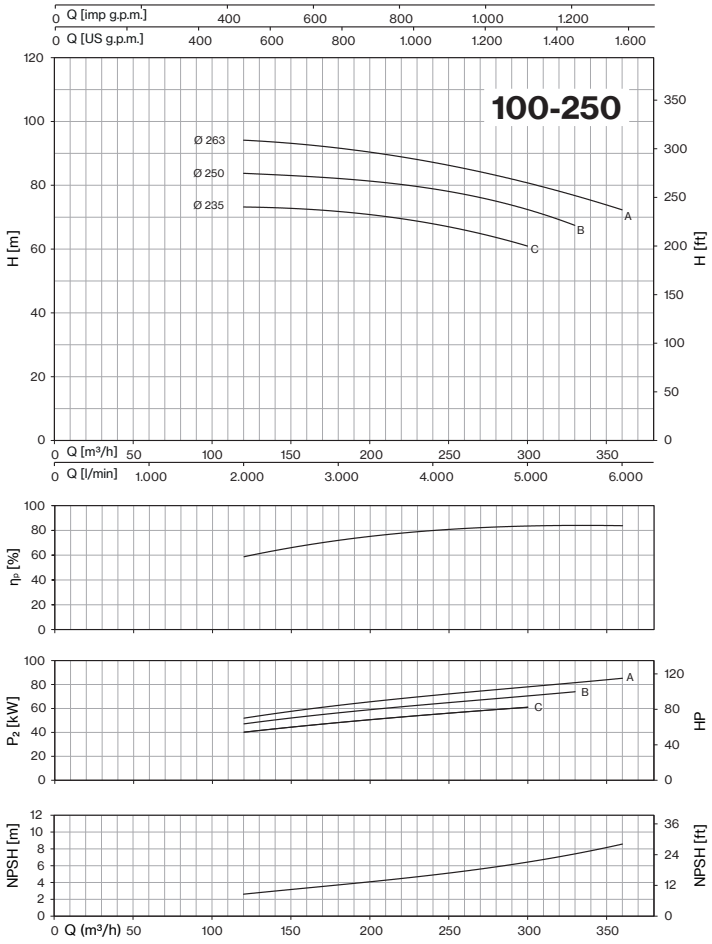
Tolerance: ISO 9906:2012 - Grade 3B
Check pumps availability on page 88-89-90

MN-MNG-MNGX-MA-MAX ~ *EN 733*

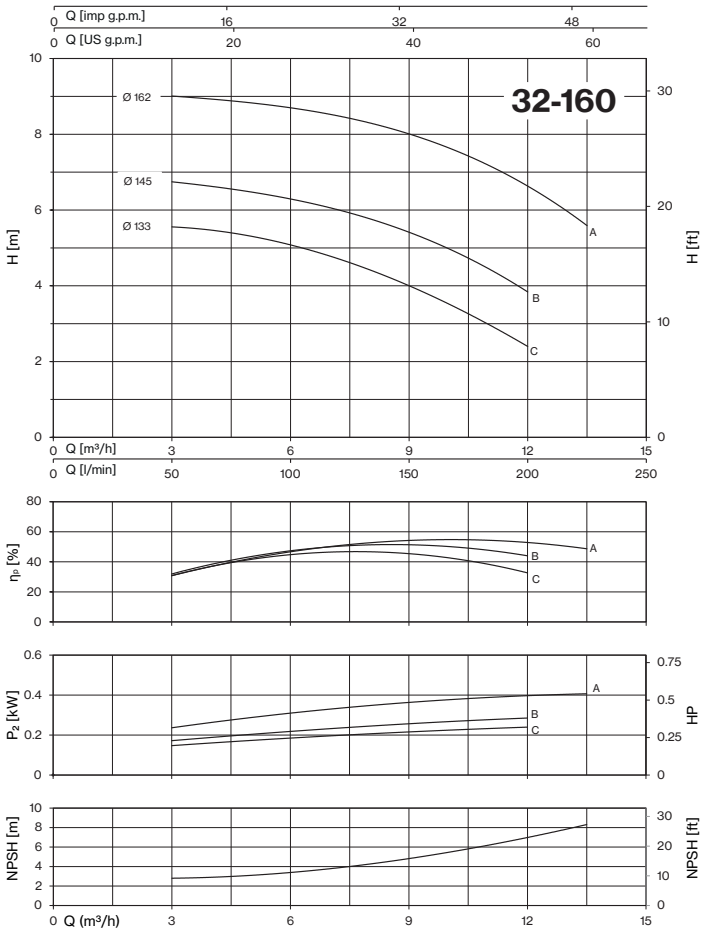


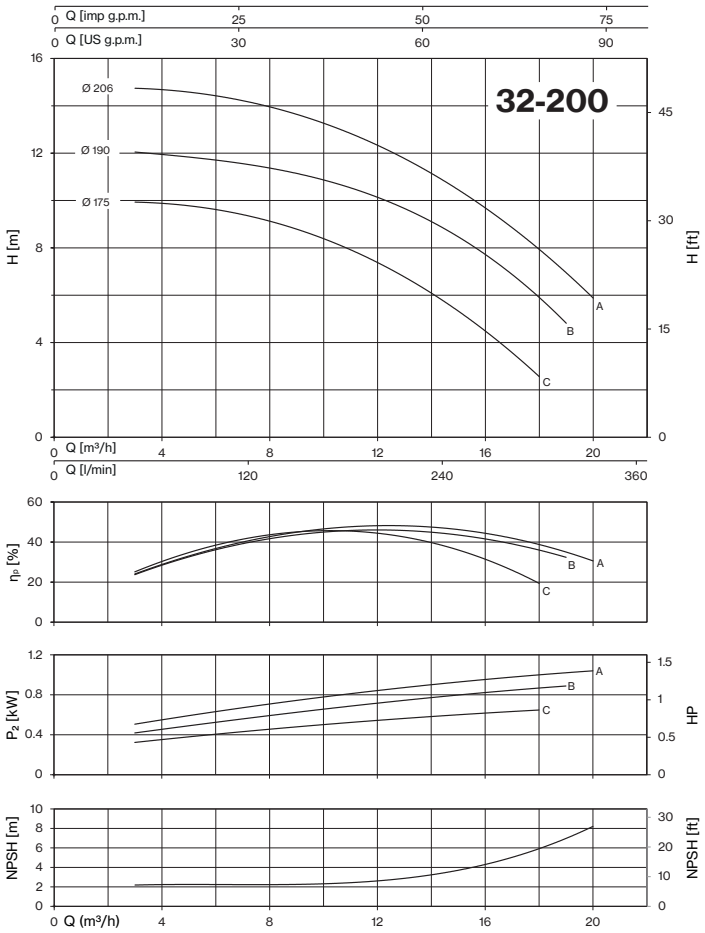


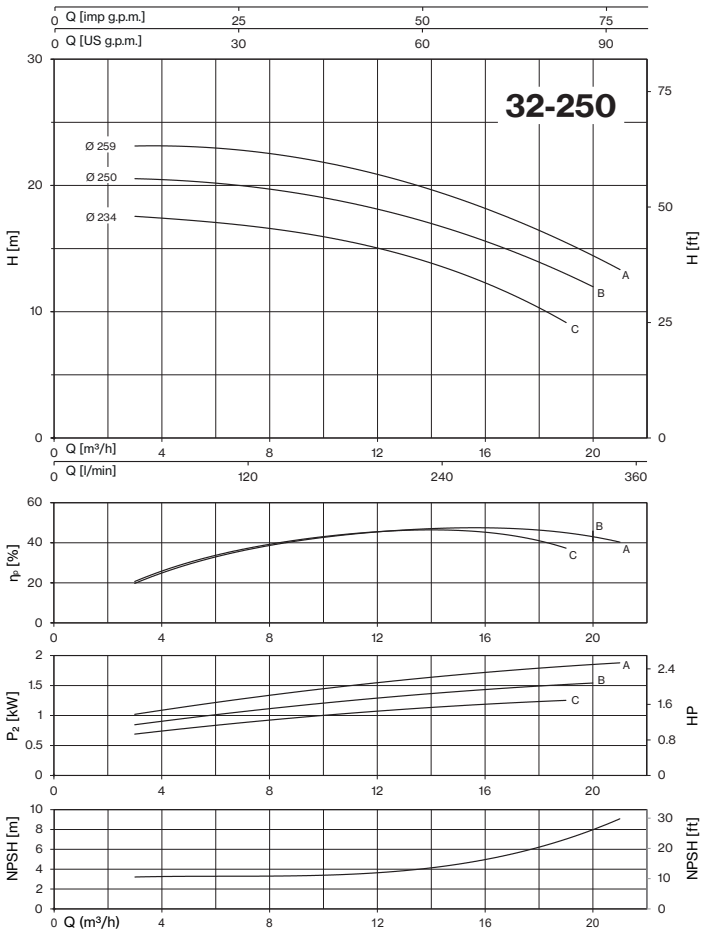


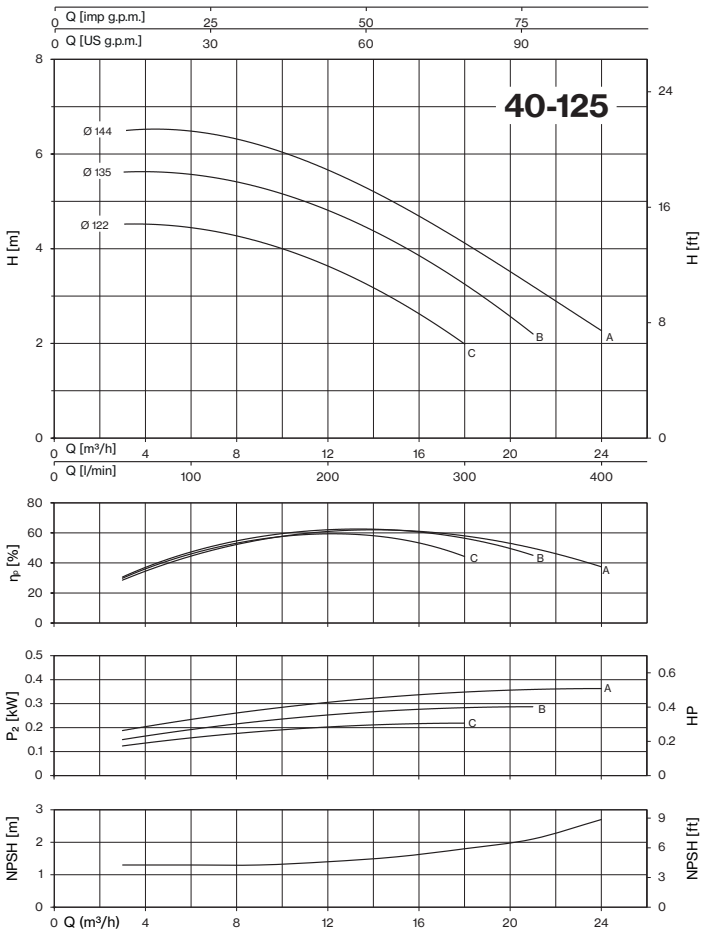


Tolerance: ISO 9906:2012 - Grade 3B
Check pumps availability on page 88-89-90

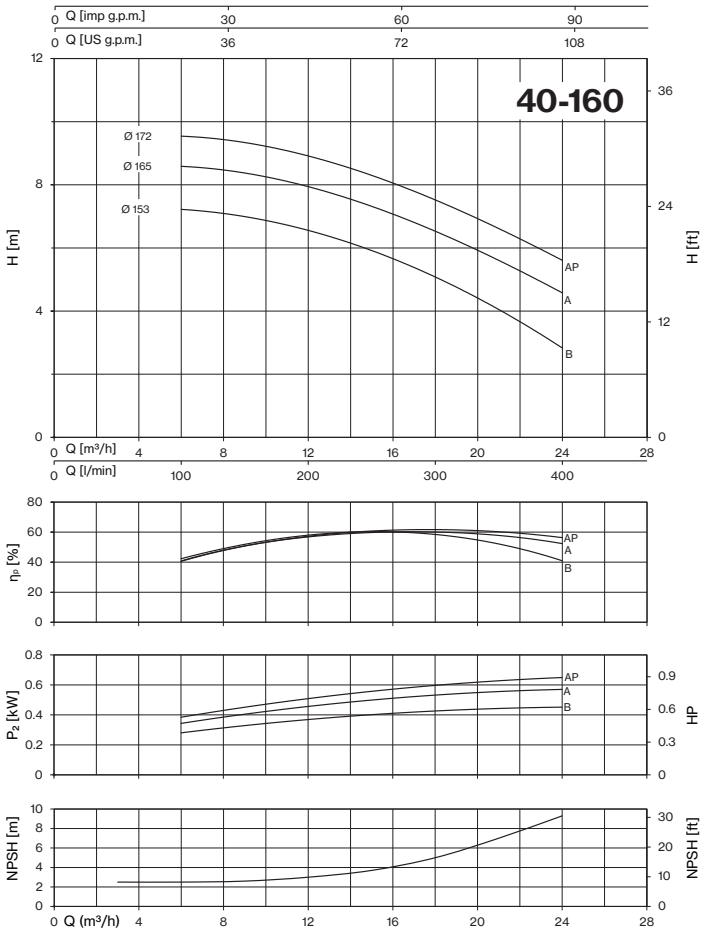

32-160
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 162
Ø 145
Ø 133
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

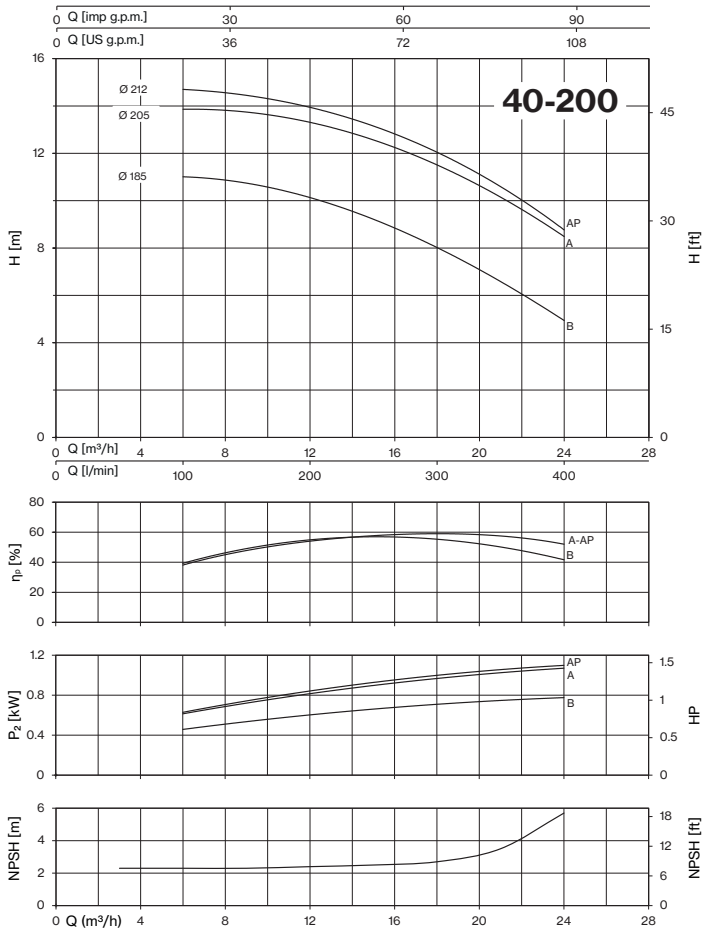

32-200
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 206
Ø 190
Ø 175
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

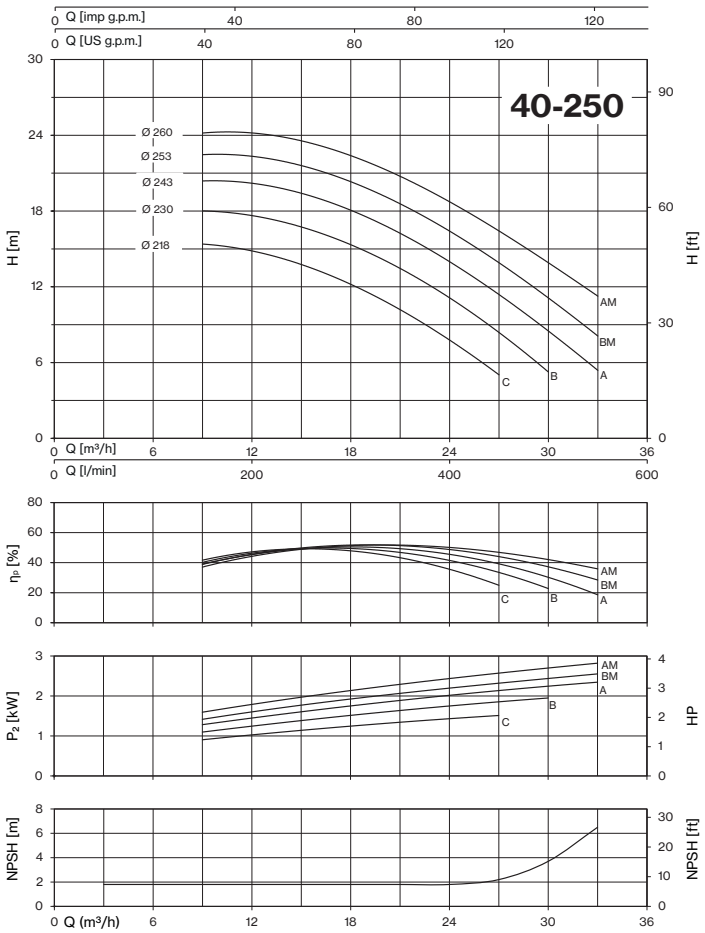

32-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 259
Ø 250
Ø 234
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

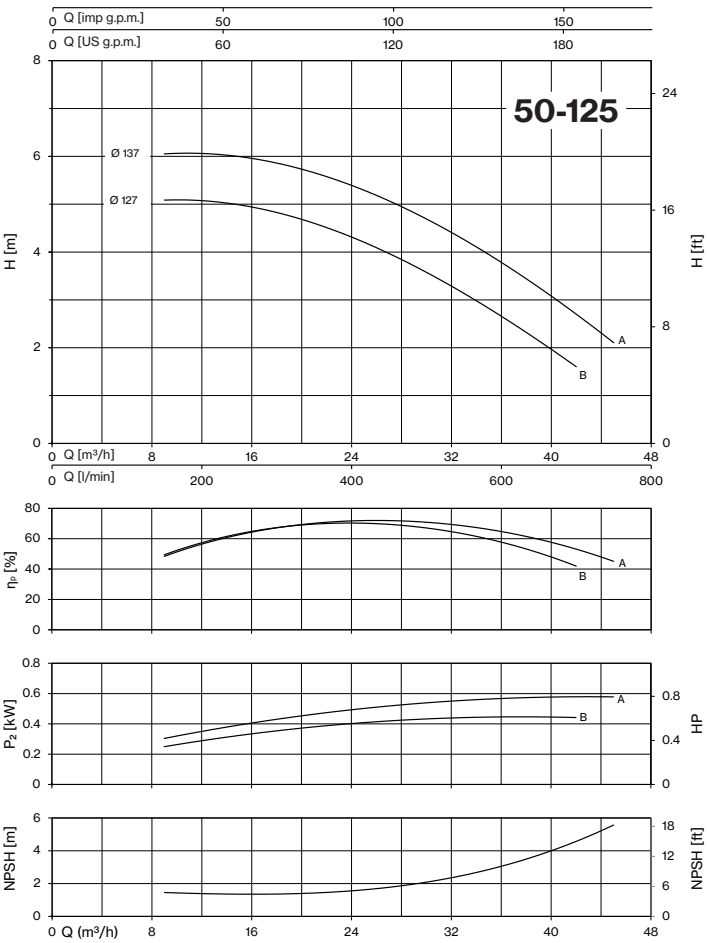

40-125
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 144
Ø 135
Ø 122
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

4MA-4MAX ~ *EN 733*

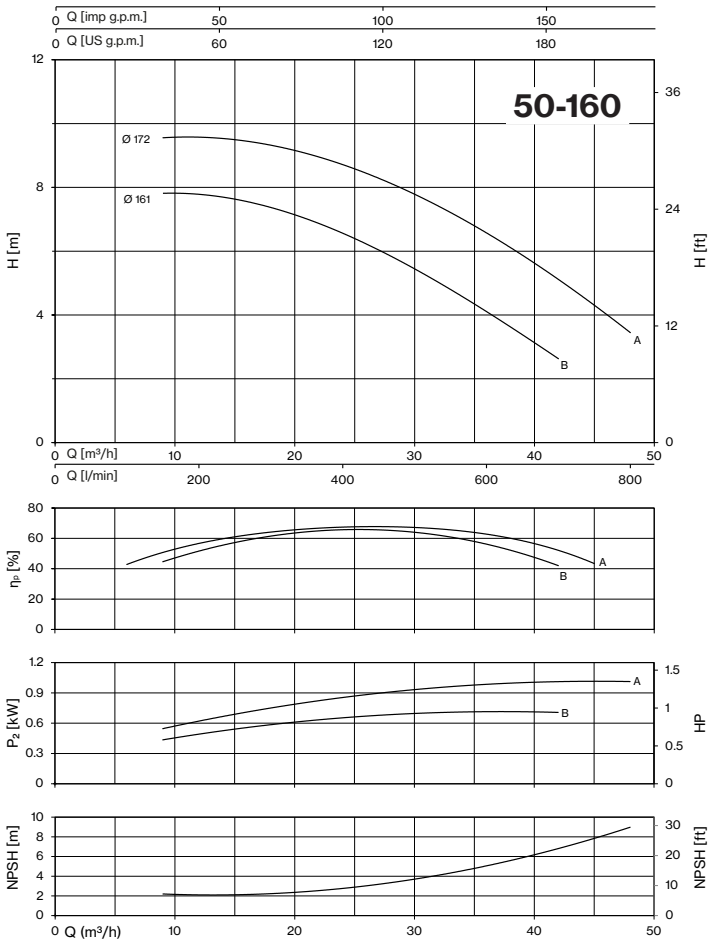


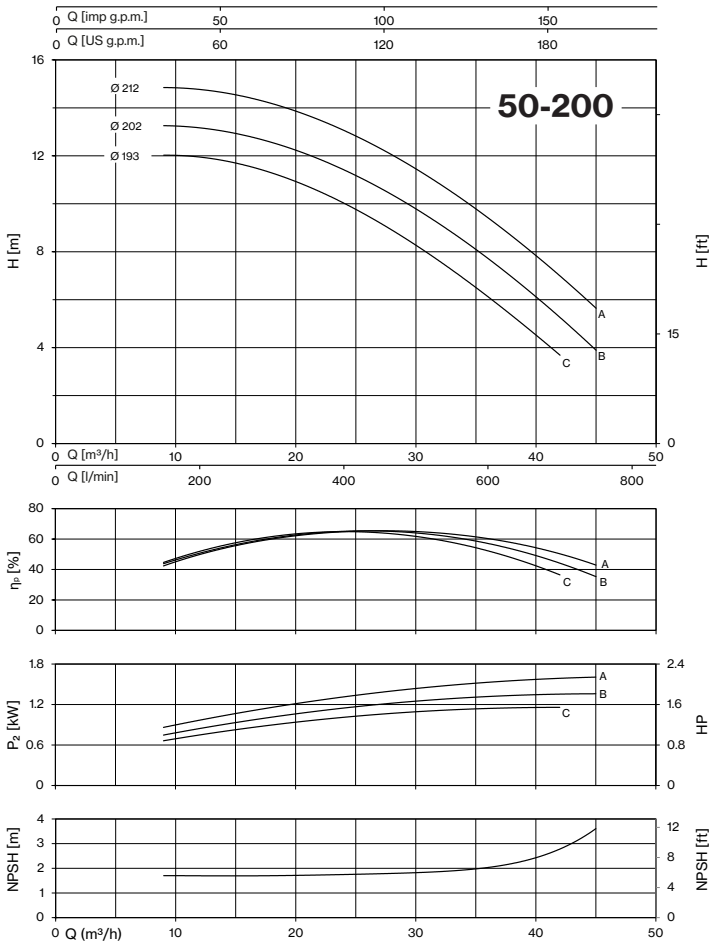


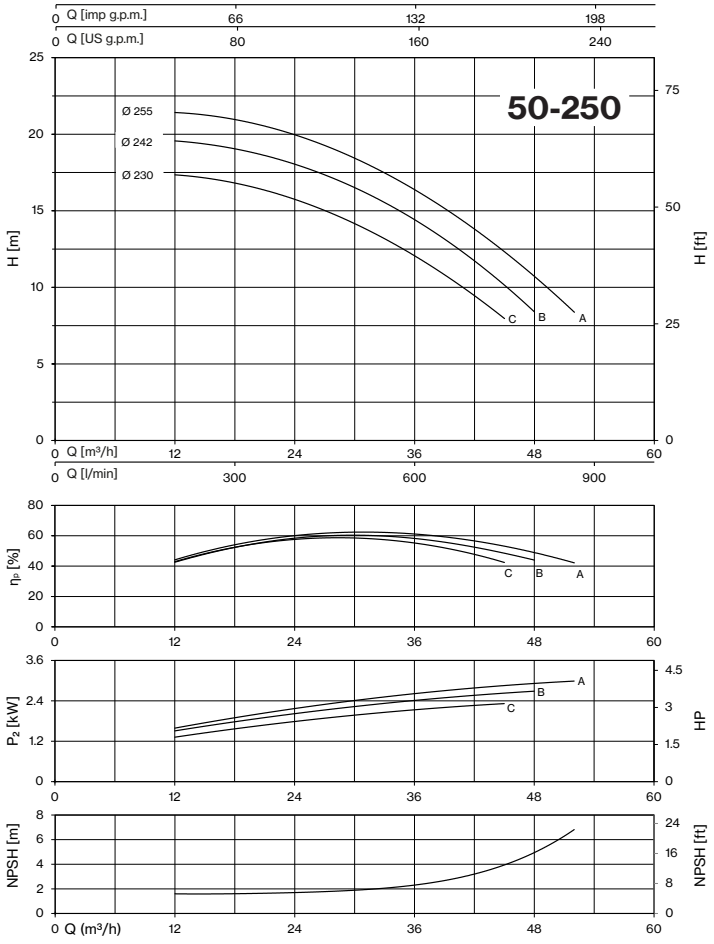


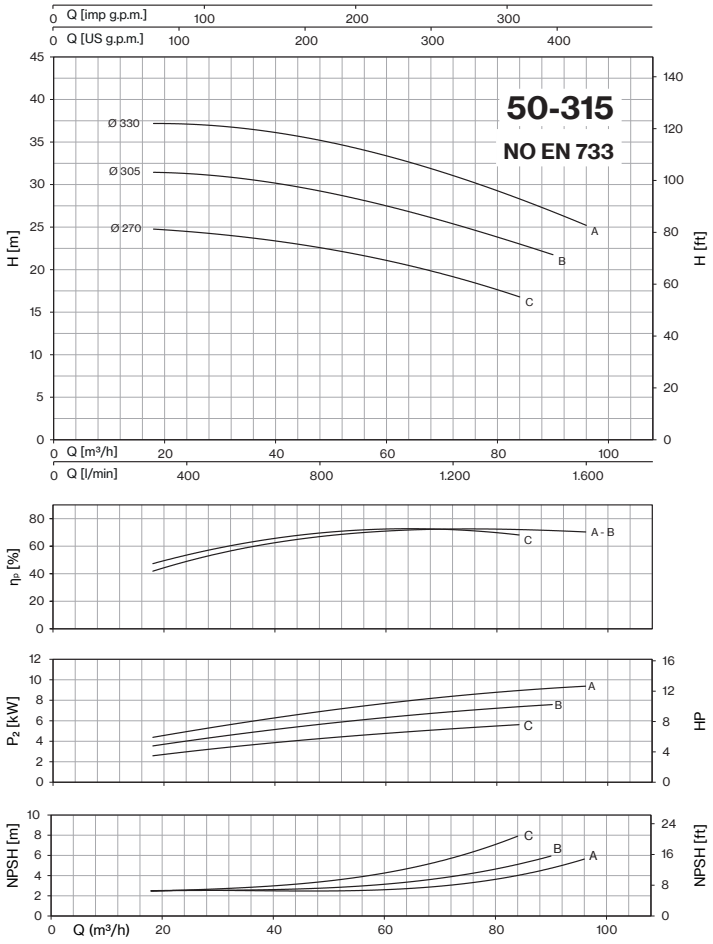


Tolerance: ISO 9906:2012 - Grade 3B
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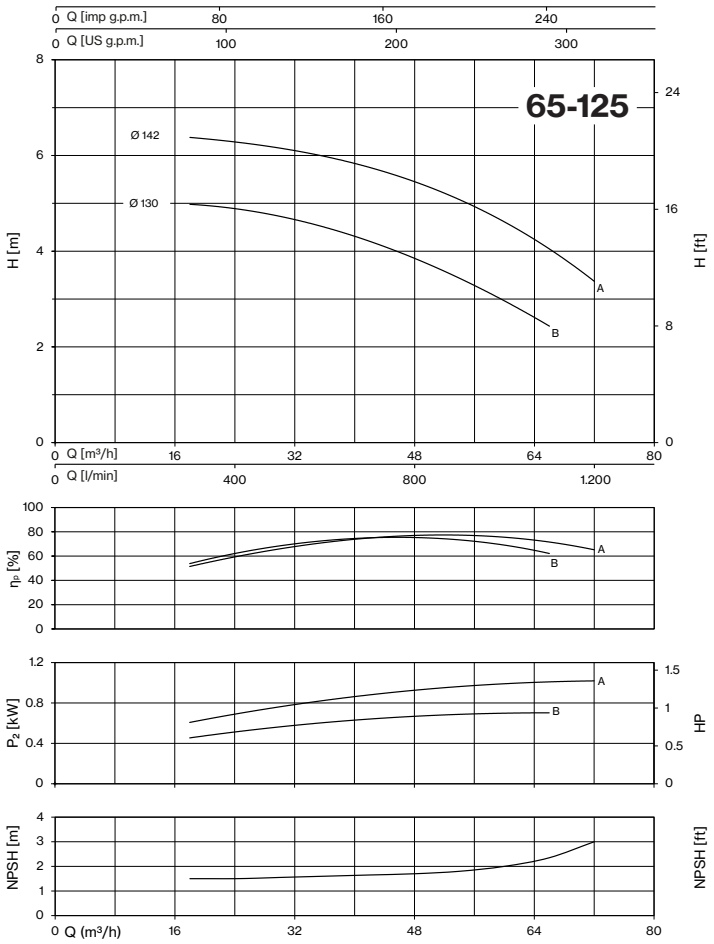

50-160
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 172
Ø 161
A
B
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

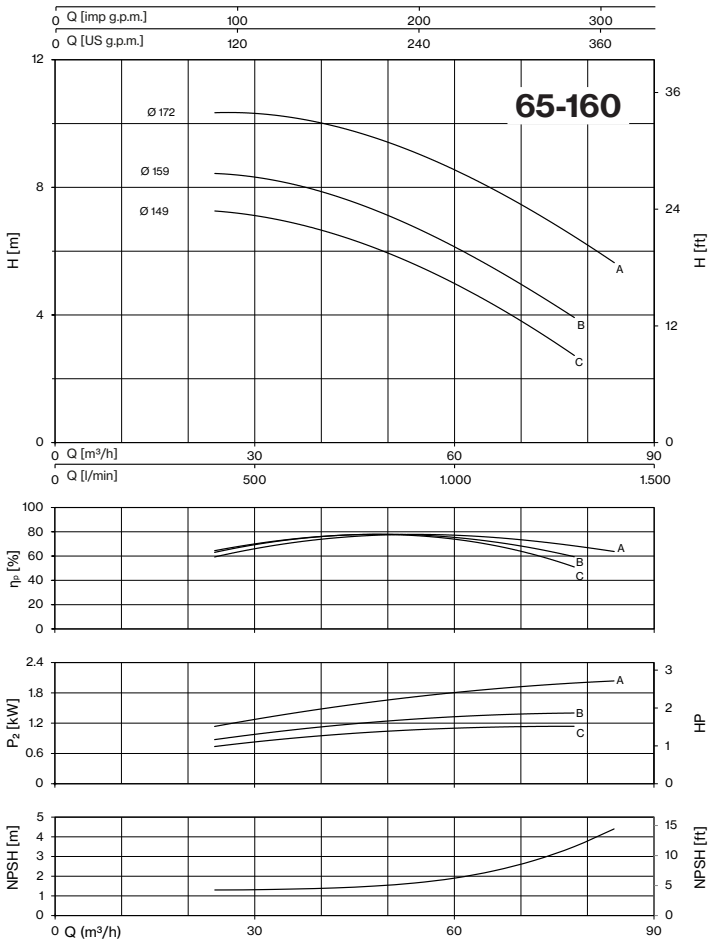

50-200
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 212
Ø 202
Ø 193
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

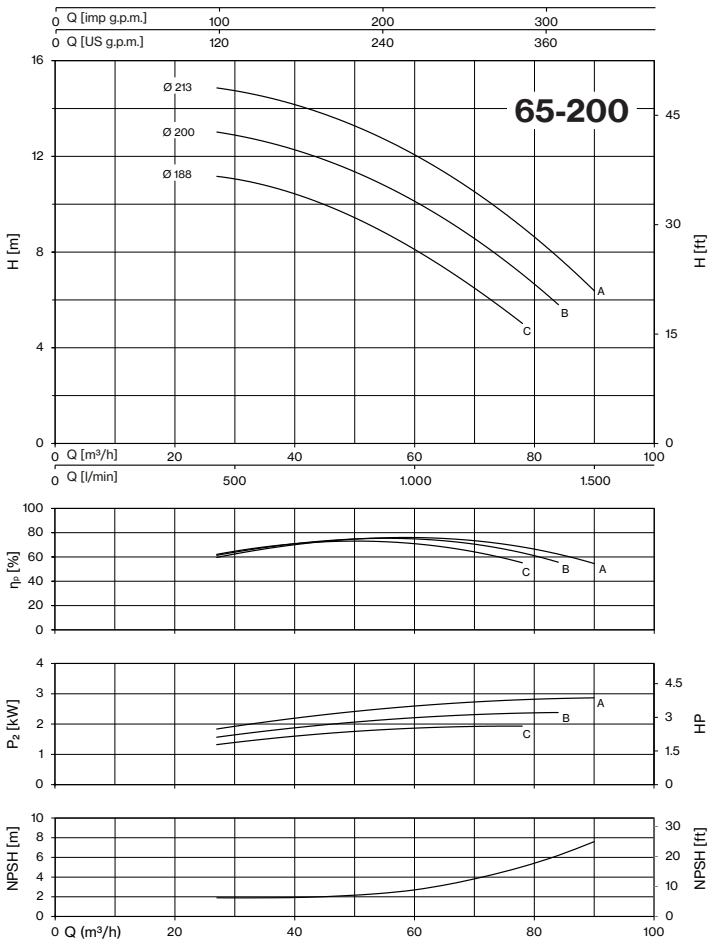

50-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 255
Ø 242
Ø 230
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

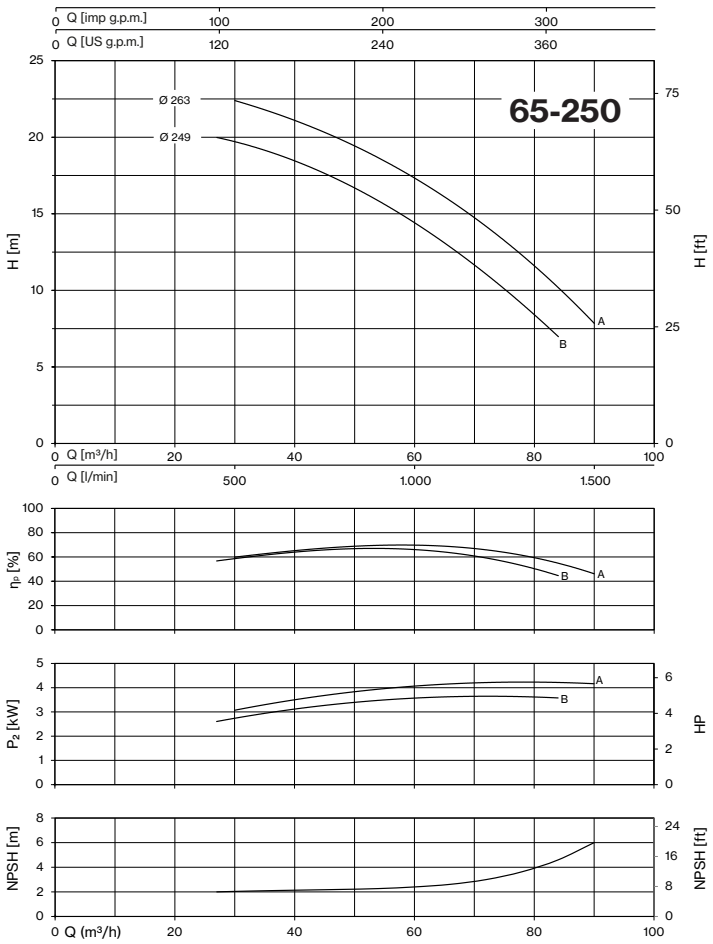

50-315
NO EN 733
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 330
Ø 305
Ø 270
A
B
C
A - B
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

4MA-4MAX ~ *EN 733*

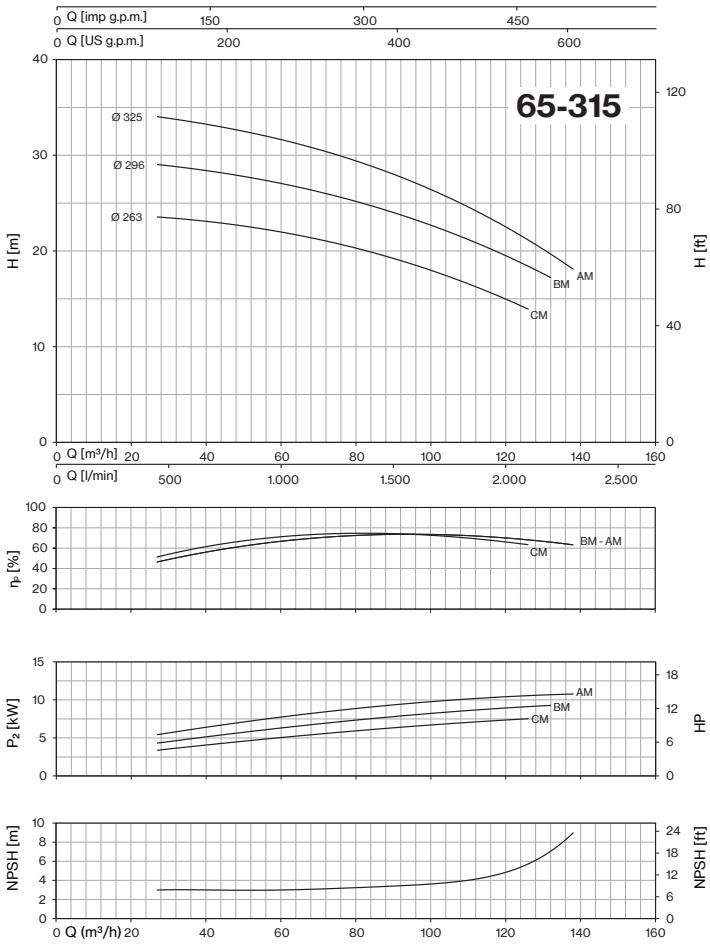


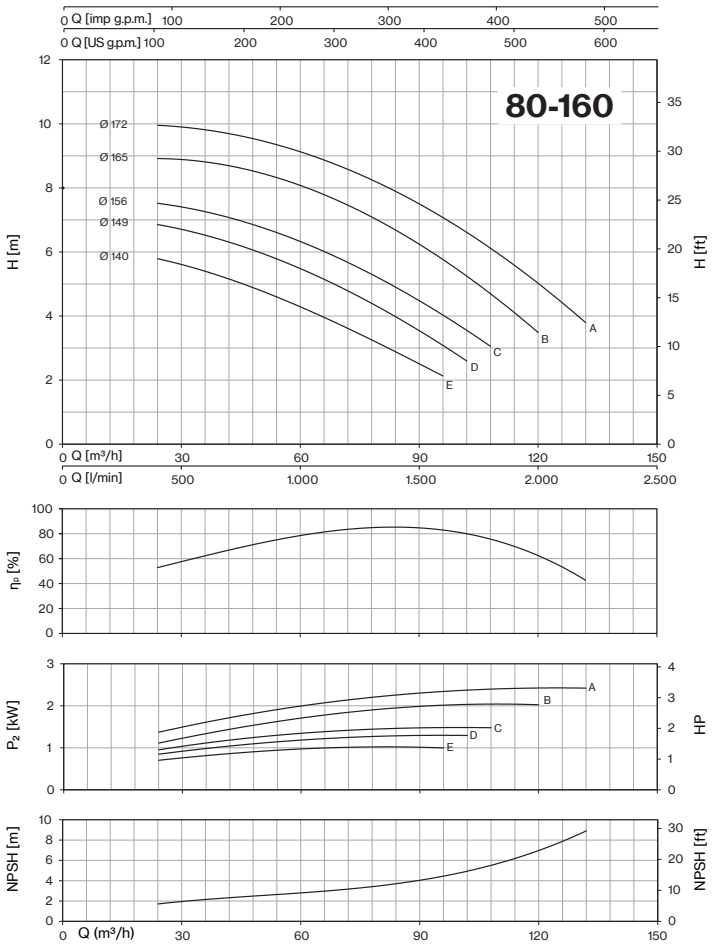


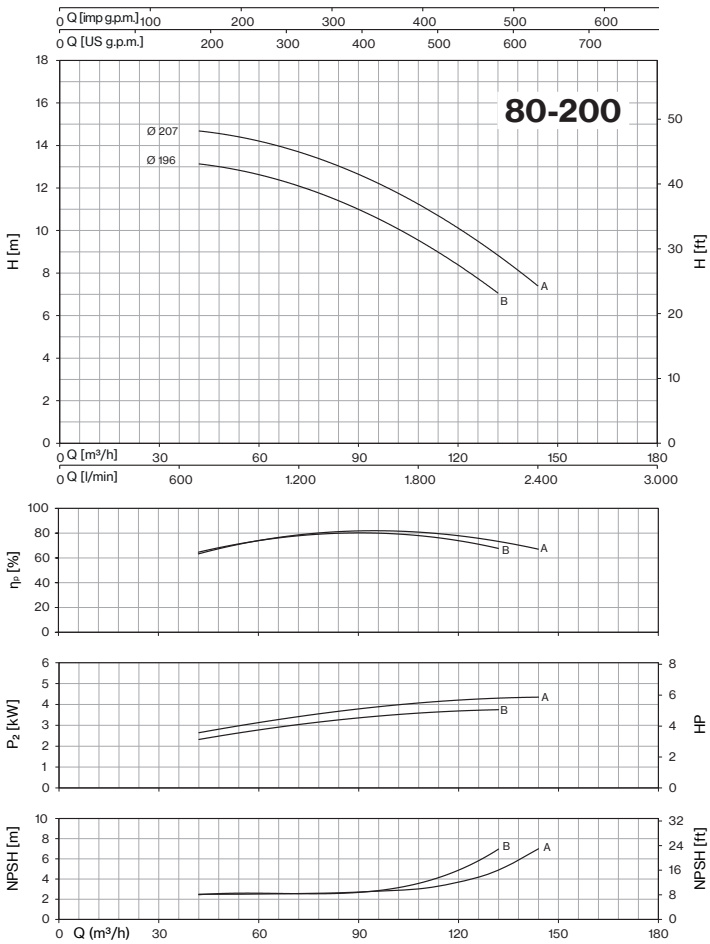


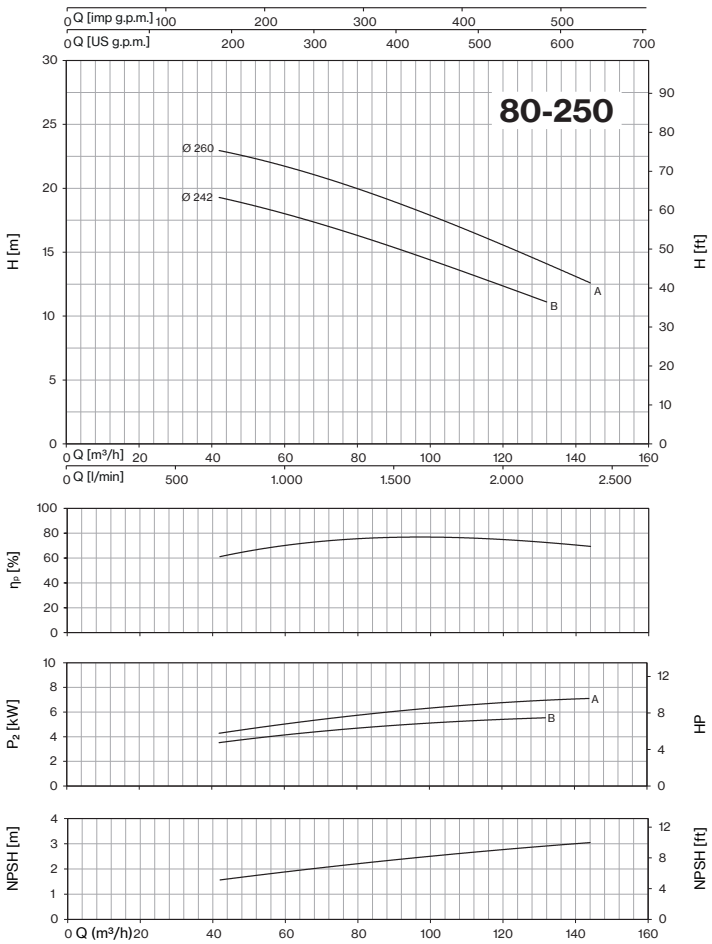


Tolerance: ISO 9906:2012 - Grade 3B
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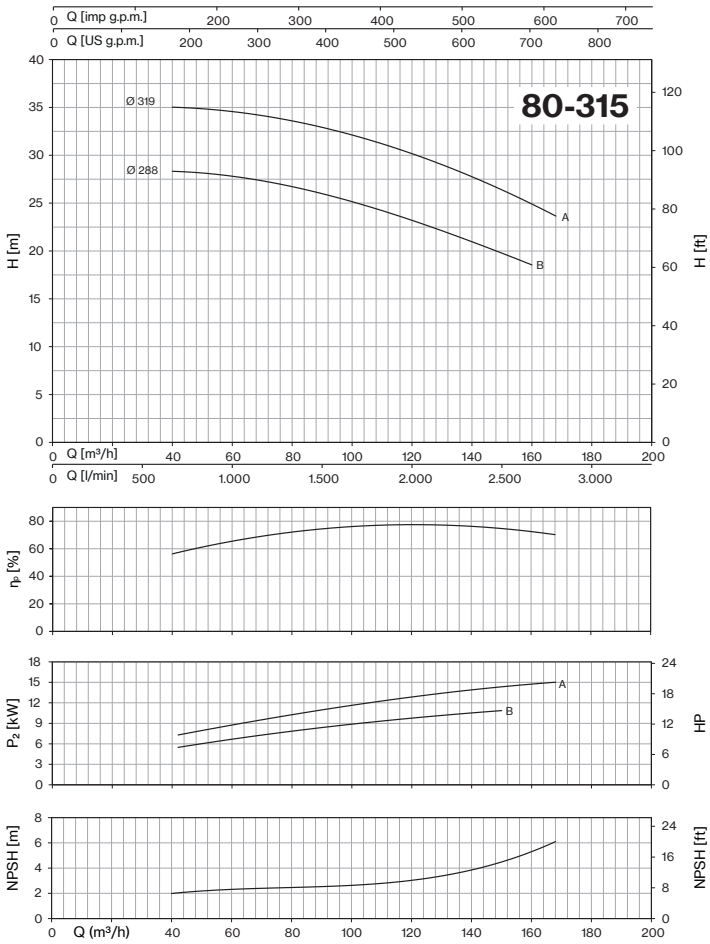

65-315
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 325
Ø 296
Ø 263
AM
BM
CM
ηp [%]
BM - AM
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

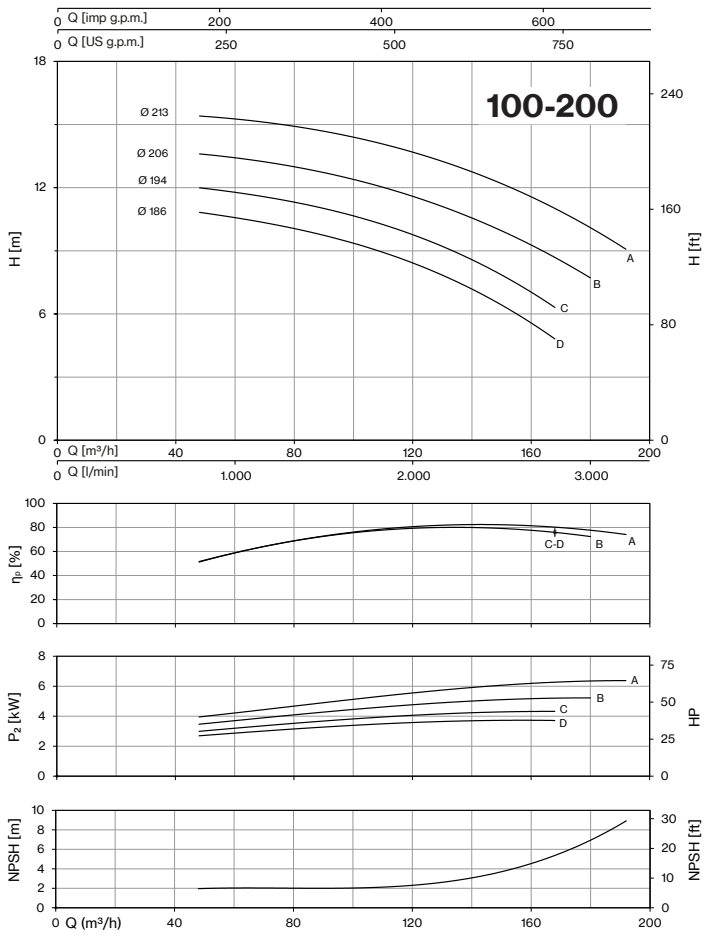

80-160
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 172
Ø 165
Ø 156
Ø 149
Ø 140
A
B
C
D
E
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

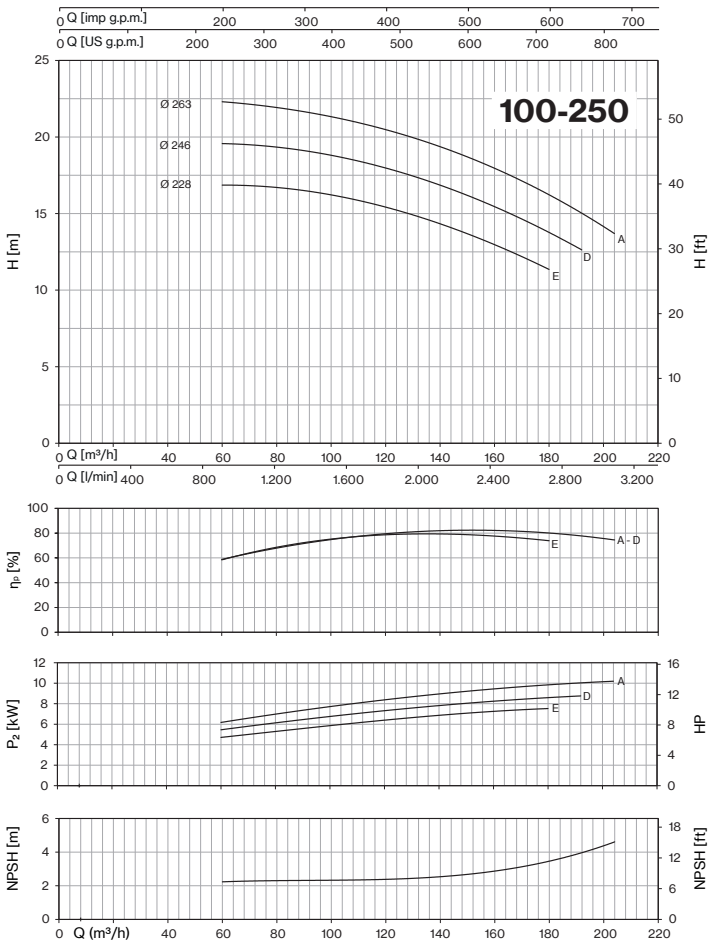

80-200
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 207
Ø 196
A
B
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

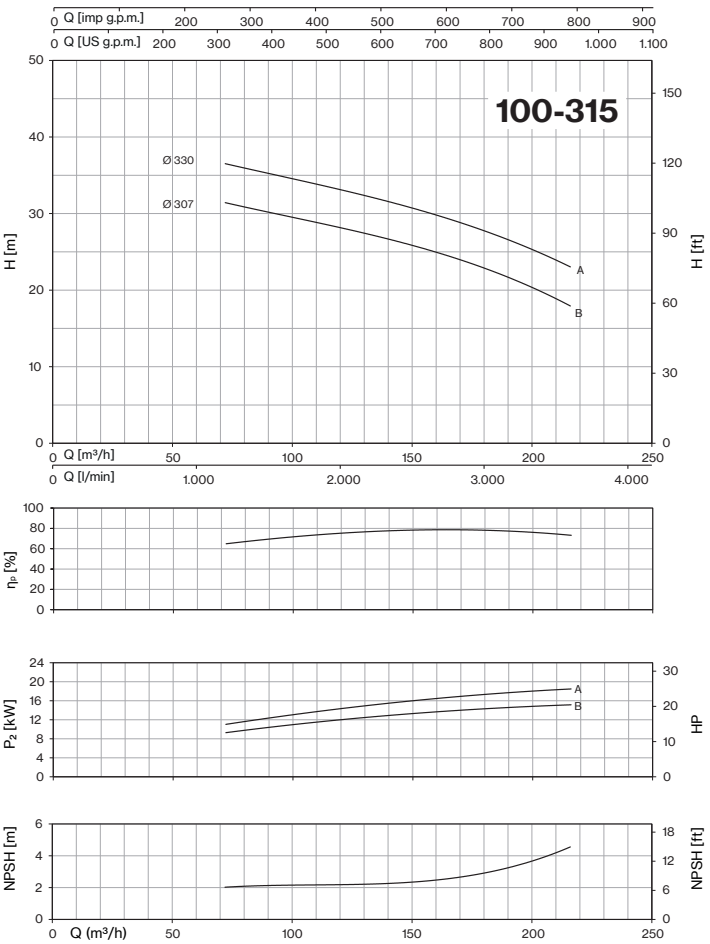

80-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 260
Ø 242
A
B
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

4MA-4MAX ~ *EN 733*



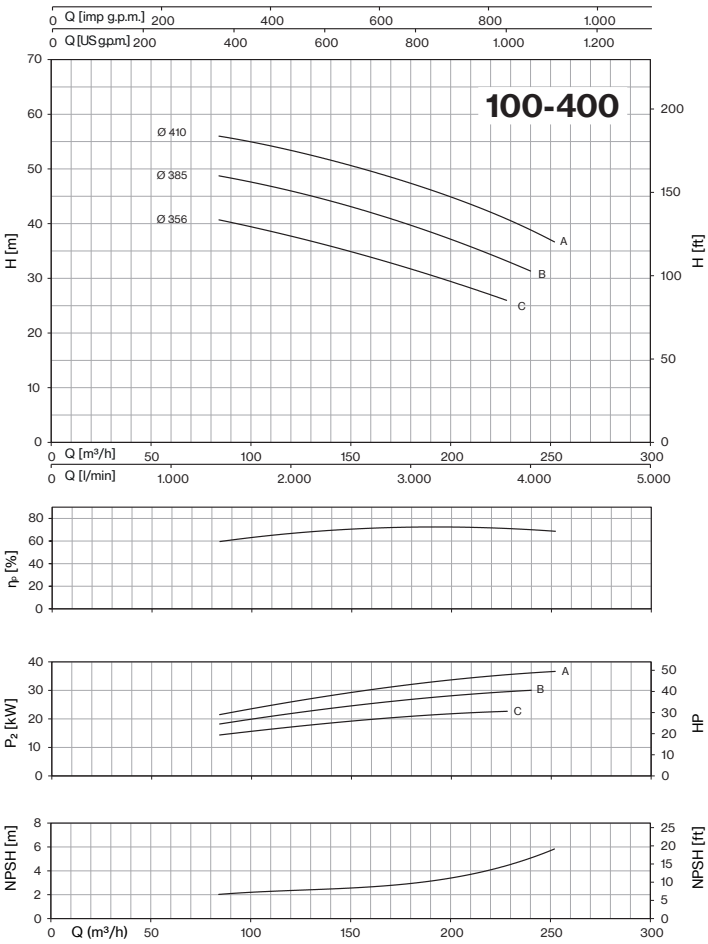


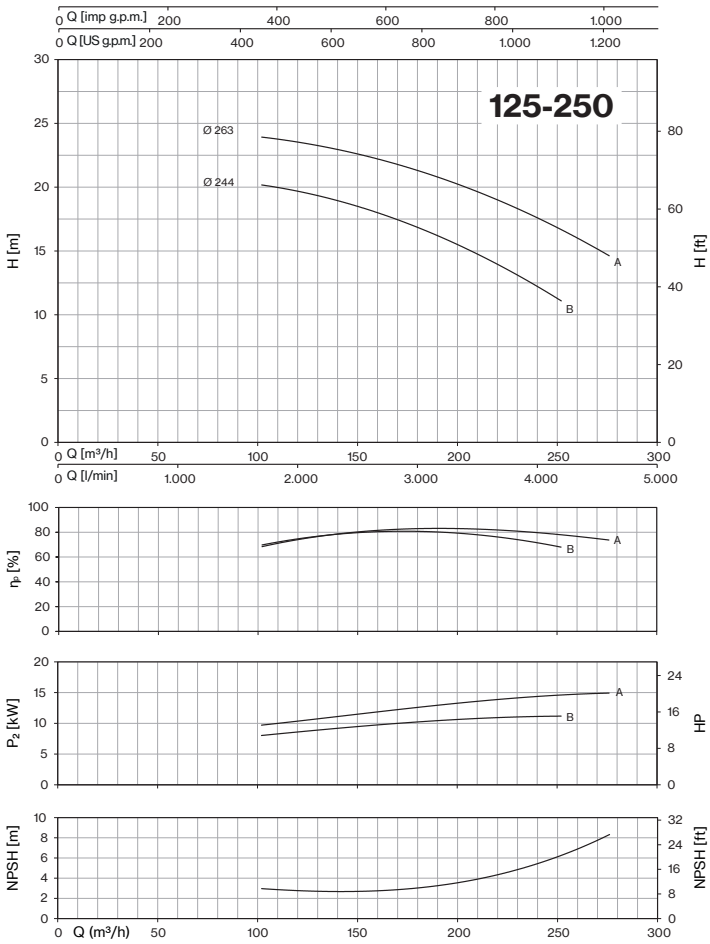


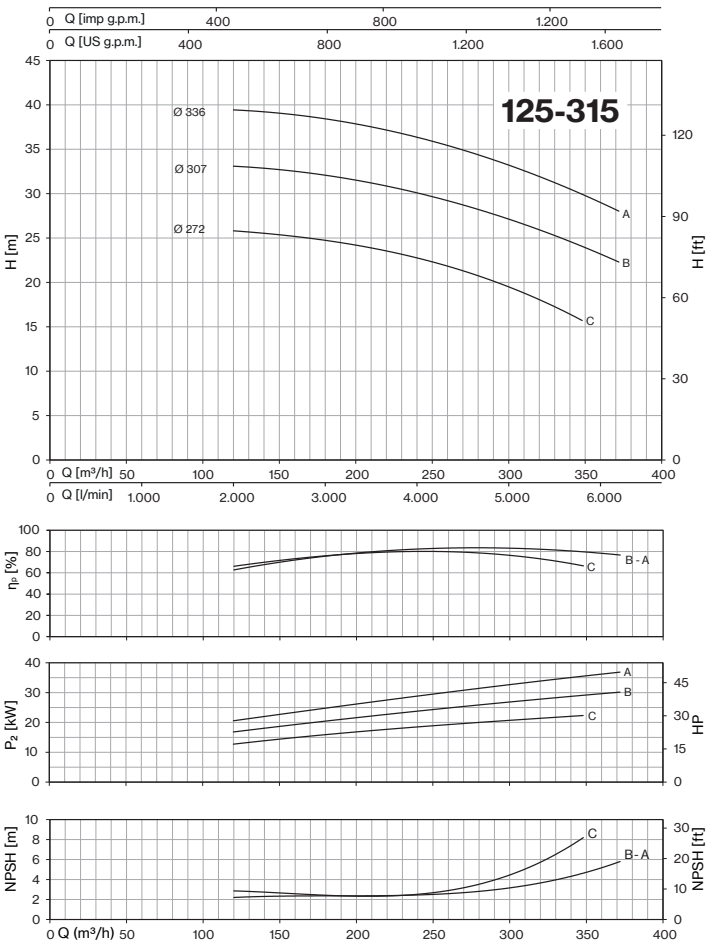


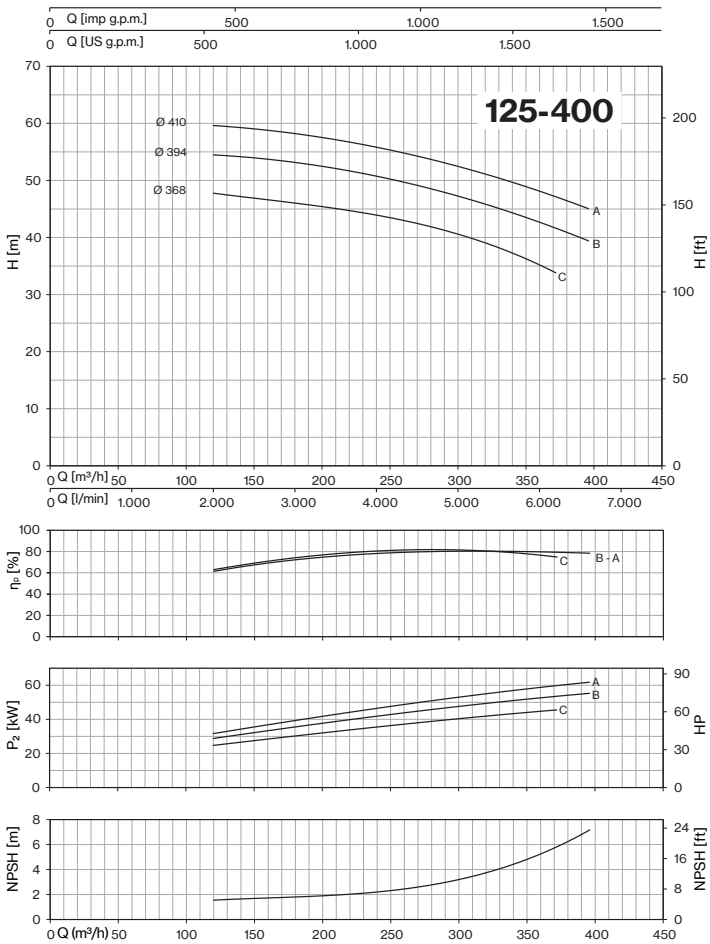
Tolerance: ISO 9906:2012 - Grade 3B

Check pumps availability on page 88-89-90

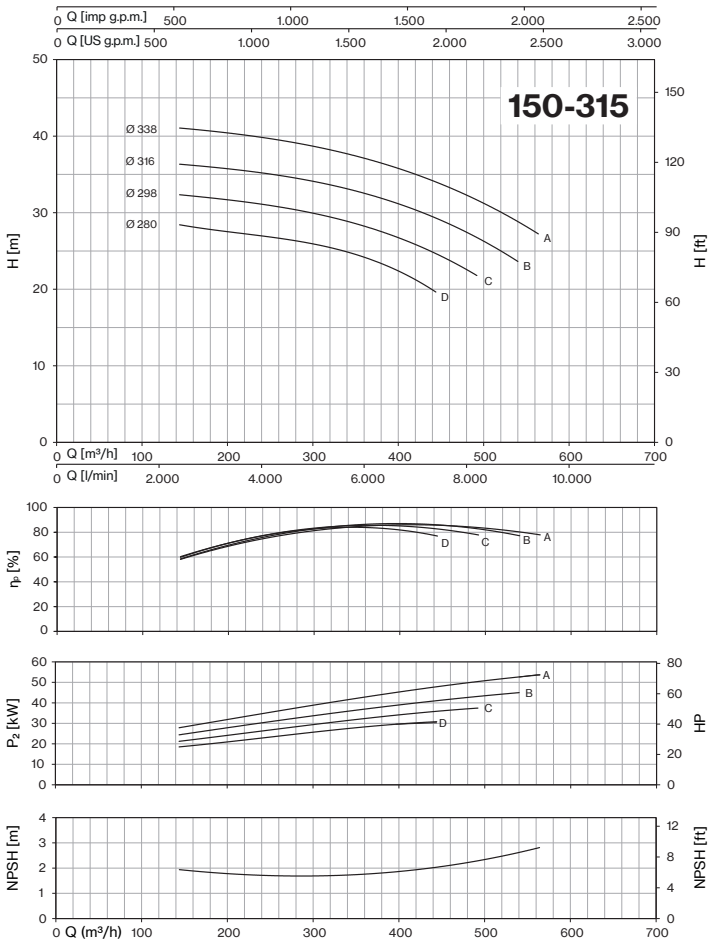

100-400
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 410
Ø 385
Ø 356
A
B
C
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

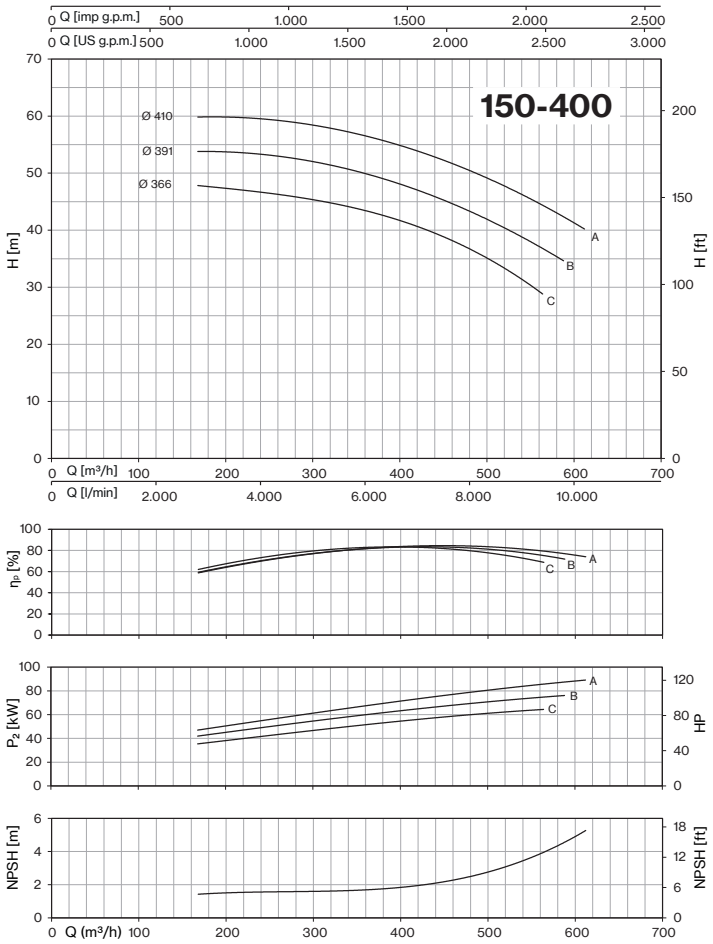

125-250
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 263
Ø 244
A
B
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


125-315
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 336
Ø 307
Ø 272
A
B
C
ηp [%]
B - A
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

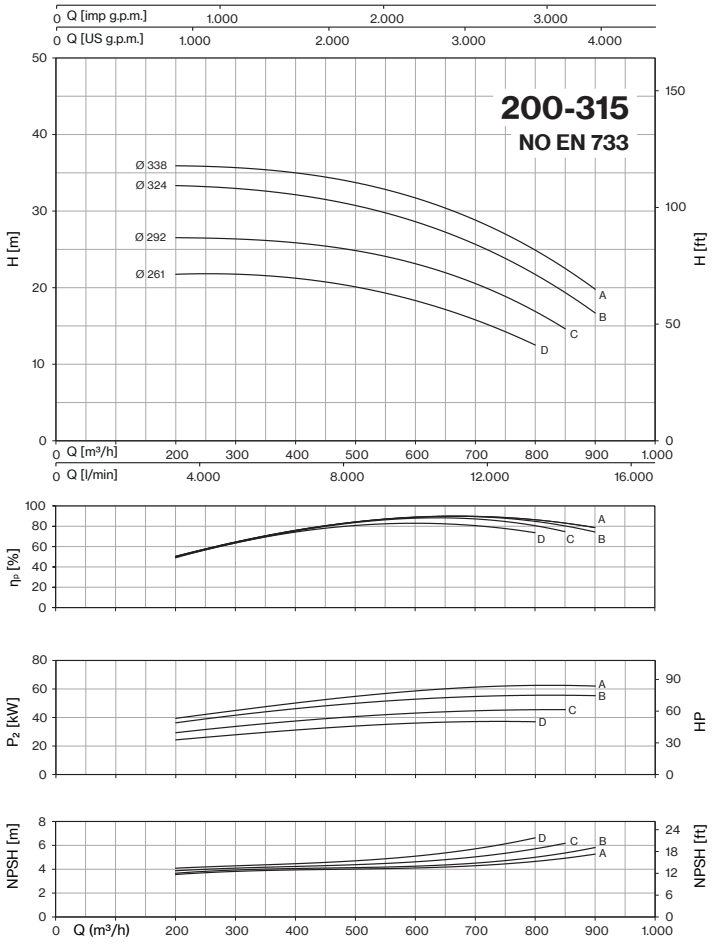

125-400
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
Ø 410
Ø 394
Ø 368
A
B
C
ηp [%]
B - A
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

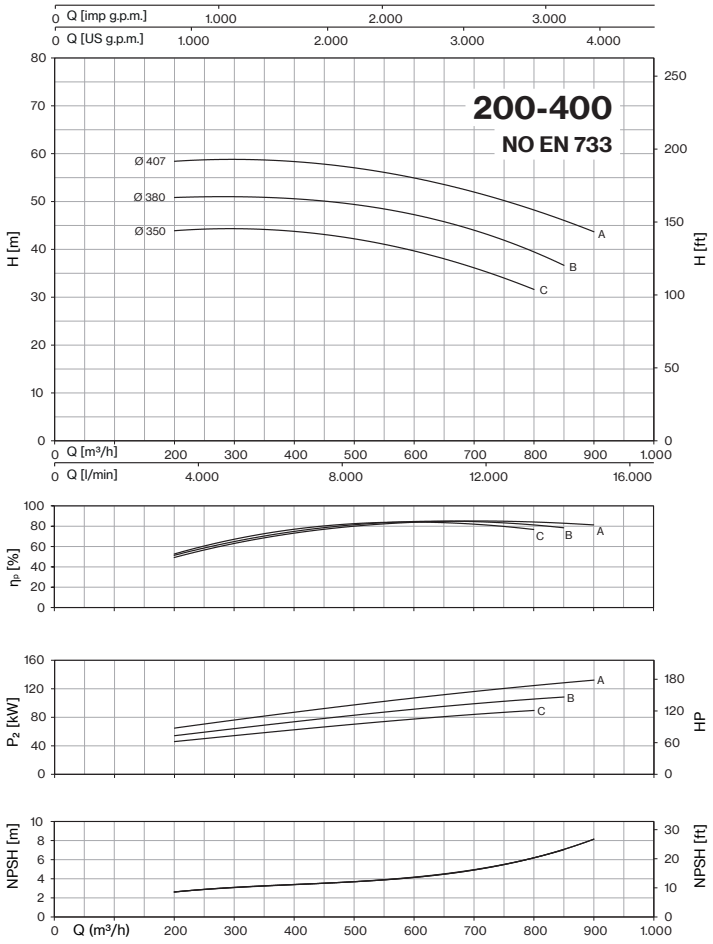
4MA-4MAX ~ *EN 733*



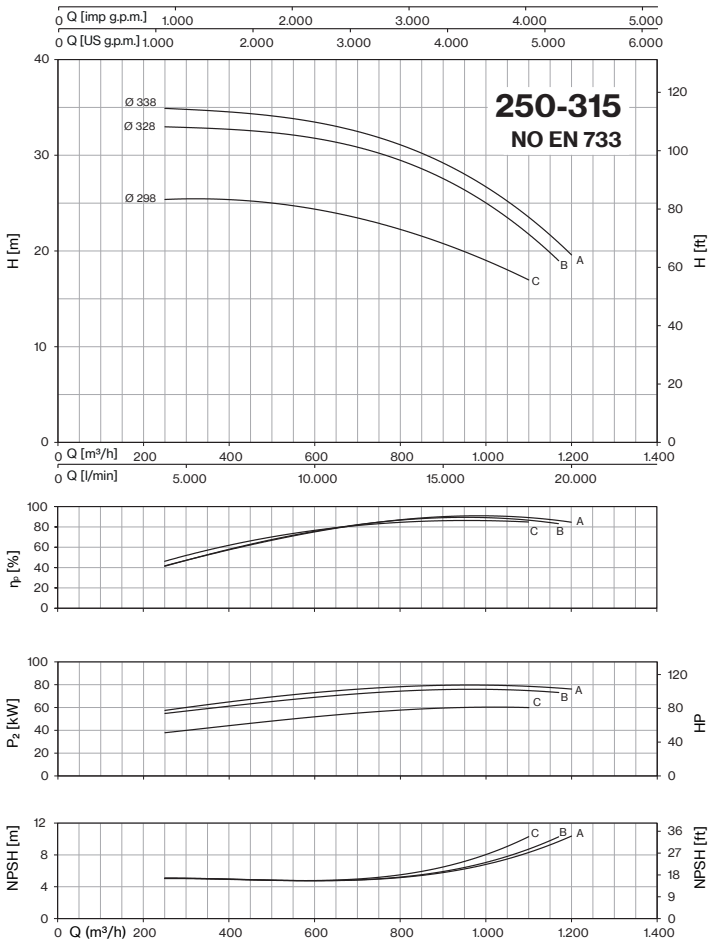


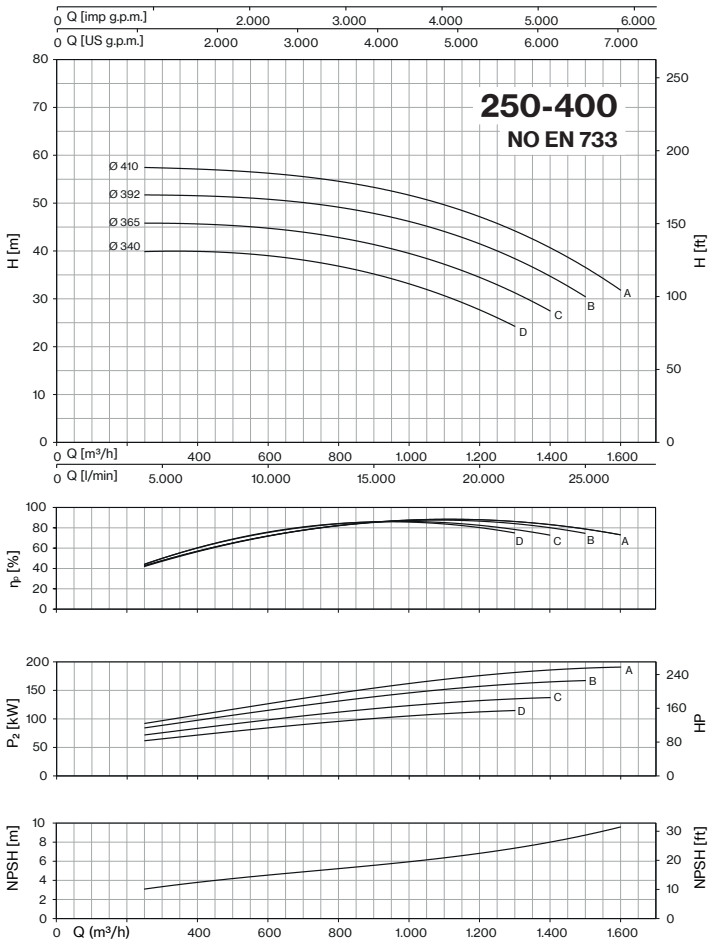
4MA-4MAX (No EN 733) ~ 1450 rpm



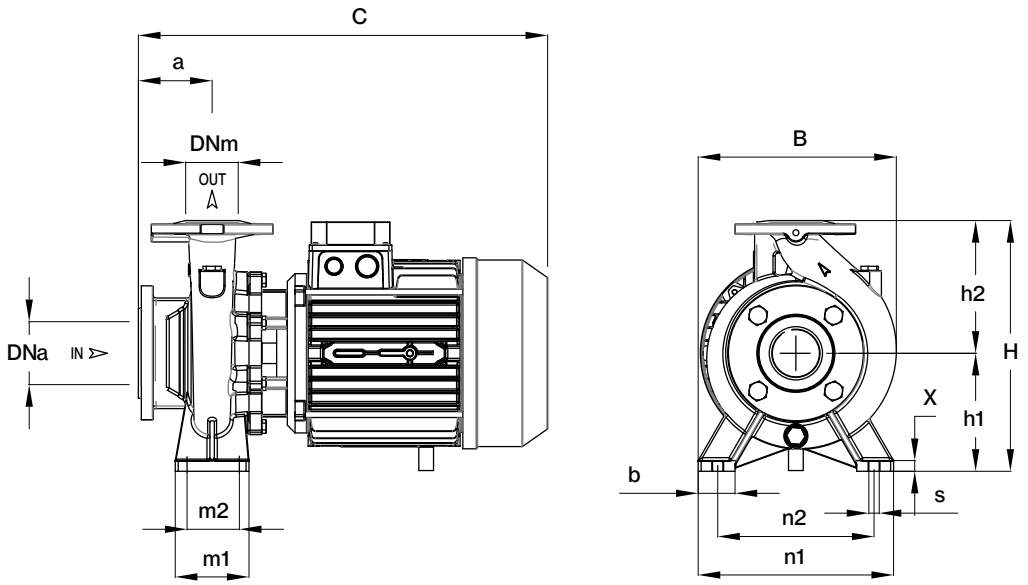


Tolerance: ISO 9906:2012 - Grade 3B
Check pumps availability on page 88-89-90


250-315
NO EN 733
Ø 338
Ø 328
Ø 298
A
B
C
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]


250-400
NO EN 733
Ø 410
Ø 392
Ø 365
Ø 340
A
B
C
D
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]

MN ~ *EN 733*



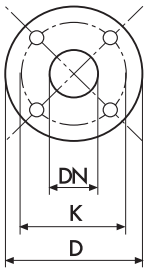
TYPE		MEC	DIMENSIONS (mm)																	Kg	
1~	3~		a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	DNA	DNM	l	L	M	1~	3~
32-160C	**32-160C**	90	80	132	160	100	70	240	190	50	12	14	495	240	292			551	250	341	35,5	35,5
32-160B	**32-160B**	90	80	132	160	100	70	240	190	50	12	14	495	240	292			551	250	341	38,5	38,5
-	**32-160A**	90	80	132	160	100	70	240	190	50	12	14	495	240	292			551	250	341	-	41,5
32-200C	**-**	112	80	160	180	100	70	240	190	50	12	14	543	268	340			602	263	395	60	-
-	**32-200C**	100	80	160	180	100	70	240	190	50	12	14	499	268	340			602	263	395	-	51
-	**32-200B1**	112	80	160	180	100	70	240	190	50	12	14	543	268	340			627	287	408	-	60
-	**32-200B**	132	80	160	180	100	70	240	190	50	12	14	532	268	340	50	32	627	287	408	-	66,5
-	**32-200A1**	112	80	160	180	100	70	240	190	50	12	14	543	268	340			627	287	408	-	66,5
-	**32-200A**	132	80	160	180	100	70	240	190	50	12	14	532	268	340			627	287	408	-	73,5
-	**32-250C**	132	100	180	225	125	95	320	250	65	12	14	591	305	405			666	346	471	-	96
-	**32-250B**	132	100	180	225	125	95	320	250	65	14	14	591	305	405			666	346	471	-	100
-	**32-250A1**	132	100	180	225	125	95	320	250	65	14	14	634	305	405			810	354	480	-	104,5
-	**32-250A**	160	100	180	225	125	95	320	250	65	14	14	674	305	405			810	354	480	-	130
40-125C	**40-125C**	90	80	112	140	100	70	210	160	50	12	14	492	220	252			551	250	341	35	35
40-125B	**40-125B**	90	80	112	140	100	70	210	160	50	12	14	492	220	252			551	250	341	37,5	37,5
-	**40-125A**	90	80	112	140	100	70	210	160	50	12	14	492	220	252			551	250	341	-	41
40-160B	**-**	100	80	132	160	100	70	240	190	50	12	14	500	245	292			551	250	341	49,5	-
-	**40-160B**	100	80	132	160	100	70	240	190	50	12	14	500	245	292			551	250	341	-	45,5
40-160A	**-**	112	80	132	160	100	70	240	190	50	15	14	544	245	292			602	263	395	58	-
-	**40-160A**	100	80	132	160	100	70	240	190	50	15	14	500	245	292			602	263	395	-	50
-	**40-160AP**	112	80	132	160	100	70	240	190	50	15	14	544	245	292			627	287	408	-	56,5
-	**40-200B1**	112	100	160	180	100	70	265	212	50	15	14	563	273	340			627	287	408	-	61,5
-	**40-200B**	132	100	160	180	100	70	265	212	50	15	14	552	273	340	65	40	627	287	408	-	68
-	**40-200A1**	112	100	160	180	100	70	265	212	50	15	14	563	273	340			627	287	408	-	67,5
-	**40-200A**	132	100	160	180	100	70	265	212	50	15	14	552	273	340			627	287	408	-	74,5
-	**40-200AP**	132	100	160	180	100	70	265	212	50	15	14	590	273	340			666	346	471	-	87
-	**40-250C**	132	100	180	225	125	95	320	250	65	15	14	590	322	405			666	346	471	-	94
-	**40-250B**	132	100	180	225	125	95	320	250	65	15	14	590	322	405			666	346	471	-	98,5
-	**40-250A1**	132	100	180	225	125	95	320	250	65	15	14	634	322	405			810	354	480	-	103
-	**40-250A**	160	100	180	225	125	95	320	250	65	15	14	670	322	405			810	354	480	-	128,5
-	**40-250BM**	132	100	180	225	125	95	320	250	65	15	14	670	332	405			810	354	480	-	143,5
-	**40-250AM**	160	100	180	225	125	95	320	250	65	15	14	670	332	405			810	354	480	-	154
50-125B	**-**	100	100	132	160	100	70	240	190	50	12	14	530	250	292			602	263	395	50	-
-	**50-125B**	100	100	132	160	100	70	240	190	50	12	14	530	250	292			602	263	395	-	46
50-125A	**-**	112	100	132	160	100	70	240	190	50	12	14	575	250	292			602	263	395	58	-
-	**50-125A**	100	100	132	160	100	70	240	190	50	12	14	530	250	292			602	263	395	-	50
-	**50-160B1**	112	100	160	180	100	70	265	212	50	12	14	564	270	340			627	287	408	-	61
-	**50-160B**	132	100	160	180	100	70	265	212	50	12	14	553	270	340			627	287	408	-	67
-	**50-160A1**	112	100	160	180	100	70	265	212	50	12	14	564	270	340	65	50	627	287	408	-	67
-	**50-160A**	132	100	160	180	100	70	265	212	50	12	14	553	270	340			627	287	408	-	73,5
-	**50-200C**	132	100	160	200	100	70	265	215	50	12	14	596	290	360			666	346	471	-	90,5
-	**50-200B**	132	100	160	200	100	70	265	215	50	12	14	596	290	360			666	346	471	-	95
-	**50-200A1**	132	100	160	200	100	70	265	215	50	12	14	638	290	360			810	354	480	-	99,5
-	**50-200A**	160	100	160	200	100	70	265	215	50	12	14	675	290	360			810	354	480	-	125

Tolerance: ISO 9906:2012 - Grade 3B

TYPE		MEC	DIMENSIONS (mm)																			Kg	
1~	3~		a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	DNA	DNM	I	L	M	1~	3~
-	**50-250C1**	132	100	180	225	125	95	320	250	65	14	14	639	332	405	65	50	810	354	480	-	106
-	**50-250C**	160	100	180	225	125	95	320	250	65	14	14	675	332	405			810	354	480	-	131,5
-	**50-250B**	160	100	180	225	125	95	320	250	65	14	14	719	332	405			810	354	480	-	146,5
-	**50-250A**	160	100	180	225	125	95	320	250	65	14	14	719	332	405			810	354	480	-	156,5
-	**65-125B1**	112	100	160	180	125	95	280	212	65	14	14	575	280	340	80	65	627	287	408	-	60,5
-	**65-125B**	132	100	160	180	125	95	280	212	65	14	14	562	280	340			627	287	408	-	67
-	**65-125A1**	112	100	160	180	125	95	280	212	65	14	14	575	280	340			627	287	408	-	67
-	**65-125A**	132	100	160	180	125	95	280	212	65	14	14	565	280	340			627	287	408	-	73,5
-	**65-160C**	132	100	160	200	125	95	280	212	65	14	14	596	290	360			666	346	471	-	90
-	**65-160B**	132	100	160	200	125	95	280	212	65	14	14	600	290	360			666	346	471	-	94
-	**65-160A1**	132	100	160	200	125	95	280	212	65	14	14	639	290	360			810	354	480	-	98
-	**65-160A**	160	100	160	200	125	95	280	212	65	14	14	675	290	360			810	354	480	-	125,5
-	**65-200C1**	132	100	180	225	125	95	320	250	65	14	14	638	330	405			810	354	480	-	103,5
-	**65-200C**	160	100	180	225	125	95	320	250	65	14	14	675	330	405			810	354	480	-	129
-	**65-200B**	160	100	180	225	125	95	320	250	65	14	14	719	330	405			810	354	480	-	143,5
-	**65-200A**	160	100	180	225	125	95	320	250	65	14	14	719	330	405			810	354	480	-	154
-	**65-250B**	180	100	200	250	160	120	360	280	80	16	19	770	370	450			920	420	625	-	194
-	**65-250A**	180	100	200	250	160	120	360	280	80	16	19	811	370	450			920	420	625	-	216,5
-	**80-160E**	132	125	180	225	125	95	320	250	65	14	14	621	330	405	100	80	810	354	480	-	98,5
-	**80-160D**	132	125	180	225	125	95	320	250	65	14	14	621	330	405			810	354	480	-	102,5
-	**80-160C1**	132	125	180	225	125	95	320	250	65	14	14	664	330	405			810	354	480	-	106,5
-	**80-160C**	160	125	180	225	125	95	320	250	65	14	14	700	330	405			810	354	480	-	131,5
-	**80-160B**	160	125	180	225	125	95	320	250	65	14	14	744	330	405			810	354	480	-	146
-	**80-160A**	160	125	180	225	125	95	320	250	65	14	14	744	330	405			810	354	480	-	156,5
-	**80-200B**	180	125	180	250	125	95	345	280	65	16	14	796	355	430			920	420	625	-	188,5
-	**80-200A**	180	125	180	250	125	95	345	280	65	16	14	835	355	430			920	420	625	-	210,5
-	**100-160B**	180	125	200	280	160	120	360	280	80	18	18	795	390	480	125	100	920	420	625	-	196,5
-	**100-160A**	180	125	200	280	160	120	360	280	80	18	18	836	390	480			920	420	625	-	221

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18

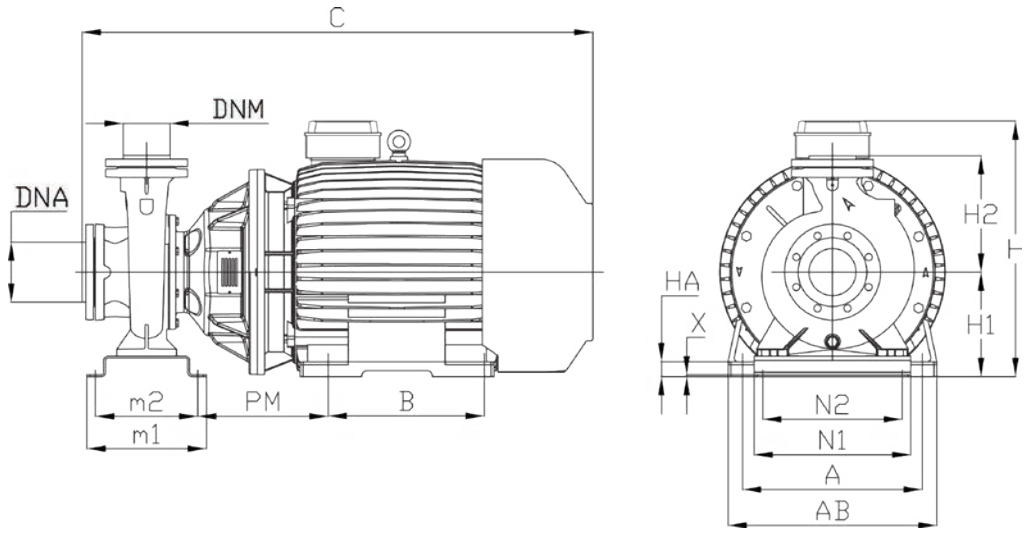
flanges



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
32-160	80×120×155	24	80×120×190	30
32-200 (C)	80×120×155	24	80×120×180	24
32-200 (A) (A1) (B) (B1)	100×120×140	18	100×120×185	24
32-250 (A)	85×110×120	6	85×110×170	9
32-250 (B) (C)	80×120×120	6	80×120×170	9
40-125	80×120×155	24	80×120×190	30
40-160	80×120×155	24	80×120×190	30
40-200	100×120×140	18	100×120×185	24
40-250 (A)	85×110×120	6	85×110×170	9
40-250 (B) (BM) (C)	80×120×120	6	80×120×170	9
50-125	80×120×120	24	80×120×180	24
50-160	100×120×140	18	100×120×185	24
50-200 (A)	85×110×120	6	85×110×170	9
50-200 (B) (C)	80×120×120	6	80×120×170	9
50-250	80×120×120	6	80×120×170	9
65-125	100×120×140	18	100×120×185	24
65-160	85×110×120	6	85×110×170	9
65-200	85×110×120	6	85×110×170	9
65-250	85×110×130	4	85×110×190	6
80-160	85×110×120	6	85×110×170	9
80-200	85×110×130	4	85×110×190	6
100-160	85×110×130	4	85×110×190	6

Tolerance: ISO 9906:2012 - Grade 3B

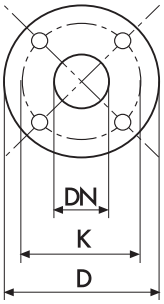
MNG-MNGX ~ *EN 733*



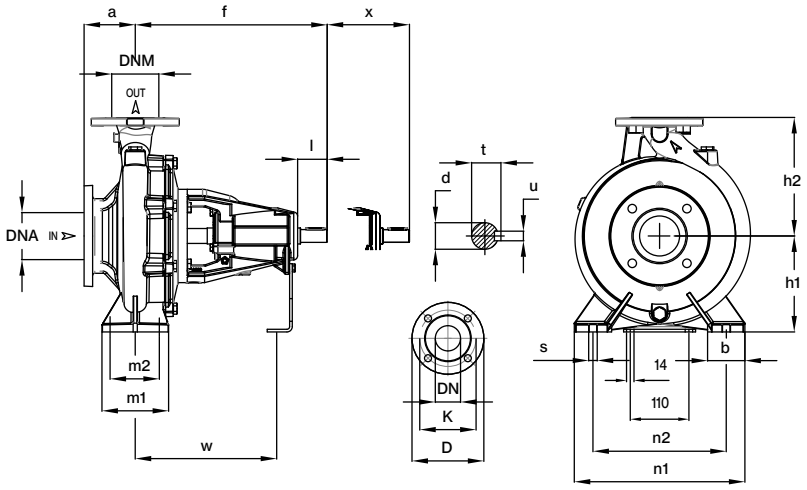
TYPE	DIMENSIONS (mm)																		Kg
	m1	m2	N2	N1	H1	H2	H	A	AB	B	PM	C	HA	DNA	DNM	I	L	M	
80-250B	200	120	315	406	225	317	550	356	435	311	356	1130	28	100	80	655	655	830	440
80-250A	320	280	360	420	280	317	650	406	485	349	325	1240	58			655	655	830	564
100-200B	200	120	280	360	225	321	550	356	435	311	356	1130	28			655	1400	830	442,5
100-200A	320	280	360	420	280	321	650	406	485	349	325	1240	60			655	1400	830	562
100-250C	320	280	360	420	280	321	675	406	485	349	325	1315	60	125	100	655	1400	830	758
100-250B	320	280	360	420	280	321	675	457	545	368	347	1315	35			655	1400	830	760
100-250A	320	280	360	420	280	321	675	457	545	419	347	1370	35			655	1400	830	774

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18

flanges



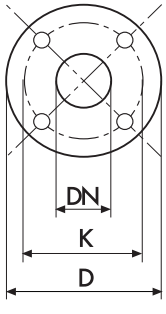
Tolerance: ISO 9906:2012 - Grade 3B



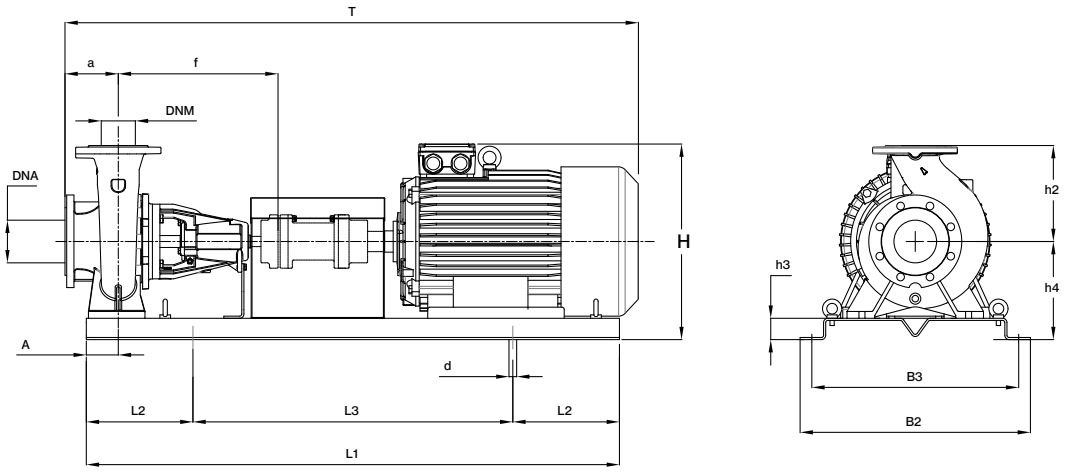
TYPE	DIMENSIONS (mm)																				Kg
	a	f	h1	h2	m1	m2	n1	n2	s	b	l	d1	t	u	x	w	DNA	DNM	l	L	M	
32-160	80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260			535	320	445	38
32-200	80	360	160	180	100	70	240	190	14	50	50	24	27	8	100	260	50	32	535	320	445	41
32-250	100	360	180	225	125	95	320	250	14	65	65	24	27	8	100	260			545	405	545	49
40-125	80	360	112	140	100	70	210	160	14	50	50	24	27	8	100	260			535	320	445	37
40-160	80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	65	40	535	320	445	40
40-200	100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260			535	320	445	44
40-250	100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260			545	405	545	49,5
50-125	100	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260			535	320	445	39,5
50-160	100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260			535	320	445	44
50-200	100	360	160	200	100	70	265	215	14	50	50	24	27	8	100	260	65	50	535	320	445	47
50-250	100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260			545	405	545	53
50-315	125	470	225	280	125	95	345	280	14	65	80	32	35,3	10	100	340	80		655	465	620	94,5
65-125	100	360	160	180	125	95	280	212	14	65	65	24	27	8	100	260			535	320	445	44,5
65-160	100	360	160	200	125	95	280	212	14	65	65	24	27	8	100	260			535	320	445	49
65-200	100	360	180	225	125	95	320	250	14	65	65	24	27	8	140	260	80	65	545	405	545	54
65-250	100	470	200	250	160	120	360	280	19	80	80	32	35	10	140	340			545	405	545	76,5
65-315	125	470	225	280	160	120	400	315	19	80	80	32	35	10	140	340			655	465	620	96
80-160	125	360	180	225	125	95	320	250	14	65	50	24	27	8	140	260			545	405	545	58
80-200	125	470	180	250	125	95	345	280	14	65	80	32	35	10	140	340	100	80	680	405	545	74
80-250	125	470	200	280	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	585	91
80-315	125	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	620	106
100-200	125	470	200	280	160	120	360	280	18	80	80	32	35,3	10	140	340			655	465	620	95
100-250	140	470	225	280	160	120	400	315	18	80	80	32	35,3	10	140	340	125	100	655	465	620	103
100-315	140	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	620	122
100-400	140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370			720	775	855	183,5
125-250	140	470	315	355	200	150	400	315	22	100	110	32	45,3	12	140	370			655	465	620	132
125-315	140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370	150	125	720	775	855	176
125-400	140	530	315	400	200	150	500	400	22	100	110	42	45,3	12	140	370			720	775	855	198
150-315	160	530	280	400	200	150	550	450	22	100	110	42	45,3	12	140	370	200	150	655	465	620	191
150-400	160	530	315	450	200	150	550	450	22	100	110	42	45,3	12	140	370			720	775	855	218,5
200-315	180	706	355	450	250	190	634	500	28	134	110	55	58,3	16	208	523	250	200	800	1200	1150	345
200-400	180	706	355	500	250	190	634	500	28	134	110	55	58,3	16	214	523			800	1200	1150	346
250-315	225	711	400	500	250	200	694	560	28	134	110	55	58,3	16	214	528	300	250	800	1200	1070	401,5
250-400	225	706	400	550	250	200	694	560	28	134	110	55	58,3	16	220	523			800	1200	1120	393

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18
150	285	240	8	23
200	340	295	8	23
250	395	350	12	23
300	445	400	12	23

flanges



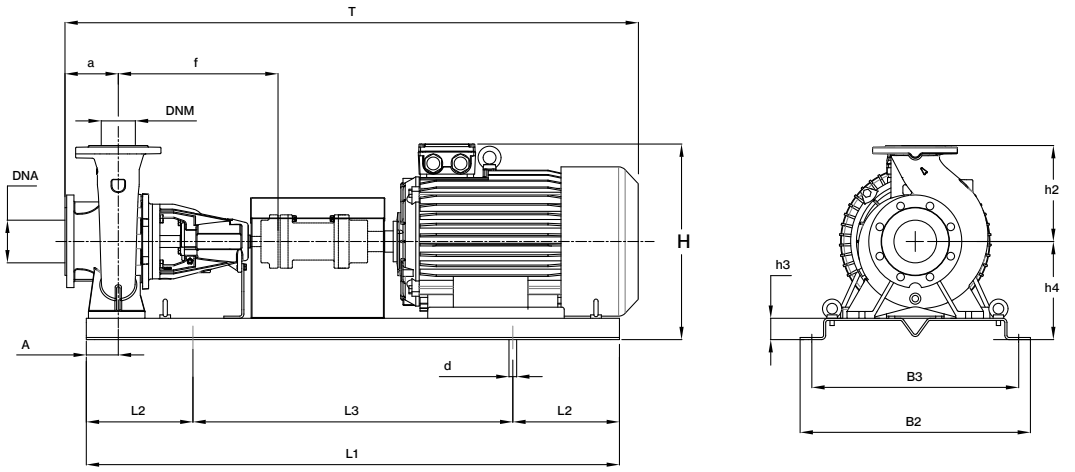
MA-MAX *EN 733* ~ 2900 rpm



TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA	DNM	
32-160C	1,5	90S	80	360	182	160	50	900	150	600	390	350	60	18	855	342			82,1
32-160B	2,2	90L	80	360	182	160	50	900	150	600	390	350	60	18	920	342			87,7
32-160A	3	100L	80	360	182	160	50	900	150	600	390	350	60	18	920	362			96,7
32-160A	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			104,7
32-200C	4	112M	80	360	210	180	50	900	150	600	390	350	60	18	940	403			108,7
32-200C	5,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			116,1
32-200B	5,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433	50	32	116,1
32-200B	7,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			144,3
32-200A	7,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			144,3
32-250C	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			207,3
32-250B	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			207,3
32-250A	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			219,3
40-125C	1,5	90S	80	360	162	140	50	900	150	600	390	350	60	18	855	317			82,2
40-125C	2,2	90L	80	360	162	140	50	900	150	600	390	350	60	18	920	317			87,8
40-125B	2,2	90L	80	360	162	140	50	900	150	600	390	350	60	18	920	317			87,8
40-125B	3	100L	80	360	162	140	50	900	150	600	390	350	60	18	920	342			96,8
40-125A	3	100L	80	360	162	140	50	900	150	600	390	350	60	18	920	342			96,8
40-160B	3	100L	80	360	182	160	50	900	150	600	390	350	60	18	920	362			99,8
40-160B	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			107,8
40-160A	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			107,8
40-160A	5,5	132S	80	360	182	160	50	1000	170	660	450	400	60	22	1020	405			115,2
40-160AP	5,5	132S	80	360	182	160	50	1000	170	660	450	400	60	22	1020	405			115,2
40-200B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			119,2
40-200B	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			147,4
40-200A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	65	40	147,4
40-200A	11	160M	100	360	210	180	50	1120	190	740	490	440	60	22	1168	475			198,4
40-200 AP	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			147,4
40-200 AP	11	160M	100	360	210	180	50	1120	190	740	490	440	60	22	1168	475			198,4
40-250C	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			208,9
40-250B	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			208,9
40-250B	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			220,9
40-250A	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			220,9
40-250A	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			238,9
40-250BM	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			238,9
40-250AM	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	510			297,3
50-125B	3	100L	100	360	182	160	50	900	150	600	390	350	60	18	940	362			99,7
50-125A	4	112M	100	360	182	160	50	900	150	600	390	350	60	18	960	375			107,7
50-160B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			119,6
50-160A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			147,8
50-200C	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			201,8
50-200B	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475	65		201,8
50-200A	15	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			213,8
50-250C	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495		50	224,8
50-250B	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			242,8
50-250A	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	510			301,2
50-315DN	37	200L	125	470	275	280	50	1400	230	940	610	550	75	26	1455	585			415,0
50-315CN	45	225M	125	470	275	280	50	1400	230	940	610	550	75	26	1500	605	80		465,8
50-315BN	55	250M	125	470	310	280	85	1600	270	1060	660	600	75	26	1650	710			611,8
50-315AN	75	280S	125	470	310	280	85	1800	300	1200	730	670	75	26	1850	770			762,6

TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA	DNM	
65-125B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			121,4
65-125A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			149,6
65-160C	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			205,1
65-160B	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			205,1
65-160A	15	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			217,1
65-200C	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			227,5
65-200B	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	80	65	245,5
65-200A	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1290	510			303,3
65-250B	30	200L	100	470	250	250	50	1400	230	940	610	550	90	26	1470	560			377,8
65-250A	37	200L	100	470	250	250	50	1400	230	940	610	550	90	26	1470	560			397,8
65-315CN	55	250M	125	470	310	280	85	1600	270	1060	660	600	90	26	1645	710			614,2
65-315BN	75	280S	125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770			765,0
65-315AN	90	280M	125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770			839,2
80-160E	11	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			220,8
80-160D	11	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			220,8
80-160C	15	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			232,8
80-160B	18,5	160L	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			250,8
80-160A	22	180M	125	360	230	225	50	1250	205	840	540	490	75	22	1315	510			308,7
80-200B	30	200L	125	470	230	250	50	1400	230	940	610	550	75	26	1495	560	100	80	376,7
80-200A	37	200L	125	470	230	250	50	1400	230	940	610	550	75	26	1495	560			396,7
80-250B	45	225M	125	470	250	280	50	1400	230	940	610	550	90	26	1540	605			464,5
80-250A	55	250M	125	470	285	280	85	1600	270	1060	660	600	90	26	1645	710			610,5
80-315BN	90	280M	125	470	335	315	85	1800	300	1200	730	670	90	26	1835	770			850,5
80-315AN	110	315S	125	470	405	315	120	2000	300	1400	790	750	90	22	2020	925			1233
100-200D	30	200L	125	470	250	280	50	1400	230	940	610	550	90	26	1500	560			374
100-200C	37	200L	125	470	250	280	50	1400	230	940	610	550	90	26	1500	560			428
100-200B	45	225M	125	470	250	280	50	1400	230	940	610	550	90	26	1540	605			471,5
100-200A	55	250M	125	470	285	280	85	1600	270	1060	660	600	90	26	1645	710			617,5
100-250C	55	250M	140	470	310	280	85	1600	270	1060	660	600	90	26	1660	710	125	100	625,5
100-250C	75	280S	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770			776,3
100-250B	75	280S	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770			776,3
100-250A	90	280M	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770			850,5

4MA-4MAX *EN 733* ~ 1450 rpm



TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA	DNM	
32-160C	0,37	71B	80	360	182	160	50	800	130	540	360	320	60	18	820	342			59,4
32-160B	0,37	71B	80	360	182	160	50	800	130	540	360	320	60	18	820	342			59,4
32-160A	0,55	80A	80	360	182	160	50	800	130	540	360	320	60	18	820	342			59,1
32-200C	0,75	80B	80	360	210	180	50	800	130	540	360	320	60	18	820	390			75,1
32-200B	1,1	90S	80	360	210	180	50	800	130	540	360	320	60	18	855	390	50	32	88,1
32-200A	1,1	90S	80	360	210	180	50	800	130	540	360	320	60	18	855	390			88,1
32-250C	1,5	90S	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			106,7
32-250B	1,5	90S	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			106,7
32-250A	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			112,7
40-125C	0,37	71B	80	360	162	140	50	800	130	540	360	320	60	18	820	302			59,5
40-125B	0,37	71B	80	360	162	140	50	800	130	540	360	320	60	18	820	302			59,5
40-125A	0,55	80A	80	360	162	140	50	800	130	540	360	320	60	18	820	307			59,2
40-160B	0,55	80A	80	360	182	160	50	800	130	540	360	320	60	18	820	342			62,2
40-160A	0,75	80A	80	360	182	160	50	800	130	540	360	320	60	18	820	342			74,2
40-160AP	0,75	80A	80	360	182	160	50	800	130	540	360	320	60	18	820	342			74,2
40-200B	0,75	90S	100	360	210	180	50	900	150	600	390	350	60	18	940	390	65	40	87,0
40-200A	1,1	90S	100	360	210	180	50	900	150	600	390	350	60	18	940	390			93,8
40-200AP	1,1	90L	100	360	210	180	50	900	150	600	390	350	60	18	940	390			93,8
40-250C	1,5	90L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			108,3
40-250B	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			114,3
40-250A	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			114,3
40-250BM	3	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			120,0
40-250AM	3	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			120,0
50-125B	0,55	80A	100	360	182	160	50	800	130	540	360	320	60	18	840	342			62,1
50-125A	0,75	80B	100	360	182	160	50	800	130	540	360	320	60	18	840	342			74,1
50-160B	0,75	80B	100	360	210	180	50	800	130	540	360	320	60	18	840	390			78,6
50-160A	1,1	90S	100	360	210	180	50	800	130	540	360	320	60	18	875	390			91,6
50-200C	1,1	90S	100	360	210	200	50	900	150	600	390	350	60	18	940	410	65		97,2
50-200B	1,5	90S	100	360	210	200	50	900	150	600	390	350	60	18	940	410			102,2
50-200A	1,5	90S	100	360	210	200	50	900	150	600	390	350	60	18	940	410		50	102,2
50-250C	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			118,2
50-250B	3	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			122,2
50-250A	4	112M	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455			128,2
50-315C	5,5	132S	125	470	275	280	50	1120	190	740	490	440	75	22	1170	555			200,1
50-315B	7,5	132M	125	470	275	280	50	1120	190	740	490	440	75	22	1200	555	80		186,6
50-315A	11	160M	125	470	275	280	50	1250	205	840	540	490	75	22	1303	555			260,1

TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA	DNM	
65-125B	0,75	80M	100	360	210	180	50	800	130	540	360	320	60	18	840	390			80,4
65-125A	1,1	90S	100	360	210	180	50	800	130	540	360	320	60	18	875	390			93,4
65-160C	1,5	90S	100	360	210	200	50	900	150	600	390	350	60	18	940	410			105,5
65-160B	1,5	90S	100	360	210	200	50	900	150	600	390	350	60	18	940	410			105,5
65-160A	2,2	100L	100	360	210	200	50	900	150	600	390	350	60	18	940	410			111,5
65-200C	2,2	100L	100	360	230	225	50	1120	190	740	490	440	75	22	1145	455			124,8
65-200B	3	100L	100	360	230	225	50	1120	190	740	490	440	75	22	1145	455	80	65	128,8
65-200A	3	100L	100	360	230	225	50	1120	190	740	490	440	75	22	1145	455			128,8
65-250B	4	112M	100	470	250	250	50	1120	190	740	490	440	90	22	1130	500			159,0
65-250B	5,5	132S	100	470	250	250	50	1120	190	740	490	440	90	22	1175	500			183,0
65-250A	5,5	132S	100	470	250	250	50	1120	190	740	490	440	90	22	1175	500			183,0
65-315CM	7,5	132M	125	470	275	280	50	1250	205	840	540	490	90	22	1285	555			194,0
65-315BM	11	160M	125	470	275	280	50	1250	205	840	540	490	90	22	1343	555			262,5
65-315AM	11	160M	125	470	275	280	50	1250	205	840	540	490	90	22	1343	555			262,5
80-160E	1,1	90S	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455			115,1
80-160D	1,5	90S	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455			120,1
80-160C	1,5	90S	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455			120,1
80-160B	2,2	100L	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455			126,1
80-160A	3	100L	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455			130,1
80-200B	4	112M	125	470	230	250	50	1120	190	740	490	440	75	22	1170	480	100	80	157,8
80-200A	5,5	132S	125	470	230	250	50	1120	190	740	490	440	75	22	1200	480			181,8
80-250B	5,5	132S	125	470	250	280	50	1250	205	840	540	490	90	22	1285	530			203,8
80-250A	7,5	132M	125	470	250	280	50	1250	205	840	540	490	90	22	1285	530			190,3
80-315B	11	160M	125	470	300	315	50	1250	205	840	540	490	90	22	1343	615			273,8
80-315A	15	160L	125	470	300	315	50	1400	230	940	610	550	90	26	1435	615			305,8
100-200D	4	112M	125	470	250	280	50	1120	190	740	490	440	90	22	1130	480			161,0
100-200C	5,5	132S	125	470	250	280	50	1120	190	740	490	440	90	22	1200	530			185,0
100-200B	5,5	132S	125	470	250	280	50	1120	190	740	490	440	90	22	1200	530			186,0
100-200A	7,5	132M	125	470	250	280	50	1120	190	740	490	440	90	22	1240	530			198,0
100-250E	7,5	132M	140	470	275	280	50	1250	205	840	540	490	90	22	1300	555			205,3
100-250D	7,5	132M	140	470	275	280	50	1250	205	840	540	490	90	22	1300	555			205,3
100-250D	11	160M	140	470	275	280	50	1250	205	840	540	490	90	22	1358	555	125	100	273,8
100-250A	11	160M	140	470	275	280	50	1250	205	840	540	490	90	22	1358	555			273,8
100-315B	15	160L	140	470	300	315	50	1400	230	940	610	550	90	26	1450	615			327,7
100-315A	18,5	180M	140	470	300	315	50	1400	230	940	610	550	90	26	1450	615			348,3
100-400C	22	180L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720			469,5
100-400B	30	200L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720			540,8
100-400A	37	225S	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720			554,3
125-250B	11	160M	140	470	300	355	50	1250	205	840	540	490	90	22	1358	655			308,1
125-250A	15	160L	140	470	300	355	50	1400	230	940	610	550	90	26	1450	655			340,1
125-315C	22	180L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720			464,4
125-315B	30	200L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	150	125	535,8
125-315A	37	225S	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720			549,3
125-400C	45	225M	140	530	400	400	85	1600	270	1060	660	600	110	26	1630	800			659,2
125-400B	55	250M	140	530	400	400	85	1600	270	1060	660	600	110	26	1630	800			756,0
125-400A	75	280S	140	530	400	400	85	1800	300	1200	730	670	110	26	1830	805			939,4
150-315D	30	200L	160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765			570,7
150-315C	37	225S	160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765			584,2
150-315B	45	225M	160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765			672,1
150-315A	55	250M	160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765	200	150	768,9
150-400C	75	280S	160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850			951,4
150-400B	75	280S	160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850			962,8
150-400A	90	280M	160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850			1057,8

MN Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	32-160, 40-125	20mm	***Rotating face***	Ceramic	Ceramic	-	SiC	SiC
			Stationary face	Graphite	Graphite	-	SiC	SiC
			Elastomer	NBR	EPDM	-	EPDM	FKM
	40-250M	28mm	***Rotating face***	Ceramic	-	-	SiC	SiC
			Stationary face	Graphite	-	-	SiC	SiC
			Elastomer	EPDM	-	-	EPDM	FKM
	32-200, 32-250, 40-160, 40-200, 40-250, 50-125, 50-160, 50-200, 50-250, 65-125, 65-160, 65-200, 80-160	28mm	***Rotating face***	Ceramic	Ceramic	Ceramic	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM
	65-250, 80-200, 100-160	40mm	***Rotating face***	CrNi-steel	CrNi-steel	CrNi-steel	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM

BEARINGS	PUMP MODEL	TYPE	
	32-200C, 40-160B, 40-160A, 50-125B, 50-125A	6204-ZZ	6206-ZZ C3
	32-160C, 32-160B, 32-160A, 40-125C, 40-125B, 40-125A	6205-ZZ C3	6203-ZZ
	1~ 32-200C, 32-200B1, 32-200B, 32-200A1, 32-200A, 32-250C, 32-250B, 1~ 40-160A, 40-160AP, 40-200B1, 40-200B, 40-200A1, 40-200A, 40-200AP, 40-250C, 40-250B, 1~ 50-125A, 50-160B1, 50-160B, 50-160A1, 50-160A, 50-200C, 50-200B, 65-125B1, 65-125B, 65-125A1, 65-125A, 65-160C, 65-160B, 80-160E, 80-160D	6206-ZZ C3	6306-ZZ C3
	32-250A1, 40-250A1, 50-200A1, 50-200C1, 65-160A1, 65-200C1, 80-160C1	6308-ZZ C3	6306-ZZ C3
	32-250A, 40-250A, 40-250BM, 40-250AM, 50-200A, 50-250C, 50-250B, 50-250A, 65-160A, 65-200C, 65-200B, 65-200A, 80-160C, 80-160B, 80-160A	6308-ZZ C3	6309-ZZ C3
	65-250B, 65-250A, 80-200B, 80-200A, 100-160B, 100-160A	6309-ZZ C3	6310-ZZ C3

MNG Serie-Mechanical seal and bearings

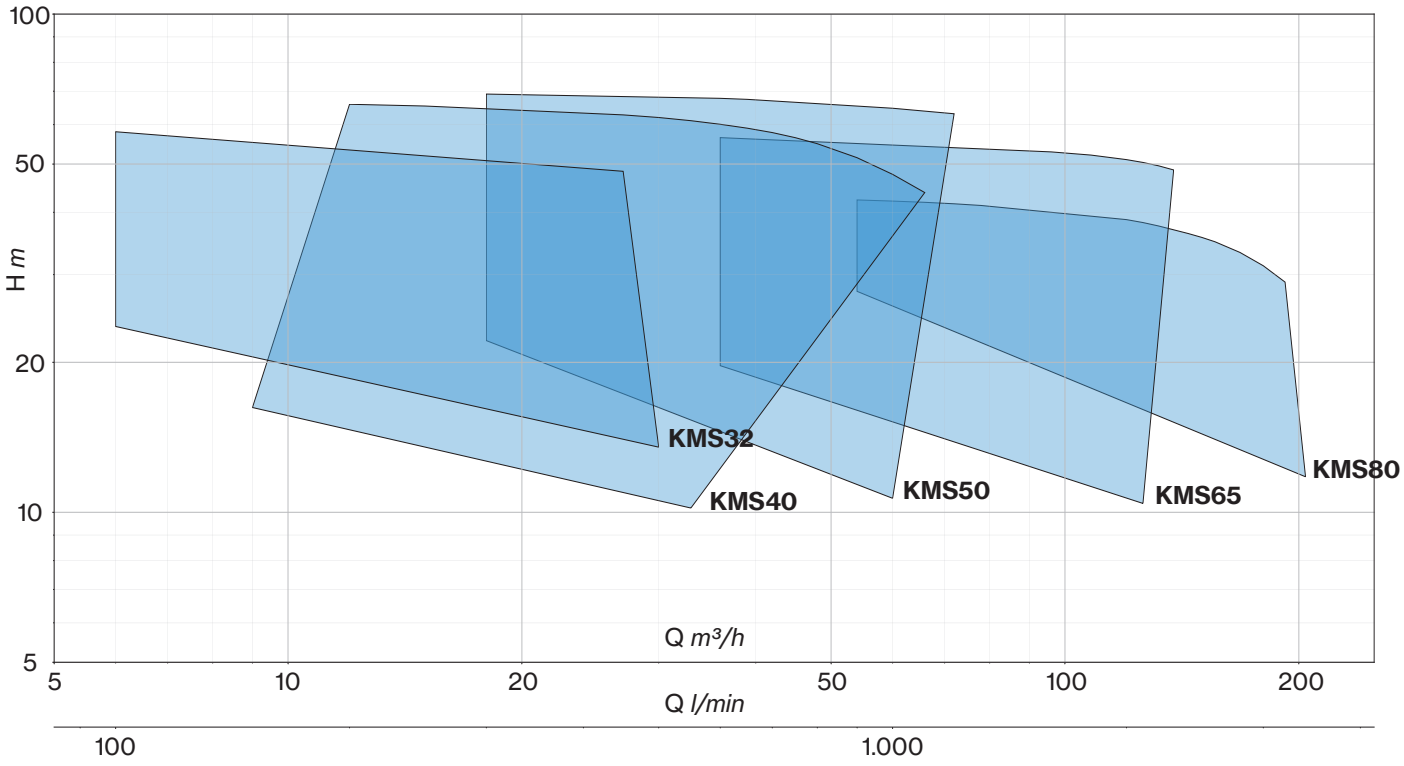
MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	80-250, 100-200, 100-250	45mm	***Rotating face*** ***Stationary face*** ***Elastomer***	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM

MOTOR BEARINGS	PUMP MODEL	TYPE	
	80-250, 100-200	6313-ZZ C3	6313-ZZ C3
	80-250, 100-200, 100-250	6314-ZZ C3	6314-ZZ C3

MA-4MA Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	32-160, 40-125	20mm	***Rotating face***	Ceramic	Ceramic	-	SiC	SiC
			Stationary face	Graphite	Graphite	-	SiC	SiC
			Elastomer	NBR	EPDM	-	EPDM	FKM
	40-250M	28mm	***Rotating face***	Ceramic	-	-	SiC	SiC
			Stationary face	Graphite	-	-	SiC	SiC
			Elastomer	EPDM	-	-	EPDM	FKM
	32-200, 32-250, 40-160, 40-200, 40-250, 50-125, 50-160, 50-200, 50-250, 65-125, 65-160, 65-200, 80-160	28mm	***Rotating face***	Ceramic	Ceramic	Ceramic	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM
	50-315, 65-250, 65-315M, 80-200, 80-315, 100-315	40mm	***Rotating face***	CrNi-steel	CrNi-steel	CrNi-steel	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM
	50-315N, 65-315N, 80-315N	40mm	***Rotating face***	Graphite	Graphite	-	-	-
			Stationary face	SiC	SiC	-	-	-
			Elastomer	FKM	EPDM	-	-	-
	80-250, 100-200, 100-250, 125-250	45mm	***Rotating face***	CrNi-steel	CrNi-steel	CrNi-steel	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM
	100-400, 125-315, 125-400, 150-315, 150-400	55mm	***Rotating face***	Graphite	-	-	SiC	SiC
			Stationary face	SiC	-	-	SiC	SiC
			Elastomer	FKM	-	-	EPDM	FKM
	200-315, 200-400, 250-315, 250-400	70mm	***Rotating face***	Graphite	-	-	SiC	SiC
			Stationary face	SiC	-	-	SiC	SiC
			Elastomer	FKM	-	-	EPDM	FKM

PUMP BEARINGS	PUMP MODEL	TYPE	
	32-160, 32-200, 32-250, 40-125, 40-160, 40-200, 40-250, 40-250M, 50-125, 50-160, 50-200, 50-250, 65-125, 65-160, 65-200, 80-160	6306-ZZ C3	6306-ZZ C3
	50-315, 65-250, 65-315, 80-200, 80-315, 100-315	3208-ZZ C3	3208-ZZ C3
	50-315N, 65-315N, 80-250, 80-315N, 100-200, 100-250, 125-250	6209-ZZ C3	6309-ZZ C3
	100-400, 125-315, 125-400, 150-315, 150-400	6211-ZZ C3	6311-ZZ C3
	200-315, 200-400, 250-315, 250-400, 250-400	6313-ZZ C3	6313-ZZ C3


100
50
20
10
5
H m
KMS32
KMS40
KMS50
KMS65
KMS80
Q m³/h
5
10
20
50
100
200
Q l/min
100
1.000

KMS

Centrifugal Flanged



Monobloc horizontal centrifugal pumps made of stainless steel. Widely used in water supplies, pressurization, cooling, and industrial applications. The pumps guarantee small change in pressure for large flow variation.

Construction features	
Pump body	stainless steel AISI 304
Motor bracket	cast iron
Impeller	stainless steel AISI 304
Mechanical seal	ceramic-graphite-NBR
Mechanical seal housing	stainless steel AISI 304
Pump shaft end	stainless steel AISI 304
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar

Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW 1~ 230V-50Hz
Insulation class	F
Protection degree	IPX5
Motor efficiency	IE3

KMS 32 BE / 1,5 -2E -WF

- pump type
- nominal power (kW)
- mech. seal and O-rings
  - standard
  - **E** EPDM
  - **V** FKM
  - **2E** SiC-SiC-EPDM
  - **2V** SiC-SiC-FKM
- counter flange
  - with
  - **WF** without

TYPE - 50 Hz	P2		P1		CURRENT		Q (m³/h - l/min)									
			1~	3~	1~ 230V	3~ 400V	0	6	9	12	15	18	21	24	27	30
							0	100	150	200	250	300	350	400	450	500
	HP	kW	kW		A		H (m)									
32BE/1,5	2	1,5	2,0	9,2	1,9	3,6	23,9	23,6	23,3	22,7	21,7	20,4	18,8	17,1	15,4	13,5
32BE/2,2	3	2,2	2,4	11,0	2,3	4,5	29,5	28,9	28,2	27,4	26,4	24,9	22,9	20,9	18,7	16,4
32CE/3	4	3	-	-	3,4	6,3	36,9	34,8	33,9	33,0	31,9	30,7	29,3	27,8	26,1	24,3
32CE/4	5,5	4	4,9	22,2	4,8	8,8	49,7	46,6	45,0	43,9	42,8	41,6	40,5	39,3	37,7	
32CE/5,5	7,5	5,5	-	-	6,6	11,7	63,9	58,0	56,3	55,0	53,6	52,1	50,7	49,5	48,3	

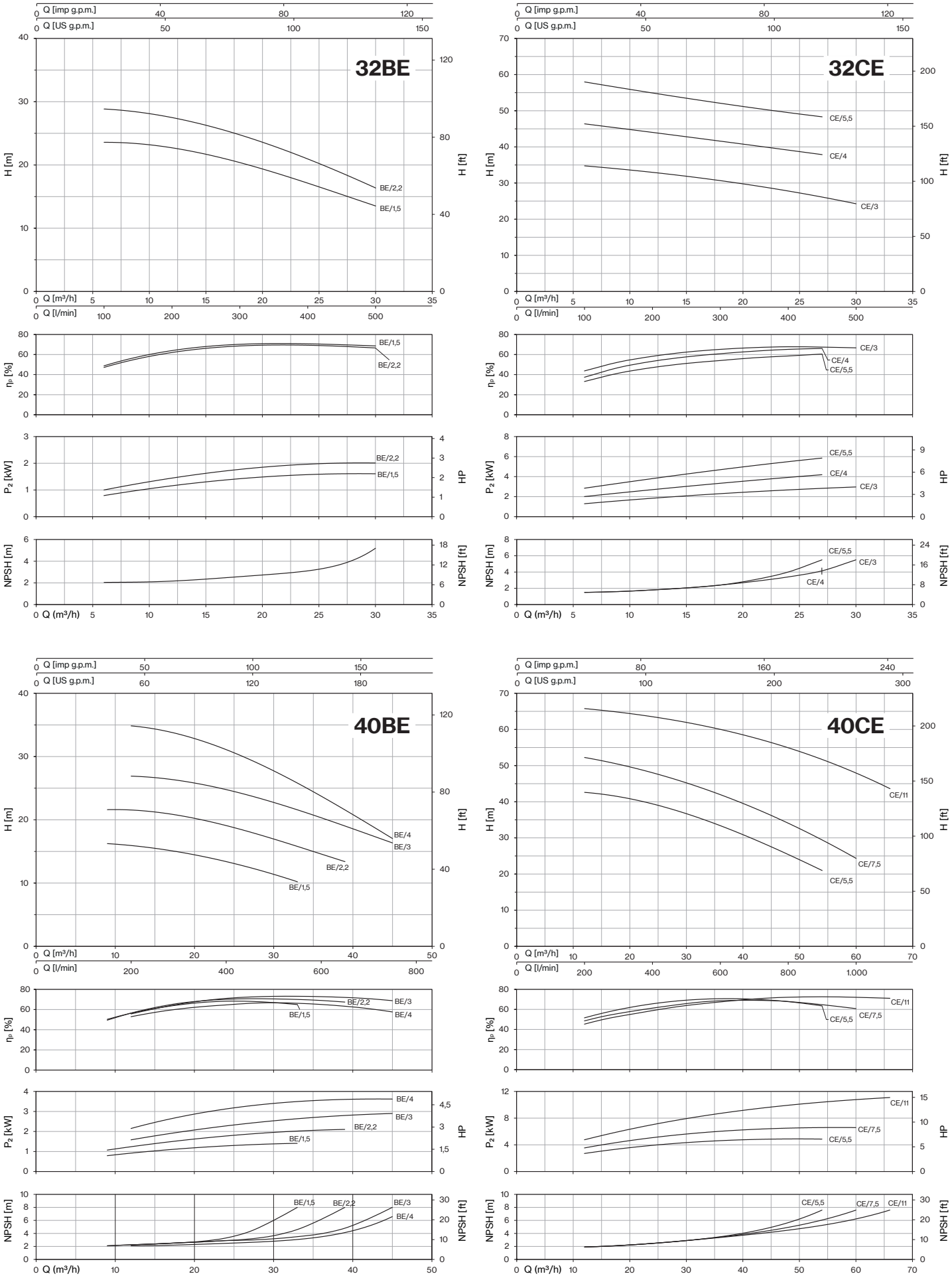
TYPE - 50 Hz	P2		P1		CURRENT		Q (m³/h - l/min)																
			1~	3~	1~ 230V	3~ 400V	0	9	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66
							0	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100
	HP	kW	kW		A		H (m)																
40BE/1,5	2	1,5	1,8	8,5	1,7	3,3	16,4	16,2	15,9	15,6	14,9	14,2	13,4	12,5	11,4	10,2								
40BE/2,2	3	2,2	2,5	11,6	2,4	4,7	21,5	21,6	21,5	21,2	20,7	20,0	19,1	18,1	17,0	15,8	14,6	13,4						
40BE/3	4	3	-	-	3,4	6,3	27,1		26,9	26,6	26,2	25,6	24,8	23,8	22,7	21,5	20,3	19,0	17,7	16,3				
40BE/4	5,5	4	4,3	19,7	4,1	7,8	36,6		34,8	34,4	33,6	32,4	31,0	29,5	27,8	25,8	23,7	21,5	19,3	17,0				
40CE/5,5	7,5	5,5	-	-	5,5	10,2	44,4		42,6	42,1	41,4	40,4	39,4	38,2	36,8	35,2	33,4	31,5	29,5	27,5	25,4	21,0		
40CE/7,5	10	7,5	-	-	7,4	13,5	54,0		52,4	51,5	50,2	49,0	47,8	46,6	45,3	43,9	42,2	40,3	38,3	36,2	34,0	29,1	24,5	
40CE/11	15	11	-	-	12,2	20,0	68,5		65,9	65,4	64,7	64,0	63,4	62,8	62,0	61,1	60,1	59,0	57,8	56,5	54,9	51,5	47,7	43,8

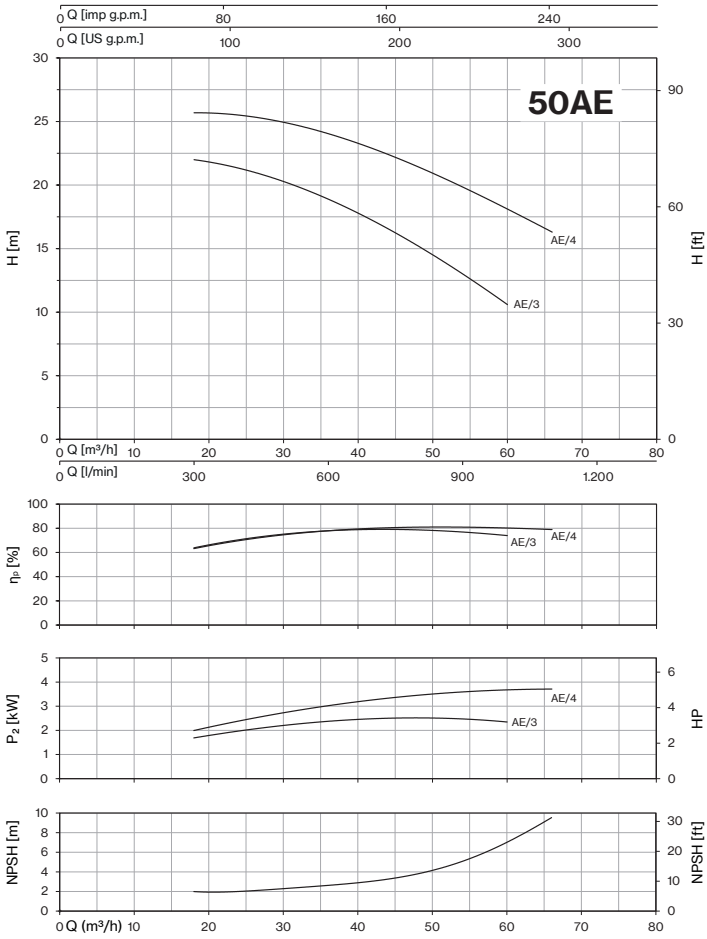
TYPE - 50 Hz	P2		P1		CURRENT		Q (m³/h - l/min)																
			1~	3~	1~ 230V	3~ 400V	0	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
							0	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
	HP	kW	kW		A		H (m)																
50AE/3	4	3	-	-	2,9	5,7	22,3	22,1	21,7	21,2	20,7	20,2	19,7	19,0	18,2	17,2	16,2	15,1	12,9	10,7			
50AE/4	5,5	4	4,4	20,0	4,2	8,0	26,0	25,8	25,6	25,3	25,1	24,9	24,6	24,2	23,6	22,9	22,2	21,4	19,8	18,1	16,4		
50BE/5,5	7,5	5,5	-	-	6,4	11,5	34,9	34,6	34,3	33,9	33,5	33,3	33,0	32,6	32,1	31,4	30,7	30,0	28,4	26,7	24,8	22,7	
50CE/7,5	10	7,5	-	-	8,2	14,6	39,8	39,5	39,1	38,5	37,9	37,5	37,4	37,3	37,2	36,9	36,5	36,0	34,7	33,1	31,4	29,7	27,9
50CE/11	15	11	-	-	12,4	20,3	55,8	55,4	55,0	54,5	53,9	53,4	52,9	52,4	51,8	51,1	50,4	49,8	48,7	47,3	45,7	43,9	41,9
50CE1/15	20	15	-	-	15,0	25,1	65,9	63,1	62,7	62,7	62,4	62,2	61,8	61,3	60,7	60,0	59,4	58,8	57,6	56,4	55,0	53,4	
50CE/15	20	15	-	-	15,2	25,6	65,9	63,1	62,7	62,7	62,4	62,2	61,8	61,3	60,7	60,0	59,4	58,8	57,6	56,4	55,0	53,4	
50CE/18,5	25	18,5	-	-	18,2	30,6	69,6	69,1	68,5	68,3	68,2	68,1	67,9	67,7	67,4	66,9	66,3	65,9	65,4	64,7	63,8	63,1	

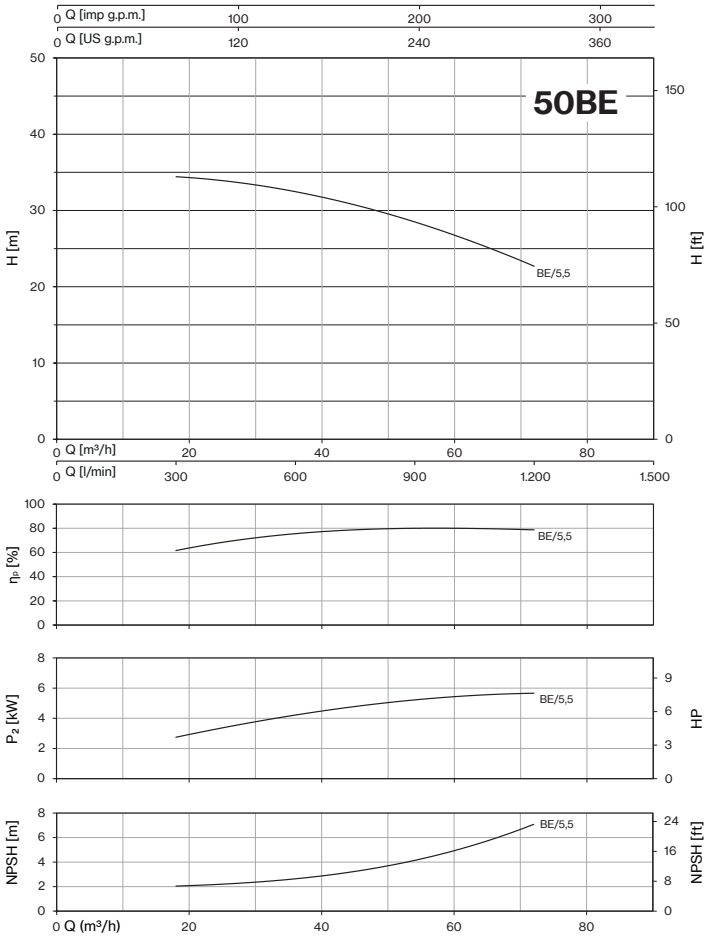
TYPE - 50 Hz	P2		P1	CUR.	Q (m³/h - l/min)																		
				3~ 400V	0	36	39	42	45	48	54	60	66	72	78	84	90	96	108	120	126	132	138
					0	600	650	700	750	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2100	2200	2300
	HP	kW	kW	A	H (m)																		
65AE/5,5	7,5	5,5	6,2	11,2	20,3	19,7	19,6	19,5	19,4	19,3	19,1	18,7	18,3	17,7	17,1	16,4	15,8	15,1	13,7	11,6	10,4		
65AE/7,5	10	7,5	8,4	15,0	25,1	24,2	24,0	23,9	23,8	23,8	23,6	23,5	23,3	23,1	22,5	21,9	21,2	20,4	18,9	17,2	16,2	15,0	
65BE/11	15	11	11,5	19,0	34,8	34,0	33,9	33,7	33,4	33,0	32,7	32,3	32,0	31,9	31,6	31,1	30,4	29,6	27,9	26,2	25,6		
65BE1/15	20	15	15,1	25,3	41,9	41,3	41,2	41,0	40,8	40,5	39,9	39,5	39,1	38,8	38,7	38,6	38,3	37,9	37,0	36,0	35,8		
65BE/15	20	15	15,5	26,1	41,9	41,3	41,2	41,0	40,8	40,5	39,9	39,5	39,1	38,8	38,7	38,6	38,3	37,9	37,0	36,0	35,8		
65CE/18,5	25	18,5	18,8	31,6	49,7	49,0	48,7	48,4	48,2	48,0	47,6	47,3	47,2	47,1	46,9	46,6	46,2	45,9	45,0	43,5	42,5		
65CE/22	30	22	23,3	39,6	58,1	56,5	56,2	55,9	55,7	55,4	54,9	54,3	53,9	53,7	53,5	53,4	53,2	52,9	52,1	51,0	50,4	49,6	48,7

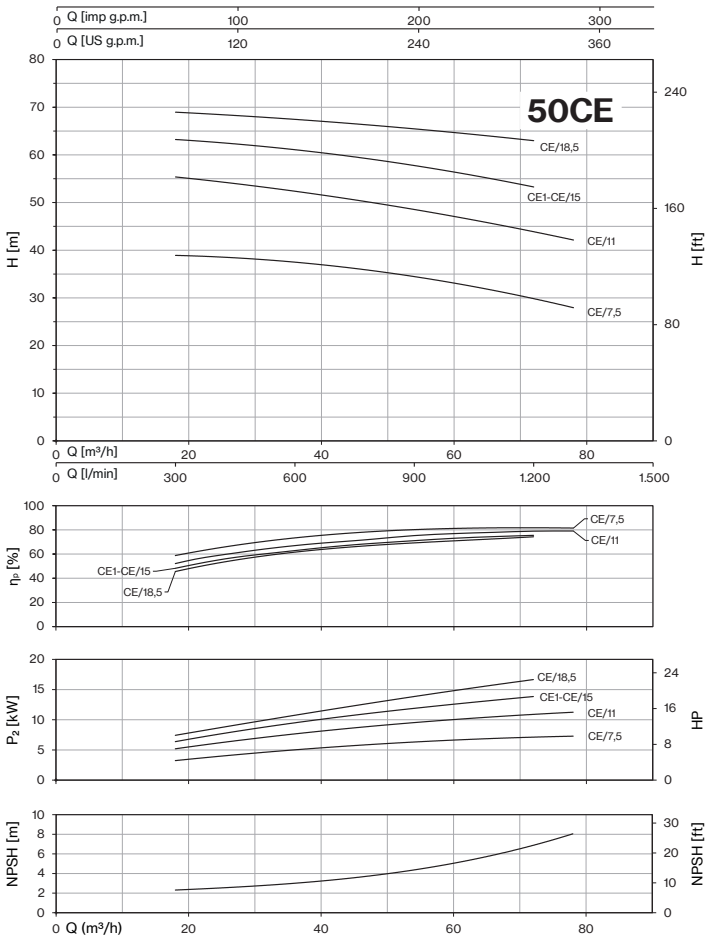
TYPE - 50 Hz	P2		P1	CUR.	Q (m³/h - l/min)																				
				3~ 400V	0	54	60	66	72	78	84	90	96	108	120	126	132	138	144	150	156	168	180	192	204	216
					0	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2100	2200	2300	2400	2500	2600	2800	3000	3200	3400	3600
	HP	kW	kW	A	H (m)																				
80BE/11	15	11	12,1	19,9	27,3	27,8	27,6	27,3	26,9	26,4	25,9	25,3	24,6	23,3	22,0	21,4	20,9	20,3	19,7	19,2	18,6	17,3	15,7	13,9	11,8	
80BE1/15	20	15	14,9	25,0	32,2	32,8	32,6	32,3	32,0	31,6	31,1	30,6	30,1	28,9	27,7	27,0	26,3	25,7	25,1	24,5	23,9	22,5	20,9	19,3	17,8	
80BE/15	20	15	15,0	25,5	32,2	32,8	32,6	32,3	32,0	31,6	31,1	30,6	30,1	28,9	27,7	27,0	26,3	25,7	25,1	24,5	23,9	22,5	20,9	19,3	17,8	
80BE/18,5	25	18,5	20,0	33,2	38,4	38,7	38,5	38,2	37,9	37,5	37,1	36,7	36,3	35,6	34,6	33,9	33,2	32,5	31,9	31,3	30,7	29,4	28,1	26,7	25,1	23,3
80CE/22	30	22	21,7	36,4	41,9	42,4	42,1	41,9	41,6	41,3	40,9	40,5	40,0	39,4	38,7	38,2	37,6	36,9	36,3	35,6	34,9	33,2	31,2	29,0		

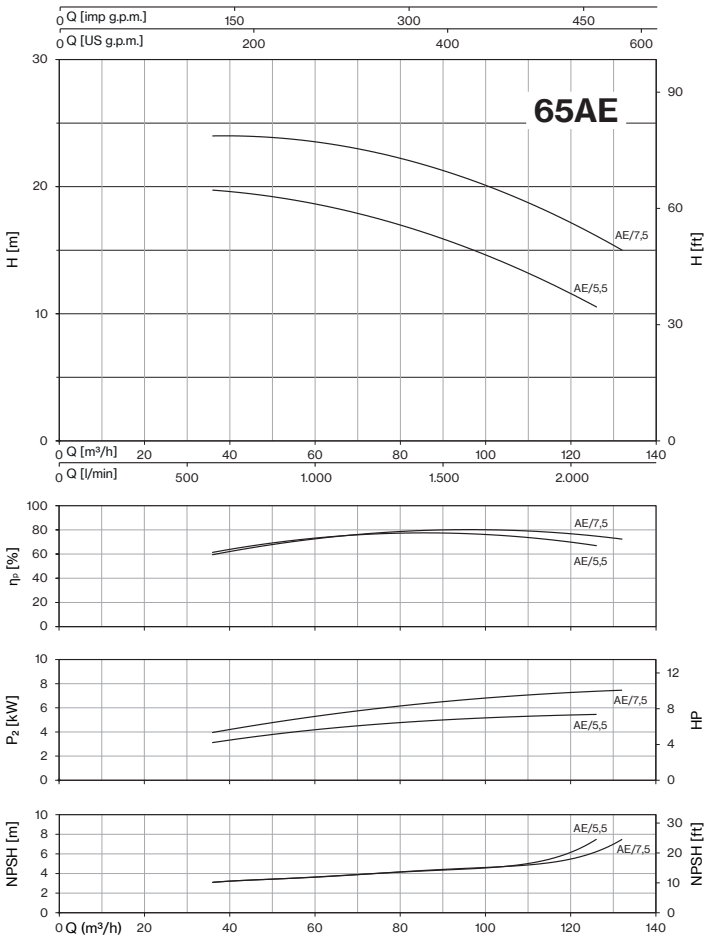
KMS


32BE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
BE/2,2
BE/1,5
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)
32CE
CE/5,5
CE/4
CE/3
40BE
BE/4
BE/3
40CE
CE/11
CE/7,5

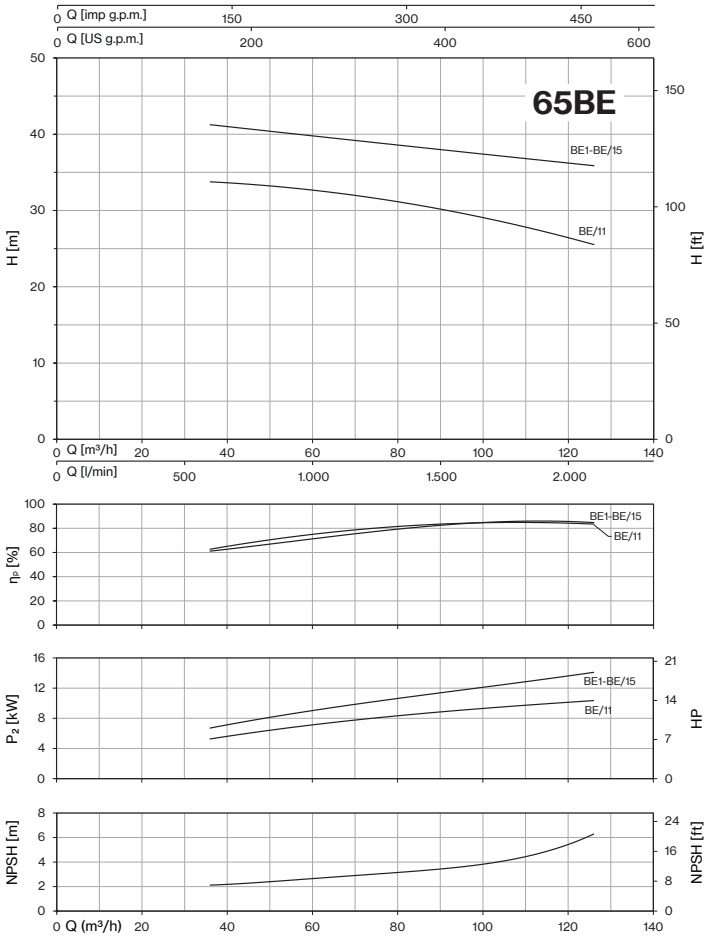

50AE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
AE/4
AE/3
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

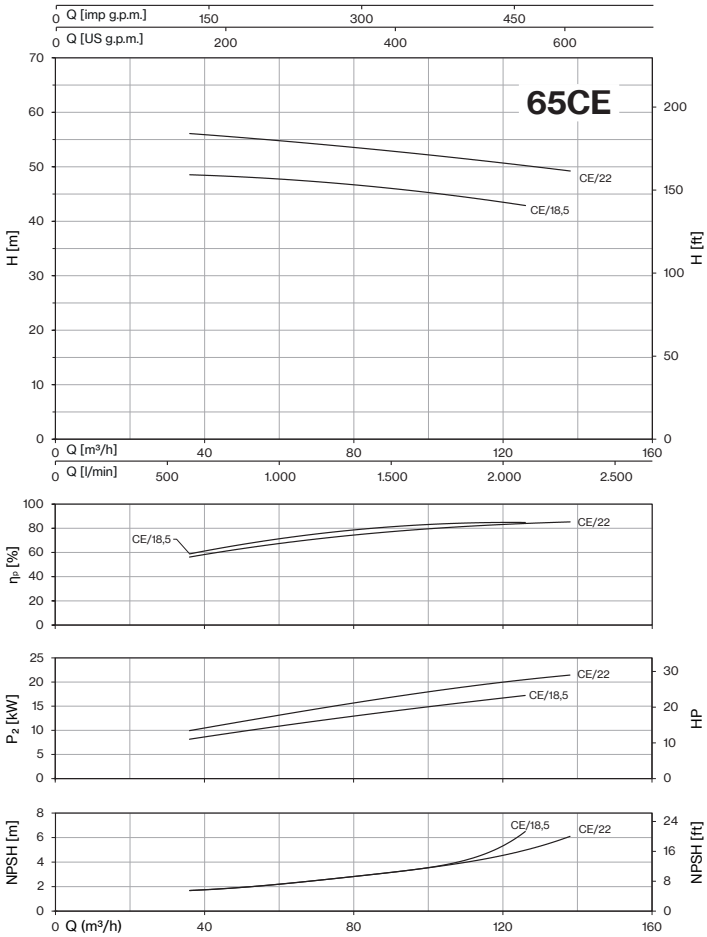

50BE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
BE/5,5
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

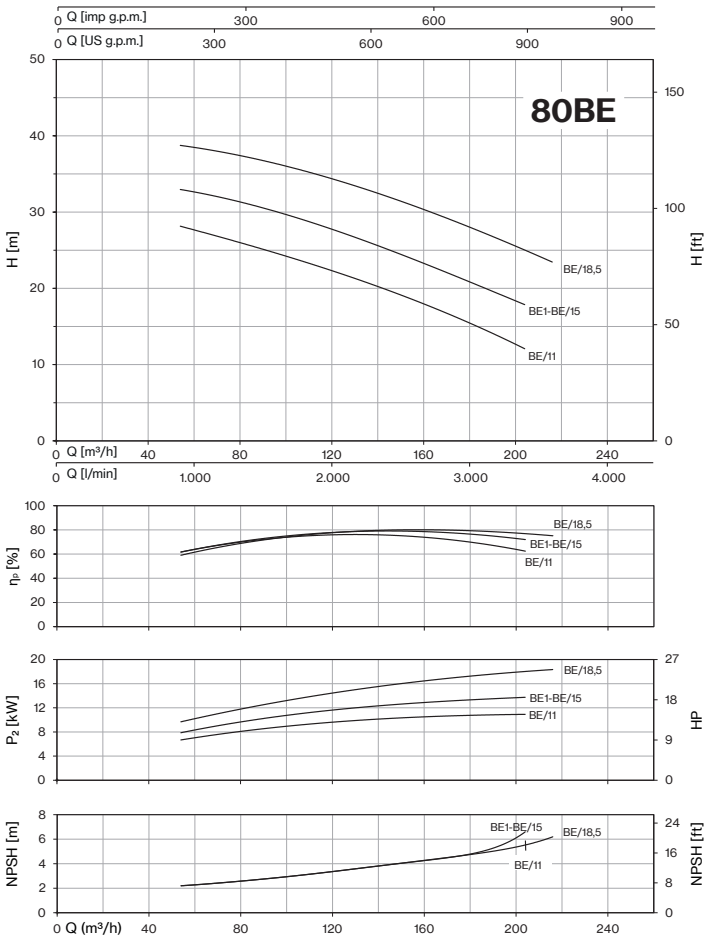

50CE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
CE/18,5
CE1-CE/15
CE/11
CE/7,5
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

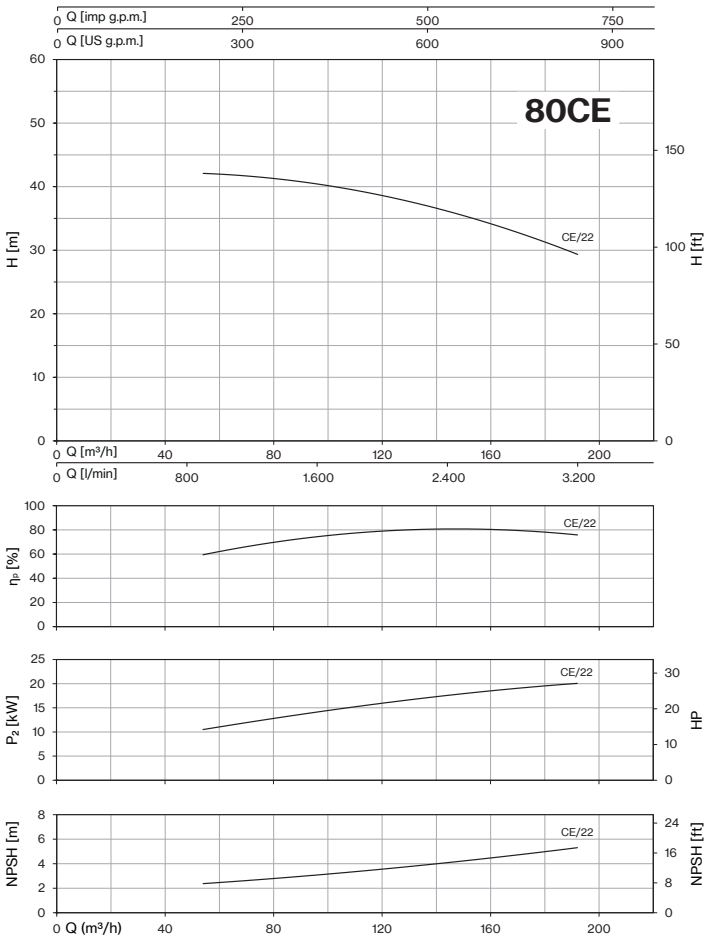

65AE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
AE/7,5
AE/5,5
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

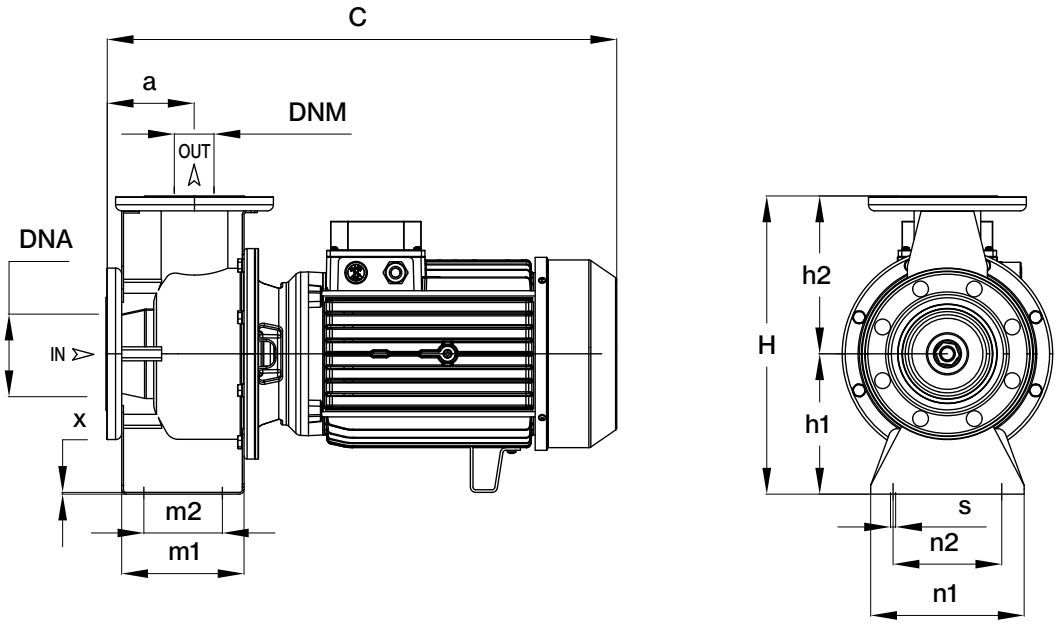
KMS


65BE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
BE1-BE/15
BE/11
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


65CE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
CE/22
CE/18,5
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


80BE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
BE/18,5
BE1-BE/15
BE/11
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


80CE
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
CE/22
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

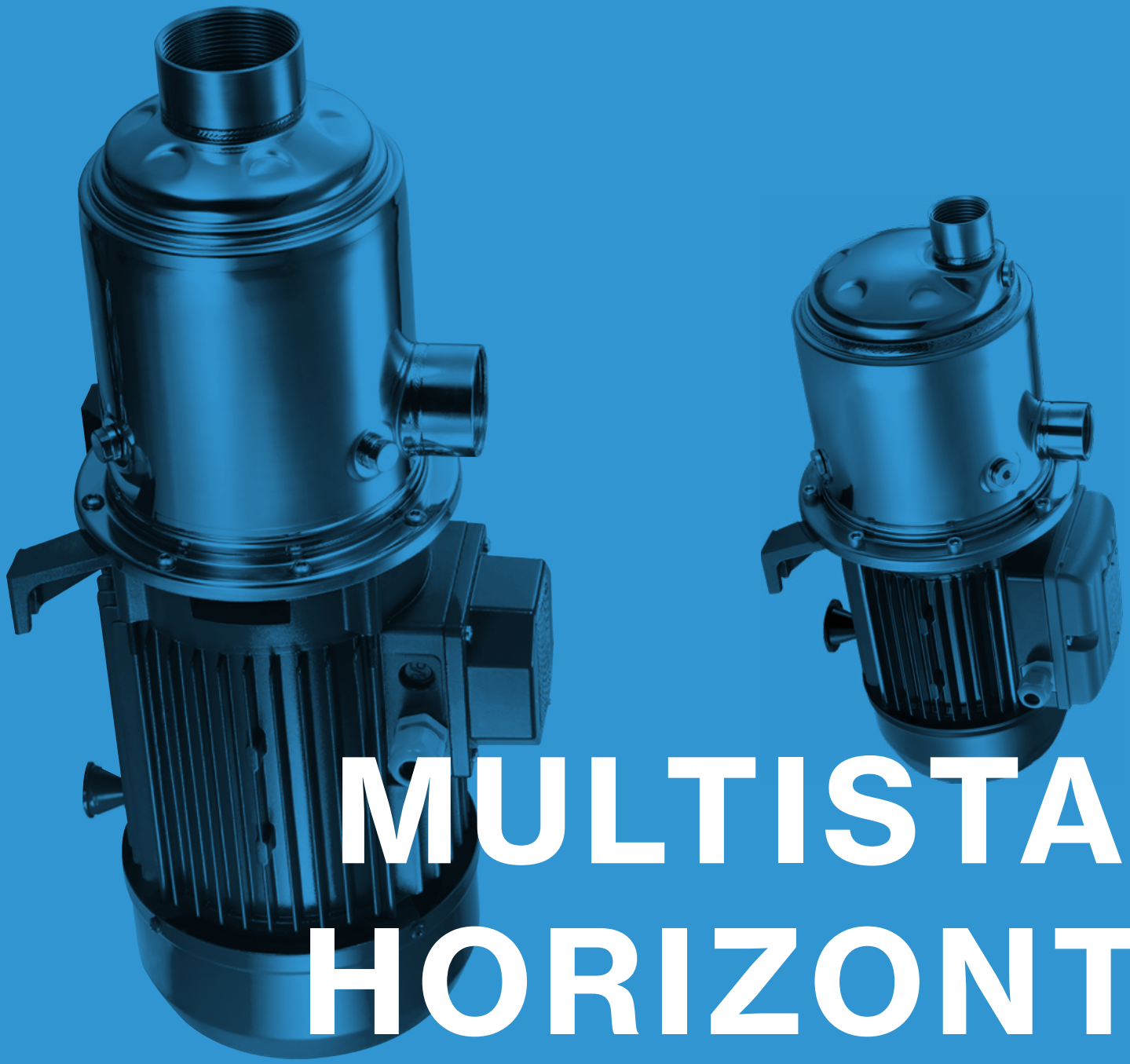


TYPE	DIMENSIONS (mm)																	Kg	
	a	h1	h2	m1	m2	n1	n2	x	s	C (1~)	C (3~)	H	DNA	DNM	I	L	M	1~	3~
32BE/1,5	80	132	140	125	75	175	148	2	10	501,5	501,5	272			555	255	345	28,5	27
32BE/2,2	80	132	140	125	75	175	148	2	10	501,5	501,5	272			555	255	345	33	29,5
32CE/3	80	160	180	125	75	175	148	2	10	-	506,5	340	50	32	625	310	430	-	35
32CE/4	80	160	180	125	75	175	148	2	10	571,5	526,5	340			625	310	430	51	42,5
32CE/5,5	80	160	180	125	75	175	148	2	10	-	571,5	340			625	310	430	-	51,5
40BE/1,5	80	132	160	125	75	175	148	2	10	506,5	506,5	292			555	255	345	28	26,5
40BE/2,2	80	132	160	125	75	175	148	2	10	506,5	506,5	292			555	255	345	32,5	29
40BE/3	80	132	160	125	75	175	148	2	10	-	506,5	292			555	255	345	-	32,5
40BE/4	80	132	160	125	75	175	148	2	10	566,5	521,5	292	65	40	555	255	345	48,5	40,5
40CE/5,5	100	160	180	140	93	175	148	2	10	-	586,5	340			625	310	430	-	51
40CE/7,5	100	160	180	140	93	175	148	2	10	-	586,5	340			625	310	430	-	57
40CE/11	100	160	180	140	93	175	148	2	10	-	616,5	340			670	350	525	-	80,5
50AE/3	100	132	160	125	75	175	148	2	10	-	506,5	292			555	255	345	-	33
50AE/4	100	132	160	125	75	175	148	2	10	571,5	526,5	292			555	255	345	49	40,5
50BE/5,5	100	160	180	140	93	175	148	2	10	-	586,5	340			625	310	430	-	51
50CE/7,5	100	160	200	140	93	175	148	2	10	-	586,5	360			625	310	430	-	57
50CE/11	100	160	200	140	93	175	148	2	10	-	616,5	360	65	50	670	350	525	-	80,5
50CE1/15	100	160	200	140	93	175	148	2	10	-	661,5	360			820	360	525	-	85
50CE/15	100	160	200	140	93	175	148	2	10	-	696,5	360			820	360	525	-	112
50CE/18,5	100	160	200	140	93	175	148	2	10	-	741,5	360			820	360	525	-	126
65AE/5,5	100	160	180	140	93	175	148	2	10	-	585	340			625	310	430	-	49,5
65AE/7,5	100	160	180	140	93	175	148	2	10	-	585	340			625	310	430	-	55,5
65BE/11	100	160	200	140	93	175	148	2	10	-	615	360			670	350	525	-	81
65BE1/15	100	160	200	140	93	175	148	2	10	-	660	360	80	65	820	360	525	-	85
65BE/15	100	160	200	140	93	175	148	2	10	-	695	360			820	360	525	-	112
65CE/18,5	100	180	225	140	93	175	148	2	10	-	740	405			820	360	525	-	126,5
65CE/22	100	180	225	140	93	175	148	2	10	-	740	405			820	360	525	-	137
80BE/11	125	180	225	167	93	175	148	2	10	-	649	405			820	360	525	-	82
80BE1/15	125	180	225	167	93	175	148	2	10	-	694	405			820	360	525	-	86
80BE/15	125	180	225	167	93	175	148	2	10	-	729	405	100	80	820	360	525	-	113
80BE/18,5	125	180	225	167	93	175	148	2	10	-	774	405			870	400	570	-	127,5
80CE/22	125	180	250	167	93	175	148	2	10	-	774	430			870	400	570	-	138

KMS Serie-Mechanical seal and bearings

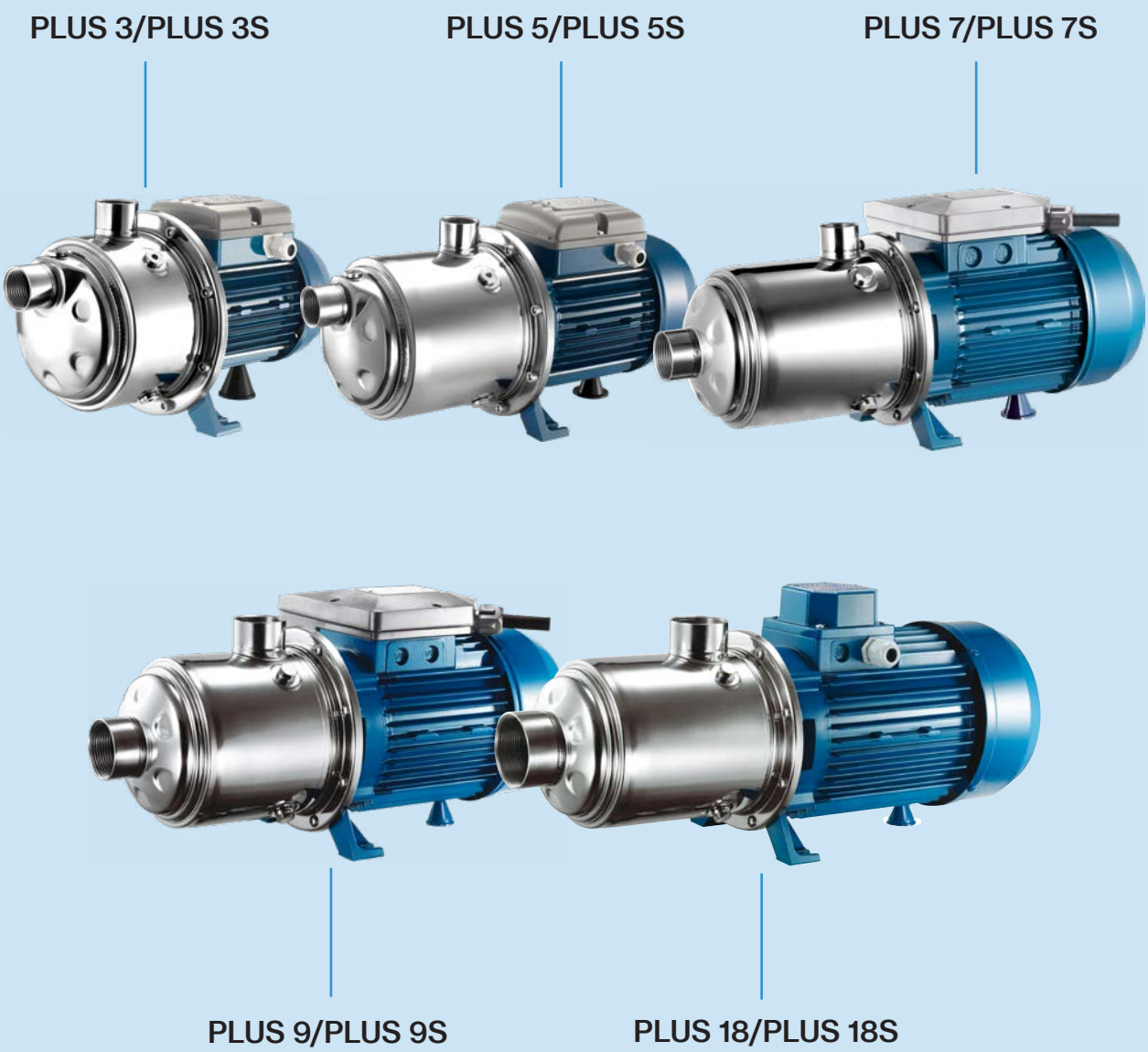
MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	32BE/1,5 - 32BE/2,2 - 32CE/3 - 40BE/1,5 - 40BE/2,2 - 40BE/3 - 50AE/3	20mm	***Rotating face***	Ceramic	Ceramic	-	SiC	SiC
			Stationary face	Graphite	Graphite	-	SiC	SiC
			Elastomer	NBR	EPDM	-	EPDM	FKM
	32CE/4 - 32CE/5,5 - 40BE/4 - 40CE/5,5 - 40CE/7,5 - 40CE/11 - 50AE/4 - 50BE/5,5 - 50CE/7,5 - 50CE/11 - 50CE/15 - 50CE1/15 - 50CE/18,5 - 65AE/5,5 - 65AE/7,5 - 65BE/11 - 65BE1/15 - 65BE/15 - 65CE/18,5 - 65CE/22 - 80BE/11 - 80BE1/15 - 80BE/15 - 80BE/18,5 - 80CE/22	28mm	***Rotating face***	Ceramic	Ceramic	Ceramic	SiC	SiC
			Stationary face	Graphite	Graphite	Graphite	SiC	SiC
			Elastomer	NBR	EPDM	FKM	EPDM	FKM

BEARINGS	PUMP MODEL	TYPE	
	32CE/4 - 40BE/4 - 50AE/4	6204-ZZ	6206-ZZ C3
	32BE/1,5 - 32BE/2,2 - 32CE/3 - 40BE/1,5 - 40BE/2,2 - 40BE/3 - 50AE/3	6205-ZZ C3	6203-ZZ
	1~ 32CE/4 - 32CE/5,5 - 1~ 40BE/4 - 40CE/5,5 - 40CE/7,5 - 1~ 50AE/4 - 50BE/5,5 - 50CE/7,5 - 65AE/5,5 - 65AE/7,5	6206-ZZ C3	6306-ZZ C3
	40CE/11 - 50CE/11 - 65BE/11 - 80BE/11	6206-ZZ C3	6308-ZZ C3
	65BE1/15 - 50CE1/15 - 80BE1/15	6308-ZZ C3	6306-ZZ C3
	50CE/15 - 50CE/18,5 - 65BE/15 - 65CE/18,5 - 65CE/22 - 80BE/15 - 80BE/18,5 - 80CE/22	6308-ZZ C3	6309-ZZ C3



MULTISTAGE HORIZONTAL

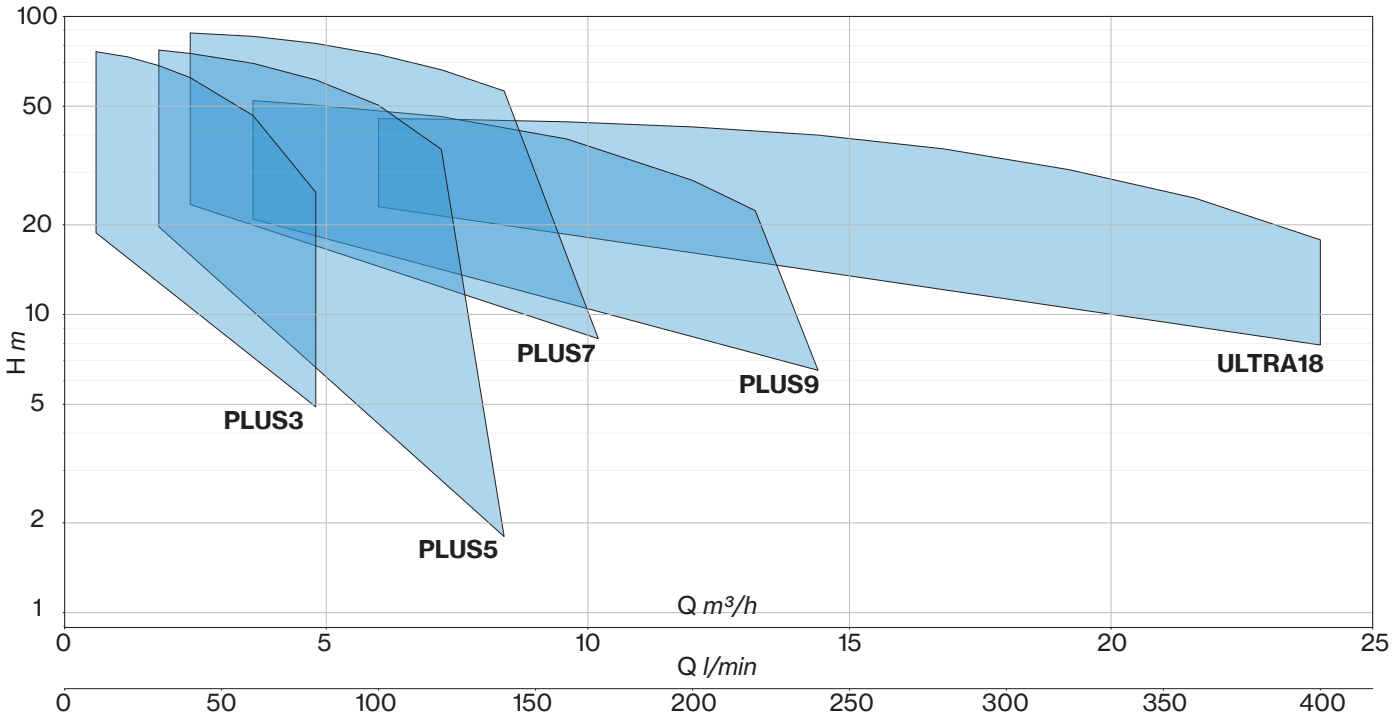
MULTISTAGE HORIZONTAL PUMPS



Range of horizontal multistage pumps, not self-priming, with axial suction and radial delivery threads, pump body in AISI 304 and hydraulic part in Noryl (PLUS) and in AISI 304 (PLUS S).

Applications:

- Handling of uncharged liquids
- For pressurization systems
- Irrigation
- Drinking water treatment
- Food industry
- Heating and conditioning
- Industrial washing systems


100
50
20
10
5
2
1
H m
PLUS3
PLUS5
PLUS7
PLUS9
ULTRA18
Q m³/h
0
5
10
15
20
25
Q l/min
0
50
100
150
200
250
300
350
400

PLUS

Multistage Horizontal



PLUS 3



PLUS 5



PLUS 7



PLUS 9



PLUS 18

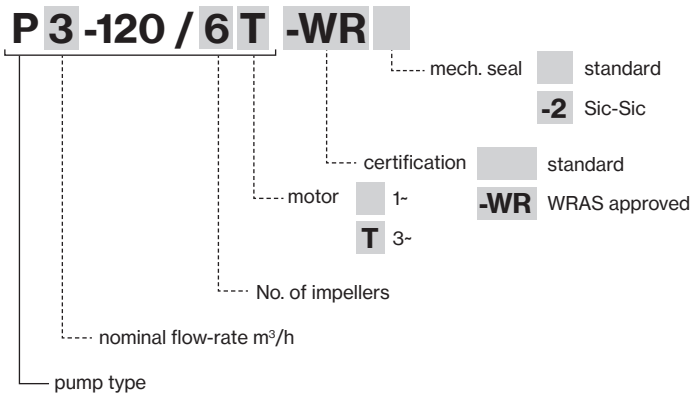


Stainless steel multistage horizontal pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, heating and air conditioning, washing system.

Construction features	
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	Noryl®
Mechanical seal	ceramic-graphite-EPDM ≤ 6 impellers graphite-silicon carbide-EPDM ≥ 7 impellers
Motor shaft	stainless steel AISI 303
Liquid temperature	-5 ÷ +35 °C
Operating pressure	max 8,5 bar

Motor	
2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4





WRAS APPROVED PRODUCT
CERTIFICATION MARK

TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8
								0	10	20	30	40	60	80
		HP	kW	kW		A								
P 3-50/2	P 3-50/2T	0,5	0,37	0,45	0,46	2	0,9	20,2	18,8	17,3	15,3	13,7	9,5	4,9
P 3-70/3	P 3-70/3T	0,7	0,51	0,65	0,63	2,9	1,2	30,0	27,9	25,4	23,0	20,3	14,0	6,7
P 3-90/4	P 3-90/4T	0,9	0,66	0,9	0,88	4	1,8	40,8	38,3	35,1	31,8	27,9	19,8	10,4
P 3-100/5	P 3-100/5T	1	0,75	1,06	1,01	4,8	1,9	52,2	48,9	45,1	40,8	36,0	25,4	14,0
P 3-120/6	P 3-120/6T	1,2	0,9	1,23	1,23	5,6	2,6	62,8	58,7	54,5	49,6	43,9	32,1	18,3
P 3-150/7	P 3-150/7T	1,5	1,1	1,3	1,2	6,1	3,0	77,1	76,1	73,2	68,4	62,3	46,5	25,7

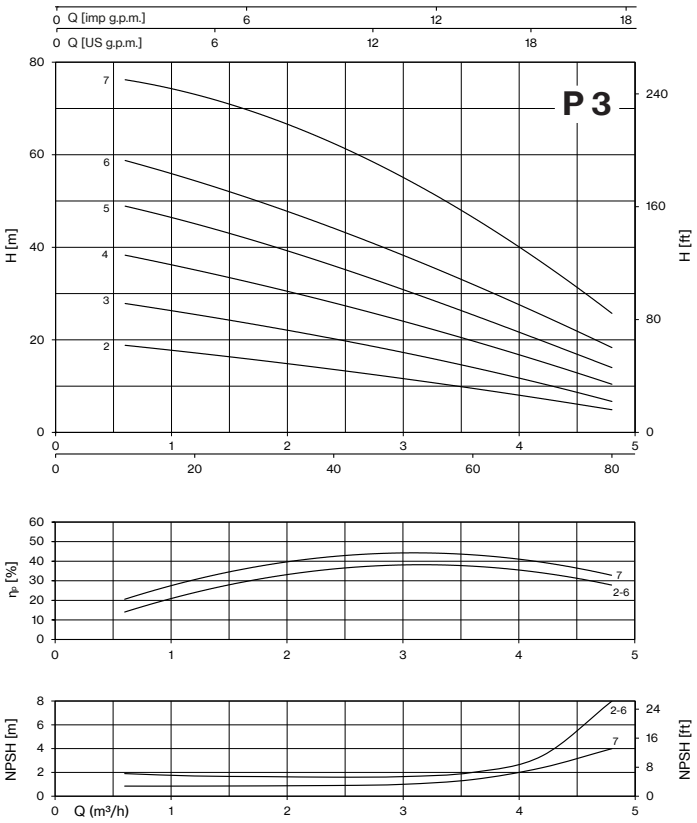
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,8	2,4	3,6	4,8	6	7,2	8,4
								0	30	40	60	80	100	120	140
		HP	kW	kW		A		H (m)							
P 5-70/2	P 5-70/2T	0,7	0,51	0,61	0,58	2,7	1,1	22,0	19,7	18,7	16,6	14,0	10,8	6,8	1,8
P 5-80/3	P 5-80/3T	0,8	0,6	0,86	0,79	3,9	1,5	33,4	30,3	29,0	26,0	22,5	17,6	12,0	3,9
P 5-120/4	P 5-120/4T	1,2	0,9	1,13	1,13	5,2	2,5	45,3	41,3	39,6	35,6	30,8	24,9	17,6	6,4
P 5-150/5	P 5-150/5T	1,5	1,1	1,4	1,4	6,6	3,1	57,6	55,6	54,2	50,5	45,0	37,0	27,4	
P 5-180/6	P 5-180/6T	2	1,5	1,6	1,6	7,4	3,3	69,1	66,5	64,8	60,1	53,2	43,8	32,0	
P 5-200/7	P 5-200/7T	2	1,5	1,9	1,8	8,6	3,6	80,6	77,1	75,1	69,6	61,3	50,4	35,8	

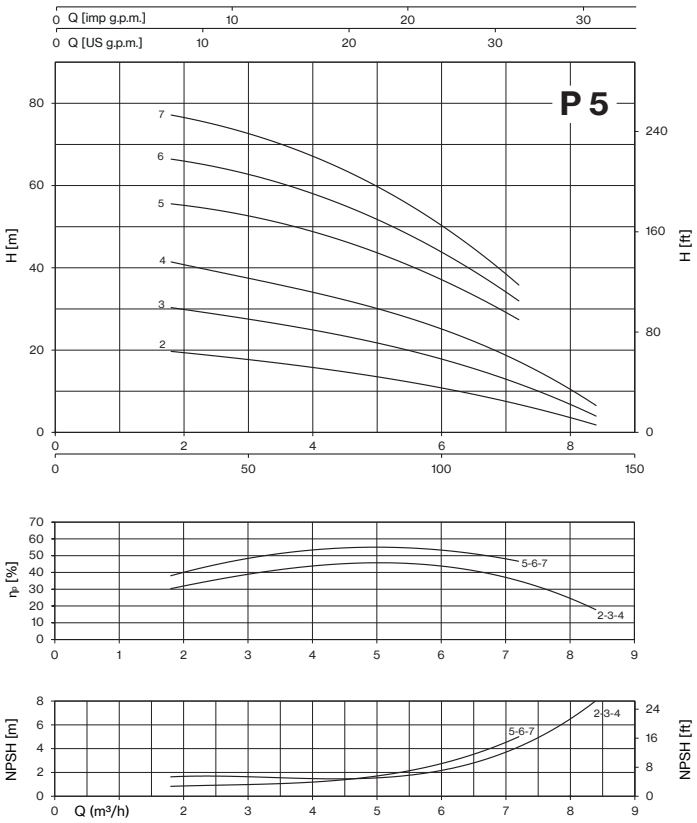
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,2
								0	40	60	80	100	120	140	160	170
		HP	kW	kW		A		H (m)								
P 7-100/2	P 7-100/2T	1	0,75	0,97	0,9	4,4	1,7	24,8	23,4	22,0	20,5	18,7	16,3	13,6	10,2	8,3
P 7-120/3	P 7-120/3T	1,2	0,9	1,32	1,3	5,9	2,6	36,7	34,0	32,0	29,6	26,5	23,0	18,6	13,8	11,0
P 7-180/4	P 7-180/4T	2	1,5	1,7	1,6	7,9	3,3	49,6	48,4	46,7	43,8	39,9	34,9	28,9		
P 7-250/5	P 7-250/5T	2,5	1,85	2,2	2,0	9,9	4,0	63,2	62,1	60,3	56,9	52,1	46,2	39,0		
P 7-300/6	P 7-300/6T	3	2,2	2,5	2,4	11,5	4,7	76,0	75,1	73,1	69,2	63,6	56,8	48,2		
-	P 7-350/7T	3,5	2,57	-	2,8	-	5,1	89,0	88,0	85,8	81,2	74,5	66,3	56,2		

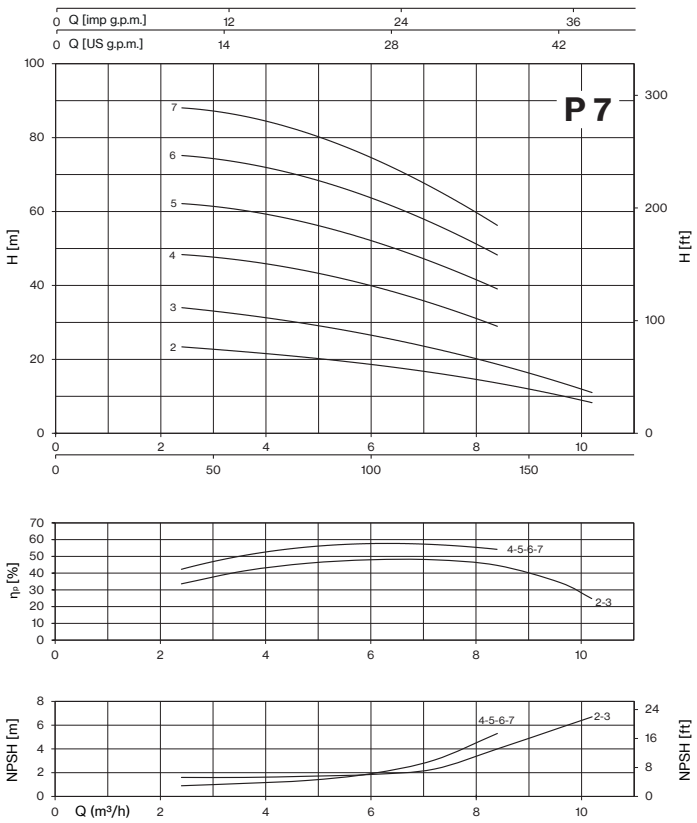
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3,6	4,8	7,2	9,6	12	13,2	14,4
								0	60	80	120	160	200	220	240
		HP	kW	kW		A		H (m)							
P 9-100/2	P 9-100/2T	1	0,75	0,98	0,92	4,4	1,7	23,0	20,9	20,0	17,9	15,0	11,1	8,9	6,5
P 9-150/3	P 9-150/3T	1,5	1,1	1,4	1,4	6,6	3,1	35,0	32,8	31,7	28,5	24,1	17,9	14,3	
P 9-200/4	P 9-200/4T	2	1,5	1,8	1,7	8,3	3,5	45,8	42,1	40,7	37,3	31,3	23,0	17,9	
P 9-250/5	P 9-250/5T	2,5	1,85	2,3	2,1	10,4	4,1	56,9	52,2	50,4	46,1	38,8	28,2	22,3	

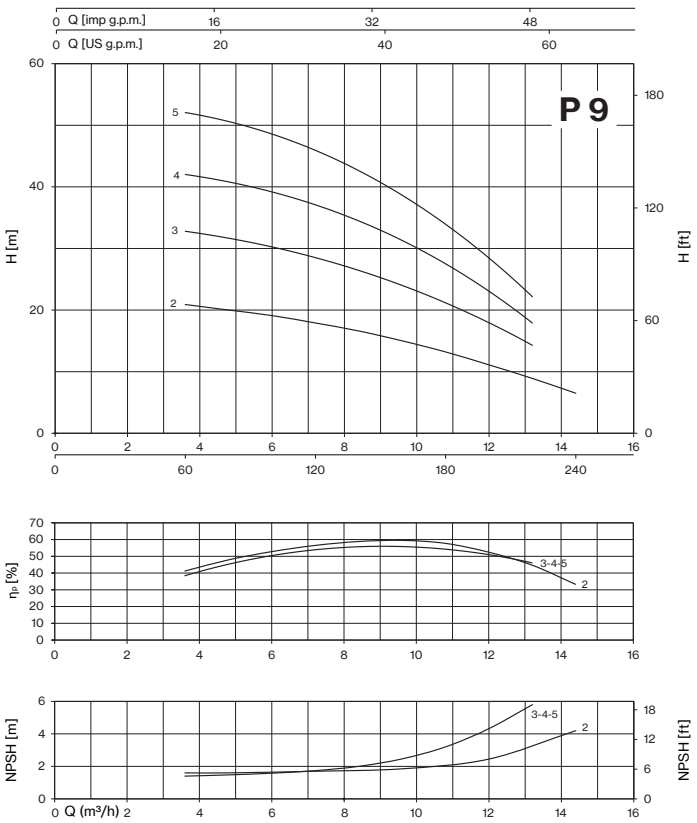
TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)									
3~				3~ 400V	0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	24
					0	100	120	160	200	240	280	320	360	400
	HP	kW	kW	A	H (m)									
P 18-180/2T	2	1,5	1,6	3,3	23,6	23,0	22,4	21,9	20,6	18,6	17,0	13,8	11,2	7,9
P 18-250/3T	2,5	1,85	2,2	4,2	34,7	32,9	32,6	31,6	30,1	28,0	24,7	20,6	15,9	10,7
P 18-400/4T	4	3	3,0	5,8	47,1	45,4	45,2	44,3	42,6	40,0	36,0	30,6	24,6	17,8

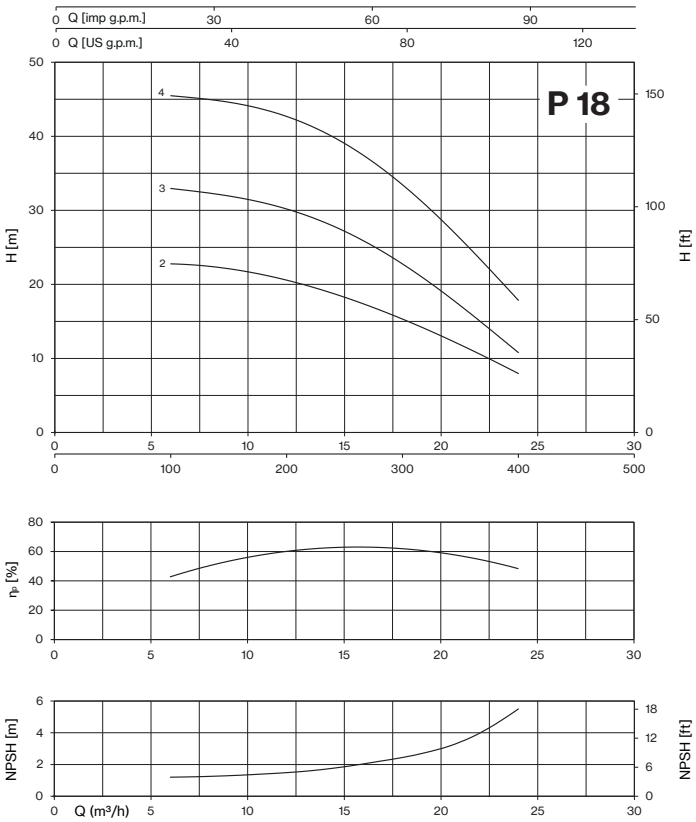
PLUS


P 3
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)


P 5
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)

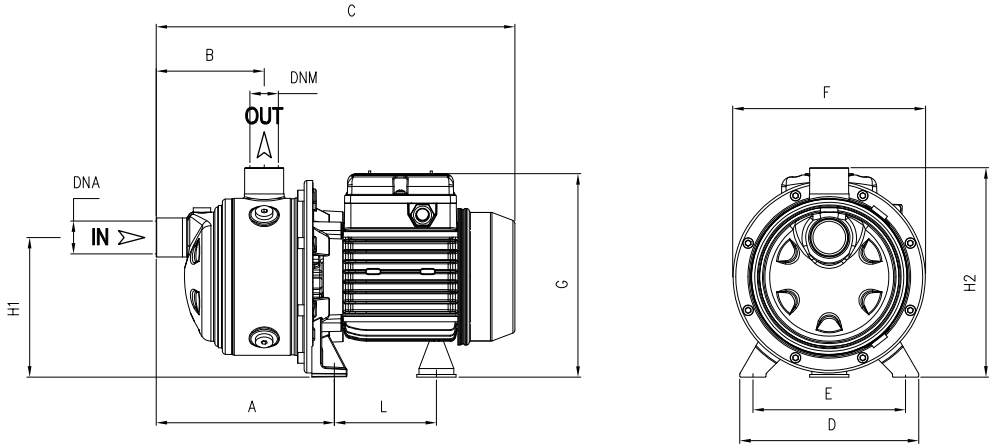

P 7
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)


P 9
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)

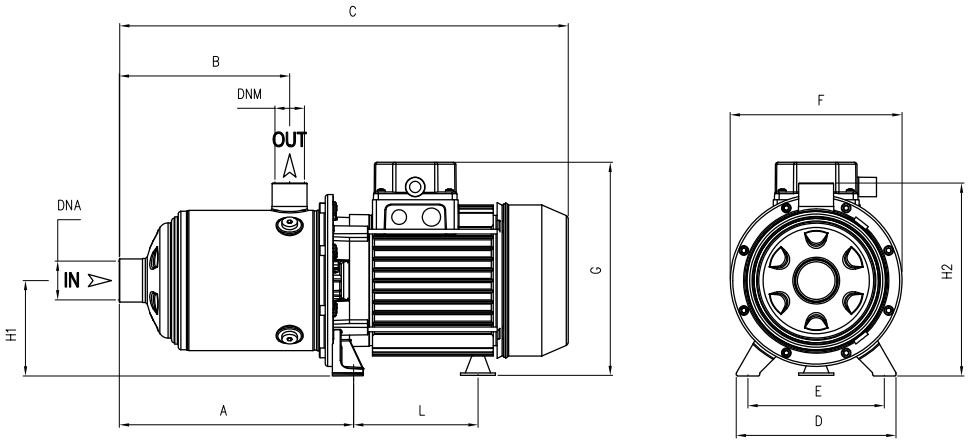


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3-50/2(T)÷90/4(T)	80×120×150	84	80×120×175	96
P 3-100/5(T)÷120/6(T)	85×110×160	70	85×110×185	80
P 3-150/7(T)	90×110×150	48	90×110×170	56
P 5-70/2(T)	80×120×150	84	80×120×175	96
P 5-80/3(T)÷120/4(T)	85×110×160	70	85×110×185	80
P 5-150/5(T)	90×110×150	48	90×110×170	56
P 5-180/6(T)÷200/7(T)	80×120×150	42	80×120×175	49
P 7-100/2(T)÷120/3(T)	85×110×160	70	85×110×185	80
P 7-180/4(T)÷250/5(T)	90×110×150	48	90×110×170	56
P 7-300/6	80×120×150	42	80×120×175	49
P 7-300/6T	90×110×150	48	90×110×170	56
P 7-350/7T	80×120×155	30	80×120×180	35
P 9-100/2(T)	85×110×160	70	85×110×185	80
P 9-150/3÷200/4(T)	90×110×150	48	90×110×170	56
P 9-250/5(T)	90×110×150	48	90×110×170	56
P 18-180/2T÷250/3T	90×110×150	48	90×110×170	56
P 18-400/4T	80×120×150	42	80×120×175	49

PLUS



TYPE		DIMENSIONS (mm)															Kg	
~1	~3	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	I	L	M	~1	~3
P 3-50/2	**P 3-50/2T**	166,8	103	333	164	140	176	190	93,7	128	192	1" G	1" G	369	189	220	6,5	6
P 3-70/3	**P 3-70/3T**	166,8	103	333	164	140	176	190	93,7	128	192			369	189	220	7	7
P 3-90/4	**P 3-90/4T**	190,8	127	357	164	140	176	190	93,7	128	192			369	189	220	8,5	8,5
P 3-100/5	**P 3-100/5T**	214,8	151	404	164	140	176	203	104,7	128	192			444	189	220	10,5	10,5
P 3-120/6	**P 3-120/6T**	238,8	175	428	164	140	176	203	104,7	128	192			444	189	220	11,5	11,5
P 3-150/7	**P 3-150/7T**	262,8	199	513	164	140	176	217	128,2	134	198			529	189	240	14,5	14
P 5-70/2	**P 5-70/2T**	166,8	103	333	164	140	176	195	93,7	128	192			369	189	220	7	7
P 5-80/3	**P 5-80/3T**	166,8	103	357	164	140	176	203	93,7	128	192			444	189	220	9,5	10,5
P 5-120/4	**P 5-120/4T**	190,8	127	380	164	140	176	203	104,7	128	192			444	189	220	11	11
P 5-150/5	**P 5-150/5T**	214,8	151	466	164	140	176	217	128,2	134	198			529	189	240	17,5	17,5
P 5-180/6	**P 5-180/6T**	238,8	175	489	164	140	176	217	128,2	134	198			529	189	240	17,5	18
P 5-200/7	**P 5-200/7T**	262,8	199	513	164	140	176	217	128,2	134	198			529	189	240	17	18



TYPE		DIMENSIONS (mm)															Kg	
~1	~3	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	I	L	M	~1	~3
P 7-100/2	**P 7-100/2T**	166,8	103	356	164	140	176	203	104,7	92	192	1" ¼ G	1" G	444	189	220	10	10
P 7-120/3	**P 7-120/3T**	166,8	103	356	164	140	176	203	104,7	92	192			444	189	220	10,5	10,5
P 7-180/4	**P 7-180/4T**	190,8	127	441	164	140	176	217	128,2	98	198			529	189	240	16	17
P 7-250/5	**P 7-250/5T**	214,8	151	466	164	140	176	217	128,2	98	198			529	189	240	17,5	16,5
P 7-300/6	**P 7-300/6T**	238,8	175	543 T 489	164	140	176	229 T 211	148,2 T 128,2	103 T 98	203 T 198			580 529	231 189	235 240	24,5	18
-	**P 7-350/7T**	262,8	199	567	164	140	176	229	148,2	103	203			580	231	235	-	22
P 9-100/2	**P 9-100/2T**	185,8	118	375	164	140	176	203	104,7	98	192	1" ½ G	1" ¼ G	444	189	220	10	10
P 9-150/3	**P 9-150/3T**	185,8	118	405	164	140	176	217	128,2	98	198			529	189	240	17	17
P 9-200/4	**P 9-200/4T**	215,8	148	466	164	140	176	217	128,2	98	198			529	189	240	16	17,5
P 9-250/5	**P 9-250/5T**	245,8	178	494	164	140	176	217	128,2	98	198			529	189	240	17,5	16,5
-	**P 18-180/2T**	201	141	462	164	140	176	217	128,2	98	198	2" G	1" ½ G	529	189	240	-	14
-	**P 18-250/3T**	238,5	141	462	164	140	176	217	128,2	98	198			529	189	240	-	16
-	**P 18-400/4T**	276	178,5	554	164	140	176	229	148,2	103	203			580	231	235	-	24

PLUS S

Stainless steel multistage horizontal pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, heating and air conditioning, washing system.

Construction features	
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM ≤ 6 impellers graphite-silicon carbide-EPDM ≥ 7 impellers
Motor shaft	stainless steel AISI 303
Liquid temperature	-15 ÷ +110 °C
Operating pressure	max 8,5 bar

Motor	
2 poles induction motor	3~ 230/400V - 50Hz 1~ 230V - 50Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4



P 3 S - 120 / 6 T -WR

- pump type: P
- nominal flow-rate m³/h: 3
- stainless steel hydraulic part: S
- No. of impellers: 120 / 6
- motor: T = 3~, (blank) = 1~
- certification: -WR = WRAS approved, (blank) = standard
- mech. seal: -2 = Sic-Sic, (blank) = standard

WRAS APPROVED PRODUCT
CERTIFICATION MARK



PLUS 3S



PLUS 5S



PLUS 7S



PLUS 9S



PLUS 18S



PLUS S

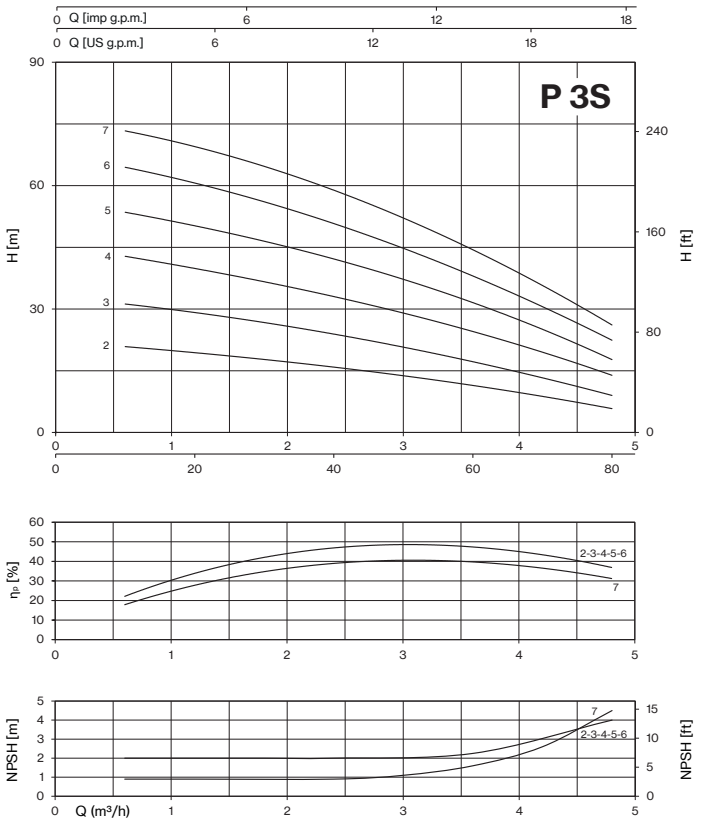
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8
								0	10	20	30	40	60	80
		HP	kW	kW		A		H (m)						
P 3S-50/2	**P 3S-50/2T**	0,5	0,37	0,41	0,41	1,8	0,9	21,7	20,9	19,3	17,8	15,9	11,4	5,8
P 3S-70/3	**P 3S-70/3T**	0,7	0,51	0,61	0,58	2,7	1,1	32,7	31,2	29,2	26,7	23,9	17,2	9,0
P 3S-90/4	**P 3S-90/4T**	0,9	0,66	0,83	0,8	3,6	1,7	44,3	42,8	40,0	36,4	33,2	24,5	13,9
P 3S-100/5	**P 3S-100/5T**	1	0,75	0,99	0,92	4,4	1,7	55,3	53,5	50,3	46,5	42,1	31,6	17,7
P 3S-120/6	**P 3S-120/6T**	1,2	0,9	1,11	1,11	5,1	2,5	66,6	64,4	60,8	56,0	50,7	38,1	22,4
P 3S-150/7	**P 3S-150/7T**	1,5	1,1	1,4	1,4	6,6	3,1	75,6	73,3	69,4	64,8	58,9	44,4	26,1

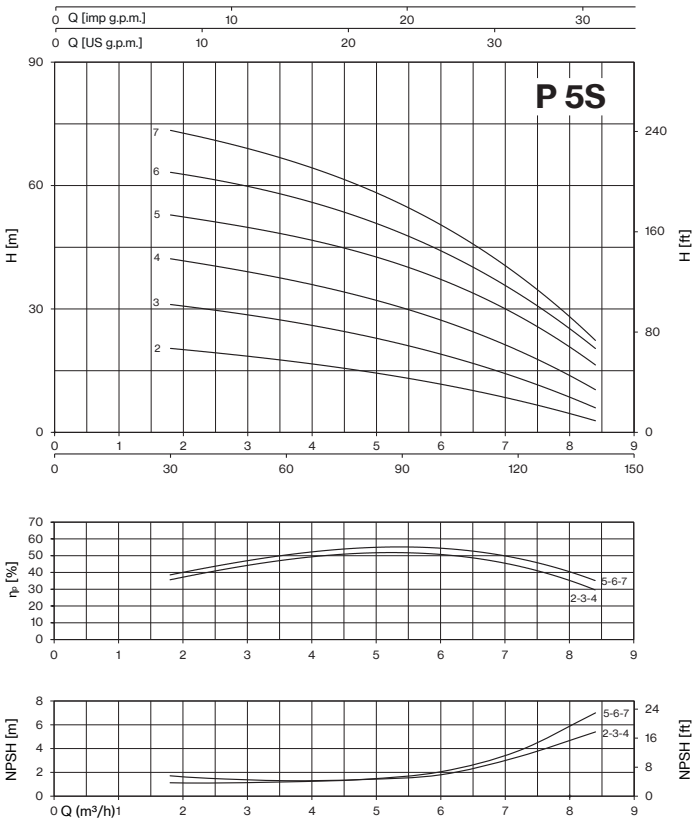
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,8	2,4	3,6	4,8	6	7,2	8,4
								0	30	40	60	80	100	120	140
		HP	kW	kW		A		H (m)							
P 5S-70/2	**P 5S-70/2T**	0,7	0,51	0,6	0,58	2,6	1,1	22,3	20,4	19,5	17,5	14,8	11,7	7,8	2,8
P 5S-80/3	**P 5S-80/3T**	0,8	0,6	0,8	0,75	3,8	1,4	34,0	31,1	29,9	27,0	23,6	19,1	13,1	6,0
P 5S-120/4	**P 5S-120/4T**	1,2	0,9	1,09	1,08	4,9	2,4	45,5	42,2	40,7	37,2	32,9	27,4	19,8	10,4
P 5S-150/5	**P 5S-150/5T**	1,5	1,1	1,4	1,3	6,6	3,1	55,9	52,8	51,4	48,1	43,4	37,3	28,3	16,4
P 5S-180/6	**P 5S-180/6T**	2	1,5	1,6	1,6	7,4	3,3	67,0	63,3	61,6	57,6	51,9	44,2	33,6	20,4
P 5S-200/7	**P 5S-200/7T**	2	1,5	1,9	1,8	8,6	3,6	77,8	73,5	71,3	66,3	59,6	50,7	38,0	22,4

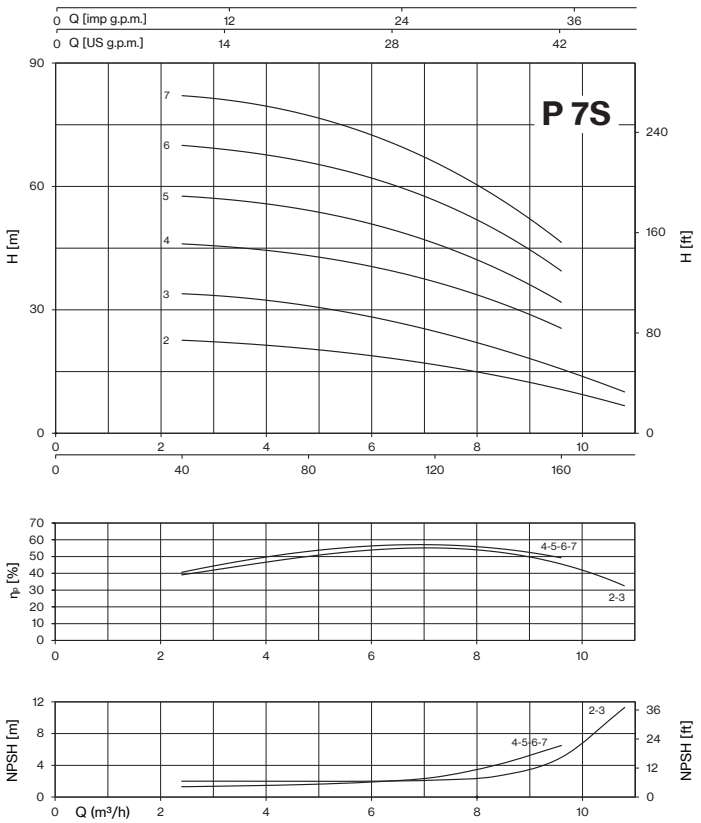
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	2,4	3,6	4,8	6	7,2	9,6	10,8
								0	40	60	80	100	120	160	180
		HP	kW	kW		A		H (m)							
P 7S-100/2	**P 7S100/2T**	1	0,75	0,91	0,84	4,1	1,6	23,6	22,6	21,8	20,5	18,8	16,7	10,6	6,7
P 7S-120/3	**P 7S-120/3T**	1,2	0,9	1,23	1,22	5,6	2,5	35,6	33,9	32,8	31,2	28,1	24,7	15,7	10,0
P 7S-180/4	**P 7S-180/4T**	2	1,5	1,8	1,7	8,3	3,5	46,7	46,0	45,2	43,1	40,3	36,9	25,5	
P 7S-250/5	**P 7S-250/5T**	2,5	1,85	2,2	2,1	9,9	4,0	58,5	57,6	56,6	54,1	50,8	46,1	31,8	
P 7S-300/6	**P 7S-300/6T**	3	2,2	2,6	2,5	12,1	4,8	70,6	69,9	68,7	65,8	61,8	56,6	39,3	
-	**P 7S-350/7T**	3,5	2,57	-	2,9	-	5,3	82,8	82,0	80,6	77,2	72,3	66,0	46,4	

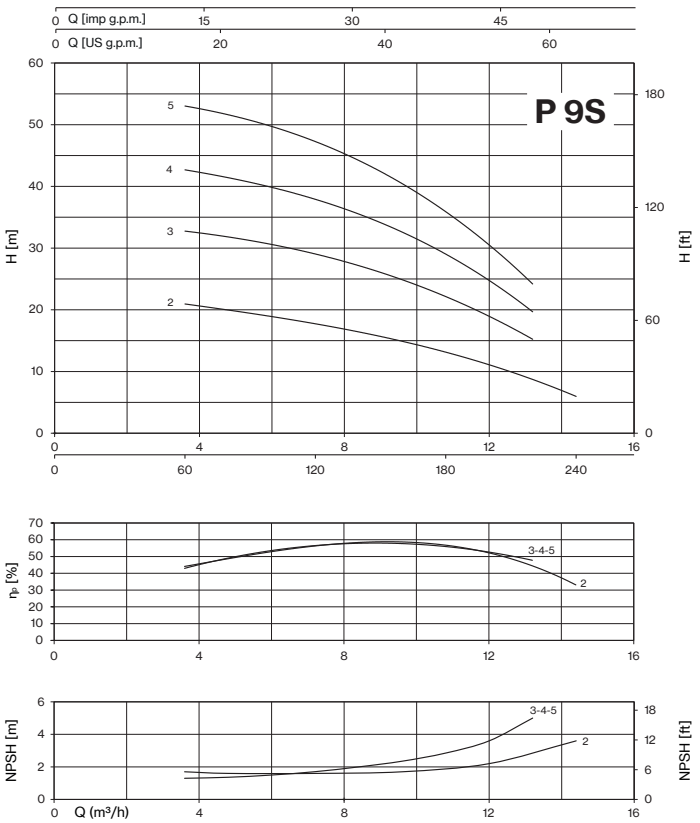
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)								
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3,6	4,8	6	7,2	9,6	12	13,2	14,4
								0	60	80	100	120	160	200	220	240
		HP	kW	kW		A		H (m)								
P 9S-100/2	**P 9S-100/2T**	1	0,75	0,99	0,95	4,5	1,6	23,9	21,0	20,0	18,8	17,7	15,0	11,0	8,7	6,0
P 9S-150/3	**P 9S-150/3T**	1,5	1,1	1,5	1,4	7,0	3,1	35,1	32,8	31,8	30,6	29,0	24,9	18,9	15,2	
P 9S-200/4	**P 9S-200/4T**	2	1,5	1,8	1,8	8,3	3,6	45,8	42,7	41,5	39,7	37,8	32,7	24,6	19,8	
P 9S-250/5	**P 9S-250/5T**	2,5	1,85	2,3	2,2	10,4	4,2	57,1	53,1	51,6	49,5	47,2	40,6	30,2	24,4	

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)									
3~				3~ 400V	0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	24
					0	100	120	160	200	240	280	320	360	400
	HP	kW	kW	A	H (m)									
P 18S-180/2T	2	1,5	1,6	3,3	23,8	22,3	21,8	20,6	19,1	17,5	15,7	13,5	10,9	7,8
P 18S-250/3T	2,5	1,85	2,3	4,3	33,8	31,6	31,0	29,4	27,4	25,4	23,2	20,4	16,3	11,5
P 18S-400/4T	4	3	3,1	5,9	46,3	44,2	43,4	41,4	39,1	36,7	34,1	30,8	25,6	19,0

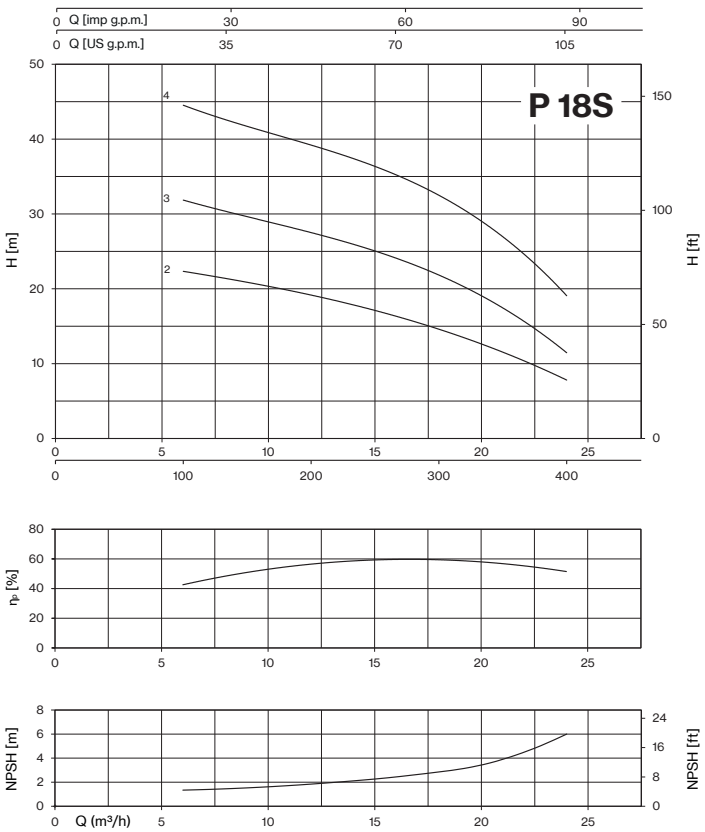

P 3S
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)
2-3-4-5-6
7


P 5S
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)
5-6-7
2-3-4

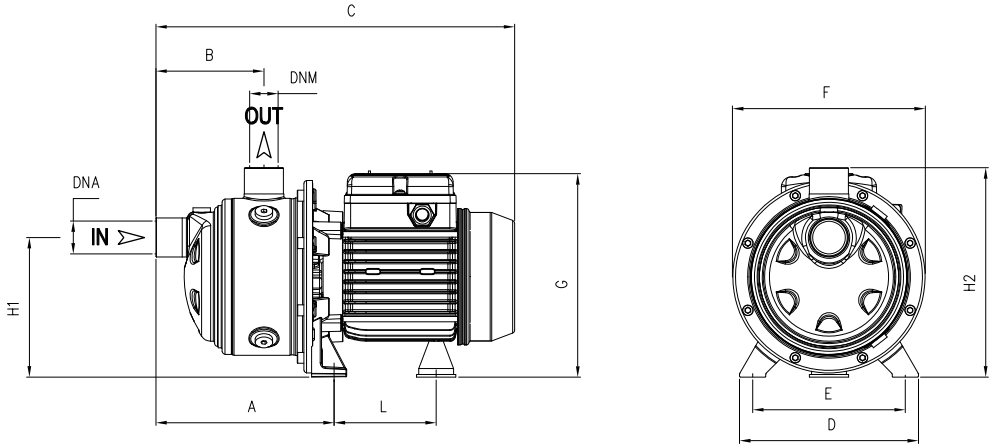

P 7S
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)
4-5-6-7
2-3


P 9S
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
ηp [%]
NPSH [m]
NPSH [ft]
Q (m³/h)
3-4-5
2

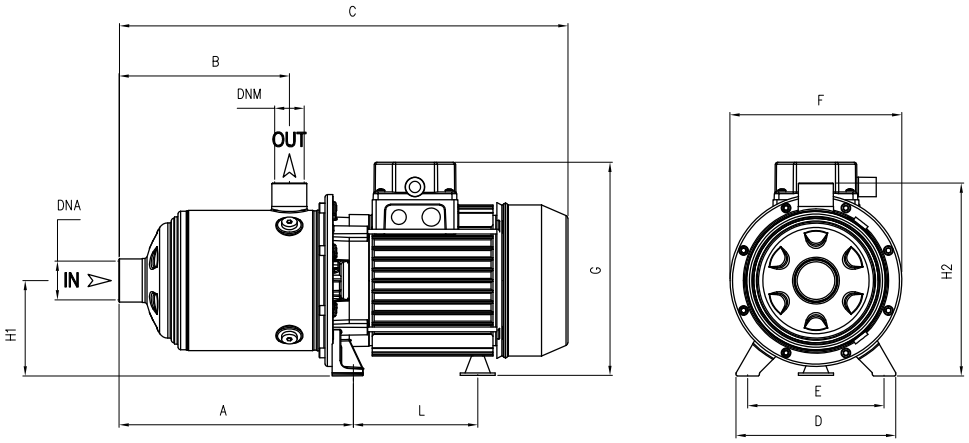
PLUS S



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3S-50(T)/2÷90/4(T)	80×120×150	84	80×120×175	96
P 3S-100/5(T)÷120/6(T)	85×110×160	70	85×110×185	80
P 3S-150/7(T)	90×110×150	48	90×110×170	56
P 5S-70/2(T)	80×120×150	84	80×120×175	96
P 5S-80/3(T)÷120/4(T)	85×110×160	70	85×110×185	80
P 5S-150/5(T)	90×110×150	48	90×110×170	56
P 5S-180/6(T)÷200/7(T)	80×120×150	42	80×120×175	49
P 7S-100/2(T)÷120/3(T)	85×110×160	70	85×110×185	80
P 7S-180/4(T)÷250/5(T)	90×110×150	48	90×110×170	56
P 7S-300/6	80×120×150	42	80×120×175	49
P 7S-300/6T	90×110×150	48	90×110×170	56
P 7S-350/7T	80×120×155	30	80×120×180	35
P 9S-100/2(T)	85×110×160	70	85×110×185	80
P 9S-150/3(T)÷200/4(T)	90×110×150	48	90×110×170	56
P 9S-250/5(T)	90×110×150	48	90×110×170	56
P 18S-180/2T÷250/3T	90×110×150	48	90×110×170	56
P 18S-400/4T	80×120×145	42	80×120×175	49



TYPE		DIMENSIONS (mm)															Kg	
~1	~3	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	I	L	M	~1	~3
P 3S-50/2	P 3S-50/2T	166,8	103	333	164	140	176	190	93,7	128	192	1" G	1" G	369	189	220	7	7
P 3S-70/3	P 3S-70/3T	166,8	103	333	164	140	176	190	93,7	128	192			369	189	220	8	8
P 3S-90/4	P 3S-90/4T	190,8	127	357	164	140	176	190	93,7	128	192			369	189	220	9,5	9,5
P 3S-100/5	P 3S-100/5T	214,8	151	404	164	140	176	203	104,7	128	192			444	189	220	12	12
P 3S-120/6	P 3S-120/6T	238,8	175	428	164	140	176	203	104,7	128	192			444	189	220	13	13
P 3S-150/7	P 3S-150/7T	262,8	199	513	164	140	176	211	128,2	134	198			529	189	240	19,5	20
P 5S-70/2	P 5S-70/2T	166,8	103	333	164	140	176	195	93,7	128	192			369	189	220	7,5	7,5
P 5S-80/3	P 5S-80/3T	166,8	103	357	164	140	176	203	93,7	128	192			444	189	220	10	10
P 5S-120/4	P 5S-120/4T	190,8	127	380	164	140	176	203	104,7	128	192			444	189	220	12	12
P 5S-150/5	P 5S-150/5T	214,8	151	466	164	140	176	211	128,2	134	198			529	189	240	18,5	19
P 5S-180/6	P 5S-180/6T	238,8	175	489	164	140	176	211	128,2	134	198			529	189	240	19	19,5
P 5S-200/7	P 5S-200/7T	262,8	199	513	164	140	176	211	128,2	134	198			529	189	240	18,5	20



TYPE		DIMENSIONS (mm)															Kg	
~1	~3	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM	I	L	M	~1	~3
P 7S-100/2	P 7S100/2T	166,8	103	356	164	140	176	203	104,7	92	192	1" ¼ G	1" G	444	189	220	10,5	10,5
P 7S-120/3	P 7S-120/3T	166,8	103	356	164	140	176	203	104,7	92	192			444	189	220	11,5	11,5
P 7S-180/4	P 7S-180/4T	190,8	127	441	164	140	176	211	128,2	98	198			529	189	240	17	18
P 7S-250/5	P 7S-250/5T	214,8	151	466	164	140	176	211	128,2	98	198			529	189	240	18,5	17,5
P 7S-300/6	P 7S-300/6T	238,8	175	543 T 489	164	140	176	229 T 211	148,2 T 128,2	103 T 98	203 T 198			580 529	231 189	235 240	26	19,5
-	P 7S-350/7T	262,8	199	567	164	140	176	229	148,2	103	203			580	231	235	-	23,5
P 9S-100/2	P 9S-100/2T	185,8	118	375	164	140	176	203	104,7	98	192	1" ½ G	1" ¼ G	444	189	220	10,5	10,5
P 9S-150/3	P 9S-150/3T	185,8	118	405	164	140	176	211	128,2	98	198			529	189	240	18	18
P 9S-200/4	P 9S-200/4T	215,8	148	466	164	140	176	211	128,2	98	198			529	189	240	17,5	18,5
P 9S-250/5	P 9S-250/5T	245,8	178	494	164	140	176	211	128,2	98	198			529	189	240	19	18
-	P 18S-180/2T	201	141	462	164	140	176	211	128,2	98	198	2" G	1" ½ G	529	189	240	-	15
-	P 18S-250/3T	238,5	141	462	164	140	176	211	128,2	98	198			529	189	240	-	17,5
-	P 18S-400/4T	276	178,5	554	164	140	176	229	148,2	103	203			580	231	235	-	26

PLUS (S) Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT		STANDARD MATERIAL	OPTIONAL
					2
	P3-50/2, P3-70/3, P3-90/4, P3-100/5, P3-120/6, P5-70/2, P5-80/3, P5-120/4, P5-150/5, P5-180/6, P7-100/2, P7-120/3, P7-180/4, P7-250/5, P7-300/6, P9-100/2, P9-150/3, P9-200/4, P9-250/5, P18-180/2, P18-250/3, P18-400/4	14mm / S	***Rotating face*** ***Stationary face*** ***Elastomer***	Graphite Ceramic EPDM	SiC SiC EPDM
	P3-150/7, P5-200/7, P7-350/7	14mm	***Rotating face*** ***Stationary face*** ***Elastomer***	Graphite SiC EPDM	SiC SiC EPDM

BEARINGS	PUMP MODEL	TYPE	
	P3-50/2, P3-70/3, P3-90/4, P5-70/2	6201-ZZ	6202-ZZ
	P3-100/5, P3-120/6, P5-80/3, P5-120/4, P7-100/2, P7-120/3, P9-100/2	6202-ZZ	6302-ZZ C3
	P3-150/7, P5-150/5, P5-180/6, P5-200/7, P7-180/4, P7-250/5, 3~ P7-300/6, P9-150/3, P9-200/4, P9-250/5, P18-180/2, P18-250/3	6203-ZZ	6304-ZZ C3
	1~ P7-300/6, P7-350/7, P18-400/4	6203-ZZ	6305-ZZ C3

PLUS + VSD

Horizontal booster pump with variable speed drive



DESCRIPTION

Horizontal pump of PLUS series provided with single-phase variable speed drive EPIC or three-phase EPIC-A.
This booster pump assures a desired pressure regardless of changes on flow demand making it suitable for low or missing pressure in domestic systems. A membrane tank downstream the system is required.

FEATURES

- EPIC or EPIC-A variable speed drive provided on board
- Three-phase horizontal pump of PLUS series
- Pressure sensor
- Cable with plug

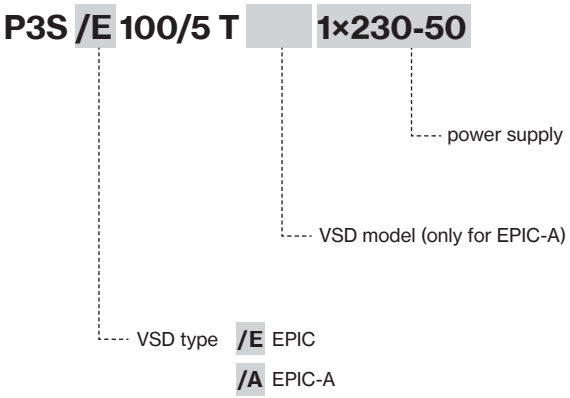
FUNCTIONING

If the pressure in the network drops the pump will starts and gradually speeds up to provide with the set pressure. When the water demand decreases, the pressure will rise causing the pump speed to slow down and eventually to stop the pump if demand ceases. The pump will remain on standby waiting to start at the next water demand.

SELECTION

The table below shows the horizontal PLUS pump models available for the assembly with EPIC or EPIC-A.
Consult the catalog at the PLUS series for pump specifics and characteristic curves.

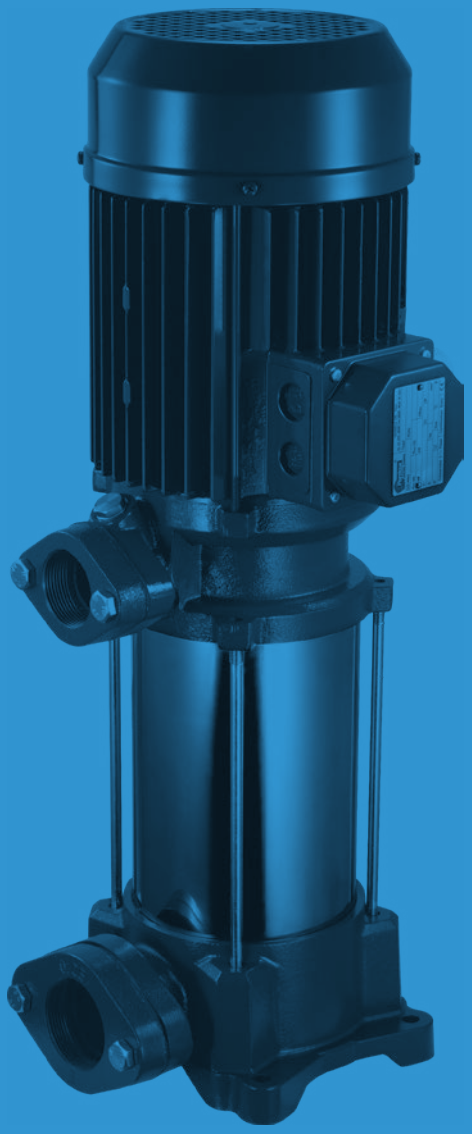
3~ PUMP TYPE		VSD TYPE	
PLUS	PLUS S	Power supply	
		1~ 230V	3~ 400V
P 3-50/2T	P 3S-50/2T	EPIC	EPIC-A 304
P 3-70/3T	P 3S-70/3T		
P 3-90/4T	P 3S-90/4T		
P 3-100/5T	P 3S-100/5T		
P 3-120/6T	P 3S-120/6T		
P 3-150/7T	P 3S-150/7T		
P 5-70/2T	P 5S-70/2T		
P 5-80/3T	P 5S-80/3T		
P 5-120/4T	P 5S-120/4T		
P 5-150/5T	P 5S-150/5T		
P 5-180/6T	P 5S-180/6T		
P 5-200/7T	P 5S-200/7T		
P 7-100/2T	P 7S-100/2T		
P 7-120/3T	P 7S-120/3T		
P 7-180/4T	P 7S-180/4T		
P 7-250/5T	P 7S-250/5T		EPIC-A 306
P 7-300/6T	P 7S-300/6T	-	
P 7-350/7T	P 7S-350/7T		
P 9-100/2T	P 9S-100/2T	EPIC	EPIC-A 304
P 9-150/3T	P 9S-150/3T		
P 9-200/4T	P 9S-200/4T		
P 9-250/5T	P 9S-250/5T	-	EPIC-A 306
P 18-180/2T	P 18-180/2T	EPIC	EPIC-A 304
P 18-250/3T	P 18S-250/3T	-	EPIC-A 306
P 18-400/4T	P 18S-400/4T		EPIC-A 309

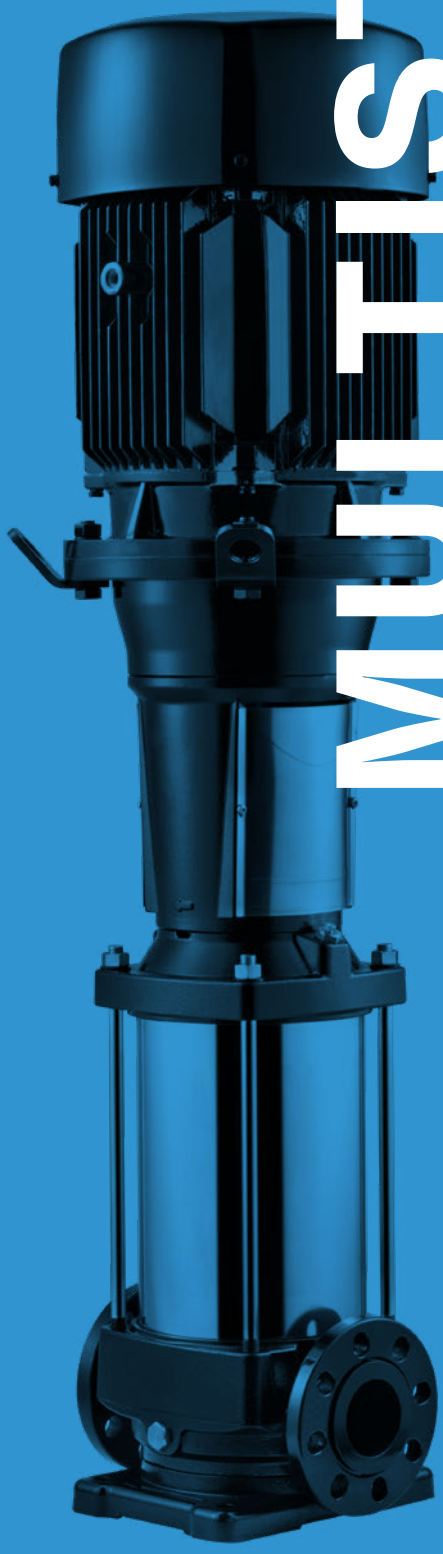


Foras®

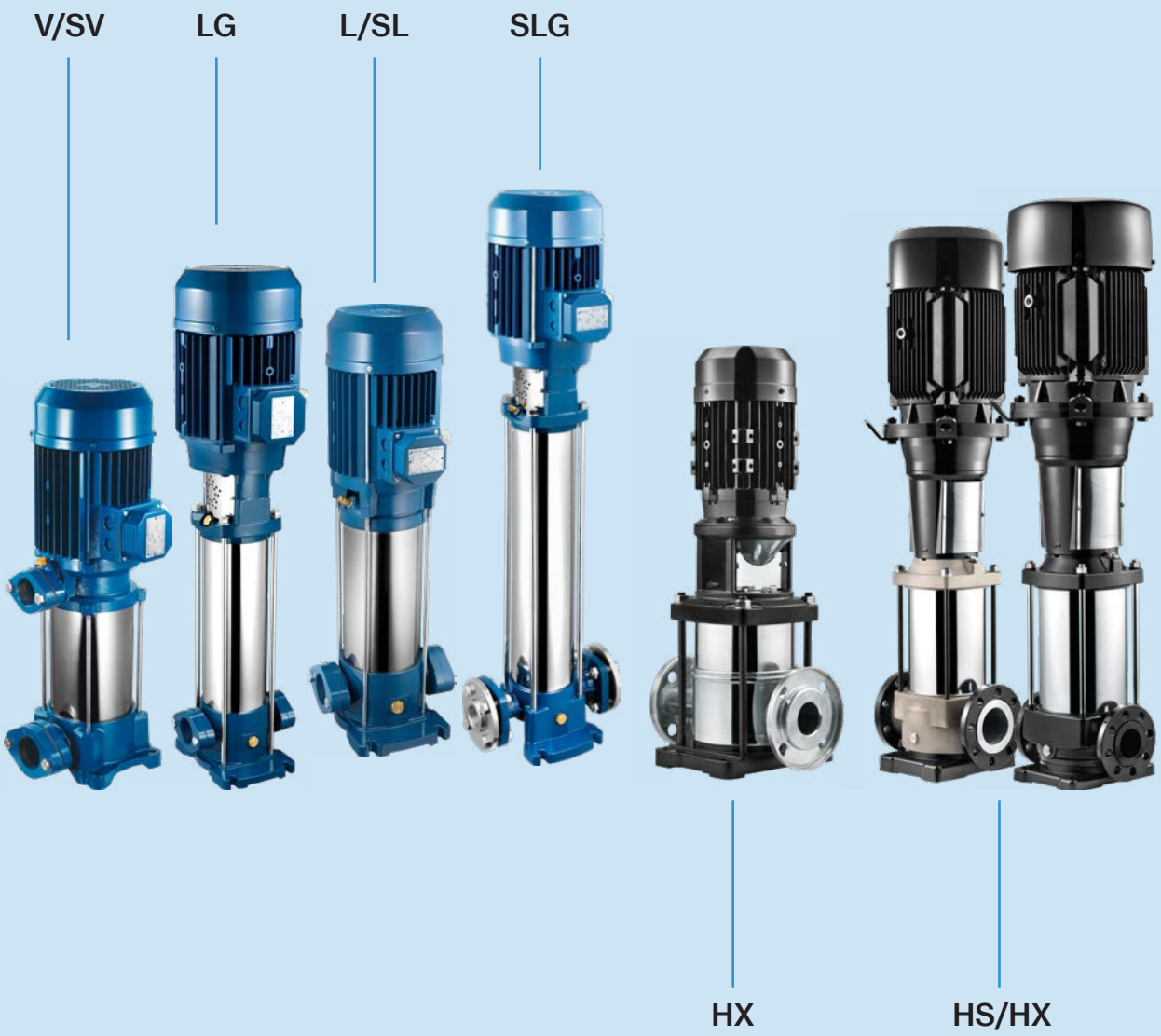
WATER PUMPS

MULTISTAGE VERTICAL





MULTISTAGE VERTICAL PUMPS

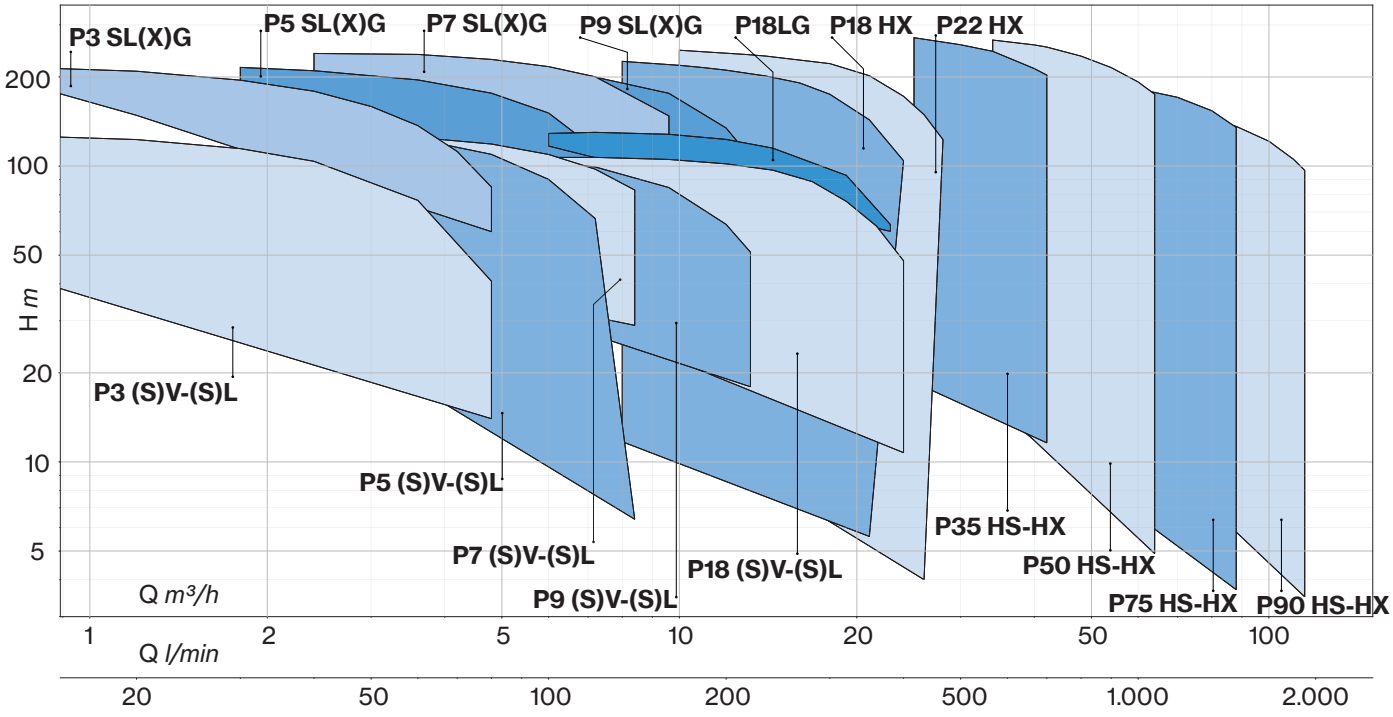


Family of vertical multistage monobloc pumps (V/L) with impellers in Noryl® or (SV/SL) in AISI 304; coupled pumps (LG) with impellers in Noryl® or (SLG) in AISI 304; coupled pumps (HS) with impellers in AISI 304 or (HX) in AISI 316.

Applications:

- Handling unloaded liquids
- Pressurization systems
- Residential and industrial irrigation and drinking water systems
- Washing systems

MULTISTAGE


P3 SL(X)G
P5 SL(X)G
P7 SL(X)G
P9 SL(X)G
P18LG
P18 HX
P22 HX
200
100
50
H m
20
10
5
P3 (S)V-(S)L
P5 (S)V-(S)L
P7 (S)V-(S)L
P9 (S)V-(S)L
P18 (S)V-(S)L
P35 HS-HX
P50 HS-HX
P75 HS-HX
P90 HS-HX
Q m³/h
1
2
5
10
20
50
100
Q l/min
20
50
100
200
500
1.000
2.000

PLUS V/L

Multistage Vertical



PLUS V



PLUS 3-5-7 L



PLUS 9-18 L



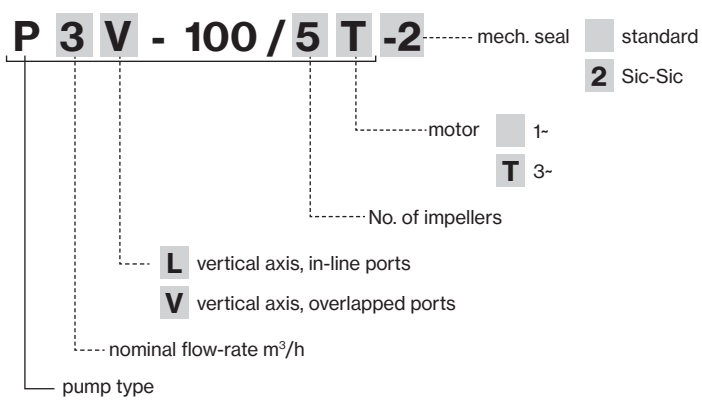


Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impellers, diffusers	Noryl®
Shell, motor shaft	stainles steel AISI 304
Mechanical seal	ceramic-graphite-EPDM graphite-silicon carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	+5 ÷ +35 °C
Max operating pressure	8 bar ≤ 6 impellers; 14 bar ≥ 7 impellers
Pump body gasket	EPDM

Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW 1~ 230V - 50Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4 IPX5 ≥ 4,5 HP





More details of the mechanical seals are included on page 182

PLUS LG

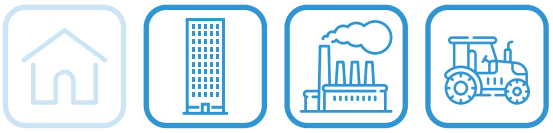
Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressuriz ing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

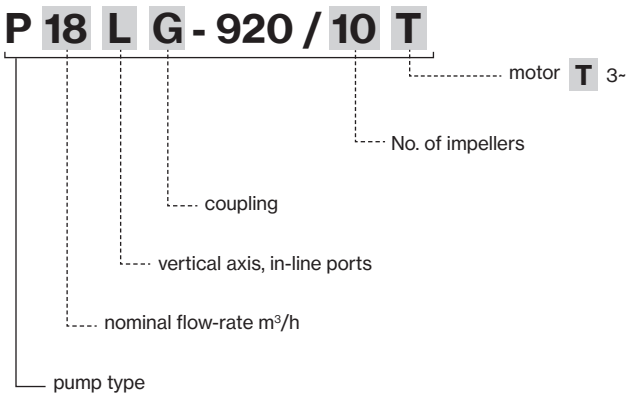
Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impellers, diffusers	Noryl®
Shell, motor shaft	stainles steel AISI 304
Mechanical seal	ceramic-graphite-EPDM graphite-silicon carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	+5 ÷ +35 °C
Max operating pressure	14 bar
Pump body gasket	EPDM

Motor	
2 poles induction motor	3~ 400/690V - 50Hz P > 4kW
Insulation class	F
Protection degree	IPX5









More details of the mechanical seals are included on page 182

PLUS V/L

TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8
								0	10	20	30	40	60	80
		HP	kW	kW		A								
P 3...-100/5	P 3...-100/5T	1	0,75	1,1	1	4,8	1,9	52,2	48,9	45,1	40,8	36,0	25,4	14,0
P 3...-120/6	P 3...-120/6T	1,2	0,9	1,2	1,2	5,6	2,6	62,8	58,7	54,5	49,6	43,9	32,1	18,3
P 3...-150/7	P 3...-150/7T	1,5	1,1	1,3	1,2	6,1	3,0	77,1	76,1	73,2	68,4	62,3	46,5	25,7
P 3...-180/8	P 3...-180/8T	2	1,5	1,5	1,4	7,0	3,1	88,1	87,2	83,5	77,6	70,2	51,3	26,0
P 3...-200/9	P 3...-200/9T	2	1,5	1,6	1,5	7,4	3,2	98,8	97,2	93,7	87,3	79,4	60,0	32,2
P 3...-250/10	P 3...-250/10T	2	1,5	1,7	1,7	7,9	3,5	109,3	108,2	103,6	96,3	87,5	65,3	34,5
P 3...-280/11	P 3...-280/11T	2,5	1,85	2,0	1,8	9,4	3,8	120,4	118,7	113,8	106,1	96,4	71,6	38,3
P 3...-300/12	P 3...-300/12T	2,5	1,85	2,1	2,0	9,8	4,0	130,3	128,5	122,9	114,6	103,8	76,6	40,8

TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,8	2,4	3,6	4,8	6	7,2	8,4
								0	30	40	60	80	100	120	140
		HP	kW	kW		A									
P 5...-120/4	P 5...-120/4T	1,2	0,9	1,13	1,13	5,2	2,5	45,3	41,3	39,6	35,6	30,8	24,9	17,6	6,4
P 5...-150/5	P 5...-150/5T	1,5	1,1	1,4	1,4	6,6	3,1	57,6	55,6	54,2	50,5	45,0	37,0	27,4	
P 5...-180/6	P 5...-180/6T	2	1,5	1,6	1,6	7,4	3,3	69,1	66,5	64,8	60,1	53,2	43,8	32,0	
P 5...-200/7	P 5...-200/7T	2	1,5	1,9	1,8	8,6	3,6	80,6	77,1	75,1	69,6	61,3	50,4	35,8	
P 5...-250/8	P 5...-250/8T	2,5	1,85	2,2	2,1	9,9	4,1	92,0	88,2	85,8	79,2	70,1	57,2	41,1	
P 5...-280/9	P 5...-280/9T	2,5	1,85	2,4	2,3	10,9	4,3	103,3	98,9	96,2	88,8	78,4	64,1	45,3	
P 5...-300/10	P 5...-300/10T	3	2,2	2,7	2,6	12,5	4,9	115,1	110,6	107,6	99,5	87,6	72,1	50,7	
P 5...-350/11	P 5...-350/11T	3,5	2,57	3,0	2,9	13,7	5,3	127,6	122,5	119,4	110,8	98,0	80,8	57,4	
-	P 5...-380/12T	4	3	-	3,2	-	6,0	140,3	135,4	132,1	123,2	109,5	90,1	66,5	

TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	2,4	3,6	4,8	6	7,2	8,4
								0	40	60	80	100	120	140
		HP	kW	kW		A								
P 7...-180/4	P 7...-180/4T	2	1,5	1,7	1,6	7,9	3,3	49,6	48,4	46,7	43,8	39,9	34,9	28,9
P 7...-250/5	P 7...-250/5T	2,5	1,85	2,2	2,0	9,9	4,0	63,2	62,1	60,3	56,9	52,1	46,2	39,0
P 7...-300/6	P 7...-300/6T	3	2,2	2,5	2,4	11,5	4,7	76,0	75,1	73,1	69,2	63,6	56,8	48,2
-	P 7...-350/7T	3,5	2,57	-	2,8	-	5,1	89,0	88,0	85,8	81,2	74,5	66,3	56,2
-	P 7...-400/8T	4	3	-	3,1	-	5,9	102,3	101,0	98,2	92,4	84,4	74,6	62,4
-	P 7...-450/9T	4,5	3,37	-	3,6	-	6,5	115,2	114,4	111,4	105,6	97,1	86,3	73,1
-	P 7...-550/10T	5,5	4	-	4,0	-	7,7	128,1	128,0	124,9	118,7	109,4	97,6	83,0

TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3,6	4,8	7,2	9,6	12	13,2
								0	60	80	120	160	200	220
		HP	kW	kW		A								
P 9...-200/4	P 9...-200/4T	2	1,5	1,8	1,7	8,3	3,5	45,8	42,1	40,7	37,3	31,3	23,0	17,9
P 9...-250/5	P 9...-250/5T	2,5	1,85	2,3	2,1	10,4	4,1	56,9	52,2	50,4	46,1	38,8	28,2	22,3
P 9...-300/6	P 9...-300/6T	3	2,2	2,8	2,6	12,8	5,0	69,8	64,5	62,5	57,5	48,8	36,4	29,6
-	P 9...-400/7T	4	3	-	3,0	-	5,8	83,3	77,8	75,7	68,9	58,5	43,6	34,7
-	P 9...-450/8T	4,5	3,37	-	3,5	-	6,4	96,7	90,7	88,2	80,6	69,2	52,2	42,1
-	P 9...-500/9T	4,5	3,37	-	3,9	-	6,9	107,1	99,5	96,4	88,3	75,2	56,4	45,2
-	P 9...-550/10T	5,5	4	-	4,3	-	8,1	119,5	111,6	108,2	99,3	84,6	63,5	51,2

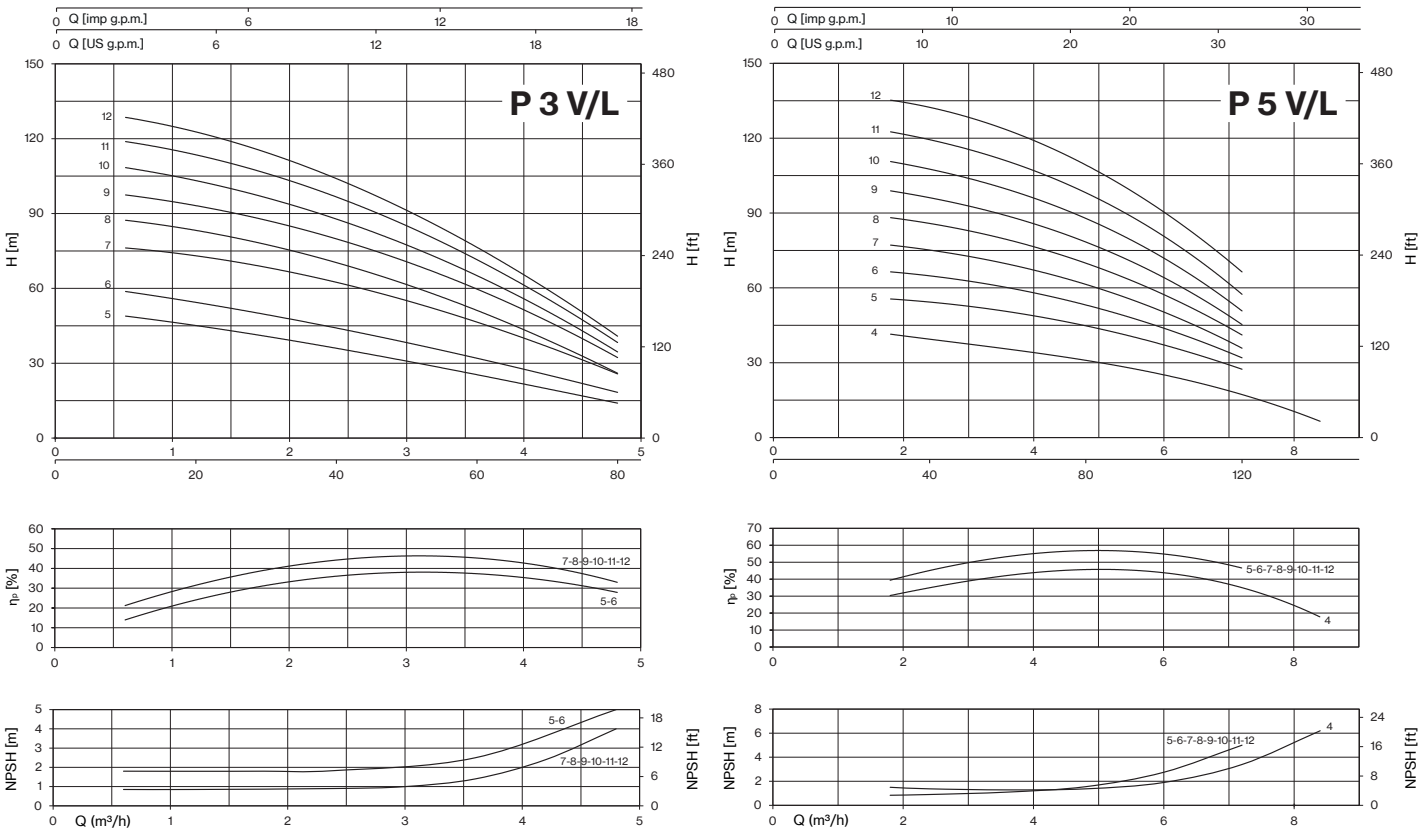
PLUS V/L

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)									
3~				3~ 400V	0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	24
					0	100	120	160	200	240	280	320	360	400
	HP	kW	kW	A										
P 18...-250/3T	2,5	1,85	2,2	4,2	34,7	32,9	32,6	31,6	30,1	28,0	24,7	20,6	15,9	10,7
P 18...-400/4T	4	3	3,0	5,8	47,1	45,4	45,2	44,3	42,6	40,0	36,0	30,6	24,6	17,8
P 18...-450/5T	4,5	3,37	3,9	6,9	59,2	57,6	57,4	56,4	54,5	51,6	46,7	40,1	33,3	25,3
P 18...-550/6T	5,5	4	4,6	8,4	71,4	69,7	69,6	68,2	65,7	62,2	56,3	48,0	39,4	29,4
P 18...-750/8T	7,5	5,5	6,2	11,2	96,1	94,2	94,1	92,4	89,1	84,5	77,0	66,1	54,2	41,1
P 18...-900/9T	10	7,5	6,9	12,8	108,5	106,9	107,0	105,3	101,7	96,8	88,6	75,9	62,6	47,8

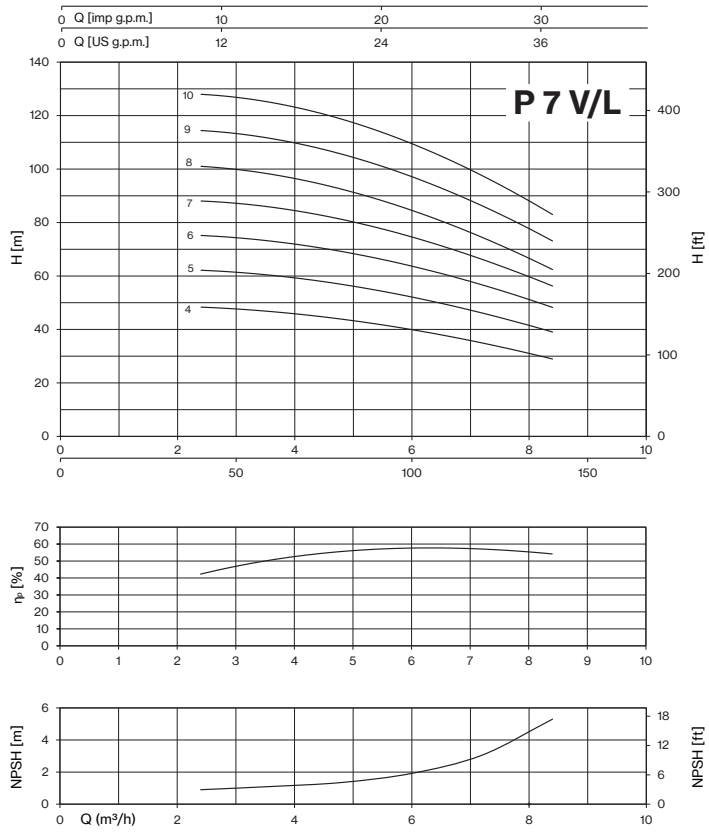
PLUS LG

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)									
3~				3~ 400V	0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	22,8
					0	100	120	160	200	240	280	320	360	380
	HP	kW	kW	A										
P 18LG-920/10T	10	7,5	7,7	14,0	120,4	116,8	118,3	116,6	112,6	104,4	96,3	85,8	67,8	60,1
P 18LG-1000/11T	10	7,5	8,3	13,6	132,4	128,9	130,0	128,0	123,0	115,0	103,9	93,0	72,6	63,4

PLUS V/L

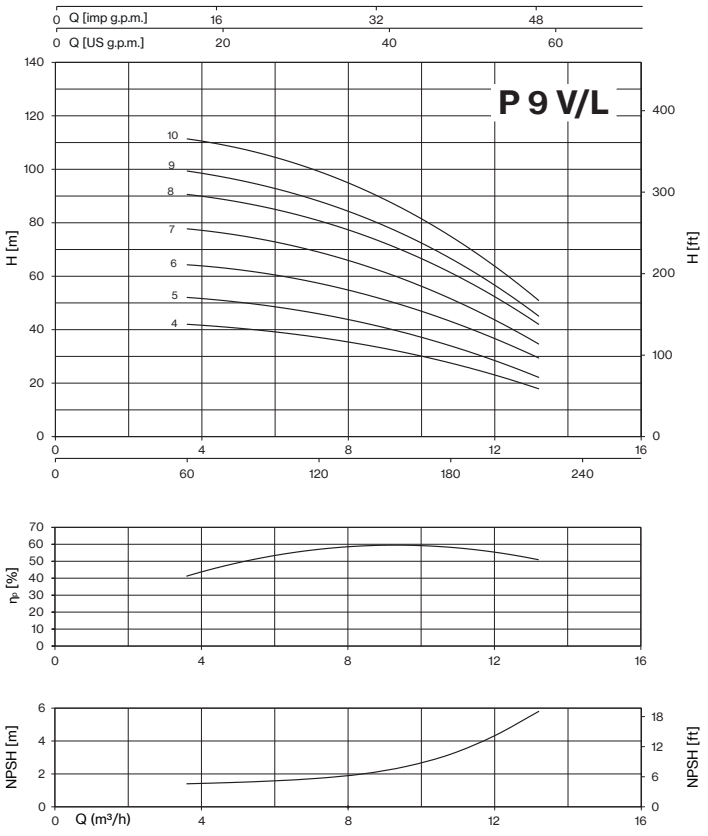


PLUS V/L-LG


P 7 V/L
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
10
9
8
7
6
5
4

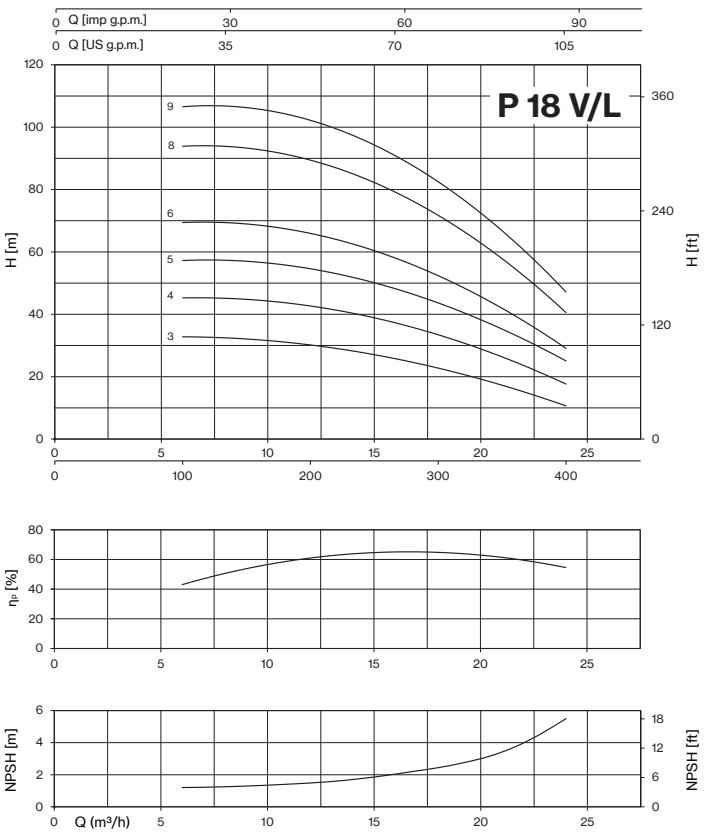
ηP [%]

NPSH [m]
NPSH [ft]
Q (m³/h)


P 9 V/L
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
10
9
8
7
6
5
4

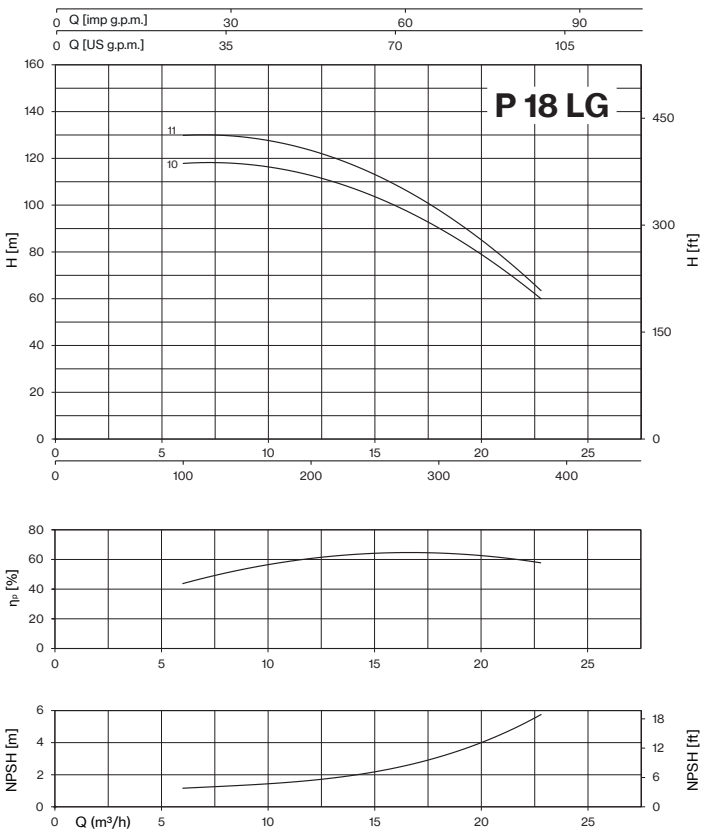
ηP [%]

NPSH [m]
NPSH [ft]
Q (m³/h)


P 18 V/L
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
9
8
6
5
4
3

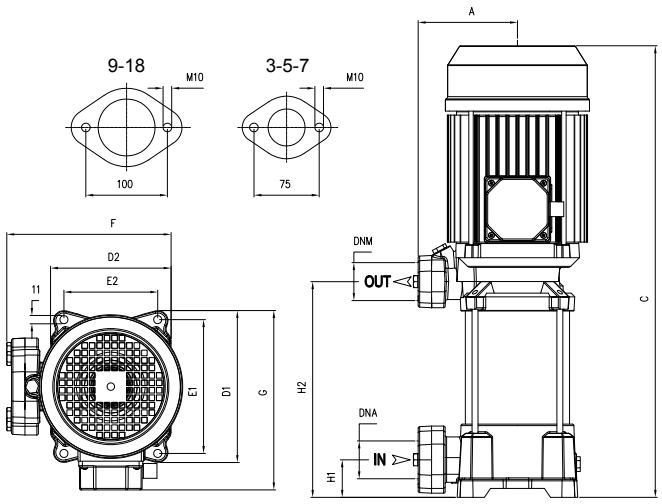
ηP [%]

NPSH [m]
NPSH [ft]
Q (m³/h)


P 18 LG
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
11
10

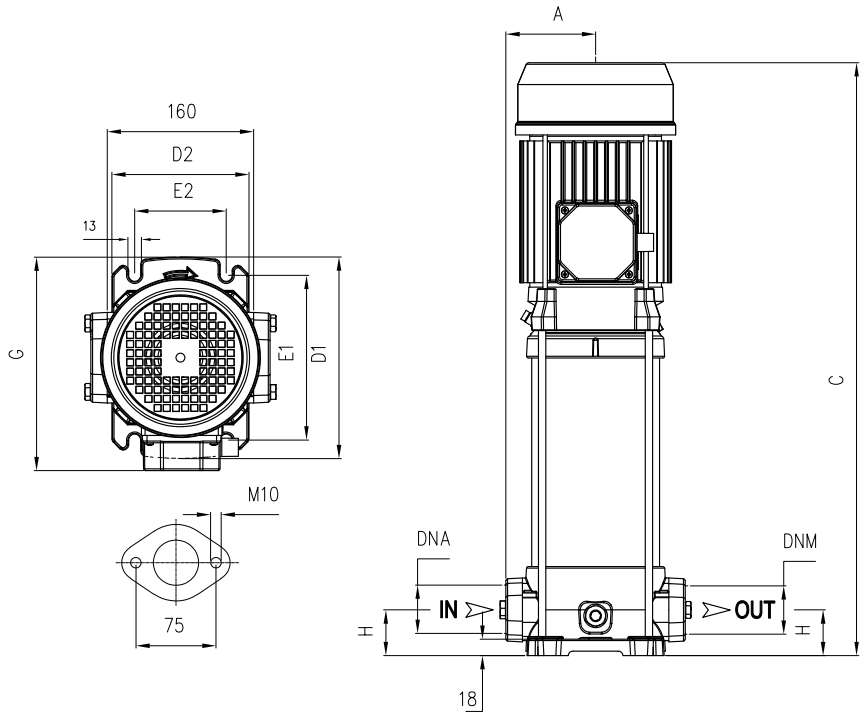
ηP [%]

NPSH [m]
NPSH [ft]
Q (m³/h)

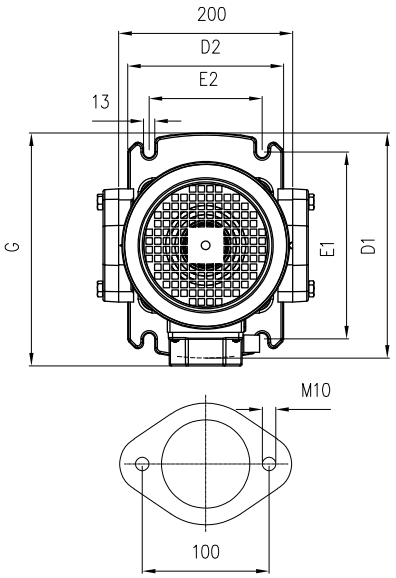


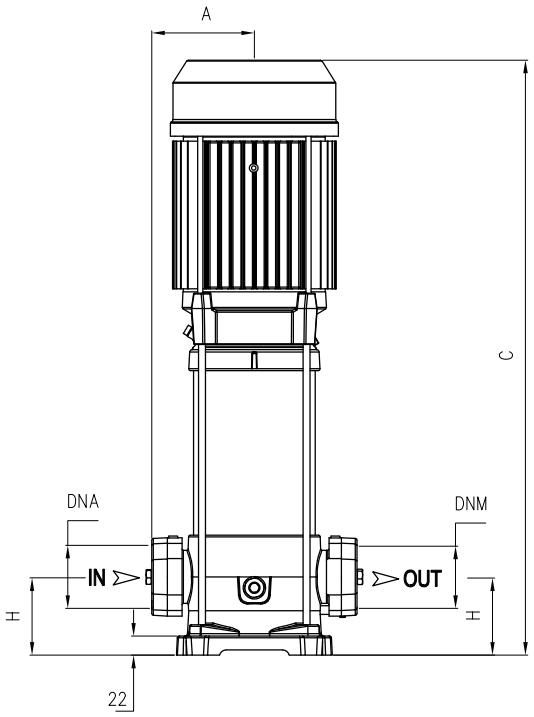
TYPE		DIMENSIONS (mm)																
~1	~3	A	C	D1	D2	E1	E2	F	G	H1	H2	DNA	DNM	I	L	M	~1	~3
P 3V-100/5	**P 3V-100/5T**	135	413	204	162	178,5	125	229	213	40	202			580	231	235	17,5	17,5
P 3V-120/6	**P 3V-120/6T**	135	437	204	162	178,5	125	229	213	40	226			580	231	235	18	18
P 3V-150/7	**P 3V-150/7T**	135	521	204	162	178,5	125	229	220	40	250			580	231	235	24,5	25
P 3V-180/8	**P 3V-180/8T**	135	545	204	162	178,5	125	229	220	40	274			580	231	235	24,5	24,5
P 3V-200/9	**P 3V-200/9T**	135	569	204	162	178,5	125	229	220	40	298	1" ¼ G	1" ¼ G	580	231	235	25	25,5
P 3V-250/10	**P 3V-250/10T**	135	593	204	162	178,5	125	229	220	40	322			650	246	246	27,5	27,5
P 3V-280/11	**P 3V-280/11T**	135	672 T 617	204	162	178,5	125	229	228 T 220	40	346			580	231	235	29,5	28
P 3V-300/12	**P 3V-300/12T**	135	696 T 641	204	162	178,5	125	229	228 T 220	40	370			779	261	295	29,5	25
P 5V-120/4	**P 5V-120/4T**	135	389	204	162	178,5	125	229	213	40	178			580	231	235	17,5	17,5
P 5V-150/5	**P 5V-150/5T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	24	24
P 5V-180/6	**P 5V-180/6T**	135	497	204	162	178,5	125	229	220	40	226			580	231	235	24,5	24,5
P 5V-200/7	**P 5V-200/7T**	135	521	204	162	178,5	125	229	220	40	250			580	231	235	23,5	24,5
P 5V-250/8	**P 5V-250/8T**	135	545	204	162	178,5	125	229	220	40	274			580	231	235	25	24
P 5V-280/9	**P 5V-280/9T**	135	624 T 569	204	162	178,5	125	229	228 T 220	40	298	1" ¼ G	1" ¼ G	650	246	246	29	24
P 5V-300/10	**P 5V-300/10T**	135	648 T 593	204	162	178,5	125	229	228 T 220	40	322			779 T 650	261 246	295 246	33	25,5
P 5V-350/11	**P 5V-350/11T**	135	672	204	162	178,5	125	229	228	40	346			779	261	295	33,5	30,5
-	**P 5V-380/12T**	135	696	204	162	178.5	125	229	228	40	370			779	261	295	32,5	32,5
P 7V-180/4	**P 7V-180/4T**	135	422	204	162	178,5	125	229	220	40	178			580	231	235	22,5	24
P 7V-250/5	**P 7V-250/5T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	24	23
P 7V-300/6	**P 7V-300/6T**	135	552 T 497	204	162	178,5	125	229	228 T 220	40	226			580	231	235	30,5	24,5
-	**P 7V-350/7T**	135	575	204	162	178,5	125	229	228	40	250	1" ¼ G	1" ¼ G	650	246	246	-	28,5
-	**P 7V-400/8T**	135	600	204	162	178,5	125	229	228	40	274			650	246	246	-	31,5
-	**P 7V-450/9T**	135	653	204	162	178,5	125	235	243	40	301			779	261	295	-	36,5
-	**P 7V-550/10T**	135	676	204	162	178,5	125	235	243	40	325			779	261	295	-	41,5
P 9V-200/4	**P 9V-200/4T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	22,5	24
P 9V-250/5	**P 9V-250/5T**	135	503	204	162	178,5	125	229	220	40	232			580	231	235	24	23
P 9V-300/6	**P 9V-300/6T**	135	588 T 533	204	162	178,5	125	229	228 T 220	40	262			580	231	235	31	24,5
-	**P 9V-400/7T**	135	617	204	162	178,5	125	229	228	40	292	1" ½ G	1" ¼ G	650	246	246	-	31,5
-	**P 9V-450/8T**	135	677	204	162	178,5	125	235	243	40	325			779	261	295	-	35,5
-	**P 9V-500/9T**	135	707	204	162	178,5	125	235	243	40	355			779	261	295	-	37
-	**P 9V-550/10T**	135	737	204	162	178,5	125	235	243	40	385			779	261	295	-	42
-	**P 18V-250/3T**	135	481	204	162	178,5	125	229	220	50	211			580	231	235	-	24
-	**P 18V-400/4T**	135	573	204	162	178,5	125	229	228	50	248			580	231	235	-	32
-	**P 18V-450/5T**	135	640	204	162	178,5	125	235	243	50	289			779	261	295	-	37
-	**P 18V-550/6T**	135	678	204	162	178,5	125	235	243	50	326	2" G	1" ½ G	779	261	295	-	42
-	**P 18V-750/8T**	135	815	204	162	178,5	125	255	253	50	401			909	274	303	-	52
-	**P 18V-900/9T**	135	852	204	162	178,5	125	255	253	50	439			909	274	303	-	58

PLUS L



TYPE		DIMENSIONS (mm)													Kg	
~1	~3	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	~1	~3
P 3L-100/5	**P 3L-100/5T**	98	429	220	150	180	100	228	50			580	231	235	19	19
P 3L-120/6	**P 3L-120/6T**	98	453	220	150	180	100	228	50			580	231	235	20	20
P 3L-150/7	**P 3L-150/7T**	98	537	220	150	180	100	228	50			539	261	280	26,5	27
P 3L-180/8	**P 3L-180/8T**	98	561	220	150	180	100	228	50			580	231	235	26,5	26,5
P 3L-200/9	**P 3L-200/9T**	98	585	220	150	180	100	228	50			664	261	295	28	28,5
P 3L-250/10	**P 3L-250/10T**	98	609	220	150	180	100	228	50	1" ¼ G	1" ¼ G	664	261	295	27,5	27,5
P 3L-280/11	**P 3L-280/11T**	98	688 T 633	220	150	180	100	236 T 228	50			779 T 664	261	295	32,5	28
P 3L-300/12	**P 3L-300/12T**	98	712 T 657	220	150	180	100	236 T 228	50			779	261	295	33	28,5
P 5L-120/4	**P 5L-120/4T**	98	405	220	150	180	100	221	50			580	231	235	19,5	19
P 5L-150/5	**P 5L-150/5T**	98	489	220	150	180	100	228	50			580	231	235	26,5	26,5
P 5L-180/6	**P 5L-180/6T**	98	513	220	150	180	100	228	50			539	261	280	26,5	26,5
P 5L-200/7	**P 5L-200/7T**	98	537	220	150	180	100	228	50			539	261	280	25,5	27
P 5L-250/8	**P 5L-250/8T**	98	561	220	150	180	100	228	50			580	231	235	27	26
P 5L-280/9	**P 5L-280/9T**	98	640 T 585	220	150	180	100	236 T 228	50	1" ¼ G	1" ¼ G	664	261	295	31,5	27
P 5L-300/10	**P 5L-300/10T**	98	664 T 609	220	150	180	100	236 T 228	50			779 T 664	261	295	35	28,5
P 5L-350/11	**P 5L-350/11T**	98	687	220	150	180	100	236	50			779	261	295	35,5	32,5
-	**P 5L-380/12T**	98	712	220	150	180	100	236	50			779	261	295	-	35,5
P 7L-180/4	**P 7L-180/4T**	98	465	220	150	180	100	228	50			590	231	235	25	26
P 7L-250/5	**P 7L-250/5T**	98	489	220	150	180	100	228	50			590	231	235	26	25
P 7L-300/6	**P 7L-300/6T**	98	568 T 513	220	150	180	100	236 T 228	50			664 T 539	261	295 280	33,5	26,5
-	**P 7L-350/7T**	98	590	220	150	180	100	236	50	1" ¼ G	1" ¼ G	664	261	295	-	31
-	**P 7L-400/8T**	98	614	220	150	180	100	236	50			664	261	295	-	34,5
-	**P 7L-450/9T**	98	668	220	150	180	100	251	50			779	261	295	-	38,5
-	**P 7L-550/10T**	98	692	220	150	180	100	251	50			779	261	295	-	43,5



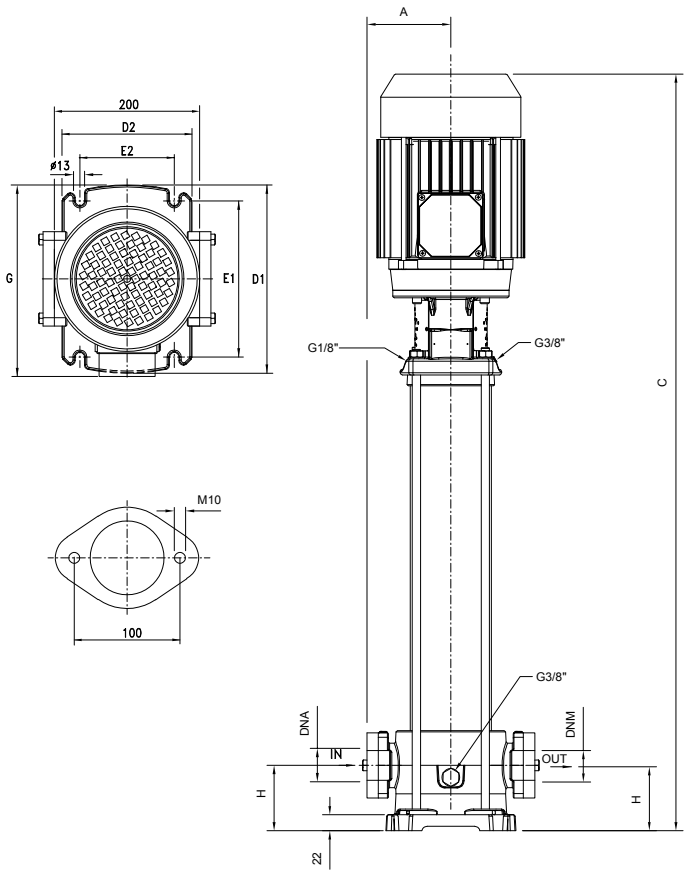


TYPE		DIMENSIONS (mm)													Kg	
~1	~3	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	~1	~3
P 9L-200/4	**P 9L-200/4T**	118	520	260	180	215	130	248	80	1" ½ G	1" ½ G	539	261	280	28,5	30
P 9L-250/5	**P 9L-250/5T**	118	550	260	180	215	130	248	80			664	261	295	30,5	29,5
P 9L-300/6	**P 9L-300/6T**	118	635 T 580	260	180	215	130	256 T 248	80			664	261	295	37,5	31
-	**P 9L-400/7T**	118	663	260	180	215	130	256	80			779	261	295	-	38
-	**P 9L-450/8T**	118	723	260	180	215	130	271	80			779	261	295	-	42,5
-	**P 9L-500/9T**	118	763	260	180	215	130	271	80			779	261	295	-	43
-	**P 9L-500/9T**	118	763	260	180	215	130	271	80			909	274	303	-	43
-	**P 18L-250/3T**	118	482	260	180	215	130	251	90	2" G	2" G	664	261	295	-	29,5
-	**P 18L-400/4T**	118	603	260	180	215	130	257	90			664	261	295	-	37,5
-	**P 18L-450/5T**	118	680	260	180	215	130	271	90			779	261	295	-	42
-	**P 18L-550/6T**	118	718	260	180	215	130	271	90			779	261	295	-	47
-	**P 18L-750/8T**	118	855	260	180	215	130	280	90			909	274	303	-	56,5
-	**P 18L-900/9T**	118	893	260	180	215	130	280	90			909	274	303	-	63

LOTS				
MODEL	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3V-100/5(T)÷200/9(T)	80×120×150	42	80×120×175	49
P 3V-250/10(T)÷300/12(T)	80×120×155	30	80×120×180	35
P 5V-120/4(T)÷250/8(T)	80×120×150	42	80×120×175	49
P 5V-280/9(T)	80×120×155	30	80×120×180	35
P 5V-300/10	85×110×125	20	85×110×150	24
P 5V-300/10T	80×120×155	30	80×120×180	35
P 5V-350/11(T)÷380/12T	85×110×125	20	85×110×150	24
P 7V-180/4(T)÷300/6(T)	80×120×150	42	80×120×175	49
P 7V-350/7T	80×120×155	30	80×120×175	35
P 7V-400/8T	80×120×155	30	80×120×180	35
P 7V-450/9T÷550/10T	85×110×125	20	85×110×150	24
P 9V-200/4(T)÷300/6(T)	80×120×150	42	80×120×175	49
P 9V-400/7T	80×120×155	30	80×120×180	35
P 9V-450/8T÷550/10T	85×110×125	20	85×110×150	24
P 18V-250/3T÷400/4T	80×120×150	42	80×120×175	49
P 18V-450/5T÷550/6T	85×110×125	20	85×110×150	24
P 18V-750/8T÷900/9T	92×120×135	20	85×110×165	24

LOTS				
MODEL	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3L-100/5(T)÷180/8(T)	85×110×150	42	85×110×175	49
P 3L-200/9(T)÷250/10(T)	80×120×150	30	80×120×170	35
P 3L-280/11(T)÷300/12(T)	85×110×125	20	85×110×150	24
P 5L-120/4(T)÷250/8(T)	85×110×150	42	85×110×175	49
P 5L-280/9(T)	80×120×150	30	80×120×170	35
P 5L-300/10	85×110×125	20	85×110×150	24
P 5L-300/10(T)	80×120×150	30	80×120×170	35
P 5L-350/11(T)÷380/12T	85×110×125	20	85×110×150	24
P 7L-180/4T÷250/5T	85×110×150	42	85×110×175	49
P 7L-300/6T÷400/8T	80×120×150	30	80×120×170	35
P 7L-450/9T÷550/10T	85×110×125	20	85×110×150	24
P 9L-200/4(T)÷400/7(T)	80×120×155	25	80×120×185	30
P 9L-450/8T÷550/10T	85×110×125	20	85×110×150	24
P 18L-250/3T÷400/4T	80×120×155	25	80×120×185	30
P 18L-450/5T÷550/6T	85×110×125	20	85×110×150	24
P 18L-750/8T÷900/9T	85×110×135	20	85×110×165	24

PLUS LG



TYPE	DIMENSIONS (mm)													Kg
~3	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	
P 18LG-920/10T	118	1019	260	180	215	130	307	90	2" G	2" G	1098	327	290	68
P 18LG-1000/11T	118	1057	260	180	215	130	307	90						76

MODEL	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 18LG-920/10T - 1000/11T	100×120×150	12	100×120×150	12

PLUS SV/SL/SLX

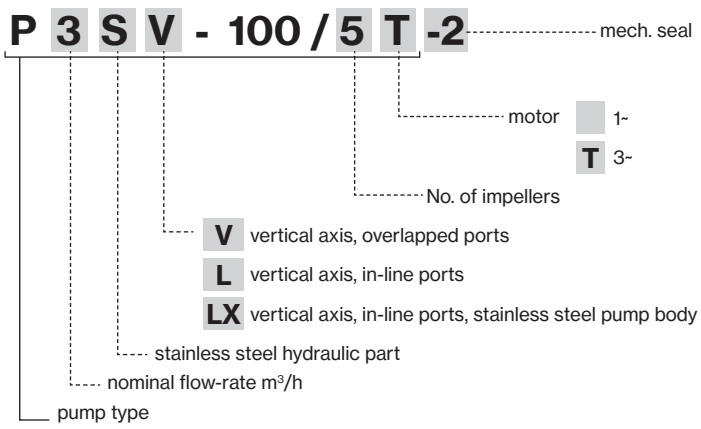
Multistage Vertical

Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	cast iron (SV/SL); stainless steel AISI 304 (SLX)
Motor bracket	cast iron
Impellers, diffusers, shell, motor shaft	stainless steel AISI 304
Mechanical seal	graphite-silicon carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	+5 ÷ 90 °C (SV) -15 ÷ 110 °C (SL/SLX)
Max operating pressure	8 bar ≤ 6 impellers 14 bar ≥ 7 impellers
Pump body gasket	EPDM

Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW 1~ 230V-50Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4 IPX5 ≥ 4,5 HP







PLUS SV



PLUS 3-5-7 SL

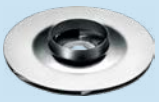


PLUS 9-18 SL



PLUS SLX





More details of the mechanical seals are included on page 182

PLUS SV/SL/SLX

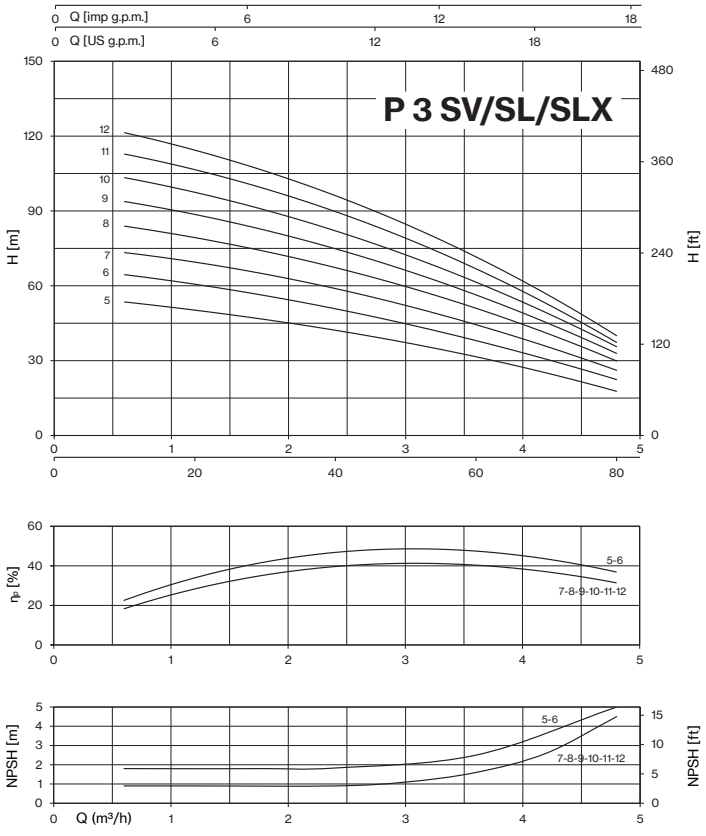
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8
								0	10	20	30	40	60	80
		HP	kW	kW		A								
P 3...-100/5	**P 3...-100/5T**	1	0,75	1	0,9	4,4	1,7	55,3	53,5	50,3	46,5	42,1	31,6	17,7
P 3...-120/6	**P 3...-120/6T**	1,2	0,9	1,1	1,1	5,1	2,5	66,6	64,4	60,8	56,0	50,7	38,1	22,4
P 3...-150/7	**P 3 ...-150/7T**	1,5	1,1	1,4	1,4	6,6	3,1	75,6	73,3	69,4	64,8	58,9	44,4	26,1
P 3...-180/8	**P 3...-180/8T**	2	1,5	1,5	1,5	7,0	3,2	86,7	83,9	79,3	73,9	67,3	51,0	29,9
P 3...-200/9	**P 3...-200/9T**	2	1,5	1,7	1,6	7,6	3,3	97,0	93,8	88,5	82,5	74,7	56,4	32,9
P 3...-250/10	**P 3...-250/10T**	2	1,5	1,9	1,7	8,6	3,5	107,2	103,4	97,3	90,5	82,0	61,5	35,6
P 3...-280/11	**P 3...-280/11T**	2,5	1,85	2,1	1,9	9,8	3,9	117,2	112,8	106,6	98,8	89,8	66,8	37,3
P 3...-300/12	**P 3...-300/12T**	2,5	1,85	2,2	2,1	10,2	4,1	126,4	121,3	114,5	106,1	95,9	71,7	40,0

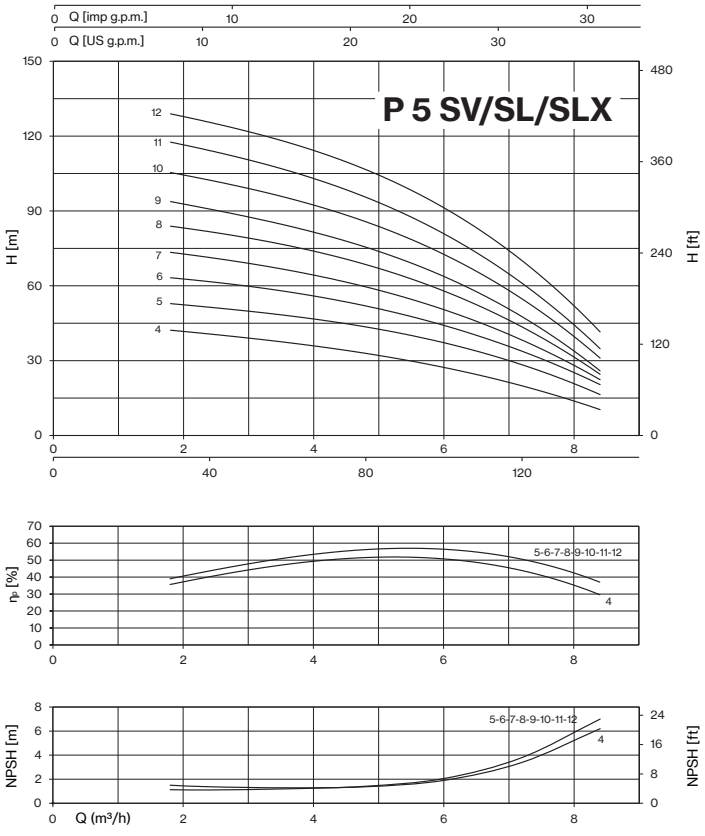
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	1,8	2,4	3,6	4,8	6	7,2	8,4
								0	30	40	60	80	100	120	140
		HP	kW	kW		A									
P 5...-120/4	**P 5...-120/4T**	1,2	0,9	1,09	1,09	4,9	2,4	45,5	42,2	40,7	37,2	32,9	27,4	19,8	10,4
P 5...-150/5	**P 5...-150/5T**	1,5	1,1	1,4	1,3	6,6	3,1	55,9	52,8	51,4	48,1	43,4	37,3	28,3	16,4
P 5...-180/6	**P 5...-180/6T**	2	1,5	1,6	1,6	7,4	3,3	67,0	63,3	61,6	57,6	51,9	44,2	33,6	20,4
P 5...-200/7	**P 5...-200/7T**	2	1,5	1,9	1,8	8,6	3,6	77,8	73,5	71,3	66,3	59,6	50,7	38,0	22,4
P 5...-250/8	**P 5...-250/8T**	2,5	1,85	2,2	2,1	9,9	4,1	89,2	83,9	81,6	76,2	68,4	58,3	43,2	24,6
P 5...-280/9	**P 5...-280/9T**	2,5	1,85	2,4	2,3	10,9	4,3	99,7	93,7	90,9	84,1	75,2	64,1	47,4	25,9
P 5...-300/10	**P 5...-300/10T**	3	2,2	2,7	2,6	12,5	4,9	112,2	105,4	102,4	95,3	85,6	72,6	54,8	31,0
P 5...-350/11	**P 5...-350/11T**	3,5	2,57	3,0	2,9	13,7	5,3	125,1	117,6	114,3	106,1	95,5	80,9	60,9	34,8
-	**P 5...-380/12T**	4	3	-	3,2	-	6,0	135,7	128,9	125,6	117,7	106,3	91,3	70,2	41,5

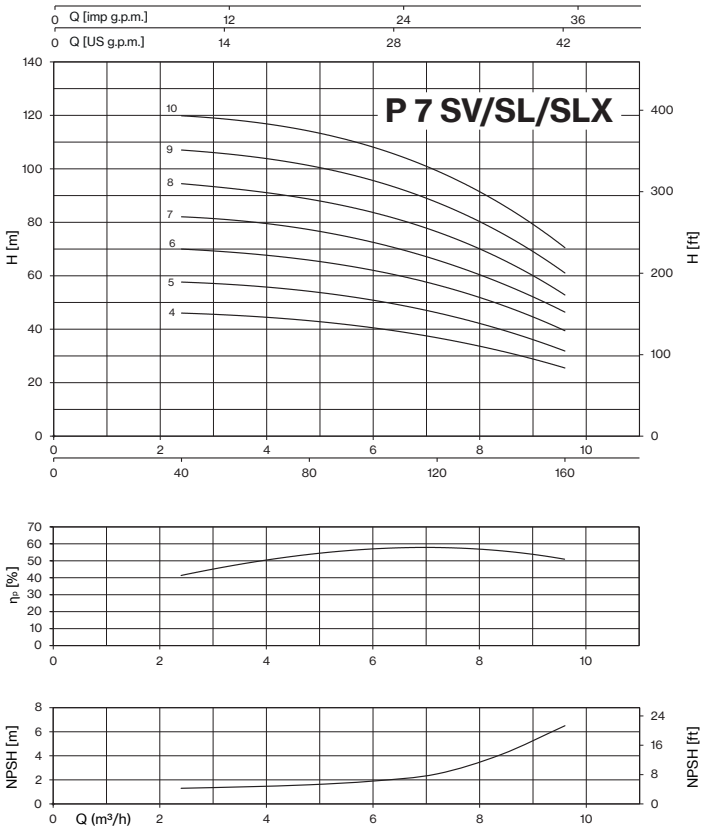
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)						
1~	3~			1~	3~	1~ 230V	3~ 400V	0	2,4	3,6	4,8	6	7,2	9,6
								0	40	60	80	100	120	160
		HP	kW	kW		A								
P 7...-180/4	**P 7...-180/4T**	2	1,5	1,8	1,7	8,3	3,5	46,7	46,0	45,2	43,1	40,3	36,9	25,5
P 7...-250/5	**P 7...-250/5T**	2,5	1,85	2,2	2,1	9,9	4,0	58,5	57,6	56,6	54,1	50,8	46,1	31,8
P 7...-300/6	**P 7...-300/6T**	3	2,2	2,6	2,5	12,1	4,8	70,6	69,9	68,7	65,8	61,8	56,6	39,3
-	**P 7...-350/7T**	3,5	2,57	-	2,9	-	5,3	82,8	82,0	80,6	77,2	72,3	66,0	46,4
-	**P 7...-400/8T**	4	3	-	3,3	-	6,1	94,8	94,3	92,5	88,6	83,2	76,4	52,6
-	**P 7...-450/9T**	4,5	3,37	-	3,7	-	6,7	107,4	106,9	105,2	101,1	95,3	87,7	61,0
-	**P 7...-550/10T**	5,5	4	-	4,1	-	7,9	119,8	119,6	118,4	113,9	107,7	99,4	70,4

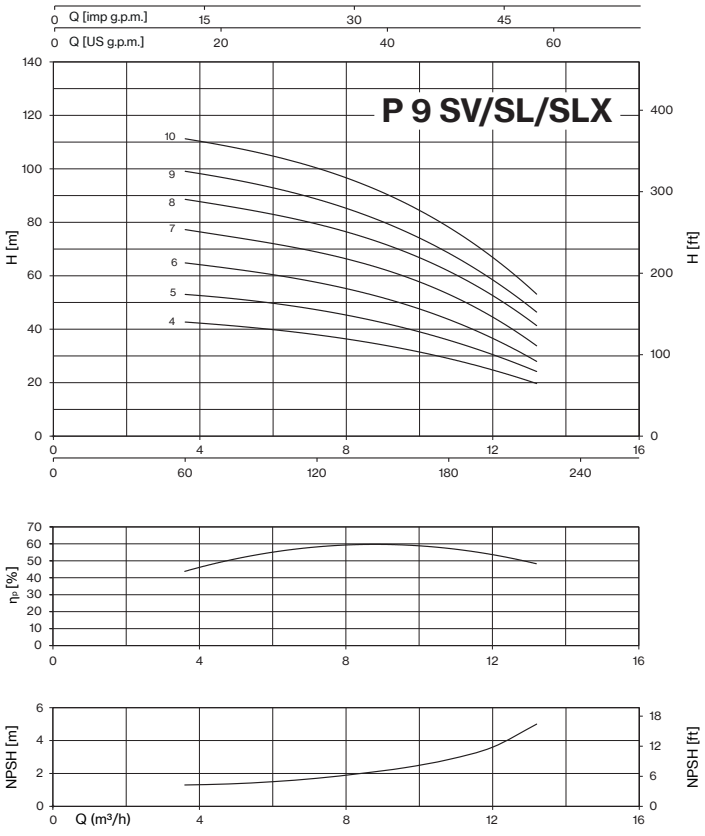
TYPE - 50 Hz		P2		P1		CURRENT		Q (m³/h - l/min)							
1~	3~			1~	3~	1~ 230V	3~ 400V	0	3,6	4,8	6	7,2	9,6	12	13,2
								0	60	80	100	120	160	200	220
		HP	kW	kW		A									
P 9...-200/4	**P 9...-200/4T**	2	1,5	1,8	1,8	8,3	3,6	45,8	42,7	41,5	39,7	37,8	32,7	24,6	19,8
P 9...-250/5	**P 9...-250/5T**	2,5	1,85	2,3	2,2	10,4	4,2	57,1	53,1	51,6	49,5	47,2	40,6	30,2	24,4
P 9...-300/6	**P 9...-300/6T**	3	2,2	2,8	2,6	12,8	5,0	69,4	64,7	63,0	60,3	57,3	49,8	36,2	28,1
-	**P 9...-400/7T**	4	3	-	3,1	-	5,9	82,0	77,2	74,9	72,0	68,7	59,9	44,2	33,9
-	**P 9...-450/8T**	4,5	3,37	-	3,6	-	6,5	93,5	88,5	86,3	82,6	79,0	69,5	52,0	41,7
-	**P 9...-500/9T**	4,5	3,37	-	4	-	7	105,4	99,1	96,5	92,5	88,3	77,3	57,5	46,9
-	**P 9...-550/10T**	5,5	4	-	4,4	-	8,2	117,6	111,2	108,7	104,5	99,9	87,8	66,2	53,4

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)									
3~				3~ 400V	0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	24
					0	100	120	160	200	240	280	320	360	400
	HP	kW	kW	A										
P 18...-250/3T	2,5	1,85	2,3	4,3	33,8	31,6	31,0	29,4	27,4	25,4	23,2	20,4	16,3	11,5
P 18...-400/4T	4	3	3,1	5,9	46,3	44,2	43,4	41,4	39,1	36,7	34,1	30,8	25,6	19,0
P 18...-450/5T	4,5	3,37	3,9	6,9	58,1	55,7	54,6	52,1	49,3	46,3	42,9	38,7	32,2	24,0
P 18...-550/6T	5,5	4	4,7	8,5	70,1	67,4	66,3	63,4	60,0	56,4	52,4	47,6	39,6	29,9
P 18...-750/8T	7,5	5,5	6,2	11,2	94,2	90,6	89,1	85,3	80,9	76,2	71,1	65,0	54,6	41,4
P 18...-900/9T	10	7,5	7	12,9	106,4	102,8	101,3	97,2	92,4	87,3	81,6	75,0	63,5	48,5

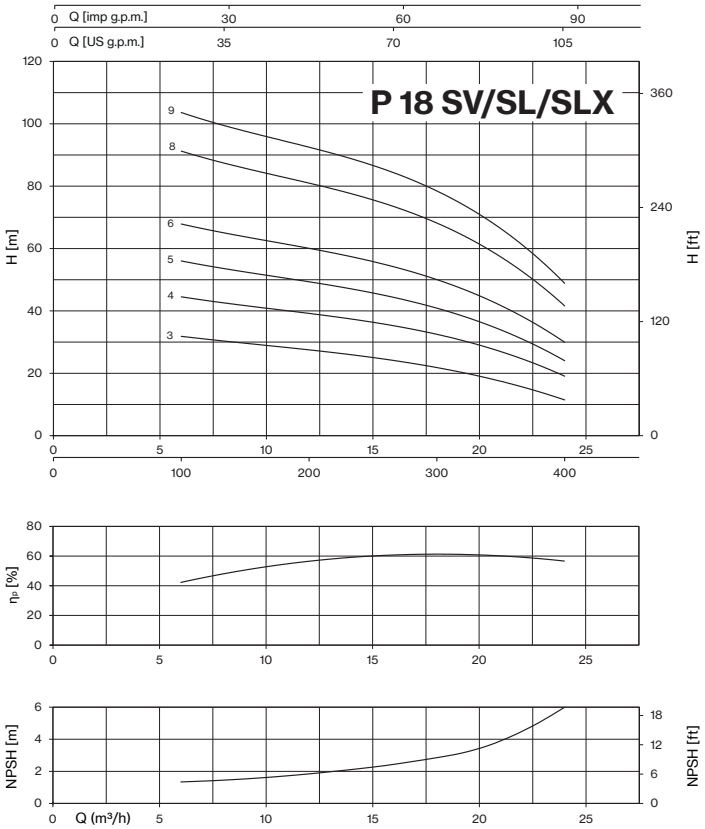

P 3 SV/SL/SLX
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
12
11
10
9
8
7
6
5
η_p [%]
5-6
7-8-9-10-11-12
NPSH [m]
NPSH [ft]
Q (m³/h)

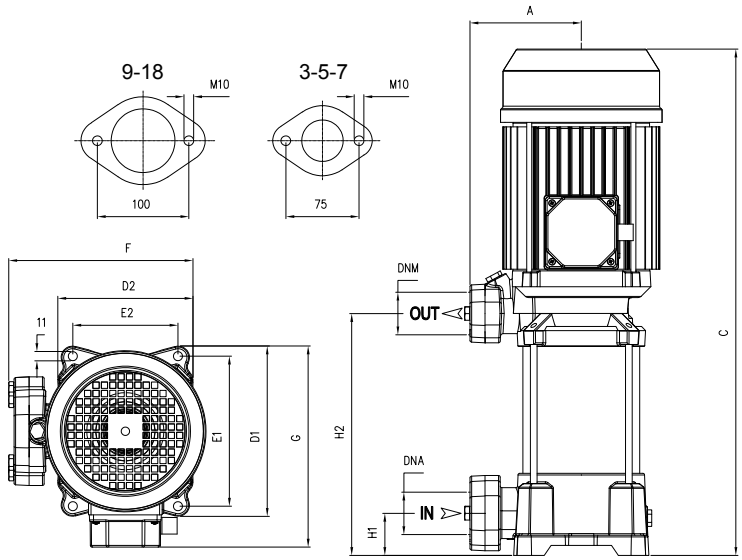

P 5 SV/SL/SLX
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
12
11
10
9
8
7
6
5
4
η_p [%]
5-6-7-8-9-10-11-12
NPSH [m]
NPSH [ft]
Q (m³/h)


P 7 SV/SL/SLX
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
10
9
8
7
6
5
4
η_p [%]
NPSH [m]
NPSH [ft]
Q (m³/h)


P 9 SV/SL/SLX
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
10
9
8
7
6
5
4
η_p [%]
NPSH [m]
NPSH [ft]
Q (m³/h)

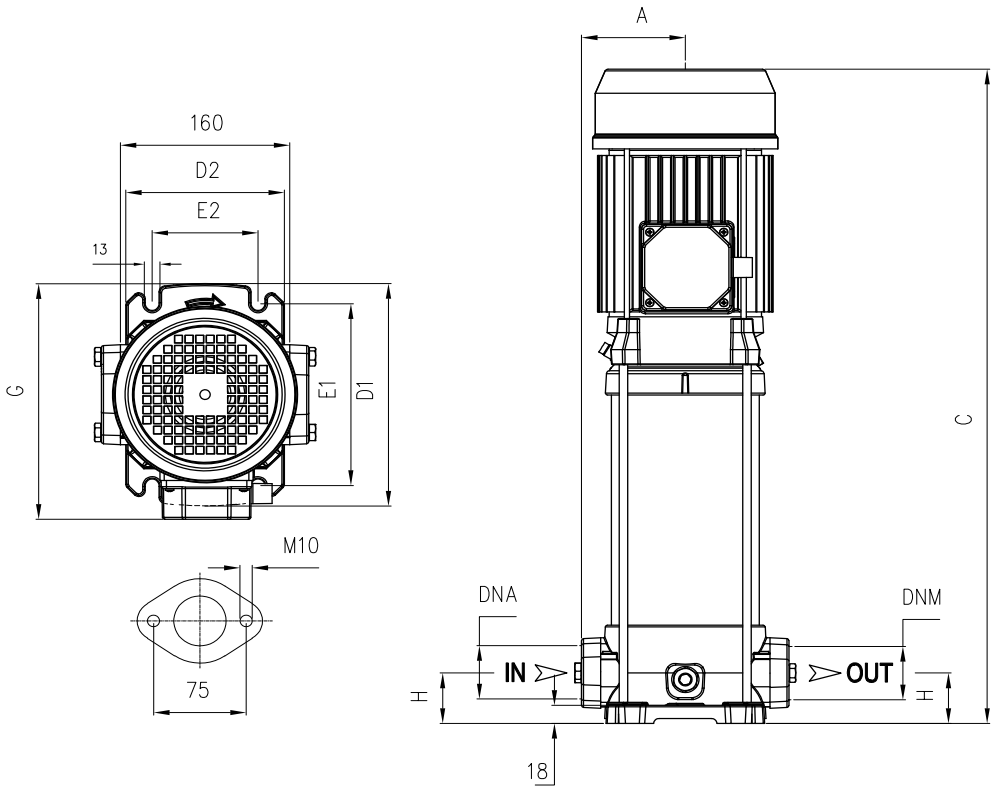
PLUS SV/SL/SLX



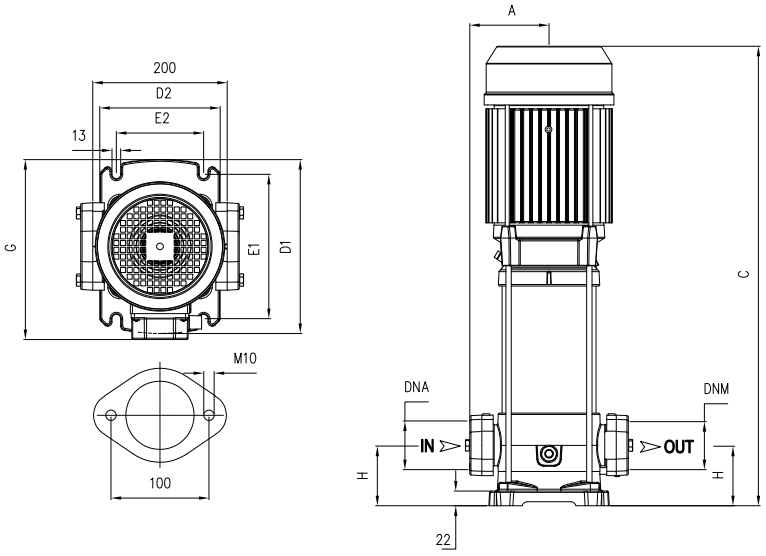


TYPE		DIMENSIONS (mm)																
~1	~3	A	C	D1	D2	E1	E2	F	G	H1	H2	DNA	DNM	I	L	M	~1	~3
P 3SV-100/5	**P 3SV-100/5T**	135	413	204	162	178,5	125	229	213	40	202			580	231	235	18,5	18,5
P 3SV-120/6	**P 3SV-120/6T**	135	437	204	162	178,5	125	229	213	40	226			580	231	235	19,5	19,5
P 3SV-150/7	**P 3SV-150/7T**	135	521	204	162	178,5	125	229	220	40	250			580	231	235	26,5	26,5
P 3SV-180/8	**P 3SV-180/8T**	135	545	204	162	178,5	125	229	220	40	274			580	231	235	26,5	26,5
P 3SV-200/9	**P 3SV-200/9T**	135	569	204	162	178,5	125	229	220	40	298			580	231	235	27,5	27,5
P 3SV-250/10	**P 3SV-250/10T**	135	593	204	162	178,5	125	229	220	40	322	1" ¼ G	1" ¼ G	650	246	246	28,5	28,5
P 3SV-280/11	**P 3SV-280/11T**	135	672 T 617	204	162	178,5	125	229	228 T 220	40	346			580	231	235	32	29
P 3SV-300/12	**P 3SV-300/12T**	135	696 T 641	204	162	178,5	125	229	228 T 220	40	370			779	261	295	32,5	28
P 5SV-120/4	**P 5SV-120/4T**	135	389	204	162	178,5	125	229	213	40	178			580	231	235	18,5	18,5
P 5SV-150/5	**P 5SV-150/5T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	25,5	25,5
P 5SV-180/6	**P 5SV-180/6T**	135	497	204	162	178,5	125	229	220	40	226			580	231	235	26	26
P 5SV-200/7	**P 5SV-200/7T**	135	521	204	162	178,5	125	229	220	40	250			580	231	235	25,5	26,5
P 5SV-250/8	**P 5SV-250/8T**	135	545	204	162	178,5	125	229	220	40	274			580	231	235	27	26
P 5SV-280/9	**P 5SV-280/9T**	135	624 T 569	204	162	178,5	125	229	228 T 220	40	298	1" ¼ G	1" ¼ G	650	246	246	31	26,5
P 5SV-300/10	**P 5SV-300/10T**	135	648 T 593	204	162	178,5	125	229	228 T 220	40	322			779 T 650	261 246	295 246	35,5	28
P 5SV-350/11	**P 5SV-350/11T**	135	672	204	162	178,5	125	229	228	40	346			779	261	295	36	33
-	**P 5SV-380/12T**	135	696	204	162	178.5	125	229	228	40	370			779	261	295	-	35,5
P 7SV-180/4	**P 7SV-180/4T**	135	422	204	162	178,5	125	229	220	40	178			580	231	235	23,5	25
P 7SV-250/5	**P 7SV-250/5T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	25	24
P 7SV-300/6	**P 7SV-300/6T**	135	552 T 497	204	162	178,5	125	229	228 T 220	40	226			580	231	235	32,5	26
-	**P 7SV-350/7T**	135	575	204	162	178,5	125	229	228	40	250	1" ¼ G	1" ¼ G	650	246	246	-	30
-	**P 7SV-400/8T**	135	600	204	162	178,5	125	229	228	40	274			650	246	246	-	33,5
-	**P 7SV-450/9T**	135	653	204	162	178,5	125	235	243	40	301			779	261	295	-	39
-	**P 7SV-550/10T**	135	676	204	162	178,5	125	235	243	40	325			779	261	295	-	44
P 9SV-200/4	**P 9SV-200/4T**	135	473	204	162	178,5	125	229	220	40	202			580	231	235	24	25
P 9SV-250/5	**P 9SV-250/5T**	135	503	204	162	178,5	125	229	220	40	232			580	231	235	25,5	24,5
P 9SV-300/6	**P 9SV-300/6T**	135	588 T 533	204	162	178,5	125	229	228 T 220	40	262			580	231	235	33	26,5
-	**P 9SV-400/7T**	135	617	204	162	178,5	125	229	228	40	292	1" ½ G	1" ¼ G	650	246	246	-	33,5
-	**P 9SV-450/8T**	135	677	204	162	178,5	125	235	243	40	325			779	261	295	-	39
-	**P 9SV-500/9T**	135	707	204	162	178,5	125	235	243	40	355			779	261	295	-	39,5
-	**P 9SV-550/10T**	135	737	204	162	178,5	125	235	243	40	385			779	261	295	-	45
-	**P 18SV-250/3T**	135	481	204	162	178,5	125	229	220	50	211			580	231	235	-	25
-	**P 18SV-400/4T**	135	573	204	162	178,5	125	229	228	50	248			580	231	235	-	33,5
-	**P 18SV-450/5T**	135	640	204	162	178,5	125	235	243	50	289	2" G	1" ½ G	779	261	295	-	39,5
-	**P 18SV-550/6T**	135	678	204	162	178,5	125	235	243	50	326			779	261	295	-	44,5
-	**P 18SV-750/8T**	135	815	204	162	178,5	125	255	253	50	401			909	274	303	-	55,5
-	**P 18SV-900/9T**	135	852	204	162	178,5	125	255	253	50	439			909	274	303	-	62

PLUS SL/SLX



TYPE		DIMENSIONS (mm)													Kg			
															SL		SLX	
~1	~3	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	~1	~3	~1	~3
P 3...-100/5	**P 3...-100/5T**	98	429	220	150	180	100	228	50			580	231	235	19	19	19	19
P 3...-120/6	**P 3...-120/6T**	98	453	220	150	180	100	228	50			580	231	235	21,5	21,5	20	20
P 3...-150/7	**P 3...-150/7T**	98	537	220	150	180	100	228	50			539	261	280	28,5	28,5	27,5	27,5
P 3...-180/8	**P 3...-180/8T**	98	561	220	150	180	100	228	50			580	231	235	28,5	28,5	27,5	27,5
P 3...-200/9	**P 3...-200/9T**	98	585	220	150	180	100	228	50	1" ¼ G	1" ¼ G	664	261	295	30,5	30,5	29	29,5
P 3...-250/10	**P 3...-250/10T**	98	609	220	150	180	100	228	50			664	261	295	31,5	31,5	30,5	30,5
P 3...-280/11	**P 3...-280/11T**	98	688 T 633	220	150	180	100	236 T 228	50			779 T 664	261	295	35,5	32,5	34	31
P 3...-300/12T	**P 3...-300/12T**	98	712 T 657	220	150	180	100	236 T 228	50			779	261	295	36	31,5	34,5	30
P 5...-120/4	**P 5...-120/4T**	98	405	220	150	180	100	221	50			580	231	235	20	20	19	19
P 5...-150/5	**P 5...-150/5T**	98	489	220	150	180	100	228	50			580	231	235	27,5	27,5	26,5	26,5
P 5...-180/6	**P 5...-180/6T**	98	513	220	150	180	100	228	50			539	261	280	28	28	26,5	27
P 5...-200/7	**P 5...-200/7T**	98	537	220	150	180	100	228	50			539	261	280	27,5	28,5	26	27,5
P 5...-250/8	**P 5...-250/8T**	98	561	220	150	180	100	228	50			280	231	235	29	28	28	27
P 5...-280/9	**P 5...-280/9T**	98	640 T 585	220	150	180	100	236 T 228	50	1" ¼ G	1" ¼ G	664	261	295	34	29,5	33	28,5
P 5...-300/10	**P 5...-300/10T**	98	664 T 609	220	150	180	100	236 T 228	50			664	261	295	37,5	31	36,5	30
P 5...-350/11	**P 5...-350/11T**	98	687	220	150	180	100	236	50			779	261	295	38,5	35,5	37	34
-	**P 5...-380/12T**	98	712	220	150	180	100	236	50			779	261	295	-	39	-	37,5
P 7...-180/4	**P 7...-180/4T**	98	465	220	150	180	100	228	50			580	231	235	26	27	24,5	26
P 7...-250/5	**P 7...-250/5T**	98	489	220	150	180	100	228	50			580	231	235	27,5	26,5	26	25
P 7...-300/6	**P 7...-300/6T**	98	568 T 513	220	150	180	100	236 T 228	50			664 T 539	261	295 T 280	35	28	34	27
-	**P 7...-350/7T**	98	590	220	150	180	100	236	50	1" ¼ G	1" ¼ G	664	261	295	-	33	-	32
-	**P 7...-400/8T**	98	614	220	150	180	100	236	50			664	261	295	-	36,5	-	35,5
-	**P 7...-450/9T**	98	668	220	150	180	100	251	50			779	261	295	-	41	-	40
-	**P 7...-550/10T**	98	692	220	150	180	100	251	50			779	261	295	-	46,5	-	45



TYPE		DIMENSIONS (mm)													Kg			
															SL		SLX	
~1	~3	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	~1	~3	~1	~3
P 9...-200/4	**P 9...-200/4T**	118	520	260	180	215	130	248	80	1" ½ G	1" ½ G	539	261	280	30	31	28,5	29,5
P 9...-250/5	**P 9...-250/5T**	118	550	260	180	215	130	248	80			664	261	295	32	31	30,5	29,5
P 9...-300/6	**P 9...-300/6T**	118	635 T 580	260	180	215	130	256 T 248	80			664	261	295	39,5	33	38	31,5
-	**P 9...-400/7T**	118	663	260	180	215	130	256	80			779	261	295	-	40	-	38,5
-	**P 9...-450/8T**	118	723	260	180	215	130	271	80			779	261	295	-	45	-	43,5
-	**P 9...-500/9T**	118	763	260	180	215	130	271	80			779	261	295	-	45,5	-	44
-	**P 9...-550/10T**	118	783	260	180	215	130	271	80			909	274	303	-	51	-	49
-	**P 18...-250/3T**	118	482	260	180	215	130	251	90	2" G	2" G	664	261	295	-	30,5	-	29,5
-	**P 18...-400/4T**	118	603	260	180	215	130	257	90			664	261	295	-	39	-	37,5
-	**P 18...-450/5T**	118	680	260	180	215	130	271	90			779	261	295	-	44,5	-	43
-	**P 18...-550/6T**	118	718	260	180	215	130	271	90			779	261	295	-	49,5	-	48
-	**P 18...-750/8T**	118	855	260	180	215	130	280	90			909	274	303	-	60	-	58,5
-	**P 18...-900/9T**	118	893	260	180	215	130	280	90			909	274	303	-	66,5	-	65

LOTS				
MODEL	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3SV-100/5(T)÷200/9(T)	80×120×150	42	80×120×175	49
P 3SV-250/10(T)÷300/12(T)	80×120×155	30	80×120×180	35
P 5SV-120/4(T)÷250/8(T)	80×120×150	42	80×120×175	49
P 5SV-280/9(T)	80×120×155	30	80×120×180	35
P 5SV-300/10	85×110×125	20	85×110×150	24
P 5SV-300/10T	80×120×155	30	80×120×180	35
P 5SV-350/11(T)÷380/12T	85×110×125	20	85×110×150	24
P 7SV-180/4(T)÷300/6(T)	80×120×150	42	80×120×175	49
P 7SV-350/7T	80×120×155	30	80×120×175	35
P 7SV-400/8T	80×120×155	30	80×120×180	35
P 7SV-450/9T÷550/10T	85×110×125	20	85×110×150	24
P 9SV-200/4(T)÷300/6(T)	80×120×150	42	80×120×175	49
P 9SV-400/7T	80×120×155	30	80×120×180	35
P 9SV-450/8T÷550/10T	85×110×125	20	85×110×150	24
P 18SV-250/3T÷400/4T	80×120×150	42	80×120×175	49
P 18SV-450/5T÷550/6T	85×110×125	20	85×110×150	24
P 18SV-750/8T÷900/9T	92×120×135	20	85×110×165	24

LOTS				
MODEL	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3SL-100/5(T)÷180/8(T)	85×110×150	42	85×110×175	49
P 3SL-200/9(T)÷250/10(T)	80×120×150	30	80×120×170	35
P 3SL-280/11(T)÷300/12(T)	85×110×125	20	85×110×150	24
P 5SL-120/4(T)÷250/8(T)	85×110×150	42	85×110×175	49
P 5SL-280/9(T)	80×120×150	30	80×120×170	35
P 5SL-300/10	85×110×125	20	85×110×150	24
P 5SL-300/10(T)	80×120×150	30	80×120×170	35
P 5SL-350/11(T)÷380/12T	85×110×125	20	85×110×150	24
P 7SL-180/4T÷250/5T	85×110×150	42	85×110×175	49
P 7SL-300/6T÷400/8T	80×120×150	30	80×120×170	35
P 7SL-450/9T÷550/10T	85×110×125	20	85×110×150	24
P 9SL-200/4(T)÷400/7(T)	80×120×155	25	80×120×185	30
P 9SL-450/8T÷550/10T	85×110×125	20	85×110×150	24
P 18SL-250/3T÷400/4T	80×120×155	25	80×120×185	30
P 18SL-450/5T÷550/6T	85×110×125	20	85×110×150	24
P 18SL-750/8T÷900/9T	85×110×135	20	85×110×165	24

PLUS SLG/SLXG

Multistage Vertical



PLUS 3-5-7-9 SLG

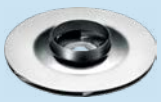


PLUS 3-5-7 SLXG



PLUS 9 SLXG





Stainless steel multistage vertical pumps. For non-loaded clean fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	cast iron (SLG); stainless steel AISI 304 (SLXG)
Motor bracket	cast iron
Impellers, diffusers, shell, motor shaft	stainless steel AISI 304
Mechanical seal	graphite-tungsten carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	-15 ÷ +110 °C
Max operating pressure	max 25 bar
Pump body gasket	EPDM

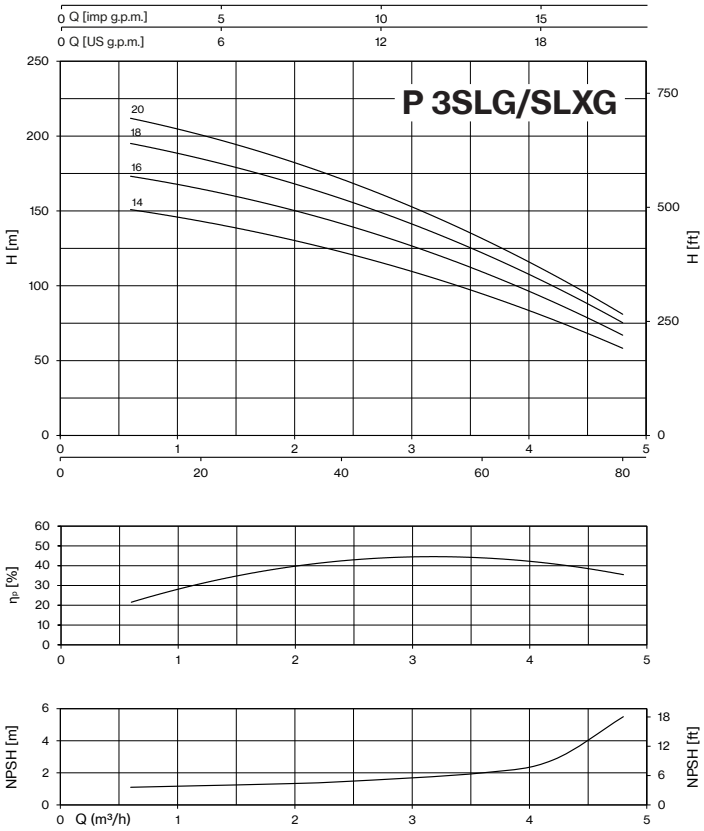
Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW
Insulation class	F
Protection degree	IPX5

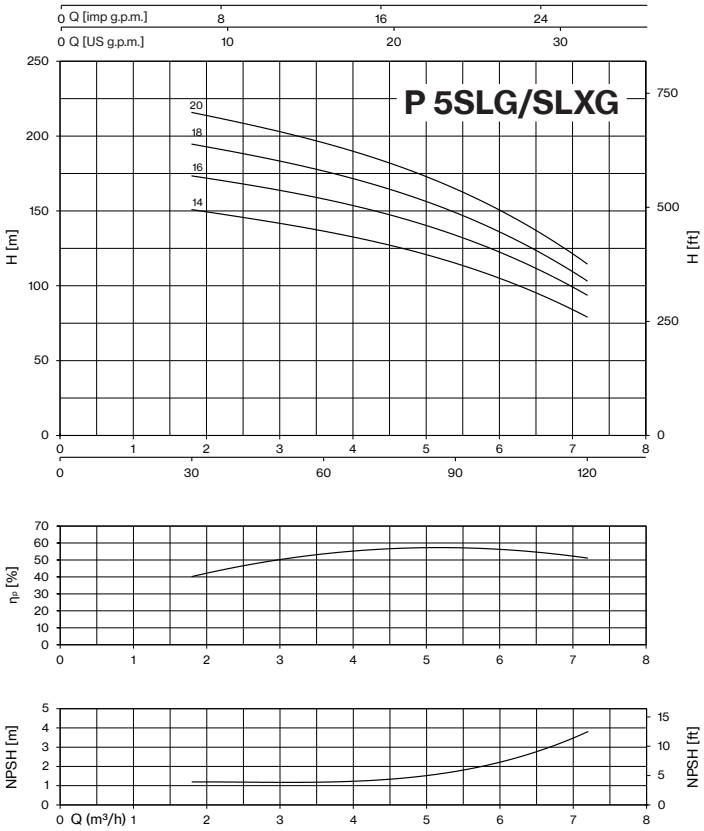
LOTS				
MODEL	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
P 3SLG/SLXG-350/14T-380/16T	100×120×150	12	100×120×150	12
P 3SLG/SLXG-400/18T-450/20T	100×135×150	12	100×135×150	12
P 5SLG/SLXG-400/14T-450/16T	100×120×150	12	100×120×150	12
P 5SLG/SLXG-550/18T-600/20T	100×135×150	12	100×135×150	12
P 7SLG/SLXG-750/12T-800/14T	100×120×150	12	100×120×150	12
P 7SLG/SLXG-900/16T-1000/20T	100×135×150	12	100×135×150	12
P 9SLG/SLXG-750/12T-800/14T	100×120×150	12	100×120×150	12
P 9SLG/SLXG-900/16T-1000/20T	100×135×150	12	100×135×150	12

P 3 S LX G - 350 / 14 T

- T — motor 3~
- 14 — No. of impellers
- G — coupling
- L — vertical axis, in-line ports
- LX — vertical axis, in-line ports, stainless steel pump body
- S — stainless steel hydraulic part
- 350 — nominal flow-rate m³/h
- P 3 — pump type

More details of the mechanical seals are included on page 182

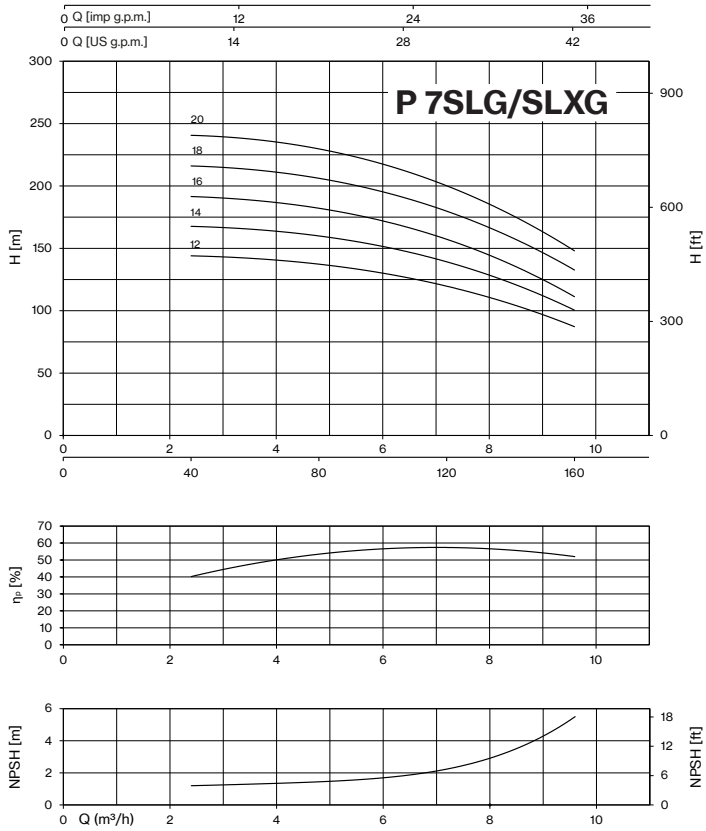


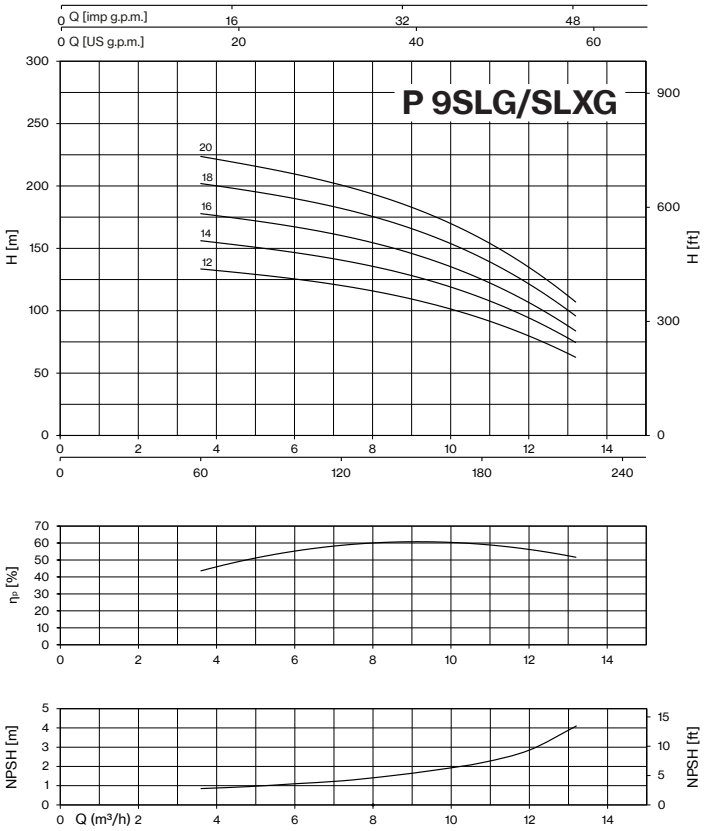


TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)						
3~				3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,8
					0	10	20	30	40	60	80
	HP	kW	kW	A	H (m)						
P 3...-350/14T	3	2,2	2,5	4,7	154,8	150,9	143,2	133,7	122,5	94,7	58,2
P 3...-380/16T	4	3	2,9	5,5	177,5	173,2	164,6	154,5	141,3	109,4	67,0
P 3...-400/18T	4	3	3,2	6,0	200,3	195,1	184,9	172,8	158,0	122,1	75,3
P 3...-450/20T	4	3	3,6	6,5	218,3	211,9	200,6	187,4	171,4	131,5	81,0

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)						
3~				3~ 400V	0	1,8	2,4	3,6	4,8	6	7,2
					0	30	40	60	80	100	120
	HP	kW	kW	A	H (m)						
P 5...-400/14T	4	3	3,5	6,3	159,2	150,7	146,7	136,6	122,9	105,5	79,0
P 5...-450/16T	5,5	4	4,1	7,9	182,0	173,2	169,1	158,0	142,9	122,9	93,6
P 5...-550/18T	5,5	4	4,5	8,3	204,4	194,4	189,5	176,5	159,6	136,3	103,2
P 5...-600/20T	5,5	4	5,0	8,9	226,7	215,5	210,0	195,5	176,3	151,1	114,5

PLUS SLG/SLXG

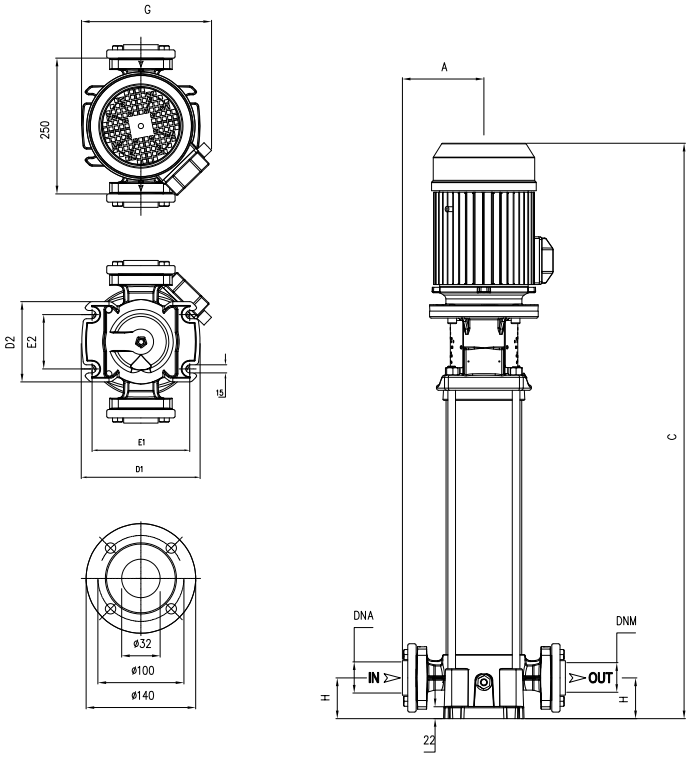




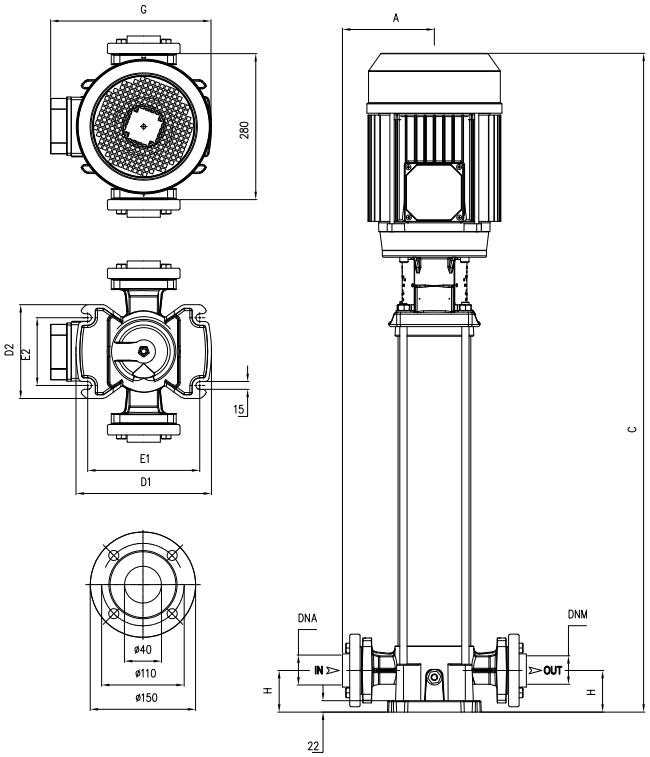
TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)						
3~				3~	0	2,4	3,6	4,8	6	7,2	9,6
					0	40	60	80	100	120	160
	HP	kW	3~	3~400V 50 Hz	H (m)						
P 7...-750/12T	7,5	5,5	5,1	9,9	143,7	143,7	142,6	137,0	129,6	119,8	87,0
P 7...-800/14T	7,5	5,5	5,9	10,9	167,6	167,3	165,9	159,6	151,0	139,5	100,3
P 7...-900/16T	7,5	5,5	6,7	12,0	191,5	191,2	189,3	181,7	171,5	157,7	111,1
P 7...-950/18T	10	7,5	7,4	12,4	215,5	215,7	213,9	205,8	194,7	179,8	132,3
P 7...-1000/20T	10	7,5	8,2	13,5	240,3	240,2	238,4	229,3	216,8	200,3	147,7

TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)							
3~				3~	0	3,6	4,8	6	7,2	9,6	12	13,2
					0	60	80	100	120	160	200	220
	HP	kW	3~	3~400V 50 Hz	H (m)							
P 9...-750/12T	7,5	5,5	5,3	10,1	141,3	133,2	130,4	125,4	119,7	105,1	79,6	62,7
P 9...-800/14T	7,5	5,5	6,1	11,1	165,5	155,7	152,6	146,5	139,9	123,4	94,0	74,6
P 9...-900/16T	10	7,5	6,9	12,8	188,7	177,6	173,6	167,1	159,7	140,4	106,2	83,9
P 9...-950/18T	10	7,5	7,6	12,7	213,8	201,6	197,3	189,6	181,2	159,9	121,0	96,0
P 9...-1000/20T	10	7,5	8,5	13,9	236,7	223,1	218,3	209,3	199,8	176,1	134,5	107,0

P 3-5-7 SLG/SLXG



P 9 SLG/SLXG



TYPE	DIMENSIONS (mm)													Kg	
3~	A	C	D1	D2	E1	E2	G	H	DNA	DNM	I	L	M	SLG	SLXG
P 3SLG-350/14T	155	932	220	150	180	100	236	75	1" ¼ G	1" ¼ G	1098	327	290	54	
P 3SLG-380/16T	155	977	220	150	180	100	236	75			1098	327	290	58,5	
P 3SLG-400/18T	155	1025	220	150	180	100	236	75			1310	325	380	60,5	
P 3SLG-450/20T	155	1098	220	150	180	100	251	75			1310	325	380	65,5	
P 3SLXG-350/14T	155	932	260	180	215	130	236	75	1" ¼ G	1" ¼ G	1098	327	290	53,5	
P 3SLXG-380/16T	155	977	260	180	215	130	236	75			1098	327	290	58	
P 3SLXG-400/18T	155	1025	260	180	215	130	236	75			1310	325	380	60,5	
P 3SLXG-450/20T	155	1098	260	180	215	130	251	75			1310	325	380	64,5	
P 5SLG-400/14T	155	932	220	150	180	100	251	75	1" ¼ G	1" ¼ G	1098	327	290	57	
P 5SLG-450/16T	155	1000	220	150	180	100	251	75			1098	327	290	66	
P 5SLG-550/18T	155	1048	220	150	180	100	251	75			1310	325	380	68	
P 5SLG-600/20T	155	1098	220	150	180	100	260	75			1310	325	380	70	
P 5SLXG-400/14T	155	932	260	180	215	130	251	75	1" ¼ G	1" ¼ G	1098	327	290	56,5	
P 5SLXG-450/16T	155	1000	260	180	215	130	251	75			1098	327	290	65,5	
P 5SLXG-550/18T	155	1048	260	180	215	130	251	75			1310	325	380	68	
P 5SLXG-600/20T	155	1098	260	180	215	130	260	75			1310	325	380	69	
P 7SLG-750/12T	155	940	220	150	180	100	260	75	1" ¼ G	1" ¼ G	1098	327	290	70	
P 7SLG-800/14T	155	988	220	150	180	100	260	75			1098	327	290	71,5	
P 7SLG-900/16T	155	1036	220	150	180	100	260	75			1310	325	380	74	
P 7SLG-950/18T	155	1081	220	150	180	100	288	75			1310	325	380	87,5	
P 7SLG-1000/20T	155	1128	220	150	180	100	288	75			1310	325	380	87,5	
P 7SLXG-750/12T	155	940	260	180	215	130	260	75	1" ¼ G	1" ¼ G	1098	327	290	70	
P 7SLXG-800/14T	155	988	260	180	215	130	260	75			1098	327	290	71,5	
P 7SLXG-900/16T	155	1036	260	180	215	130	260	75			1310	325	380	73,5	
P 7SLXG-950/18T	155	1081	260	180	215	130	288	75			1310	325	380	87,5	
P 7SLXG-1000/20T	155	1128	260	180	215	130	288	75			1310	325	380	88,5	
P 9...-750/12T	170	1027	260	180	215	130	280	80	1" ½ G	1" ½ G	1310	325	380	74,5	73,5
P 9...-800/14T	170	1088	260	180	215	130	280	80			1310	325	380	76,5	75
P 9...-900/16T	170	1147	260	180	215	130	280	80			1310	325	380	83	82
P 9...-950/18T	170	1205	260	180	215	130	308	80			1310	325	380	91,5	91
P 9...-1000/20T	170	1263	260	180	215	130	308	80			1310	325	380	93,5	93

PLUS V-SV-L-SL-LG-SLG Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT		STANDARD MATERIAL	OPTIONAL
					2
	P3-100/5, P3-120/6, P5-120/4, P5-150/5, P5-180/6, P7-180/4, P7-250/5, P7-300/6, P9-200/4, P9-250/5, P18-250/3, P18-400/4	14mm / S	***Rotating face*** ***Stationary face*** ***Elastomer***	Graphite Ceramic EPDM	SiC SiC EPDM
	P3-150/7, P3-180/8, P3-200/9, P3-250/10, P3-280/11, P3-300/12, P5-200/7, P5-250/8, P5-280/9, P5-300/10, P5-350/11, P5-380/12, P7-350/7, P7-400/8, P7-450/9, P7-550/10, P9-300/6, P9-400/7, P9-450/8, P9-500/9, P9-550/10	14mm	***Rotating face*** ***Stationary face*** ***Elastomer***	Graphite SiC EPDM	SiC SiC EPDM
	P18-450/5, P18-550/6, P18-750/8, P18-900/9, P18-920/10, P18-1000/11	14mm / L	***Rotating face*** ***Stationary face*** ***Elastomer***	Graphite SiC EPDM	SiC SiC EPDM
	P3-350/14, P3-380/16, P3-400/18, P3-450/20, P5-400/14, P5-450/16, P5-550/18, P5-600/20, P7-750/12, P7-800/14, P7-900/16, P7-950/18, P7-1000/20, P9-750/12, P9-800/14, P9-900/16, P9-950/18, P9-1000/20	14mm / Balanced seal	***Rotating face*** ***Stationary face*** ***Elastomer***	Tungsten carbide Graphite EPDM	- - -

BEARINGS	PUMP MODEL	TYPE	
	P3-100/5, P3-120/6, P5-120/4	6202-ZZ	6302-ZZ C3
	P3-150/7, P3-180/8, P3-200/9, P3-250/10, 3~ P3-280/11, 3~ P3-300/12, P5-150/5, P5-180/6, P5-200/7, P5-250/8, 3~ P5-280/9, 3~ P5-300/10, P7-180/4, P7-250/5, 3~ P7-300/6, P9-200/4, P9-250/5, 3~ P9-300/6, P18-250/3	6203-ZZ	6304-ZZ C3
	1~ P3-280/11, 1~ P3-300/12, 1~ P5-280/9, 1~ P5-300/10, P5-350/11, P5-380/12, 1~ P7-300/6, P7-350/7, P7-400/8, 1~ P9-300/6, P9-400/7, P18-400/4, P3-350/14, P3-380/16, P3-400/18, P5-400/14	6203-ZZ	6305-ZZ C3
	P7-450/9, P7-550/10, P9-450/8, P9-500/9, P9-550/10, P18-450/5, P18-550/6	6204-ZZ	6306-ZZ-C3
	P3-450/20, P5-450/16, P5-550/18, P5-600/20	6204-ZZ	3206-ZZ C3
	P7-750/12, P7-800/14, P7-900/16, P9-750/12, P9-800/14, P9-900/16, P18-750/8, P18-900/9, P18-920/10	6206-ZZ C3	3306-ZZ C3
	P7-950/18, P7-1000/20, P9-950/18, P9-1000/20, P18-1000/11	6206-ZZ C3	3308-ZZ C3

PLUS HX



Stainless steel multistage vertical pumps. Suitable for clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	EN 1.4401 / AISI 316
Motor bracket	cast iron
Impellers, diffusers, shell, pump shaft	EN 1.4401 / AISI 316
Mechanical seal	silicon carbide-graphite-EPDM
Intermediate bush	tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	-15 ÷ +120 °C (Max 85° for domestic use)
Max operating pressure	max 26 bar
Pump body gasket	EPDM

Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW, size B14 V1 3~ 400/690V - 50Hz P > 4kW, size B5 V1 IE3 efficiency class
Insulation class	F
Protection degree	IP55



P 18 H X - 100 / 1 T -2

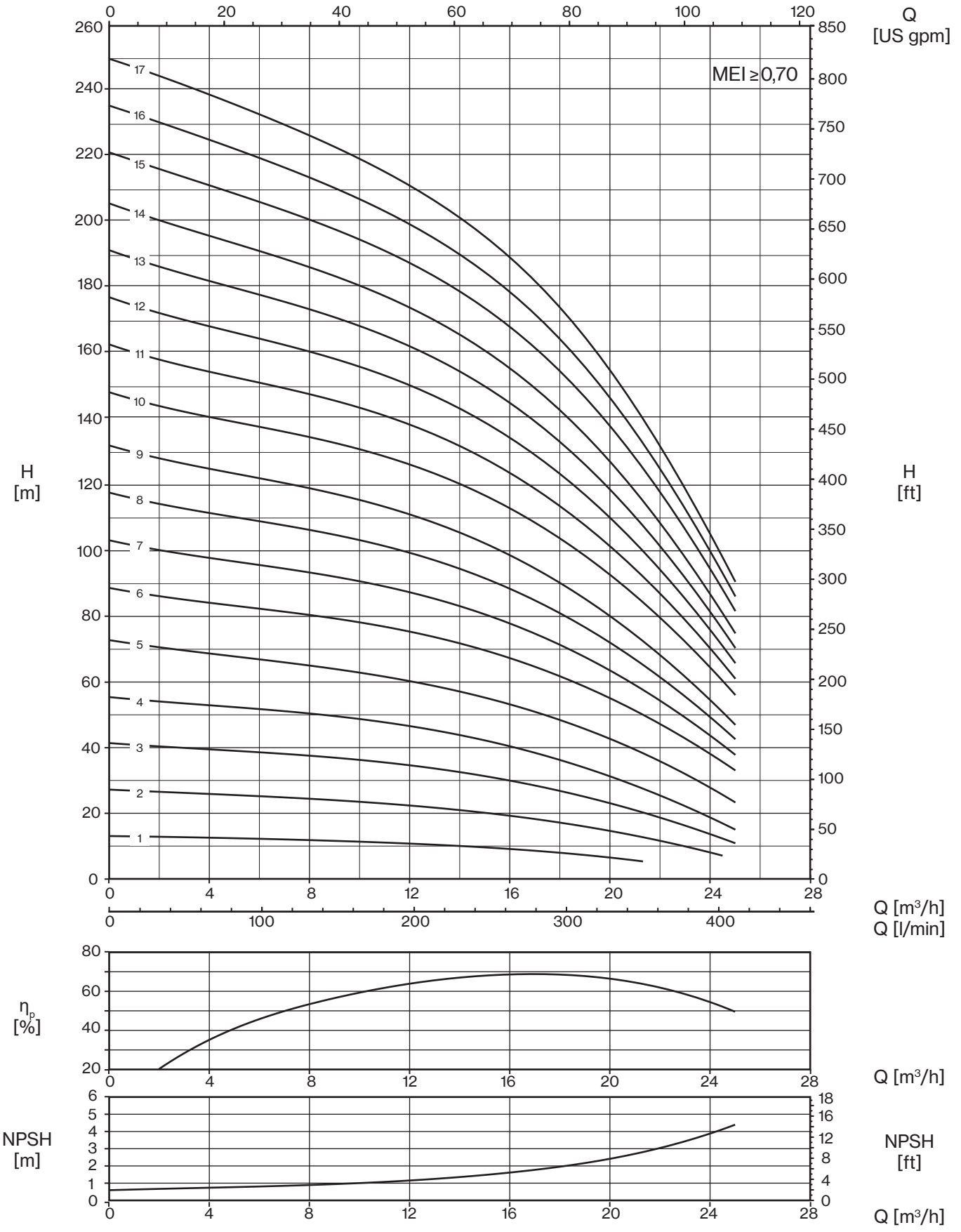
- pump type
- nominal flow-rate m³/h
- vertical axis, in-line ports, coupling
- AISI 316 impellers, diffusers and pump body
- nominal power HP×100
- No. of impellers
- motor **T** 3~
- mech. seal and O-rings
  - SiC-Graphite-EPDM
  - **V** SiC-Graphite-FKM
  - **2E** SiC-SiC-EPDM
  - **2V** SiC-SiC-FKM

More details of the mechanical seals are included on page 201

PLUS 18-22

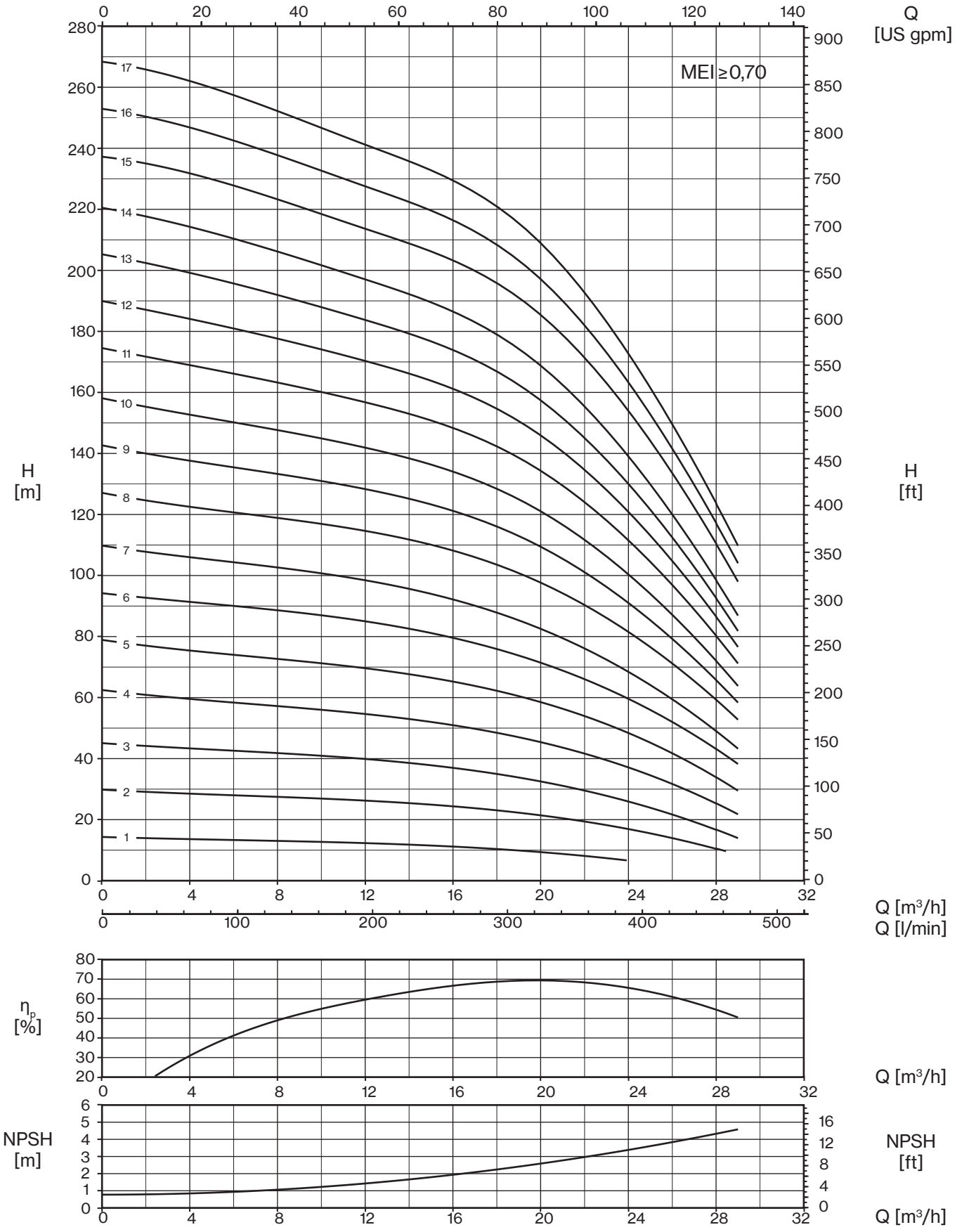
TYPE - 50 Hz	P2		Q (l/min - m³/h - US gpm)											
3~			0	133,3	150	166,7	183,3	200	216,7	233,3	266,7	300	350	400
			0	8	9	10	11	12	13	14	16	18	21	24
			0	35,2	39,6	44,0	48,4	52,8	57,2	61,6	70,3	79,1	92,3	105,5
	HP	kW	H (m)											
P 18HX-100/1T	1	0,75	13,0	11,7	11,6	11,4	11,1	10,8	10,4	10,1	9,1	7,9	5,6	
P 18HX-200/2T	2	1,5	27,1	24,3	23,9	23,5	22,9	22,3	21,7	21,1	19,3	17,2	13,1	8,0
P 18HX-300/3T	3	2,2	41,2	37,4	36,7	36,1	35,3	34,4	33,6	32,7	30,1	27,1	20,8	13,5
P 18HX-400/4T	4	3	55,1	50,2	49,3	48,5	47,5	46,3	45,2	44,0	40,6	36,6	28,2	18,5
P 18HX-550/5T	5,5	4	72,3	64,7	63,7	62,6	61,5	60,1	58,5	57,2	53,6	48,7	38,9	27,6
P 18HX-750/6T	7,5	5,5	88,0	80,1	78,9	77,7	76,4	74,9	73,3	71,7	68,0	62,4	51,3	37,5
P 18HX-750/7T	7,5	5,5	102,5	93,0	91,5	90,1	88,6	86,8	84,9	83,0	78,6	72,0	59,1	43,0
P 18HX-1000/8T	10	7,5	116,9	105,9	104,2	102,6	100,8	98,8	96,5	94,4	89,3	81,7	66,9	48,5
P 18HX-1000/9T	10	7,5	131,2	118,5	116,6	114,8	112,7	110,4	107,9	105,5	99,7	91,1	74,3	53,6
P 18HX-1500/10T	15	11	147,3	134,1	132,1	130,1	127,9	125,5	122,8	120,2	114,1	104,8	86,3	63,4
P 18HX-1500/11T	15	11	161,7	147,1	144,9	142,7	140,3	137,6	134,6	131,7	125,0	114,7	94,4	69,2
P 18HX-1500/12T	15	11	176,2	160,0	157,6	155,2	152,6	149,6	146,3	143,2	135,7	124,5	102,3	74,8
P 18HX-1500/13T	15	11	190,6	172,9	170,3	167,7	164,8	161,6	158,0	154,6	146,4	134,2	110,1	80,3
P 18HX-1500/14T	15	11	204,9	185,7	182,9	180,0	176,9	173,4	169,5	165,9	157,0	143,8	117,8	85,7
P 18HX-2000/15T	20	15	220,7	200,2	197,2	194,2	190,8	187,1	183,0	179,0	169,7	155,7	127,8	93,4
P 18HX-2000/16T	20	15	235,1	213,1	209,8	206,6	203,0	199,0	194,6	190,4	180,3	165,3	135,6	98,9
P 18HX-2000/17T	20	15	249,4	225,9	222,4	219,0	215,1	210,9	206,1	201,6	190,9	174,8	143,3	104,2

TYPE - 50 Hz	P2		Q (l/min - m³/h - US gpm)											
3~			0	166,7	183,3	200	216,7	233,3	266,7	300	350	400	433,3	466,7
			0	10	11	12	13	14	16	18	21	24	26	28
			0	44,0	48,4	52,8	57,2	61,6	70,3	79,1	92,3	105,5	114,3	123,1
	HP	kW	H (m)											
P 22HX-200/1T	2	1,1	14,3	12,9	12,8	12,5	12,2	11,9	11,4	10,5	9,0	6,7	4,0	
P 22HX-300/2T	3	2,2	29,7	26,9	26,6	26,3	26,0	25,5	24,5	23,3	20,7	17,1	13,9	10,6
P 22HX-400/3T	4	3	45,0	40,9	40,4	39,9	39,2	38,5	37,2	35,5	31,6	25,8	21,5	16,6
P 22HX-550/4T	5,5	4	62,2	55,7	54,9	54,2	53,7	52,8	50,9	49,0	44,0	36,8	31,1	25,2
P 22HX-750/5T	7,5	5,5	78,6	70,8	69,9	69,0	68,5	67,4	65,1	62,8	56,9	47,9	41,0	33,5
P 22HX-1000/6T	10	7,5	94,2	86,2	85,1	84,1	83,2	82,2	79,7	77,3	70,0	59,4	51,3	42,0
P 22HX-1000/7T	10	7,5	109,5	99,8	98,5	97,4	96,3	95,1	92,2	89,2	80,6	68,2	58,7	47,9
P 22HX-1500/8T	15	11	126,5	116,1	114,7	113,5	112,3	111,0	107,9	104,8	95,4	81,4	70,7	58,3
P 22HX-1500/9T	15	11	142,0	130,2	128,6	127,2	125,9	124,4	120,8	117,3	106,7	90,8	78,7	64,8
P 22HX-1500/10T	15	11	157,5	144,2	142,4	140,8	139,3	137,7	133,6	129,6	117,7	100,1	86,6	71,1
P 22HX-2000/11T	20	15	174,0	159,4	157,4	155,7	154,1	152,3	147,9	143,5	130,5	111,2	96,4	79,3
P 22HX-2000/12T	20	15	189,5	173,4	171,2	169,3	167,6	165,5	160,7	155,8	141,6	120,4	104,2	85,6
P 22HX-2000/13T	20	15	204,9	187,3	184,9	182,8	180,9	178,7	173,4	168,1	152,5	129,5	111,9	91,7
P 22HX-2000/14T	20	15	220,3	201,1	198,5	196,2	194,1	191,7	186,0	180,2	163,2	138,4	119,4	97,7
P 22HX-2500/15T	25	18,5	237,4	218,1	215,4	213,1	211,0	208,6	202,6	196,8	179,4	153,1	133,0	109,7
P 22HX-2500/16T	25	18,5	252,9	232,2	229,4	226,9	224,6	222,0	215,6	209,4	190,7	162,7	141,1	116,3
P 22HX-2500/17T	25	18,5	268,5	246,3	243,3	240,6	238,2	235,4	228,6	221,9	202,0	172,1	149,2	122,8

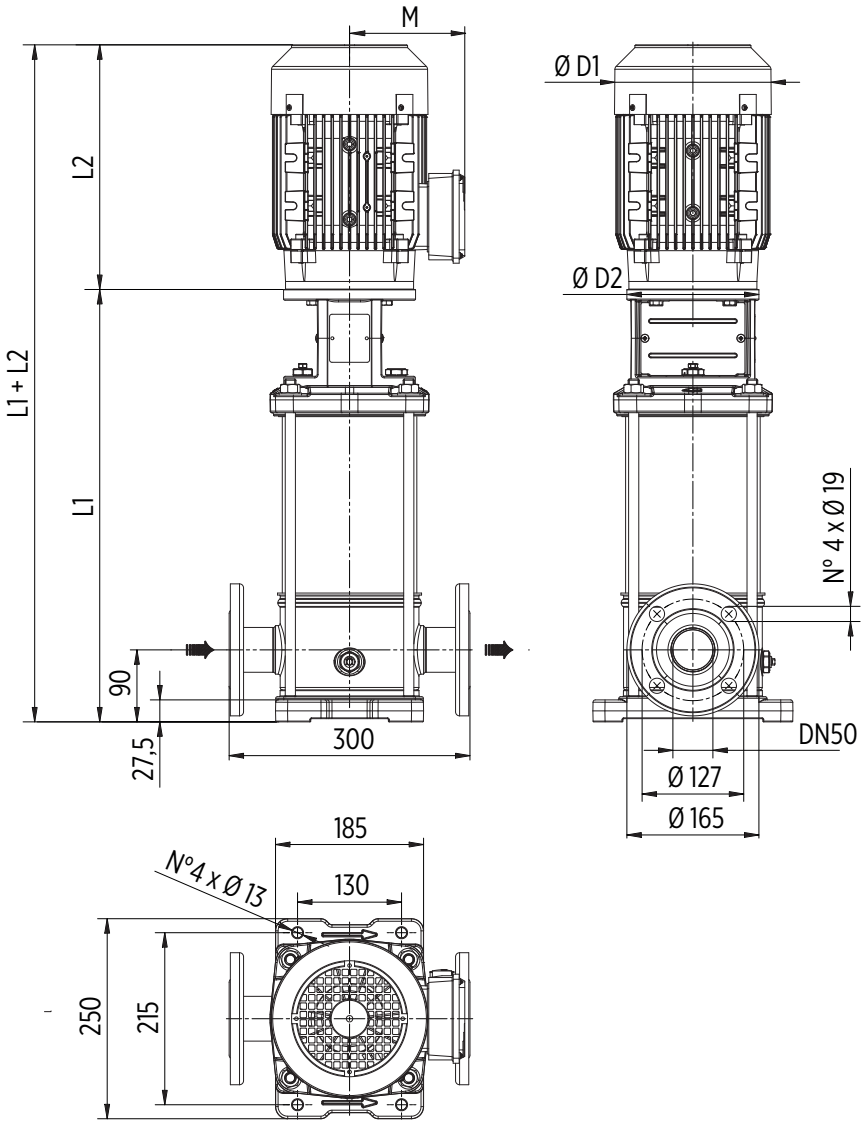


The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B

22 HX

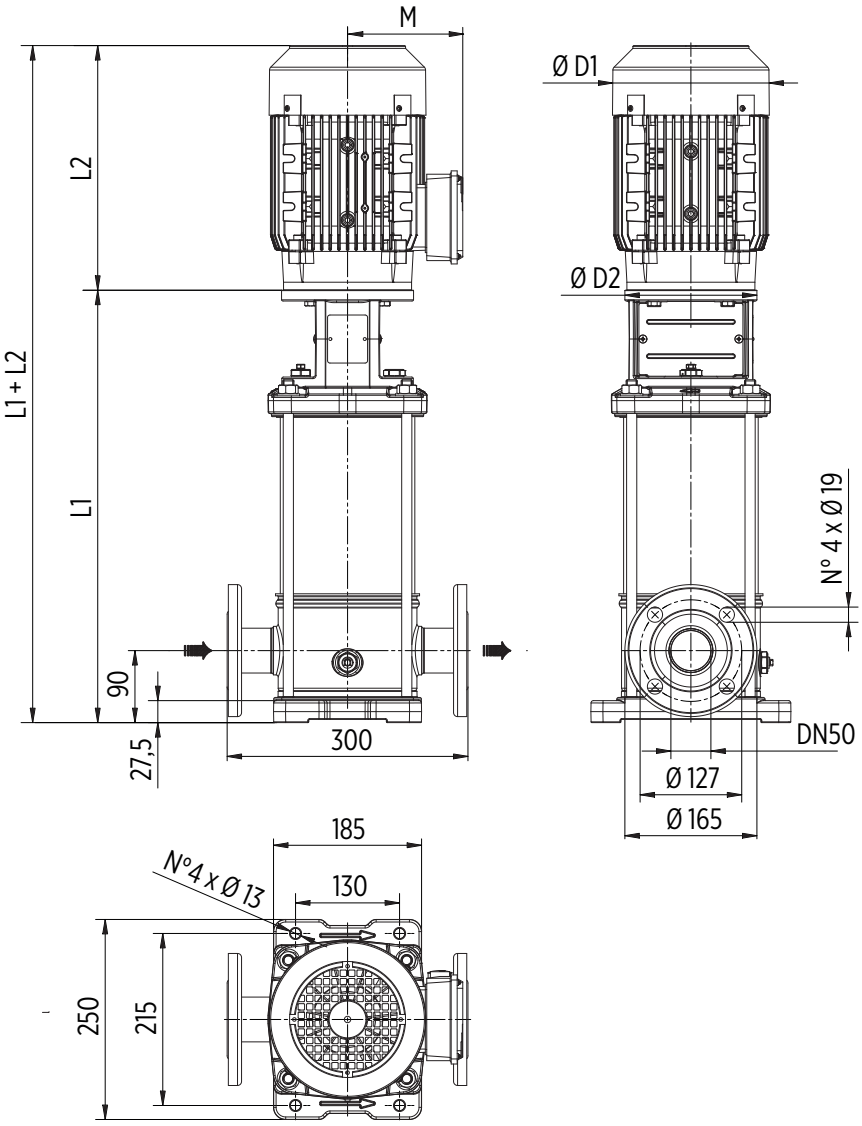


The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 18HX-100/1T	0,75	80	396	243	130	157	170	639	19	17	36
P 18HX-200/2T	1,5	90	396	280	145	177	170	676	20	23	43
P 18HX-300/3T	2,2	90	444	308	145	177	170	752	21,5	26	47,5
P 18HX-400/4T	3	100	492	333	157	205	170	825	22,5	35	57,5
P 18HX-550/5T	4	112	540	350	177	220	170	890	24	43	67
P 18HX-750/6T	5,5	132	800	400	197	256	300	1200	45,5	66	111,5
P 18HX-750/7T	5,5	132	848	400	197	256	300	1248	46,5	66	112,5
P 18HX-1000/8T	7,5	132	896	400	197	256	300	1296	48	73	121
P 18HX-1000/9T	7,5	132	944	400	197	256	300	1344	49,5	73	122,5
P 18HX-1500/10T	11	160	1012	503	255	315	350	1515	54	120	174
P 18HX-1500/11T	11	160	1060	503	255	315	350	1563	55,5	120	175,5
P 18HX-1500/12T	11	160	1108	503	255	315	350	1611	57	120	177
P 18HX-1500/13T	11	160	1156	503	255	315	350	1659	58,5	120	178,5
P 18HX-1500/14T	11	160	1204	503	255	315	350	1707	60	120	180
P 18HX-2000/15T	15	160	1252	503	255	315	350	1755	61	132	193
P 18HX-2000/16T	15	160	1300	503	255	315	350	1803	62,5	132	194,5
P 18HX-2000/17T	15	160	1348	503	255	315	350	1851	64	132	196



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 22HX-200/1T	1,1	80	396	243	130	157	170	639	19	18	37
P 22HX-300/2T	2,2	90	396	308	145	177	170	704	20	26	46
P 22HX-400/3T	3	100	444	333	157	205	170	777	21,5	35	56,5
P 22HX-550/4T	4	112	492	350	177	220	170	842	22,5	43	65,5
P 22HX-750/5T	5,5	132	752	400	197	256	300	1152	44	66	110
P 22HX-1000/6T	7,5	132	800	400	197	256	300	1200	45,5	73	118,5
P 22HX-1000/7T	7,5	132	848	400	197	256	300	1248	46,5	73	119,5
P 22HX-1500/8T	11	160	916	503	255	315	350	1419	51,5	120	171,5
P 22HX-1500/9T	11	160	964	503	255	315	350	1467	53	120	173
P 22HX-1500/10T	11	160	1012	503	255	315	350	1515	54,5	120	174,5
P 22HX-2000/11T	15	160	1060	503	255	315	350	1563	55,5	132	187,5
P 22HX-2000/12T	15	160	1108	503	255	315	350	1611	57	132	189
P 22HX-2000/13T	15	160	1156	503	255	315	350	1659	58,5	132	190,5
P 22HX-2000/14T	15	160	1204	503	255	315	350	1707	60	132	192
P 22HX-2500/15T	18,5	160	1252	598	252	315	350	1850	61,5	150	211,5
P 22HX-2500/16T	18,5	160	1300	598	252	315	350	1898	62,5	150	212,5
P 22HX-2500/17T	18,5	160	1348	598	252	315	350	1946	64	150	214

PLUS HS/HX

Stainless steel multistage vertical pumps. Suitable for clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	HS: cast iron GJL-250 HX: EN 1.4401 / AISI 316
Motor bracket	cast iron
Seal plate housing	HS: EN 1.4301 / AISI 304 HX: EN 1.4401 / AISI 316
Impellers, diffusers, shell	HS: EN 1.4301 / AISI 304 HX: EN 1.4401 / AISI 316
Pump shaft	HS: EN 1.4057 / AISI 431 HX: EN 1.4460 / AISI 329
Mechanical seal	silicon carbide-graphite-EPDM
Intermediate bush	tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	-15 ÷ +120 °C (Max 85° for domestic use)
Max operating pressure	32 bar (P 35-50) 25 bar (P 75-90)
Pump body gasket	EPDM

Motor	
2 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW, size B14 V1 3~ 400/690V - 50Hz P > 4kW, size B5 V1 IE3 efficiency class
Insulation class	F
Protection degree	IP55





PLUS HS

PLUS HX

P 35 H S - 750 / 3 T -2

- pump type
- nominal flow-rate m³/h
- vertical axis, in-line ports, coupling
- **S** AISI 304 impellers and diffusers, cast iron pump body
- **X** AISI 316 impellers, diffusers and pump body
- nominal power HP×100
- No. of impellers
- motor **T** 3~
- mech. seal and O-rings
  - SiC-Graphite-EPDM
  - **V** SiC-Graphite-FKM
  - **2E** SiC-SiC-EPDM
  - **2V** SiC-SiC-FKM

More details of the mechanical seals are included on page 201

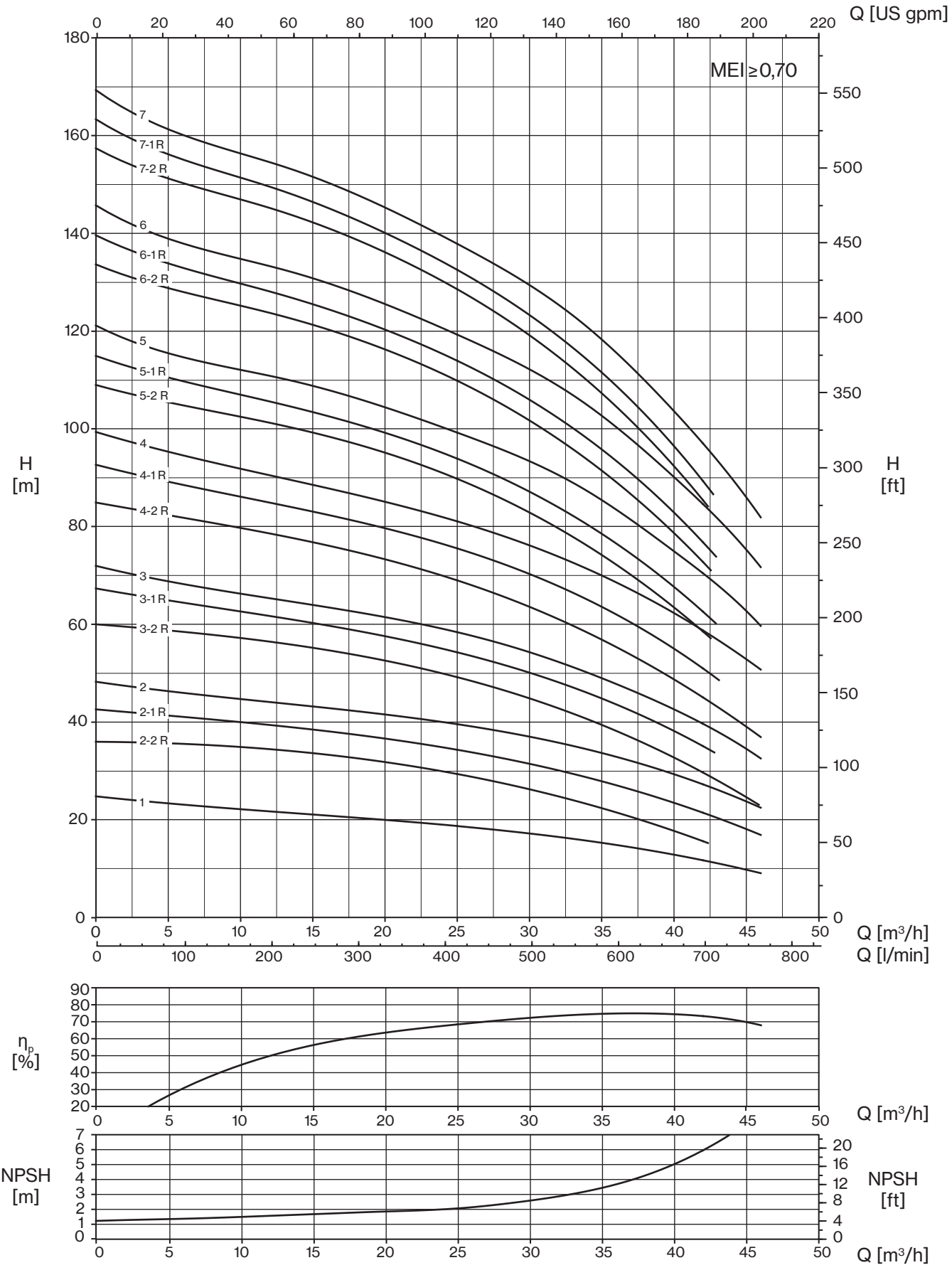
PLUS 35-50

TYPE - 50 Hz	P2		Q (l/min - m³/h - US gpm)									
			0	417	500	566,7	666,7	700	800	900	1000	1066,7
3~			0	25	30	34	40	42	48	54	60	64
			0	109,9	131,9	149,5	175,9	184,7	211,0	237,4	263,8	281,4
	HP	kW	H (m)									
P 35...-300/1T	3	2,2	24,8	18,6	17,2	15,8	12,7	11,6				
P 35...-550/2-2RT	5,5	4	36,2	29,3	26,3	23,1	17,8	15,7				
P 35...-550/2-1RT	5,5	4	42,8	34,3	31,6	28,8	23,4	21,3				
P 35...-750/2T	7,5	5,5	48,5	39,6	36,9	34,4	29,1	27,2				
P 35...-750/3-2RT	7,5	5,5	60,3	49,0	44,9	40,6	32,7	29,6				
P 35...-1000/3-1RT	10	7,5	67,5	54,1	50,1	46,1	38,0	35,0				
P 35...-1000/3T	10	7,5	72,2	58,2	54,2	50,3	42,4	39,5				
P 35...-1000/4-2RT	10	7,5	85,1	68,6	63,9	58,4	48,8	44,7				
P 35...-1500/4-1RT	15	11	92,8	75,3	70,2	65,2	54,8	50,8				
P 35...-1500/4T	15	11	99,4	81,0	76,3	71,8	62,2	58,5				
P 35...-1500/5-2RT	15	11	109,2	89,5	82,9	76,2	63,5	58,5				
P 35...-1500/5-1RT	15	11	115,1	93,6	87,0	80,6	67,5	62,4				
P 35...-2000/5T	20	15	121,1	99,3	93,1	87,4	74,9	70,0				
P 35...-2000/6-2RT	20	15	133,8	109,6	101,7	93,9	78,7	72,7				
P 35...-2000/6-1RT	20	15	139,7	113,7	105,8	98,3	82,7	76,6				
P 35...-2000/6T	20	15	145,6	119,3	111,9	105,0	90,1	84,2				
P 35...-2000/7-2RT	20	15	157,5	128,3	119,1	110,1	92,3	85,3				
P 35...-2000/7-1RT	20	15	163,3	132,3	123,2	114,4	96,2	89,1				
P 35...-2500/7T	25	18,5	169,2	137,9	129,1	121,0	103,5	96,6				
P 35...-2500/8-2RT	25	18,5	185,5	152,0	142,0	132,5	112,8	105,1				
P 35...-2500/8-1RT	25	18,5	191,9	156,4	146,6	137,4	117,4	109,6				
P 35...-2500/8T	25	18,5	198,4	162,5	153,0	144,6	125,4	117,8				
P 35...-3000/9-2RT	30	22	209,8	171,4	160,2	149,5	127,4	118,7				
P 35...-3000/9-1RT	30	22	216,2	175,8	164,7	154,4	131,9	123,1				
P 35...-3000/9T	30	22	222,7	181,8	171,1	161,5	139,8	131,3				
P 35...-3000/10-2RT	30	22	234,0	190,6	178,1	166,3	141,7	132,1				
P 35...-3000/10-1RT	30	22	240,3	194,9	182,6	171,1	146,1	136,4				
P 35...-4000/10T	40	30	246,8	200,9	188,9	178,2	154,0	144,5				
P 35...-4000/11-2RT	40	30	262,9	218,3	205,1	192,7	166,3	155,8				
P 35...-4000/11-1RT	40	30	269,5	222,9	209,9	197,8	171,2	160,5				
P 35...-4000/11T	40	30	276,2	229,2	216,5	205,3	179,4	169,1				
P 35...-4000/12-2RT	40	30	288,1	240,0	226,0	213,0	184,4	173,3				
P 35...-4000/12-1RT	40	30	294,7	244,8	230,9	218,4	189,7	178,6				
P 35...-4000/12T	40	30	301,4	251,1	237,8	226,0	197,6	188,0				
P 35...-4000/13-2RT	40	30	313,0	260,4	245,3	231,3	200,3	188,3				
P 35...-4000/13-1RT	40	30	319,6	265,2	250,2	236,6	205,6	193,6				
P 35...-4000/13T	40	30	326,3	271,5	257,0	244,2	213,5	202,9				
P 50...-400/1-1RT	4	3	19,6			16,0	14,6	14,0	12,1	9,7	7,0	4,9
P 50...-550/1T	5,5	4	25,1			20,4	19,0	18,5	16,8	14,8	12,5	10,4
P 50...-750/2-2RT	7,5	5,5	38,4			33,9	31,5	30,5	27,4	23,7	19,3	16,0
P 50...-1000/2T	10	7,5	49,0			42,0	39,8	38,8	35,5	31,8	27,5	24,1
P 50...-1500/3-2RT	15	11	63,0			55,9	52,7	51,4	46,8	41,5	35,1	30,3
P 50...-1500/3T	15	11	74,2			65,0	62,1	60,9	56,5	51,3	45,5	41,0
P 50...-2000/4-2RT	20	15	87,5			77,4	73,3	71,6	65,5	58,4	50,1	43,8
P 50...-2000/4T	20	15	97,5			86,4	82,8	81,3	75,4	68,5	60,8	54,7
P 50...-2500/5-2RT	25	18,5	112,1			99,9	95,0	92,9	85,5	76,7	66,6	58,8
P 50...-2500/5T	25	18,5	122,3			109,1	104,7	102,9	95,6	87,1	77,5	70,0
P 50...-3000/6-2RT	30	22	136,0			120,7	114,9	112,4	103,4	92,9	80,8	71,5
P 50...-3000/6T	30	22	146,0			129,8	124,5	122,2	113,3	103,0	91,6	82,5
P 50...-4000/7-2RT	40	30	162,6			146,4	140,1	137,3	127,2	115,2	101,3	90,8
P 50...-4000/7T	40	30	173,0			155,9	150,1	147,7	137,7	126,0	112,7	102,5
P 50...-4000/8-2RT	40	30	187,2			168,3	161,1	158,0	146,4	132,7	116,8	104,8
P 50...-4000/8T	40	30	197,5			177,7	171,1	168,2	156,8	143,4	128,2	116,5
P 50...-5000/9-2RT	50	37	211,7			190,2	182,2	178,7	165,7	150,3	132,6	119,1
P 50...-5000/9T	50	37	222,0			199,7	192,2	188,9	176,1	161,0	143,9	130,7
P 50...-5000/10-2RT	50	37	236,1			211,9	203,0	199,1	184,6	167,5	147,9	132,9
P 50...-5000/10T	50	37	246,4			221,3	212,9	209,3	195,0	178,1	159,1	144,4
P 50...-6000/11-2RT	60	45	261,5			235,3	225,7	221,5	205,7	187,0	165,5	149,1
P 50...-6000/11T	60	45	271,8			244,8	235,7	231,8	216,2	197,7	176,9	160,9
P 50...-6000/12-2RT	60	45	286,0			257,2	246,7	242,1	224,8	204,5	181,0	163,2
P 50...-6000/12T	60	45	296,3			266,6	256,7	252,4	235,3	215,2	192,4	174,9

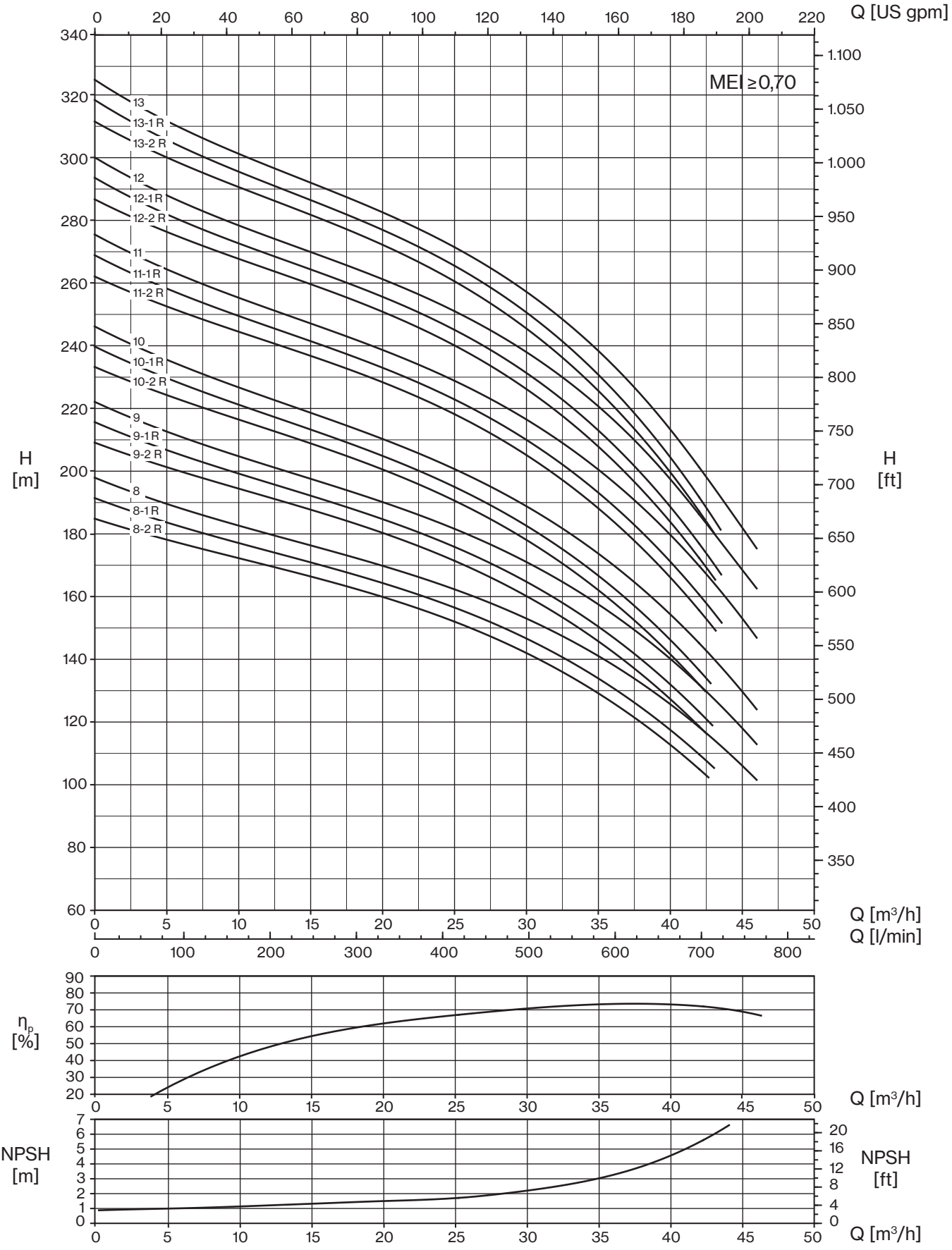
TYPE - 50 Hz	P2		Q (l/min - m³/h - US gpm)								
3~			0	500	666,7	750	833,3	1000	1166,7	1333,3	1466,7
			0	30	40	45	50	60	70	80	88
			0	131,9	175,9	197,9	219,8	263,8	307,8	351,7	386,9
	HP	kW	H (m)								
P 75...-550/1-1RT	5,5	4	21,3	18,2	17,0	16,3	15,5	13,3	10,3	6,8	3,7
P 75...-750/1T	7,5	5,5	30,2	24,8	23,0	22,3	21,7	20,3	18,3	15,4	12,2
P 75...-1000/2-2RT	10	7,5	38,9	37,2	35,8	34,8	33,8	30,5	25,8	20,3	14,6
P 75...-1500/2-1RT	15	11	47,8	44,3	42,6	41,6	40,6	38,0	34,2	29,3	24,0
P 75...-1500/2T	15	11	59,3	51,2	48,0	46,8	45,5	43,2	39,9	35,3	30,8
P 75...-2000/3-2RT	20	15	67,3	63,0	60,6	59,1	57,6	53,4	47,2	39,5	31,4
P 75...-2000/3-1RT	20	15	75,5	69,2	66,3	64,8	63,2	59,5	54,1	46,9	38,7
P 75...-2500/3T	25	18,5	89,6	77,6	72,8	70,9	69,0	65,7	60,7	53,9	47,2
P 75...-2500/4-2RT	25	18,5	95,5	88,6	85,1	83,2	81,1	76,0	68,3	58,5	47,9
P 75...-3000/4-1RT	30	22	103,7	94,7	90,9	88,8	86,7	82,1	75,2	65,9	55,3
P 75...-3000/4T	30	22	111,8	100,8	96,7	94,5	92,4	88,4	82,3	73,3	62,9
P 75...-4000/5-2RT	40	30	125,3	116,2	111,8	109,5	107,0	101,1	92,1	80,4	68,0
P 75...-4000/5-1RT	40	30	133,9	122,7	117,9	115,5	113,0	107,6	99,5	88,4	76,2
P 75...-4000/5T	40	30	142,4	129,2	124,0	121,5	119,0	114,1	106,9	96,3	84,6
P 75...-4000/6-2RT	40	30	153,5	141,6	136,2	133,3	130,3	123,4	112,9	99,0	84,1
P 75...-5000/6-1RT	50	37	162,1	148,2	142,4	139,4	136,4	130,0	120,4	107,1	92,5
P 75...-5000/6T	50	37	170,6	154,7	148,5	145,4	142,3	136,5	127,8	115,0	100,9
P 75...-5000/7-2RT	50	37	181,7	167,0	160,6	157,2	153,6	145,7	133,7	117,7	100,3
P 75...-5000/7-1RT	50	37	190,1	173,5	166,6	163,1	159,5	152,1	141,0	125,5	108,3
P 75...-6000/7T	60	45	199,5	181,1	173,8	170,3	166,7	160,0	149,9	135,1	118,9
P 75...-6000/8-2RT	60	45	210,6	193,5	186,0	182,2	178,1	169,3	156,0	137,9	118,4
P 75...-6000/8-1RT	60	45	219,2	200,0	192,1	188,2	184,1	175,8	163,4	145,9	126,6
P 75...-6000/8T	60	45	227,7	206,5	198,2	194,1	190,1	182,3	170,7	153,8	135,1

TYPE - 50 Hz	P2		Q (l/min - m³/h - US gpm)								
3~			0	750	833,3	1000	1166,7	1333,3	1466,7	1666,7	1833,3	1916,7
			0	45	50	60	70	80	88	100	110	115
			0	197,9	219,8	263,8	307,8	351,7	386,9	439,7	483,6	505,6
	HP	kW	H (m)									
P 90...-750/1-1RT	7,5	5,5	26,4	20,5	19,9	18,7	17,3	15,5	13,2	9,5	5,7	3,5
P 90...-1000/1T	10	7,5	35,6	27,0	25,6	23,2	21,9	20,4	18,8	15,7	12,4	10,5
P 90...-1500/2-2RT	15	11	49,6	42,4	41,3	39,0	36,6	33,2	29,4	22,7	15,7	11,7
P 90...-2000/2T	20	15	69,2	56,6	54,5	50,5	47,3	44,3	41,6	36,3	30,5	27,3
P 90...-2500/3-2RT	25	18,5	80,4	70,8	69,1	65,6	62,2	57,7	53,0	44,3	34,9	30,4
P 90...-3000/3T	30	22	92,4	82,6	80,6	76,7	73,2	69,4	65,5	57,8	49,7	45,2
P 90...-4000/4-2RT	40	30	113,1	100,6	98,2	93,5	89,0	83,5	77,5	66,5	54,6	48,5
P 90...-4000/4T	40	30	125,6	113,0	110,4	105,2	100,6	95,7	90,7	80,8	70,2	64,4
P 90...-5000/5-2RT	50	37	144,1	128,4	125,4	119,3	113,7	106,9	99,7	86,1	71,6	64,1
P 90...-5000/5T	50	37	156,6	140,7	137,4	130,9	125,2	119,1	112,8	100,3	87,1	79,8
P 90...-6000/6-2RT	60	45	175,9	157,0	153,4	146,1	139,3	131,4	122,9	107,0	89,8	80,8
P 90...-6000/6T	60	45	188,4	169,5	165,6	157,8	150,9	143,6	136,2	121,3	105,5	96,7

35 HS/HX

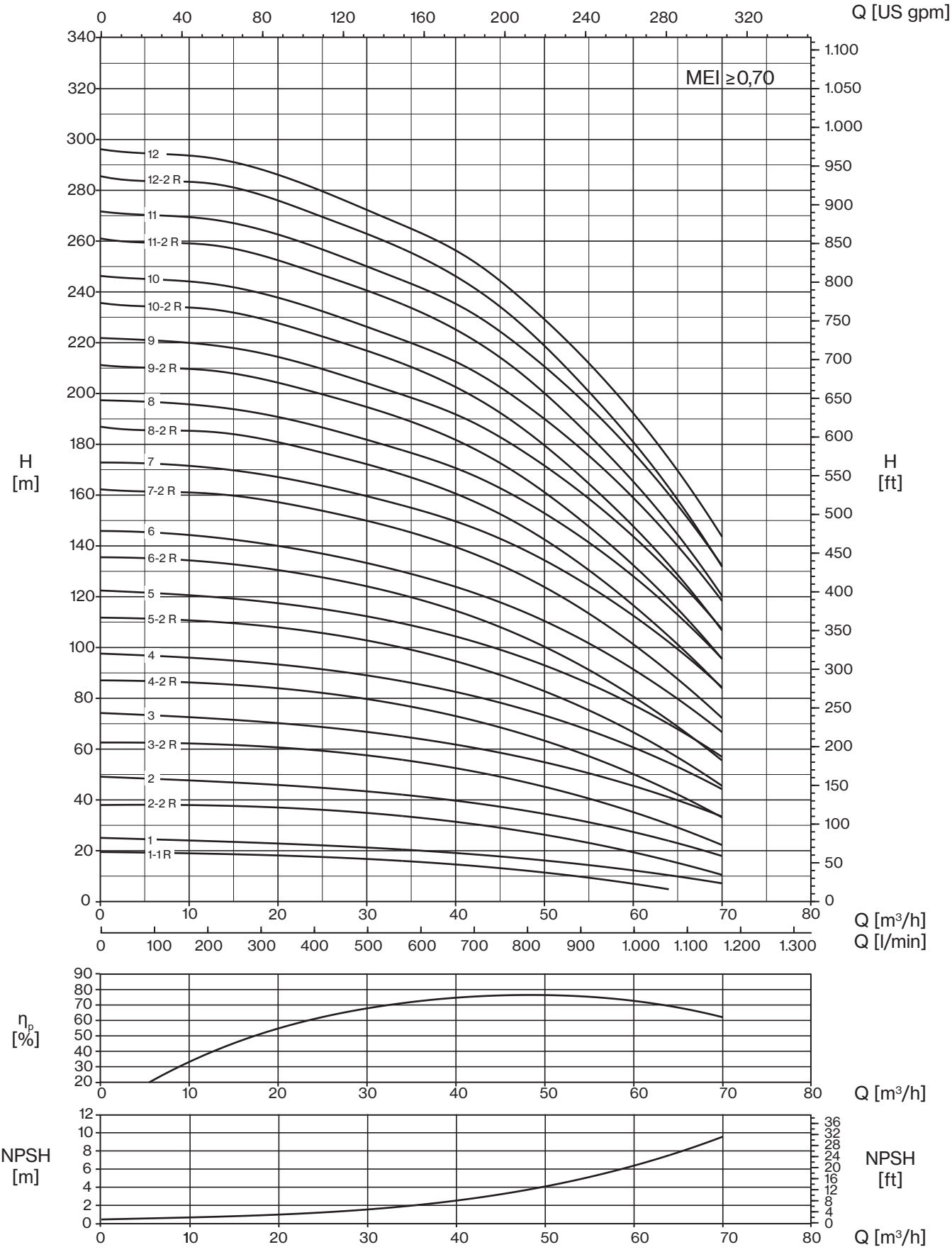


The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B

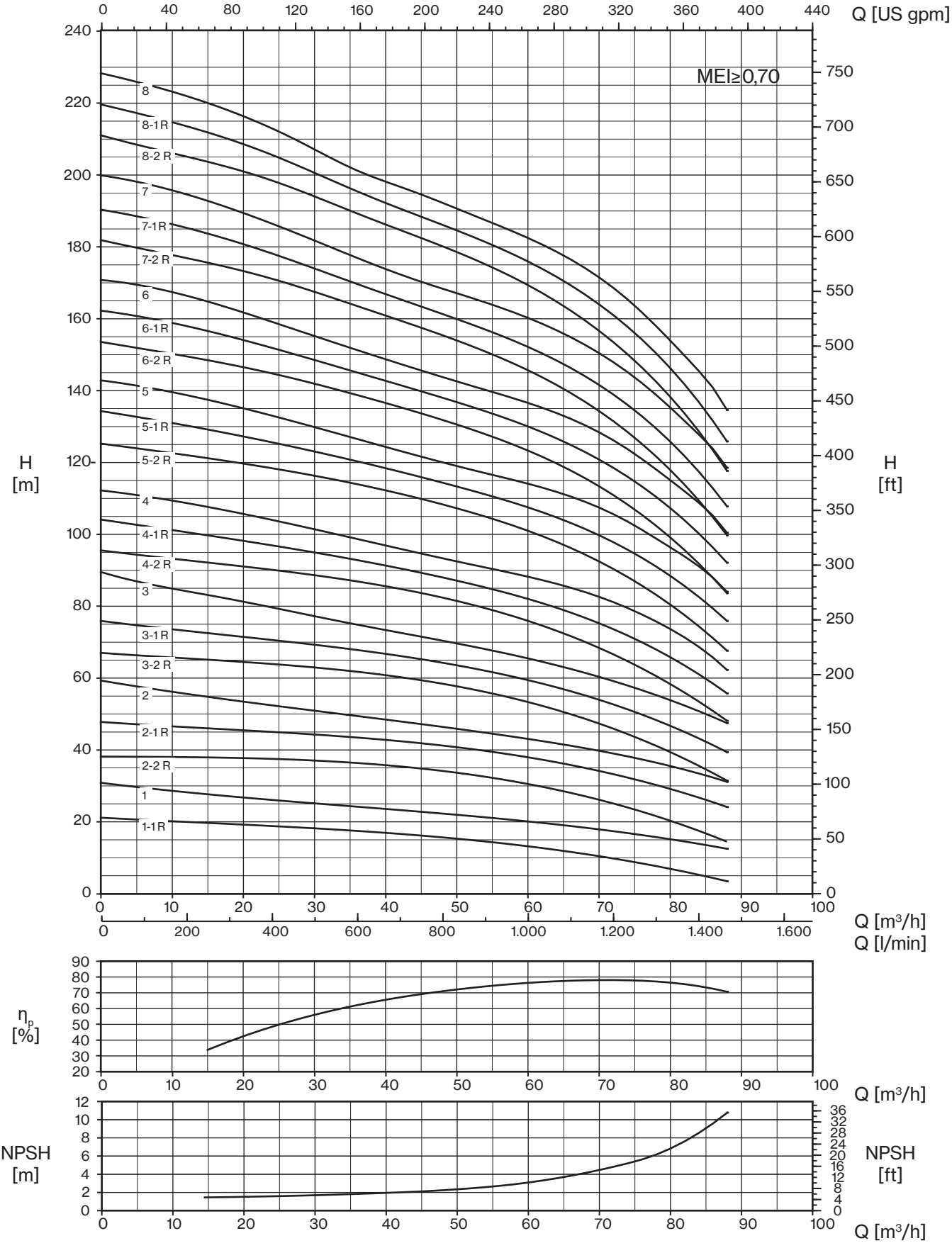


The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B

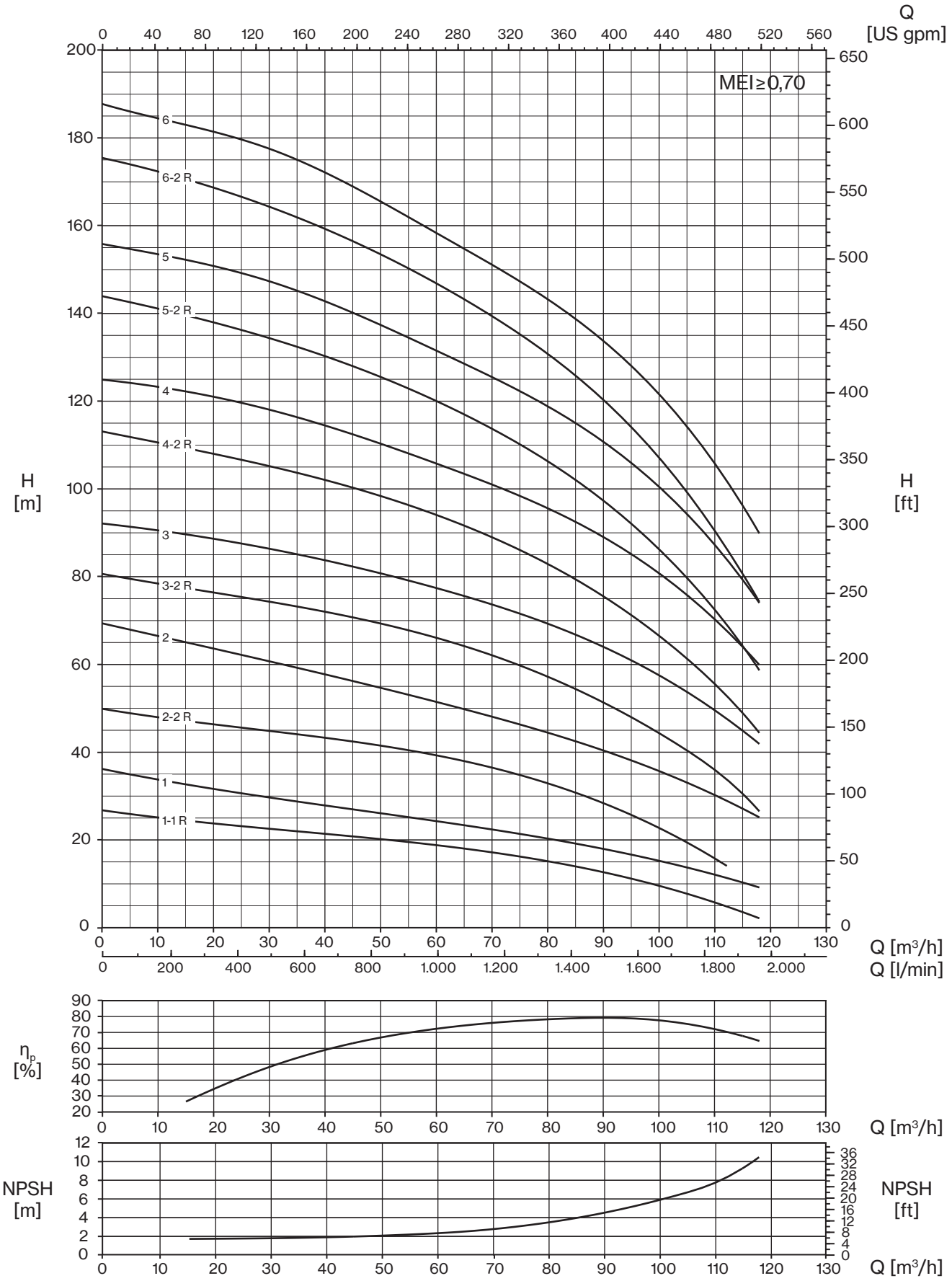
50 HS/HX



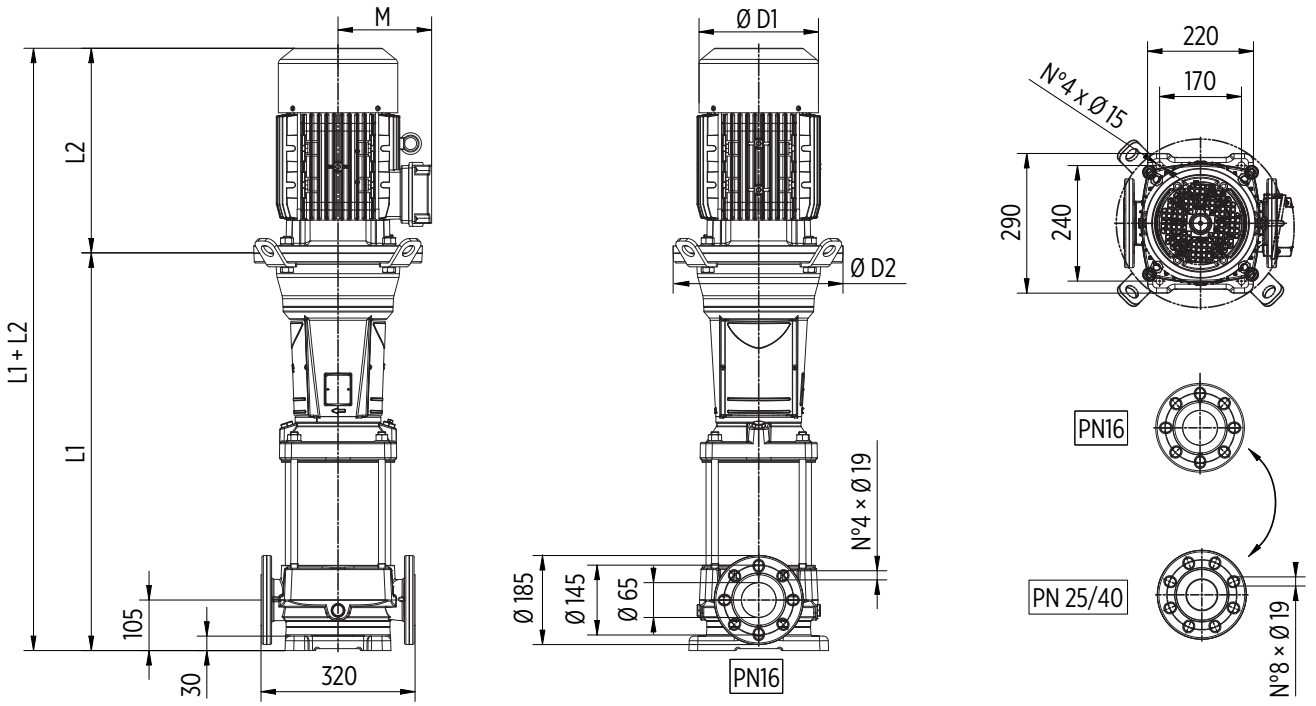
The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B


Q [US gpm]
MEI≥0,70
8
8-1 R
8-2 R
7
7-1 R
7-2 R
6
6-1 R
6-2 R
5
5-1 R
5-2 R
4
4-1 R
4-2 R
3
3-1 R
3-2 R
2
2-1 R
2-2 R
1
1-1 R
H [m]
H [ft]
Q [m³/h]
Q [l/min]
ηp [%]
Q [m³/h]
NPSH [m]
NPSH [ft]
Q [m³/h]

90 HS/HX



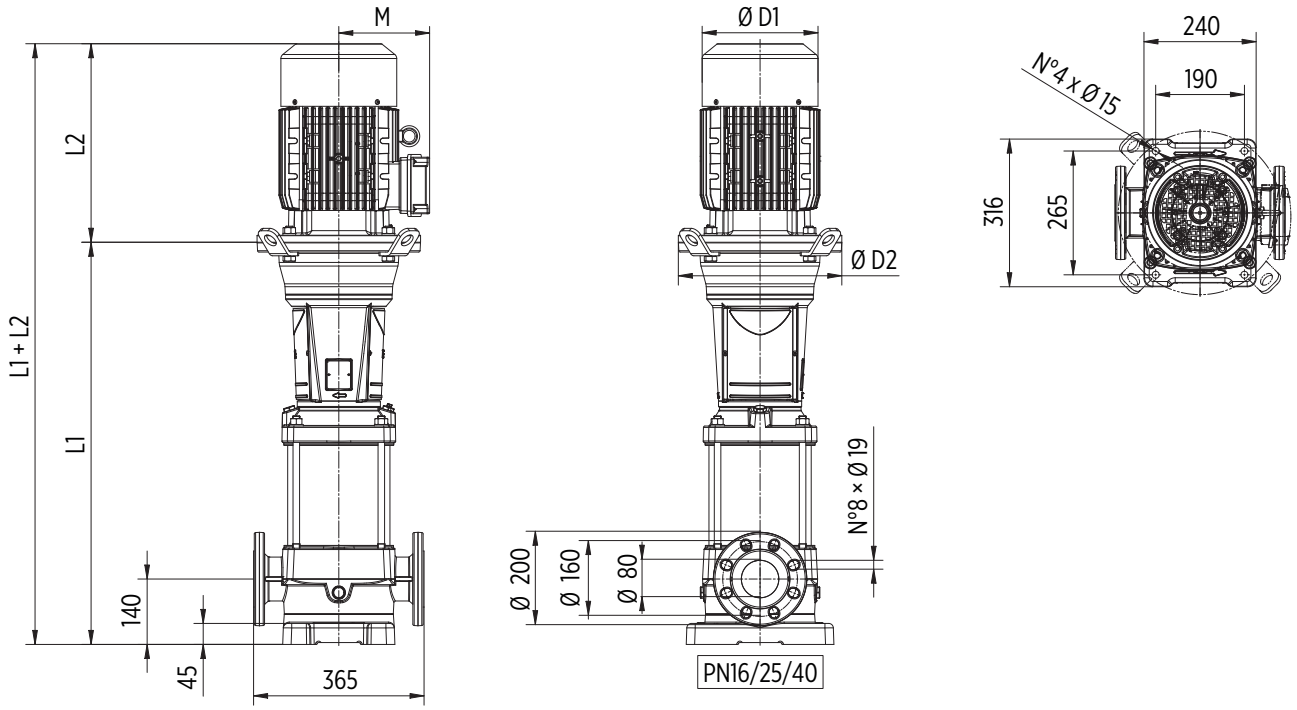
The hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

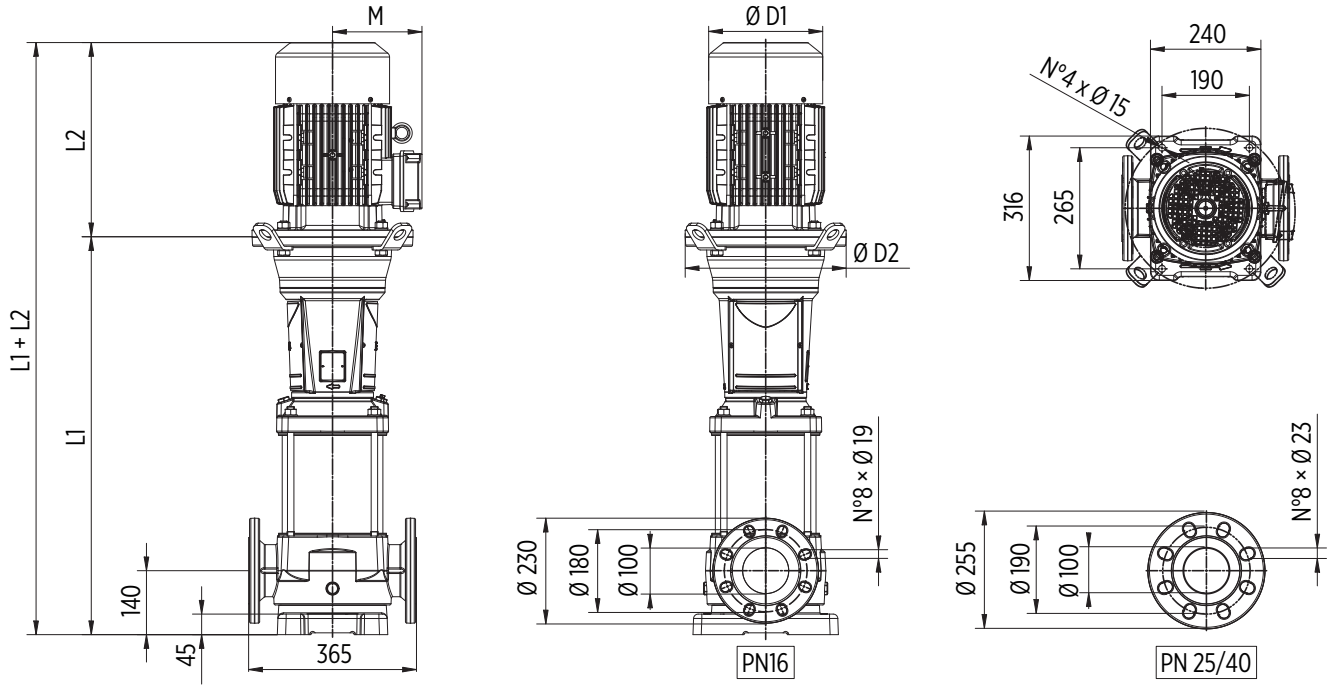
TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 35...-300/1T	2,2	90	431	308	145	177	170	739	48,5	26	74,5
P 35...-550/2-2RT	4	112	513	350	177	220	170	863	52	43	95
P 35...-550/2-1RT	4	112	513	350	177	220	170	863	52	43	95
P 35...-750/2T	5,5	132	724	400	197	256	300	1124	72,5	66	138,5
P 35...-750/3-2RT	5,5	132	806	400	197	256	300	1206	76,5	66	142,5
P 35...-1000/3-1RT	7,5	132	806	400	197	256	300	1206	76,5	73	149,5
P 35...-1000/3T	7,5	132	806	400	197	256	300	1206	76,5	73	149,5
P 35...-1000/4-2RT	7,5	132	888	400	197	256	300	1288	80,5	73	153,5
P 35...-1500/4-1RT	11	160	908	503	255	315	350	1411	84	120	204
P 35...-1500/4T	11	160	908	503	255	315	350	1411	84	120	204
P 35...-1500/5-2RT	11	160	991	503	255	315	350	1494	88	120	208
P 35...-1500/5-1RT	11	160	991	503	255	315	350	1494	88	120	208
P 35...-2000/5T	15	160	991	503	255	315	350	1494	88	132	220
P 35...-2000/6-2RT	15	160	1073	503	255	315	350	1576	92	132	224
P 35...-2000/6-1RT	15	160	1073	503	255	315	350	1576	92	132	224
P 35...-2000/6T	15	160	1073	503	255	315	350	1576	92	132	224
P 35...-2000/7-2RT	15	160	1155	503	255	315	350	1658	96	132	228
P 35...-2000/7-1RT	15	160	1155	503	255	315	350	1658	96	132	228
P 35...-2500/7T	18,5	160	1155	598	252	315	350	1753	96	150	246
P 35...-2500/8-2RT	18,5	160	1237	598	252	315	350	1835	100	150	250
P 35...-2500/8-1RT	18,5	160	1237	598	252	315	350	1835	100	150	250
P 35...-2500/8T	18,5	160	1237	598	252	315	350	1835	100	150	250
P 35...-3000/9-2RT	22	180	1319	620	270	360	350	1939	103,5	205	308,5
P 35...-3000/9-1RT	22	180	1319	620	270	360	350	1939	103,5	205	308,5
P 35...-3000/9T	22	180	1319	620	270	360	350	1939	103,5	205	308,5
P 35...-3000/10-2RT	22	180	1401	620	270	360	350	2021	107,5	205	312,5
P 35...-3000/10-1RT	22	180	1401	620	270	360	350	2021	107,5	205	312,5
P 35...-4000/10T	30	200	1406	661	303	400	400	2067	111	250	361
P 35...-4000/11-2RT	30	200	1488	661	303	400	400	2149	115	250	365
P 35...-4000/11-1RT	30	200	1488	661	303	400	400	2149	115	250	365
P 35...-4000/11T	30	200	1488	661	303	400	400	2149	115	250	365
P 35...-4000/12-2RT	30	200	1570	661	303	400	400	2231	119	250	369
P 35...-4000/12-1RT	30	200	1570	661	303	400	400	2231	119	250	369
P 35...-4000/12T	30	200	1570	661	303	400	400	2231	119	250	369
P 35...-4000/13-2RT	30	200	1652	661	303	400	400	2313	122,5	250	372,5
P 35...-4000/13-1RT	30	200	1652	661	303	400	400	2313	122,5	250	372,5
P 35...-4000/13T	30	200	1652	661	303	400	400	2313	122,5	250	372,5

50 HS/HX



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

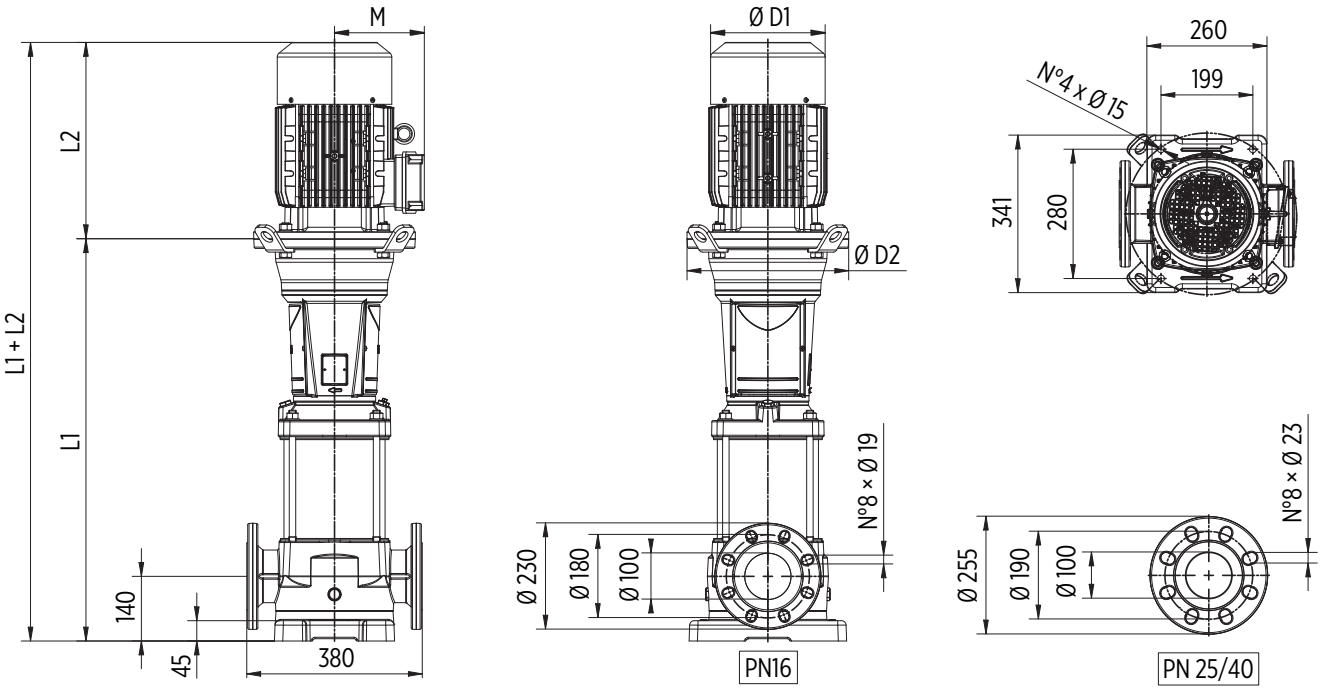
TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 50...-400/1-1RT	3	100	466	333	157	205	170	799	54	35	89
P 50...-550/1T	4	112	466	350	177	220	170	816	54	43	97
P 50...-750/2-2RT	5,5	132	759	400	197	256	300	1159	78,5	66	144,5
P 50...-1000/2T	7,5	132	759	400	197	256	300	1159	78,5	73	151,5
P 50...-1500/3-2RT	11	160	861	503	255	315	350	1364	85,5	120	205,5
P 50...-1500/3T	11	160	861	503	255	315	350	1364	85,5	120	205,5
P 50...-2000/4-2RT	15	160	943	503	255	315	350	1446	89,5	132	221,5
P 50...-2000/4T	15	160	943	503	255	315	350	1446	89,5	132	221,5
P 50...-2500/5-2RT	18,5	160	1026	598	252	315	350	1624	93,5	150	243,5
P 50...-2500/5T	18,5	160	1026	598	252	315	350	1624	93,5	150	243,5
P 50...-3000/6-2RT	22	180	1108	620	270	360	350	1728	97,5	205	302,5
P 50...-3000/6T	22	180	1108	620	270	360	350	1728	97,5	205	302,5
P 50...-4000/7-2RT	30	200	1195	661	303	400	400	1856	104,5	250	354,5
P 50...-4000/7T	30	200	1195	661	303	400	400	1856	104,5	250	354,5
P 50...-4000/8-2RT	30	200	1277	661	303	400	400	1938	108,5	250	358,5
P 50...-4000/8T	30	200	1277	661	303	400	400	1938	108,5	250	358,5
P 50...-5000/9-2RT	37	200	1359	661	303	400	400	2020	112,5	270	382,5
P 50...-5000/9T	37	200	1359	661	303	400	400	2020	112,5	270	382,5
P 50...-5000/10-2RT	37	200	1441	661	303	400	400	2102	116,5	270	386,5
P 50...-5000/10T	37	200	1441	661	303	400	400	2102	116,5	270	386,5
P 50...-6000/11-2RT	45	225	1523	710	312	450	450	2233	122,5	315	437,5
P 50...-6000/11T	45	225	1523	710	312	450	450	2233	122,5	315	437,5
P 50...-6000/12-2RT	45	225	1605	710	312	450	450	2315	126,5	315	441,5
P 50...-6000/12T	45	225	1605	710	312	450	450	2315	126,5	315	441,5



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 75...-550/1-1RT	4	112	526	350	177	220	170	876	60	43	103
P 75...-750/1T	5,5	132	737	400	197	256	300	1137	80,5	66	146,5
P 75...-1000/2-2RT	7,5	132	829	400	197	256	300	1229	85	73	158
P 75...-1500/2-1RT	11	160	849	503	255	315	350	1352	88,5	120	208,5
P 75...-1500/2T	11	160	849	503	255	315	350	1352	88,5	120	208,5
P 75...-2000/3-2RT	15	160	941	503	255	315	350	1444	93	132	225
P 75...-2000/3-1RT	15	160	941	503	255	315	350	1444	93	132	225
P 75...-2500/3T	18,5	160	941	598	252	315	350	1539	93	150	243
P 75...-2500/4-2RT	18,5	160	1033	598	252	315	350	1631	97,5	150	247,5
P 75...-3000/4-1RT	22	180	1033	620	270	360	350	1653	97	205	302
P 75...-3000/4T	22	180	1033	620	270	360	350	1653	97	205	302
P 75...-4000/5-2RT	30	200	1131	661	303	400	400	1792	105	250	355
P 75...-4000/5-1RT	30	200	1131	661	303	400	400	1792	105	250	355
P 75...-4000/5T	30	200	1131	661	303	400	400	1792	105	250	355
P 75...-4000/6-2RT	30	200	1223	661	303	400	400	1884	109,5	250	359,5
P 75...-5000/6-1RT	37	200	1223	661	303	400	400	1884	109,5	270	379,5
P 75...-5000/6T	37	200	1223	661	303	400	400	1884	109,5	270	379,5
P 75...-5000/7-2RT	37	200	1315	661	303	400	400	1976	113,5	270	383,5
P 75...-5000/7-1RT	37	200	1315	661	303	400	400	1976	113,5	270	383,5
P 75...-6000/7T	45	225	1315	710	312	450	450	2025	116	315	431
P 75...-6000/8-2RT	45	225	1407	710	312	450	450	2117	120,5	315	435,5
P 75...-6000/8-1RT	45	225	1407	710	312	450	450	2117	120,5	315	435,5
P 75...-6000/8T	45	225	1407	710	312	450	450	2117	120,5	315	435,5

90 HS/HX



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
P 90...-750/1-1RT	5,5	132	737	400	197	256	300	1137	82	66	148
P 90...-1000/1T	7,5	132	737	400	197	256	300	1137	82	73	155
P 90...-1500/2-2RT	11	160	849	503	255	315	350	1352	89	120	209
P 90...-2000/2T	15	160	849	503	255	315	350	1352	89	132	221
P 90...-2500/3-2RT	18,5	160	941	598	252	315	350	1539	93	150	243
P 90...-3000/3T	22	180	941	620	270	360	350	1561	92,5	205	297,5
P 90...-4000/4-2RT	30	200	1038	661	303	400	400	1699	99,5	250	349,5
P 90...-4000/4T	30	200	1038	661	303	400	400	1699	99,5	250	349,5
P 90...-5000/5-2RT	37	200	1131	661	303	400	400	1792	103	270	373
P 90...-5000/5T	37	200	1131	661	303	400	400	1792	103	270	373
P 90...-6000/6-2RT	45	225	1223	710	312	450	450	1933	109	315	424
P 90...-6000/6T	45	225	1223	710	312	450	450	1933	109	315	424

PLUS HS-HX Serie-Mechanical seal and bearings

CARTRIDGE MECHANICAL SEAL	PUMP MODEL	SHAFT		STANDARD MATERIAL	OPTIONAL		
					V	2	2V
	P18-100/1T, P18-200/2T, P18-300/3T, P18-400/4T, P18-550/5T, P18-750/6T, P18-750/7T, P18-1000/8T, P18-1000/9T, P18-1500/10T, P18-1500/11T, P18-1500/12T, P18-1500/13T, P18-1500/14T, P18-2000/15T, P18-2000/16T, P18-2000/17T, P22-150/1T, P22-300/2T, P22-400/3T, P22-550/4T, P22-750/5T, P22-1000/6T, P22-1000/7T, P22-1500/8T, P22-1500/9T, P22-1500/10T, P22-2000/11T, P22-2000/12T, P22-2000/13T	16mm	***Rotating face*** ***Stationary face*** ***Elastomer***	SiC Graphite EPDM	SiC Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	P35-300/1T, P35-550/2-2RT, P35-550/2-1RT, P35-750/2T, P35-750/3-2RT, P35-1000/3-1RT, P35-1000/3T, P35-1000/4-2RT, P35-1500/4-1RT, P35-1500/4T, P35-1500/5-2RT, P35-1500/5-1RT, P35-2000/5T, P35-2000/6-2RT, P35-2000/6-1RT, P35-2000/6T, P35-2000/7-2RT, P35-2000/7-1RT, P35-2500/7T, P35-2500/8-2RT, P35-2500/8-1RT, P35-2500/8T, P35-3000/9-2RT, P35-3000/9-1RT, P35-3000/9T, P35-3000/10-2RT, P35-3000/10-1RT, P35-4000/10T, P35-4000/11-2RT, P35-4000/11-1RT, P35-4000/11T, P35-4000/12-2RT, P35-4000/12-1RT, P35-4000/12T, P35-4000/13-2RT, P35-4000/13-1RT, P35-4000/13T, P50-400/1-1RT, P50-550/1T, P50-750/2-2RT, P50-1000/2T, P50-1500/3-2RT, P50-1500/3T, P50-2000/4-2RT, P50-2000/4T, P50-2500/5-2RT, P50-2500/5T, P50-3000/6-2RT, P50-3000/6T, P50-4000/7-2RT, P50-4000/7T, P50-4000/8-2RT, P50-4000/8T, P50-5000/9-2RT, P50-5000/9T, P50-5000/10-2RT, P50-5000/10T, P50-6000/11-2RT, P50-6000/11T, P50-6000/12-2RT, P50-6000/12T, P75-550/1-1RT, P75-750/1T, P75-1000/2-2RT, P75-1500/2-1RT, P75-1500/2T, P75-2000/3-2RT, P75-2000/3-1RT, P75-2500/3T, P75-2500/4-2RT, P75-3000/4-1RT, P75-3000/4T, P75-4000/5-2RT, P75-4000/5-1RT, P75-4000/5T, P75-4000/6-2RT, P75-5000/6-1RT, P75-5000/6T, P75-5000/7-2RT, P75-5000/7-1RT, P75-6000/7T, P75-6000/8-2RT, P75-6000/8-1RT, P75-6000/8T, P90-750/1-1RT, P90-1000/1T, P90-1500/2-2RT, P90-2000/2T, P90-2500/3-2RT, P90-3000/3T, P90-4000/4-2RT, P90-4000/4T, P90-5000/5-2RT, P90-5000/5T, P90-6000/6-2RT, P90-6000/6T	22mm / Balanced seal	***Rotating face*** ***Stationary face*** ***Elastomer***	SiC Graphite EPDM	SiC Graphite FKM	SiC SiC EPDM	SiC SiC FKM

BEARINGS	PUMP MODEL	PUMP THRUST BEARING		MOTOR BEARING	
	P18-100/1T, P22-150/1T	-	-	6204-ZZ C3	6204-ZZ C3
	P18-200/2T, P18-300/3T, P22-300/2T, P35-300/1T	-	-	6205-ZZ C3	6205-ZZ C3
	P18-400/4T, P18-550/5T, P22-400/3T, P22-550/4T, P35-550/2-2RT, P35-550/2-1RT, P50-400/1-1RT, P50-550/1T, P75-550/1-1RT	-	-	6206-ZZ C3	6206-ZZ C3
	P18-750/6T, P18-750/7T, P18-1000/8T, P18-1000/9T, P22-750/5T, P22-1000/6T, P22-1000/7T, P35-750/2T, P35-750/3-2RT, P35-1000/3-1RT, P35-1000/3T, P35-1000/4-2RT, P50-750/2-2RT, P50-1000/2T, P75-750/1T, P75-1000/2-2RT, P90-750/1-1RT, P90-1000/1T	6212 2Z	-	6208-ZZ C3	6208-ZZ C3
	P18-1500/10T, P18-1500/11T, P18-1500/12T, P18-1500/13T, P18-1500/14T, P18-2000/15T, P18-2000/16T, P18-2000/17T, P22-1500/8T, P22-1500/9T, P22-1500/10T, P22-2000/11T, P22-2000/12T, P22-2000/13T, P22-2000/14T, P22-2500/15T, P22-2500/16T, P22-2500/17T, P35-1500/4-1RT, P35-1500/4T, P35-1500/5-2RT, P35-1500/5-1RT, P50-1500/3-2RT, P50-1500/3T, P75-1500/2-1RT, P75-1500/2T, P90-1500/2-2RT			6309-ZZ C3	6309-ZZ C3
	P35-2000/5T, P35-2000/6-2RT, P35-2000/6-1RT, P35-2000/6T, P35-2000/7-2RT, P35-2000/7-1RT, P35-2500/7T, P35-2500/8-2RT, P35-2500/8-1RT, P35-2500/8T, P50-2000/4-2RT, P50-2000/4T, P50-2500/5-2RT, P50-2500/5T, P75-2000/3-2RT, P75-2000/3-1RT, P75-2500/3T, P75-2500/4-2RT, P90-2000/2T, P90-2500/3-2RT	6212 2Z	7212 BEP		
	P35-3000/9-2RT, P35-3000/9-1RT, P35-3000/9T, P35-3000/10-2RT, P35-3000/10-1RT, P50-3000/6-2RT, P50-3000/6T, P75-3000/4-1RT, P75-3000/4T, P90-3000/3T			6311-ZZ C3	6311-ZZ C3
	P35-4000/10T, P35-4000/11-2RT, P35-4000/11-1RT, P35-4000/11T, P35-4000/12-2RT, P35-4000/12-1RT, P35-4000/12T, P35-4000/13-2RT, P35-4000/13-1RT, P35-4000/13T, P50-4000/7-2RT, P50-4000/7T, P50-4000/8-2RT, P50-4000/8T, P50-5000/9-2RT, P50-5000/9T, P50-5000/10-2RT, P50-5000/10T, P75-4000/5-2RT, P75-4000/5-1RT, P75-4000/5T, P75-4000/6-2RT, P75-5000/6-1RT, P75-5000/6T, P75-5000/7-2RT, P75-5000/7-1RT, P90-4000/4-2RT, P90-4000/4T, P90-5000/5-2RT, P90-5000/5T	6214 2Z	7214 BEP	6312-ZZ C3	6312-ZZ C3
	P50-6000/11-2RT, P50-6000/11T, P50-6000/12-2RT, P50-6000/12T, P75-6000/7T, P75-6000/8-2RT, P75-6000/8-1RT, P75-6000/8T, P90-6000/6-2RT, P90-6000/6T			6313-ZZ C3	6313-ZZ C3

PLUS V/L/H + VSD

Vertical booster pump with variable speed drive

PLUS V



EPIC / EPIC-A IPFC

PLUS L



EPIC / EPIC-A IPFC

PLUS H



EPIC / EPIC-A IPFC

DESCRIPTION
Vertical pump of PLUS series provided with variable speed drive EPIC, EPIC-A or IPFC. This booster pump assures a desired pressure regardless of changes on flow demand making it suitable for low or missing pressure in residential systems and industrial applications. It is required the installation of a membrane tank downstream the system.

FEATURES
- EPIC, EPIC-A or IPFC variable speed drive
- Three-phase vertical pump of PLUS series
- Pressure sensor wired to the vsd
- Cable with plug for EPIC vsd only

FUNCTIONING
If the pressure in the network drops the pump will starts and gradually speeds up to provide with the set pressure. When the water demand decreases, the pressure will rise causing the pump speed to slow down and eventually to stop the pump if demand ceases. The pump will remain on standby waiting to start at the next water demand.

SELECTION
The next table shows the vertical PLUS pump models available for the assembly with EPIC, EPIC-A or IPFC. For pumps longer than 1.4m, IPFC is not assembled onto the motor fan cover but is supplied with a wall-mounting kit
Consult the catalog at the PLUS series for pump specifics and characteristic curves.

P3SL /A 100/5 T -304 3×400-50

- power supply
- VSD model (only for EPIC-A and IPFC)
- VSD type
  - /E EPIC
  - /A EPIC-A
  - /I IPFC

3~ PUMP								VSD TYPE			
TYPE		VERSION						Power supply			
		V	SV	L	SL/SLX	LG	SLG/ SLGX	1~230V		3~400V	
P 3	100/5T	■	■	■	■	-	-	EPIC	IPFC 109	EPIC-A 304	IPFC 306
	120/6T	■	■	■	■	-	-				
	150/7T	■	■	■	■	-	-				
	180/8T	■	■	■	■	-	-				
	200/9T	■	■	■	■	-	-				
	250/10T	■	■	■	■	-	-		IPFC 114	EPIC-A 306	
	280/11T	■	■	■	■	-	-				
	300/12T	■	■	■	■	-	-	-			
	350/14T	-	-	-	-	-	■			EPIC-A 309	IPFC 309
	380/16T	-	-	-	-	-	■		-		
	400/18T	-	-	-	-	-	■			-	
	450/20T	-	-	-	-	-	■				
P 5	120/4T	■	■	■	■	-	-	EPIC	IPFC 109	EPIC-A 304	IPFC 306
	150/5T	■	■	■	■	-	-				
	180/6T	■	■	■	■	-	-				
	200/7T	■	■	■	■	-	-				
	250/8T	■	■	■	■	-	-		IPFC 114	EPIC-A 306	
	280/9T	■	■	■	■	-	-				
	300/10T	■	■	■	■	-	-	-			
	350/11T	■	■	■	■	-	-				
	380/12T	■	■	■	■	-	-		-	EPIC-A 309	IPFC 309
	400/14T	-	-	-	-	-	■				
	450/16T	-	-	-	-	-	■			-	IPFC 311
	550/18T	-	-	-	-	-	■				
	600/20T	-	-	-	-	-	■				
P 7	180/4T	■	■	■	■	-	-	EPIC	IPFC 109	EPIC-A 304	IPFC 306
	250/5T	■	■	■	■	-	-		IPFC 114	EPIC-A 306	
	300/6T	■	■	■	■	-	-	-			
	350/7T	■	■	■	■	-	-				
	400/8T	■	■	■	■	-	-		-	EPIC-A 309	IPFC 309
	450/9T	■	■	■	■	-	-				
	550/10T	■	■	■	■	-	-			-	IPFC 314
	750/12T	-	-	-	-	-	■				
	800/14T	-	-	-	-	-	■				
	900/16T	-	-	-	-	-	■				
	950/18T	-	-	-	-	-	■				
	1000/20T	-	-	-	-	-	■				IPFC 318
P 9	200/4T	■	■	■	■	-	-	EPIC	IPFC 109	EPIC-A 304	IPFC 306
	250/5T	■	■	■	■	-	-	-	IPFC 114	EPIC-A 306	
	300/6T	■	■	■	■	-	-				
	400/7T	■	■	■	■	-	-		-	EPIC-A 309	IPFC 309
	450/8T	■	■	■	■	-	-				
	500/9T	■	■	■	■	-	-				
	550/10T	■ -	- ■	■ -	- ■	-	-			-	IPFC 311
	750/12T	-	-	-	-	-	■				IPFC 314
	800/14T	-	-	-	-	-	■				
	900/16T	-	-	-	-	-	■				IPFC 318
	950/18T	-	-	-	-	-	■				
	1000/20T	-	-	-	-	-	■				

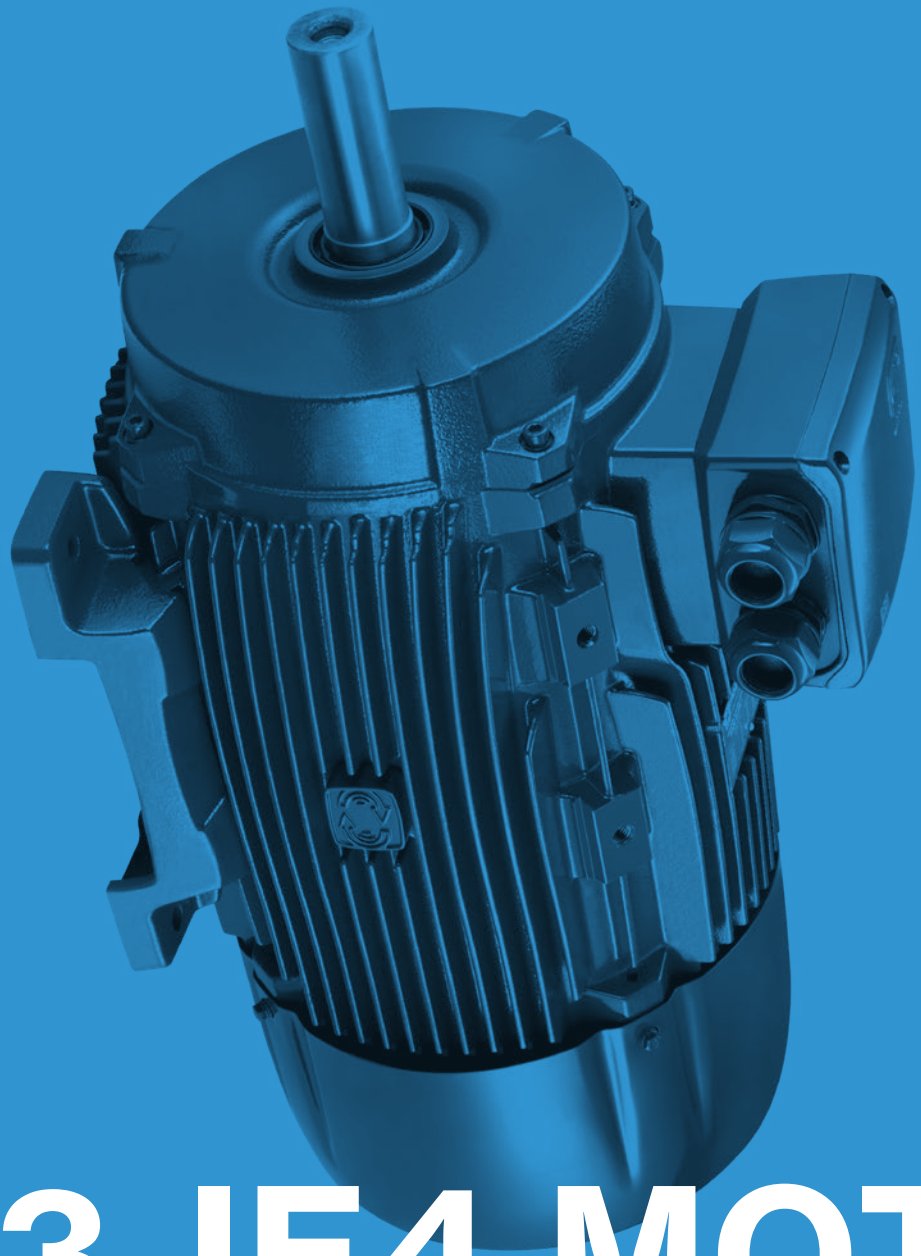
PLUS+VSD

3~ PUMP									VSD TYPE		
TYPE		VERSION							Power supply		
		V	SV	L	SL/SLX	LG	HS	HX	1~230V	3~400V	
P 18	100/1T	-	-	-	-	-	-	■	IPFC 109	-	IPFC 306
	200/2T	-	-	-	-	-	-	■			
	300/3T	-	-	-	-	-	-	■	IPFC 114		
	250/3T	■	■	■	■	-	-	-		EPIC-A 306	
	400/4T	- ■	- ■	- ■	- ■	-	-	■ -		-	
	450/5T	■	■	■	■	-	-	-	-	EPIC-A 309	IPFC 309
	550/5T	-	-	-	-	-	-	■		-	
	550/6T	■	■	■	■	-	-	-			IPFC 311
	750/6T	-	-	-	-	-	-	■			
	750/7T	-	-	-	-	-	-	■			
	750/8T	■	■	■	■	-	-	-			IPFC 314
	1000/8T	-	-	-	-	-	-	■			
	1000/9T	-	-	-	-	-	-	■			
	900/9T	■	■	■	■	-	-	-			IPFC 318
	920/10T	-	-	-	-	■	-	-			
	1000/11T	-	-	-	-	■	-	-			
	1500/10T	-	-	-	-	-	-	■			
	1500/11T	-	-	-	-	-	-	■			
	1500/12T	-	-	-	-	-	-	■			IPFC 325
	1500/13T	-	-	-	-	-	-	■			
	1500/14T	-	-	-	-	-	-	■			
	2000/15T	-	-	-	-	-	-	■			
	2000/16T	-	-	-	-	-	-	■			
	2000/17T	-	-	-	-	-	-	■			IPFC 330
P 22	200/1T	-	-	-	-	-	-	■	IPFC 109	-	IPFC 306
	300/2T	-	-	-	-	-	-	■	IPFC 114		
	400/3T	-	-	-	-	-	-	■			
	550/4T	-	-	-	-	-	-	■	-		IPFC 309
	750/5T	-	-	-	-	-	-	■			IPFC 311
	1000/6T	-	-	-	-	-	-	■			IPFC 314
	1000/7T	-	-	-	-	-	-	■			IPFC 318
	1500/8T	-	-	-	-	-	-	■			
	1500/9T	-	-	-	-	-	-	■			
	1500/10T	-	-	-	-	-	-	■			IPFC 325
	2000/11T	-	-	-	-	-	-	■			
	2000/12T	-	-	-	-	-	-	■			
	2000/13T	-	-	-	-	-	-	■			IPFC 330
	2000/14T	-	-	-	-	-	-	■			

3~ PUMP									VSD TYPE	
TYPE		VERSION							Power supply	
		V	SV	L	SL/SLX	LG	HS	HX	1~230V	3~400V
P 35	300/1T	-	-	-	-	-	■	■	IPFC 114	IPFC 306
	550/2-2RT	-	-	-	-	-	■	■	-	IPFC 309
	550/2-1RT	-	-	-	-	-	■	■		
	750/2T	-	-	-	-	-	■	■		IPFC 311
	750/3-2RT	-	-	-	-	-	■	■		
	1000/3-1RT	-	-	-	-	-	■	■		IPFC 314
	1000/3T	-	-	-	-	-	■	■		
	1000/4-2RT	-	-	-	-	-	■	■		IPFC 318
	1500/4-1RT	-	-	-	-	-	■	■		
	1500/4T	-	-	-	-	-	■	■		IPFC 325
	1500/5-2RT	-	-	-	-	-	■	■		
	1500/5-1RT	-	-	-	-	-	■	■		
	2000/5T	-	-	-	-	-	■	■		
	2000/6-2RT	-	-	-	-	-	■	■		
	2000/6-1RT	-	-	-	-	-	■	■		IPFC 330
	2000/6T	-	-	-	-	-	■	■		
	2000/7-2RT	-	-	-	-	-	■	■		
	2000/7-1RT	-	-	-	-	-	■	■		
P 50	400/1-1RT	-	-	-	-	-	■	■	IPFC 114	IPFC 306
	550/1T	-	-	-	-	-	■	■	-	IPFC 309
	750/2-2RT	-	-	-	-	-	■	■		IPFC 311
	1000/2T	-	-	-	-	-	■	■		IPFC 318
	1500/3-2RT	-	-	-	-	-	■	■		
	1500/3T	-	-	-	-	-	■	■		IPFC 325
	2000/4-2RT	-	-	-	-	-	■	■		
	2000/4T	-	-	-	-	-	■	■		IPFC 330
	2500/5-2RT	-	-	-	-	-	■	■		
	2500/5T	-	-	-	-	-	■	■		-
	3000/6-2RT	-	-	-	-	-	■	■		
	3000/6T	-	-	-	-	-	■	■		
	4000/7-2RT	-	-	-	-	-	■	■		
P 75	550/1-1RT	-	-	-	-	-	■	■	-	IPFC 309
	750/1T	-	-	-	-	-	■	■		IPFC 311
	1000/2-2RT	-	-	-	-	-	■	■		IPFC 318
	1500/2-1RT	-	-	-	-	-	■	■		
	1500/2T	-	-	-	-	-	■	■		IPFC 325
	2000/3-2RT	-	-	-	-	-	■	■		
	2000/3-1RT	-	-	-	-	-	■	■		IPFC 330
	2500/3T	-	-	-	-	-	■	■		
	2500/4-2RT	-	-	-	-	-	■	■		-
	3000/4-1RT	-	-	-	-	-	■	■		
	3000/4T	-	-	-	-	-	■	■		
	4000/5-2RT	-	-	-	-	-	■	■		
P 90	750/1-1RT	-	-	-	-	-	■	■	-	IPFC 311
	1000/1T	-	-	-	-	-	■	■		IPFC 318
	1500/2-2RT	-	-	-	-	-	■	■		IPFC 325
	2000/2T	-	-	-	-	-	■	■		IPFC 330

Foras®

WATER PUMPS



IE3-IE4 MOTORS

80-132 (0,75 kW-7,5 kW)



Construction features	
Frame	aluminum alloy
Multiple voltage/ Multi-frequency	50/60 Hz
Duty service	S1 continuous
Winding	tropicalized suitable for inverter power supply
ATEX (dust and gas)	version available: II 3G Ex nA IIB T4 Gc II 3D Ex tc IIIB T125°C Dc

Motor	
Motor	closed and externally ventilated
Insulation class	F (on request H)
Protection degree	IPX5 (on request IP56, IP66, IP67)
Efficiency class	IE3-IE4, IEC60034-30-1

VOLTAGES AND FREQUENCIES TOLERANCE

Data at 400V - 50Hz

		V	
SIZE	Hz	△	Y
80-112	50 ±5%	230	400
		220	380
		240	415

160-355 (11 kW-315 kW)



Construction features	
Frame	cast iron
Multiple voltage/ Multi-frequency	50/60 Hz
Duty service	S1 continuous
Winding	tropicalized and reinforced insulation for inverter power supply (P ⩾110kW we recommend to order the motor with insulated bearings option). Windings with PTC (n° 3) thermistor as standard.
ATEX (dust and gas)	version available: II 3G Ex nA IIB T4 Gc II 3D Ex tc IIIB T125°C Dc

Motor	
Motor	closed and externally ventilated
Insulation class	F (on request H)
Protection degree	IPX5 (on request IP56, IP66, IP67)
Efficiency class	IE3-IE4, IEC60034-30-1

VOLTAGES AND FREQUENCIES TOLERANCE

Data at 400V - 50Hz

		V	
SIZE	Hz	△	Y
132-355	50 ±5%	400	690
		380	660
		415	720

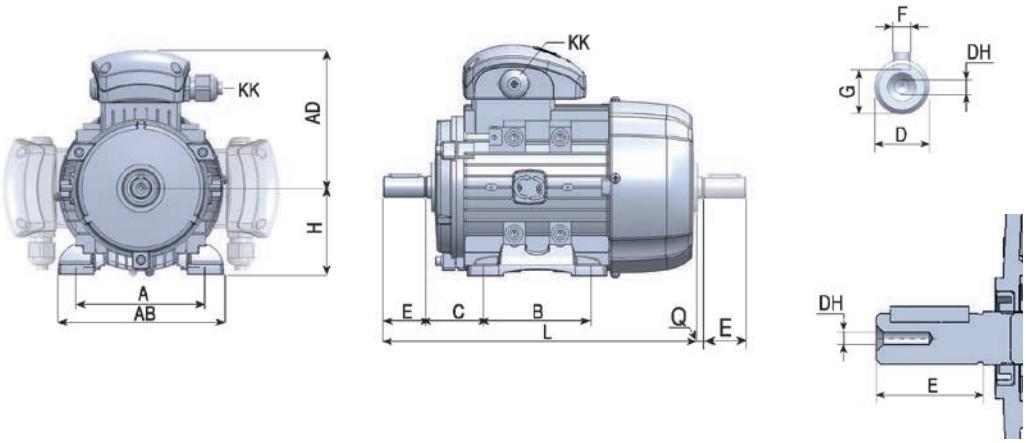
TYPE	kW	HP	rpm	In (A)	Is (A)	Is In	Cn (Nm)	Cs (Nm)	Cs Cn	Cmax (Nm)	Cmax Cn
80A-2	0,75	1	2892	1,74	11,84	6,8	2,48	8,60	3,5	9,18	3,7
80B-2	1,1	1,5	2885	2,26	16,74	7,4	3,64	10,90	3,0	12,74	3,5
90S-2	1,5	2	2902	3,26	25,07	7,7	4,93	19,12	3,9	18,74	3,8
90L-2	2,2	3	2918	5,02	38,59	7,7	7,35	30,97	4,2	30,44	4,1
100L-2	3	4	2903	6,09	48,24	7,9	9,87	35,19	3,6	40,74	4,1
112M-2	4	5,5	2943	7,56	74,38	9,8	12,97	45,92	3,5	61,86	4,8
132SA-2	5,5	7,5	2940	10,14	70,59	7,0	17,87	37,70	2,1	35,79	2,0
132SB-2	7,5	10	2925	13,35	95,00	7,1	24,49	53,50	2,2	78,50	3,2
160MA-2	11	15	2937	19,72	123,05	6,2	35,77	73,32	2,1	100,15	2,8
160MB-2	15	20	2938	26,29	150,23	5,7	48,76	95,08	2,0	121,89	2,5
160L-2	18,5	25	2942	32,15	192,92	6,0	60,05	124,31	2,1	179,00	2,1
180M-2	22	30	2950	37,53	304,03	8,1	71,22	163,81	2,3	220,80	3,1
200LA-2	30	40	2940	51,51	386,34	7,5	97,45	224,13	2,3	223,37	2,3
200LB-2	37	50	2960	63,26	474,46	7,5	119,38	274,56	2,3	275,49	2,3
225M-2	45	60	2960	76,69	582,87	7,6	145,19	333,93	2,3	332,80	2,3
250M-2	55	75	2970	94,39	707,92	7,5	176,85	406,76	2,3	406,76	2,3
280S-2	75	100	2970	125,82	868,14	6,9	241,16	530,56	2,2	554,67	2,3
280M-2	90	125	2970	150,67	1069,73	7,1	289,39	636,67	2,2	665,61	2,3
315S-2	110	150	2970	183,76	1304,72	7,1	353,70	707,41	2,0	778,15	2,2
315MA-2	132	180	2970	220,06	1562,41	7,1	424,44	848,89	2,0	933,78	2,2
315LA-2	160	215	2970	263,53	1871,07	7,1	514,48	1028,96	2,0	1131,85	2,2
315LB-2	200	270	2970	328,73	2333,99	7,1	643,10	1286,20	2,0	1414,81	2,2
355M-2	250	335	2980	410,91	2917,49	7,1	801,17	1602,35	2,0	1762,58	2,2
355L-2	315	423	2980	517,75	3676,03	7,1	1009,48	2018,96	2,0	2220,86	2,2

TYPE	η%				Fatt. pot. cos φ			ΔT (°C)	LwA (dB)	J Kgm2	Kg
	100%	IE	75%	50%	100%	75%	50%				
80A-2	80,9	IE3	79,6	76,4	0,770	0,700	0,566	35	65	0,00158	17
80B-2	84,5	IE3	84,7	82,8	0,830	0,770	0,652	41	65	0,00185	18
90S-2	85,3	IE3	83,4	81,3	0,786	0,726	0,582	43	71	0,00383	23
90L-2	86,2	IE3	87,0	84,9	0,730	0,675	0,498	48	71	0,00726	26
100L-2	87,1	IE3	87,3	84,9	0,812	0,766	0,618	49	75	0,01439	35
112M-2	89,6	IE3	89,8	88,9	0,856	0,805	0,665	44	77	0,01663	43
132SA-2	91,0	IE3	89,7	87,4	0,860	0,840	0,761	48	78	0,03300	66
132SB-2	91,6	IE3	92,4	92,9	0,885	0,850	0,760	60	78	0,03960	73
160MA-2	91,4	IE3	91,2	89,7	0,881	0,864	0,812	49	81	0,04976	120
160MB-2	92,0	IE3	92,6	91,8	0,895	0,877	0,841	61	81	0,06587	132
160L-2	93,0	IE3	93,7	93,0	0,893	0,875	0,827	58	81	0,07260	150
180M-2	94,0	IE3	93,9	93,0	0,900	0,880	0,870	41	83	0,09900	205
200LA-2	93,4	IE3	94,4	90,7	0,900	0,881	0,820	65	84	0,16368	250
200LB-2	93,8	IE3	93,6	90,2	0,900	0,887	0,840	65	84	0,18348	270
225M-2	94,1	IE3	93,9	90,7	0,900	0,878	0,816	65	86	0,30756	315
250M-2	94,5	IE3	92,6	88,5	0,890	0,872	0,825	65	89	0,41184	420
280S-2	95,6	IE4	93,7	89,5	0,900	0,896	0,875	55	91	0,76428	550,8
280M-2	95,8	IE4	95,7	93,7	0,900	0,894	0,857	65	91	0,89100	625
315S-2	96,0	IE4	95,9	93,9	0,900	0,894	0,857	65	92	1,55760	968
315MA-2	96,2	IE4	96,2	94,2	0,900	0,894	0,857	65	92	2,40240	1100
315LA-2	96,3	IE4	96,2	94,2	0,910	0,904	0,867	65	92	2,74560	1160,5
315LB-2	96,5	IE4	96,5	94,5	0,910	0,904	0,867	65	92	3,14160	1221
355M-2	96,5	IE4	96,5	94,5	0,910	0,904	0,867	65	100	3,96000	2090
355L-2	96,5	IE4	96,5	94,5	0,910	0,904	0,867	65	100	4,62000	2530

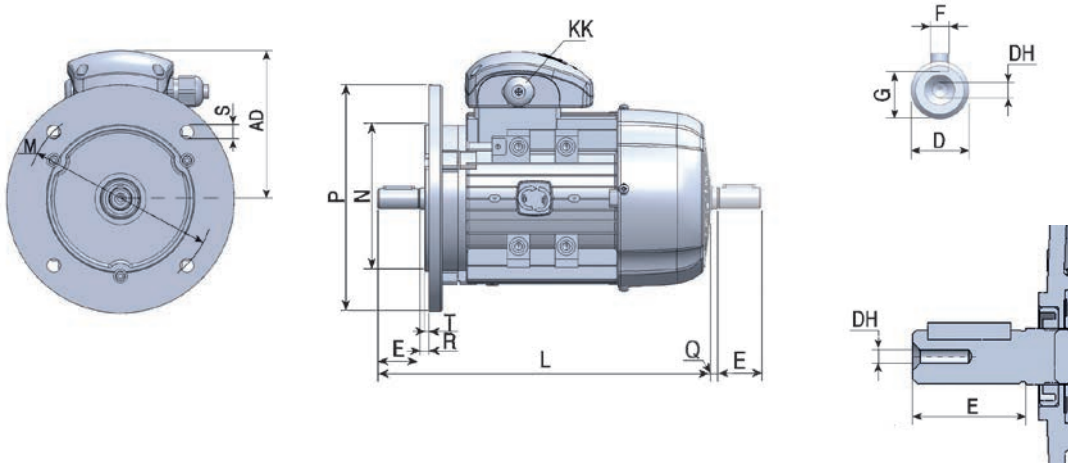
TYPE	kW	HP	rpm	In (A)	Is (A)	Is In	Cn (Nm)	Cs (Nm)	Cs Cn	Cmax (Nm)	Cmax Cn
80B-4	0,75	1	1426	1,87	11,24	6,0	5,01	15,52	3,1	15,41	3,1
90S-4	1,1	1,5	1436	2,61	16,60	6,4	7,36	24,26	3,3	24,70	3,4
90L-4	1,5	2	1427	3,59	24,34	6,8	10,03	41,06	4,1	38,49	3,8
100LA-4	2,2	3	1438	4,77	33,83	7,1	14,74	52,18	3,5	54,71	3,7
100LB-4	3	4	1447	6,48	49,52	7,6	19,76	69,03	3,5	77,85	3,9
112M-4	4	5,5	1460	8,79	62,51	7,1	26,17	83,57	3,2	108,56	4,1
132S-4	5,5	7,5	1454	10,64	68,01	6,4	36,12	75,86	2,1	101,15	2,8
132M-4	7,5	10	1460	14,39	94,37	6,6	49,06	91,80	1,9	132,46	2,7
160M-4	11	15	1468	20,76	121,31	5,8	71,56	121,50	1,7	193,21	2,7
160L-4	15	20	1460	28,19	140,97	5,0	98,12	166,60	1,7	255,10	2,6
180M-4	18,5	25	1477	33,53	206,45	6,2	120,94	202,50	1,7	384,23	3,2
180L-4	22	30	1470	39,62	261,96	6,6	142,93	235,19	1,6	401,22	2,8
200L-4	30	40	1480	53,48	385,07	7,2	193,58	425,88	2,2	445,24	2,3
225S-4	37	50	1480	65,37	490,30	7,5	238,75	525,25	2,2	549,13	2,3
225M-4	45	60	1480	77,39	588,17	7,6	290,37	638,82	2,2	667,85	2,3
250M-4	55	75	1480	93,89	713,58	7,6	354,90	780,78	2,2	816,27	2,3
280S-4	75	100	1480	126,70	874,24	6,9	483,95	1064,70	2,2	1113,09	2,3
280M-4	90	120	1485	153,61	1075,26	7,0	578,79	1273,33	2,2	1331,21	2,3
315S-4	110	150	1480	187,35	1292,74	6,9	709,80	1561,55	2,2	1632,53	2,3
315M-4	132	180	1480	224,59	1549,68	6,9	851,76	1873,86	2,2	1959,04	2,3
315LA-4	160	220	1480	271,67	1874,51	6,9	1032,43	2271,35	2,2	2374,59	2,3
315LB-4	200	270	1480	339,23	2340,72	6,9	1290,54	2839,19	2,2	2968,24	2,3
355M-4	250	335	1490	414,62	2860,88	6,9	1602,35	3525,17	2,2	3685,40	2,3
355L-4	315	423	1490	522,42	3604,71	6,9	2018,96	4441,71	2,2	4643,61	2,3

TYPE	η %				Fatt. pot. cos φ			ΔT (°C)	LwA (dB)	J Kgm2	Kg
	100%	IE	75%	50%	100%	75%	50%				
80B-4	83,1	IE3	82,6	81,6	0,690	0,619	0,531	46	56	0,00277	12
90S-4	84,8	IE3	84,9	79,3	0,723	0,609	0,510	36	61	0,00304	25
90L-4	85,3	IE3	85,1	83,0	0,708	0,592	0,483	41	61	0,00356	30
100LA-4	86,7	IE3	87,8	85,8	0,771	0,663	0,543	41	64	0,00713	36
100LB-4	89,0	IE3	89,4	86,8	0,745	0,648	0,519	46	64	0,00893	40
112M-4	89,1	IE3	89,2	87,2	0,736	0,674	0,505	46	77	0,01663	43
132S-4	89,9	IE3	92,1	92,4	0,830	0,770	0,675	61	71	0,02853	47,5
132M-4	90,5	IE3	90,8	89,9	0,831	0,790	0,699	46	71	0,03946	81
160M-4	91,8	IE3	91,7	90,4	0,833	0,790	0,675	52	73	0,08133	125
160L-4	92,3	IE3	93,1	92,3	0,832	0,780	0,680	61	75	0,12239	150
180M-4	92,6	IE3	92,1	90,2	0,870	0,817	0,724	40	76	0,18531	170,6
180L-4	93,2	IE3	91,7	91,0	0,860	0,832	0,761	59	76	0,21065	189,3
200L-4	93,6	IE3	93,8	92,8	0,865	0,818	0,767	80	79	0,34930	254,8
225S-4	93,9	IE3	92,7	92,0	0,870	0,839	0,776	75	81	0,54128	268,3
225M-4	94,3	IE3	93,3	92,8	0,890	0,872	0,807	80	81	0,62527	353
250M-4	95,0	IE3	94,2	93,5	0,890	0,862	0,800	75	83	0,87991	450
280S-4	96,0	IE4	94,5	92,0	0,890	0,863	0,843	70	86	1,71600	605
280M-4	96,1	IE4	94,4	92,9	0,880	0,872	0,838	65	86	1,96680	700
315S-4	96,3	IE4	94,7	93,2	0,880	0,872	0,838	65	87	4,13160	925
315M-4	96,4	IE4	94,8	93,3	0,880	0,872	0,838	55	87	4,81800	1180
315LA-4	96,6	IE4	95,0	93,5	0,880	0,872	0,838	75	87	5,42784	1160,5
315LB-4	96,7	IE4	95,0	93,4	0,880	0,872	0,838	70	87	6,34920	1240,8
355M-4	96,7	IE4	95,1	93,5	0,900	0,892	0,857	75	94	8,61960	1870
355L-4	96,7	IE4	95,0	93,4	0,900	0,892	0,857	70	94	10,87680	2090

B3

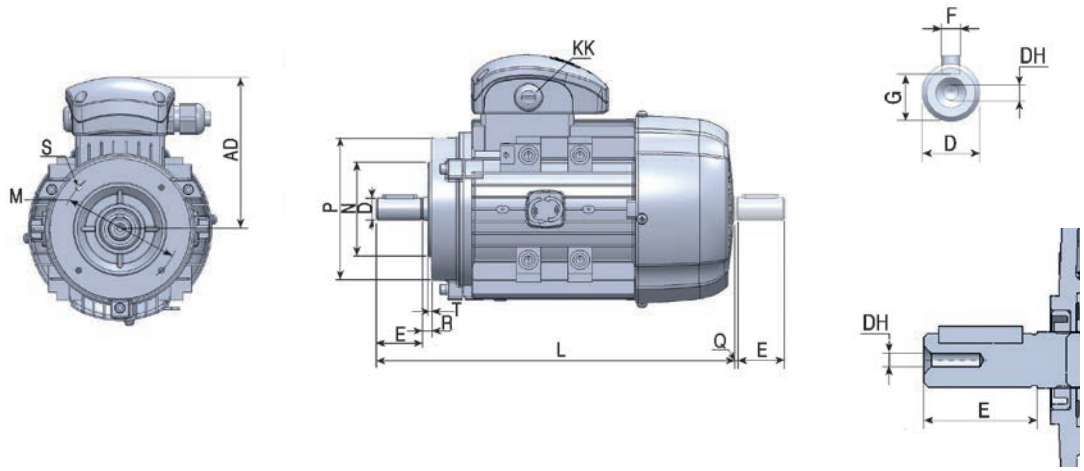


DIMENSIONS (mm)																
TYPE	POLES	AD	H	KK	L	D	DH	E	Q	F	G	B3				
												A	AB	B	C	K
80	2-8	130	80	M20	283	19	M6×16	40	3	6	15,5	125	157	100	50	10
90S	2-8	145	90	M20	330	24	M8×19	50	5	8	20	140	173	100	56	10
90L	2-8	145	90	M20	358	24	M8×19	50	5	8	20	140	173	125	56	10
100	2-8	157	100	M20	393	28	M10×22	60	5	8	24	160	196	140	63	12
112M	2-8	177	112	M25	410	28	M10×22	60	5	8	24	190	227	140	70	12
132S	2-8	197	132	M32	480	38	M12×28	80	5	10	33	216	262	140	89	12
132M	2-8	197	132	M32	516	38	M12×28	80	5	10	33	216	262	178	89	12
160M	2-8	255	160	2×M40	613	42	M16×36	110	5	12	37	254	320	210	108	15
160L	2-8	252	160	2×M40	708	42	M16×36	110	5	12	37	254	320	254	108	15
180M	2-8	270	180	2×M40	730	48	M16×36	110	8	14	42,5	279	355	241	121	15
180L	2-8	270	180	2×M40	780	48	M16×36	110	8	14	42,5	279	355	279	121	15
200L	2-8	303	200	2×M50	771	55	M20×42	110	12	16	49	318	395	305	133	19
225S	2-8	312	225	2×M50	815	60	M20×42	140	12	18	53	356	435	286	149	19
225M	2	312	225	2×M50	820	55	M20×42	110	12	16	49	356	435	286/311	149	19
225M	4-8	312	225	2×M50	850	60	M20×42	140	12	18	53	356	435	286/311	149	19
250M	2	355	250	2×M63	910	60	M20×42	140	12	18	53	406	490	349	168	24
250M	4-8	355	250	2×M63	910	65	M20×42	140	12	18	58	406	490	349	168	24
280S	2	398	280	2×M63	985	65	M20×42	140	12	18	58	457	550	368	190	24
280S	4-8	398	280	2×M63	985	75	M20×42	140	12	20	67,5	457	550	368	190	24
280M	2	398	280	2×M63	1035	65	M20×42	140	12	18	58	457	550	368/419	190	24
280M	4-8	398	280	2×M63	1035	75	M20×42	140	12	20	67,5	457	550	368/419	190	24
315S	2	540	315	2×M63	1160	65	M20×42	140	15	18	58	508	630	406	216	28
315S	4-8	540	315	2×M63	1270	80	M20×42	170	15	22	71	508	630	406	216	28
315M	2	540	315	2×M63	1290	65	M20×42	140	15	18	58	508	630	457	216	28
315M	4-8	540	315	2×M63	1325	80	M20×42	170	15	22	71	508	630	457	216	28
315L	2	540	315	2×M63	1320	65	M20×42	140	15	18	58	508	630	508	216	28
315L	4-8	540	315	2×M63	1350	80	M20×42	170	15	22	71	508	630	508	216	28
355M	2	655	355	2×M63	1500	75	M20×42	140	15	20	67,5	610	730	560/630	254	28
355M	4-8	655	355	2×M63	1530	95	M20×42	170	15	25	86	610	730	560/630	254	28
355L	2	655	355	2×M63	1500	75	M20×42	140	15	20	67,5	610	730	560/630	254	28
355L	4-8	655	355	2×M63	1530	95	M20×42	170	15	25	86	610	730	560/630	254	28



DIMENSIONS (mm)																
TYPE	POLES	AD	H	KK	L	D	DH	E	Q	F	G	B5				
												M	N	P	S	T
80	2-8	130	80	M20	283	19	M6×16	40	3	6	15,5	165	130	200	12x4	3,5
90S	2-8	145	90	M20	330	24	M8×19	50	5	8	20	165	130	200	12x4	3,5
90L	2-8	145	90	M20	358	24	M8×19	50	5	8	20	165	130	200	12x4	3,5
100	2-8	157	100	M20	393	28	M10×22	60	5	8	24	215	180	250	15x4	4
112M	2-8	177	112	M25	410	28	M10×22	60	5	8	24	215	180	250	15x4	4
132S	2-8	197	132	M32	480	38	M12×28	80	5	10	33	265	230	300	15x4	4
132M	2-8	197	132	M32	516	38	M12×28	80	5	10	33	265	230	300	15x4	4
160M	2-8	255	160	2×M40	613	42	M16×36	110	5	12	37	300	250	350	19x4	5
160L	2-8	252	160	2×M40	708	42	M16×36	110	5	12	37	300	250	350	19x4	5
180M	2-8	270	180	2×M40	730	48	M16×36	110	8	14	42,5	300	250	350	19x4	5
180L	2-8	270	180	2×M40	780	48	M16×36	110	8	14	42,5	300	250	350	19x4	5
200L	2-8	303	200	2×M50	771	55	M20×42	110	12	16	49	350	300	400	19x4	5
225S	2-8	312	225	2×M50	815	60	M20×42	140	12	18	53	400	350	450	19x8	5
225M	2	312	225	2×M50	820	55	M20×42	110	12	16	49	400	350	450	19x8	5
225M	4-8	312	225	2×M50	850	60	M20×42	140	12	18	53	400	350	450	19x8	5
250M	2	355	250	2×M63	910	60	M20×42	140	12	18	53	500	450	550	19x8	5
250M	4-8	355	250	2×M63	910	65	M20×42	140	12	18	58	500	450	550	19x8	5
280S	2	398	280	2×M63	985	65	M20×42	140	12	18	58	500	450	550	19x8	5
280S	4-8	398	280	2×M63	985	75	M20×42	140	12	20	67,5	500	450	550	19x8	5
280M	2	398	280	2×M63	1035	65	M20×42	140	12	18	58	500	450	550	19x8	5
280M	4-8	398	280	2×M63	1035	75	M20×42	140	12	20	67,5	500	450	550	19x8	5
315S	2	540	315	2×M63	1160	65	M20×42	140	15	18	58	600	550	660	24x8	6
315S	4-8	540	315	2×M63	1270	80	M20×42	170	15	22	71	600	550	660	24x8	6
315M	2	540	315	2×M63	1290	65	M20×42	140	15	18	58	600	550	660	24x8	6
315M	4-8	540	315	2×M63	1325	80	M20×42	170	15	22	71	600	550	660	24x8	6
315L	2	540	315	2×M63	1320	65	M20×42	140	15	18	58	600	550	660	24x8	6
315L	4-8	540	315	2×M63	1350	80	M20×42	170	15	22	71	600	550	660	24x8	6
355M	2	655	355	2×M63	1500	75	M20×42	140	15	20	67,5	740	680	800	24x8	6
355M	4-8	655	355	2×M63	1530	95	M20×42	170	15	25	86	740	680	800	24x8	6
355L	2	655	355	2×M63	1500	75	M20×42	140	15	20	67,5	740	680	800	24x8	6
355L	4-8	655	355	2×M63	1530	95	M20×42	170	15	25	86	740	680	800	24x8	6

B5R/B14

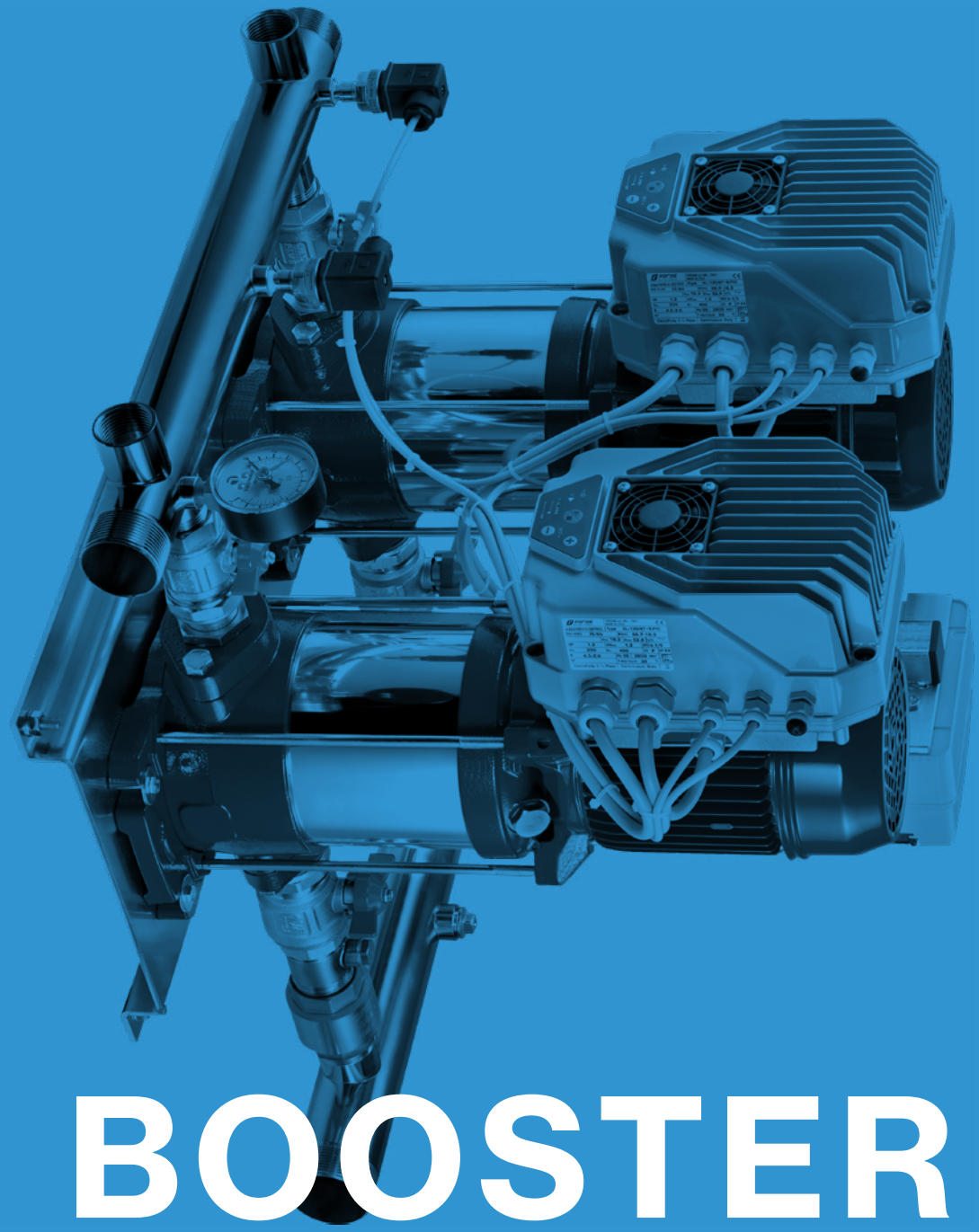


B14

DIMENSIONS (mm)																
TYPE	POLES	AD	H	KK	L	D	DH	E	Q	F	G	B14				
												M	N	P	S	T
80	2-8	130	80	M20	283	19	M6×16	40	3	6	15,5	100	80	120	M6	3
90S	2-8	145	90	M20	330	24	M8×19	50	5	8	20	115	95	140	M8	3
90L	2-8	145	90	M20	358	24	M8×19	50	5	8	20	115	95	140	M8	3
100	2-8	157	100	M20	393	28	M10×22	60	5	8	24	130	110	160	M8	3,5
112M	2-8	177	112	M25	410	28	M10×22	60	5	8	24	130	110	160	M8	3,5
132S	2-8	197	132	M32	480	38	M12×28	80	5	10	33	165	130	200	M10	3,5
132M	2-8	197	132	M32	516	38	M12×28	80	5	10	33	165	130	200	M10	3,5
160M	2-8	255	160	2×M40	613	42	M16×36	110	5	12	37	215	180	250	M12	4
160L	2-8	252	160	2×M40	708	42	M16×36	110	5	12	37	215	180	250	M12	4

B5R/B14

DIMENSIONS (mm)																
TYPE	POLES	AD	H	KK	L	D	DH	E	Q	F	G	B5R / B14B				
												M	N	P	S	T
80	2-8	130	80	M20	283	19	M6×16	40	3	6	15,5	130	110	160	M8	3,5
90S	2-8	145	90	M20	330	24	M8×19	50	5	8	20	130	110	160	M8	3,5
90L	2-8	145	90	M20	358	24	M8×19	50	5	8	20	130	110	160	M8	3,5
100	2-8	157	100	M20	393	28	M10×22	60	5	8	24	165	130	200	M10	3,5
112M	2-8	177	112	M25	410	28	M10×22	60	5	8	24	165	130	200	M10	3,5
132S	2-8	197	132	M32	480	38	M12×28	80	5	10	33	215	180	250	M10	4
132M	2-8	197	132	M32	516	38	M12×28	80	5	10	33	215	180	250	M10	4
160M	2-8	255	160	2×M40	613	42	M16×36	110	5	12	37	265	230	300	14x4	5
160L	2-8	252	160	2×M40	708	42	M16×36	110	5	12	37	265	230	300	14x4	5



BOOSTER SET

AQUADOMUS

Booster set





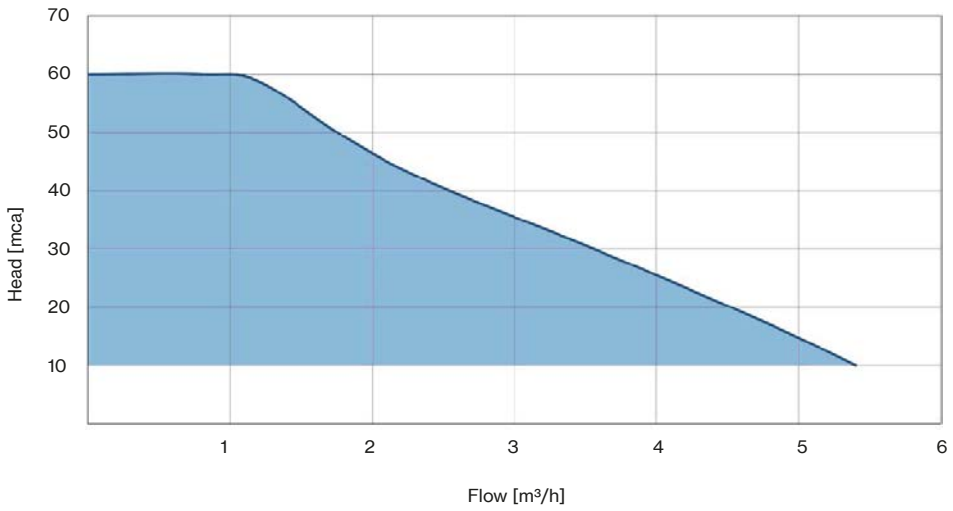
Aquadomus is an integrated ‘Plug&Play’ system to manage water pressurization for domestic and residential applications. The electronic control (E-IPFC) manages the operation of the system in order to maintain the pressure constant even if the conditions of use change. It can be driven and monitored by a dedicated app “UnyConnect”.
It consists of a multistage pump, a permanent magnet synchronous motor, an electronic inverter control, an expansion tank, a no return valve, a pressure sensor, a cable with plug.

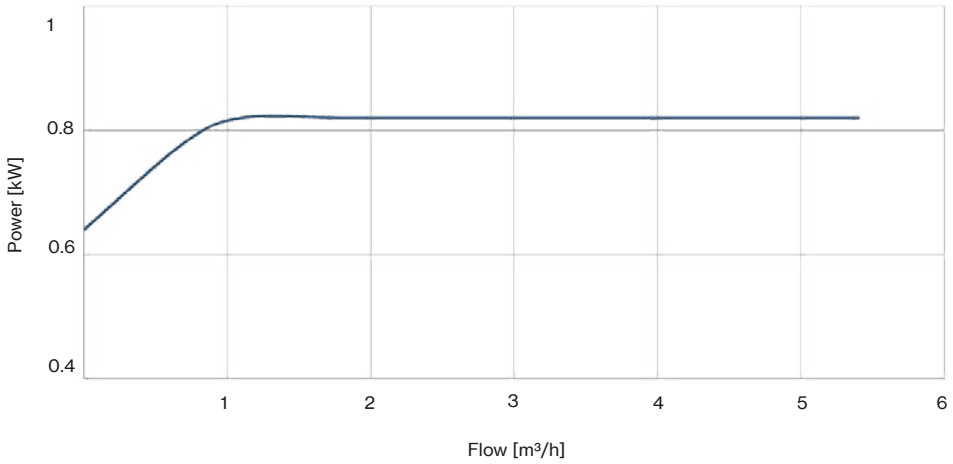
Construction features	
Pump body	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	Noryl®
Mechanical seal	ceramic-graphite-EPDM
Motor shaft	stainless steel AISI 303
Liquid temperature	-5 ÷ +35 °C
Rated pressure	max 7 bar
4 poles synchronus motor with permanent magnet	4200 rpm
Input voltage	1~ 230V - 50Hz 1~ 220V - 60Hz 1~ 115V - 50/60Hz
Insulation class	F
Protection degree	IPX4
Max rated current	3,7 A
Max absorbed power P1	820W
Cable	H07 RNF 1,5 m

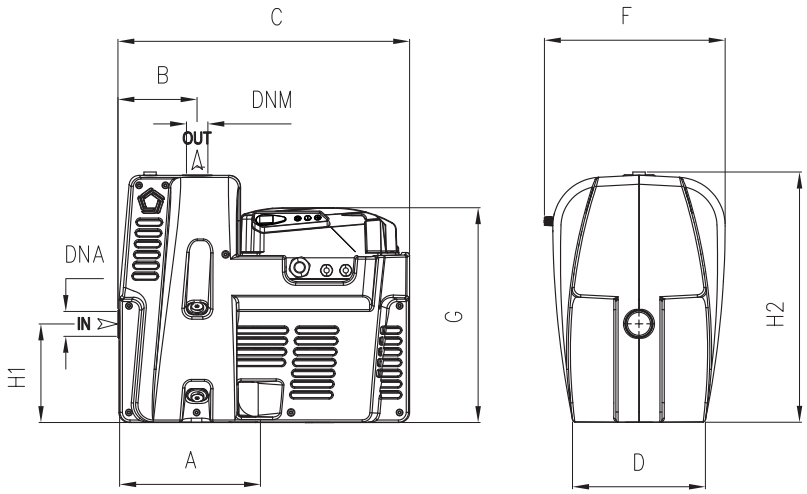
Constant pressure even if the conditions of use change

Dedicated UnyConnect App for programming and monitoring (compatible with Ios and Android)

Bluetooth smart pump







TYPE - 50 Hz	DIMENSIONS (mm)										Kg
	A	B	C	D	F	G	H1	H2	DNA	DNM	
Aquadomus	166,8	103	377	173	235	280	128	325	1" G	1" G	11

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
Aquadomus	80×120×150	36	80×120×185	45

AQUASET


JXF 106N-24 L


JXF BOX 106N-24 L


PE 50-24 L

Fixed speed booster sets with one pump and membrane tank

DESCRIPTION

Compact, built-in, fully automatic pressurization units consisting of a single pump, membrane tank, pressure switch, pressure gauge, connectors and cable with plug. They are ready for installation and suitable for pressure boosting in water systems for domestic use and industrial applications.

FUNCTIONING

The pump switches on automatically when the pressure drops below the minimum set value. When water demand ends, the pump will fill up the tank and then it turns off when the pressure reaches the maximum set value.

TYPE - 50 Hz		P2		P1 (kW)		Pipe		Tank capacity					
1~	3~	HP	kW	1~	3~	Suction (“G)	Delivery (”G)	8 L	20-24 L			50 L	100 L
								cylindrical	spherical	cylindrical	inox	cylindrical	cylindrical
PL 50	-	0,5	0,37	0,5	-	1	1	■	■	-	-	-	-
PL 100	-	1	0,74	1,11	-	1	1	■	■	-	-	-	-
PE 50	-	0,5	0,37	0,5	-	1	1	■	■	-	-	-	-
PE 100	-	1	0,74	1,1	-	1	1	■	■	■	-	-	-
JA 60	-	0,6	0,44	0,7	-	1	1	■	-	■	-	-	-
JA 86	-	0,8	0,59	0,82	-	1	1	■	-	■	-	■	-
JA 106N	-	1	0,74	1,04	-	1	1	-	■	■	-	■	-
JA 126	-	1,2	0,88	1,14	-	1	1	-	■	■	-	■	-
JA 146	-	1,5	1,1	1,3	-	1	1	-	■	■	-	■	-
JAM 150	**JAM 150T**	2	1,5	1,9	1,8	1 ½	1 ¼	-	-	-	-	-	■
JAM 200	**JAM 200T**	2,5	1,85	2,3	2,2	1 ½	1 ¼	-	-	-	-	-	■
JAM 300	**JAM 300T**	3	2,2	2,7	2,6	1 ½	1 ¼	-	-	-	-	-	■
JXF 106N	-	1	0,74	1,04	-	1	1	-	-	■	■	■	-
JXF 126	-	1,2	0,88	1,14	-	1	1	-	-	■	■	■	-
JXF 146	-	1,5	1,1	1,3	-	1	1	-	-	■	■	■	-
JA 150	**JA 150T**	2	1,5	1,8	1,7	1½	1	-	-	■	-	■	-
JA 200	**JA 200T**	2,5	1,85	2,2	2,1	1½	1	-	-	-	-	■	■
JA 300	**JA 300T**	3	2,2	2,8	2,6	1½	1	-	-	-	-	-	■
PA 80	-	0,8	0,59	0,8	-	1 ¼	1	-	-	■	-	-	-
PA 100	-	1	0,74	1,02	-	1 ¼	1	-	-	■	-	-	-
PA 150	**PA 150T**	2	1,5	1,8	1,7	1 ¼	1	-	-	■	-	■	-
PA 200	**PA 200T**	2,5	1,85	2,2	2,1	1 ¼	1	-	-	-	-	■	-
JXM 105	-	1	0,74	1,07	-	1	1	-	-	■	■	-	-
JXM 125	-	1,2	0,88	1,27	-	1	1	-	-	■	■	-	-
P 3A-90/4	**P 3A-90/4T**	0,9	0,66	0,9	0,88	1	1	-	-	■	■	■	■
P 3A-100/5	**P 3A-100/5T**	1	0,75	1,06	1,01	1	1	-	-	■	■	■	■
P 5A-120/4	**P 5A-120/4T**	1,2	0,9	1,13	1,13	1	1	-	-	■	■	■	■
P 5A-150/5	**P 5A-150/5T**	1,5	1,1	1,47	1,39	1	1	-	-	■	■	■	■
P 3SA-90/4	**P 3SA-90/4T**	0,9	0,66	0,83	0,8	1	1	-	-	■	■	■	■
P 3SA-100/5	**P 3SA-100/5T**	1	0,75	0,99	0,92	1	1	-	-	■	■	■	■
P 5SA-120/4	**P 5SA-120/4T**	1,2	0,9	1,09	1,08	1	1	-	-	■	■	■	■
P 5SA-150/5	**P 5SA-150/5T**	1,5	1,1	1,39	1,31	1	1	-	-	■	■	■	■

AQUASET+VSD



Variable speed booster sets with one pump and membrane tank

DESCRIPTION

AQUASET+VSD are single-phase automatic booster sets consisting of a horizontal pump operated and controlled by EPIC variable speed drive. They provide constant pressure regardless of changes on flow demand, making them suitable for low or missing pressure in domestic systems and small industrial applications.

FEATURES

- Variable speed drive EPIC (1~ 230V-in, 3~ 230V-out)
- Three-phase horizontal pump
- Stainless steel 5-way connector with built-in non return valve
- Pressure sensor
- Pressure gauge
- 8 liters membrane tank
- Cable with plug

FUNCTIONING

If the pressure in the network drops the pump will starts and gradually speeds up to provide with the set pressure. When the water demand decreases, the pressure will rise causing the pump speed to slow down and eventually to stop the pump if demand ceases. The pump will remain on standby waiting to start at the next water demand.

SELECTION

The table below shows the pump series available as AQUASET+VSD. Consult the catalog at the relative pump series for specifics and characteristic curves.

VSD	HORIZONTAL 3~ PUMP TYPE	max P2	
		HP	kW
EPIC	JA-JAM	2	1,5
	JA 150-300	2	1,5
	JXF	1,5	1,1
	JXM	1,2	0,88
	KM	2	1,5
	KB	2	1,5
	KBJ	2	1,5
	P 3, P 3S	1,5	1,1
	P 5, P 5S	2	1,5
	P 7, P 7S	2,5	1,85
	P 9, P 9S	2	1,5
	P 18, P 18S	2	1,5

SELF-PRIMING



Fixed speed and variable speed booster sets with two self-priming pumps

DESCRIPTION

Pressurisation units with 2 self-priming horizontal axis pumps fitted on a single skid and connected in parallel by suction and delivery manifolds. These systems are specifically designed for domestic use as well as small civil or industrial applications. They can be equipped with EPIC inverters, which ensures that they can meet the constant pressure demands for modern systems. The key characteristics of these systems are their reliability, user-friendly operation, and low maintenance needs. To ensure proper operation of the booster set, pressure tanks of adequate capacity are required depending on constant or variable speed, pumps type, and applications.

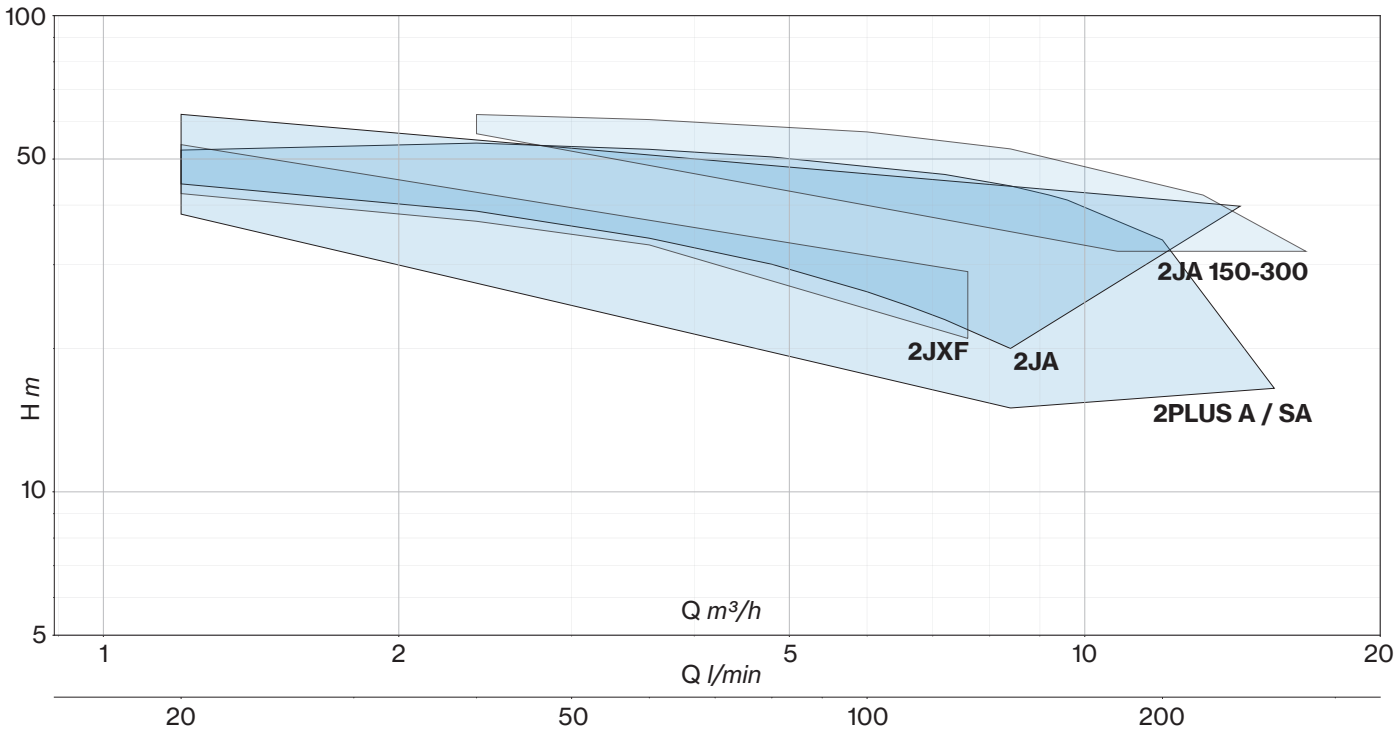
FEATURES

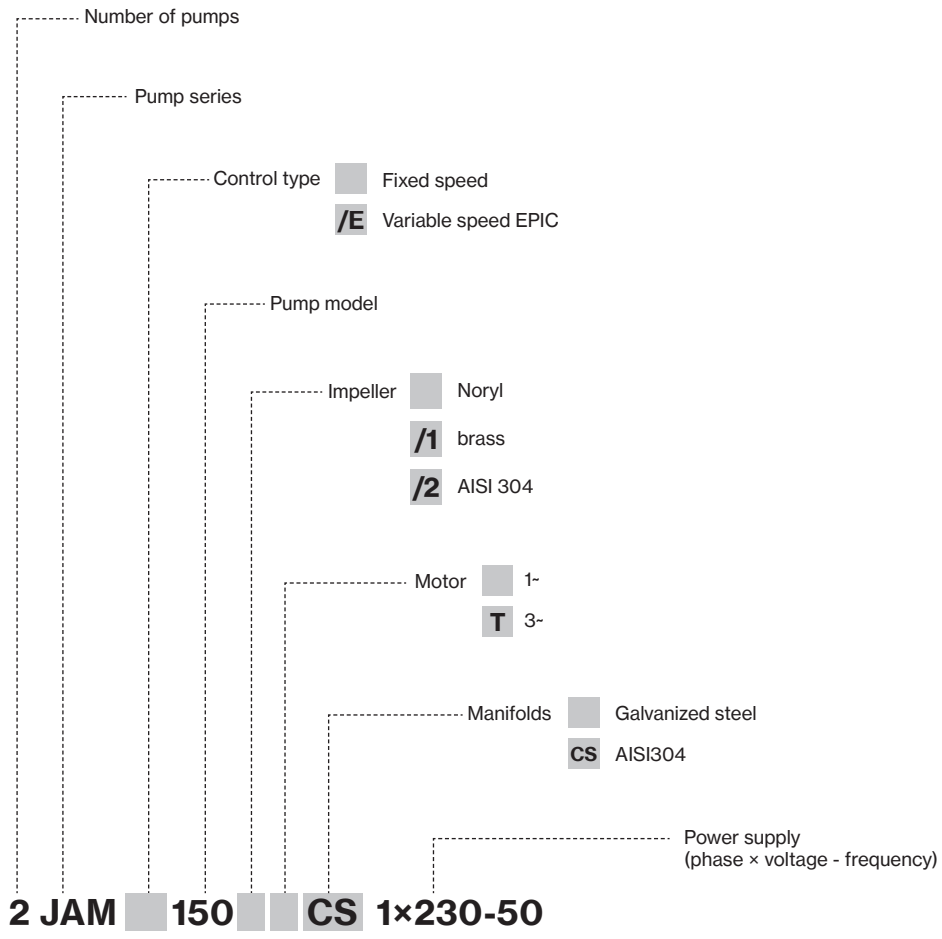
- Two self-priming horizontal axis pumps
- Cast iron pump body for JA/JAM and JA 150-300 pumps series
- Stainless steel pump body for JXF, PLUS A, PLUS SA series
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- Electronic control panel EQ2SM(T) and two pressure switches for fixed speed version
- Inverter EPIC on each pump and two pressure sensors for the variable speed version
- Pressure tanks available on request, as accessory

FUNCTIONING

In the fixed speed version as soon as pressure drops below the minimum set value on the pressure switch the first pump starts automatically. If water demand further increases, the second pump will run until the pressure rises above the maximum set value. When demand ends, the last pump turns off. All the pumps follow cycling changeover for equal work distribution. In case of one pump failure, the other pumps would continue to operate.

In the variable speed version when the system pressure drops below the desired level, the sensors detect it giving an input to the inverter to start the first pump at controlled speed. If the flow rate is not sufficient, the pressure continues to drop causing the second pump to start. As soon as the flow demand decreases, the pressure rises again and the second pump stop. The first pump continues to modulate its speed in order to regulate and maintain the set pressure until it turns off when the flow demand ends. Based on working hours, the inverters will alternate the starting order of pumps to ensure better wear distribution. Continuity of operation is ensured in the event of one pump or one inverter failure.


100
50
10
5
H m
2JA 150-300
2JXF
2JA
2PLUS A / SA
Q m³/h
1
2
5
10
20
Q l/min
20
50
100
200


Number of pumps
Pump series
Control type
Fixed speed
/E Variable speed EPIC
Pump model
Impeller
Noryl
/1 brass
/2 AISI 304
Motor
1~
T 3~
Manifolds
Galvanized steel
CS AISI304
Power supply
(phase × voltage - frequency)
2 JAM 150 CS 1×230-50

SELF-PRIMING BOOSTER SETS

TARGET 2P		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)											
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	7,2	8,4	9,2	9,6	12,0	14	15,6
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	120	140	153,4	160	200	233	260
l/min	bar				HP	kW	H (m)											
80	3	**2P3A-90/4**	**2P3A-90/4T**	**2P3A/E-90/4T**	0,9	0,66	40,8	38,3	35,1	31,8	29,9	19,8	15,0					
		2P3SA-90/4	**2P3SA-90/4T**	**2P3SA/E-90/4T**			43,0	41,0	38,3	35,0	31,3	22,3	17,2	13,5				
100		**2P3A-100/5**	**2P3A-100/5T**	**2P3A/E-100/5T**	1	0,75	52,2	48,9	45,1	40,8	36,0	25,4	19,8	15,0				
		2P3SA-100/5	**2P3SA-100/5T**	**2P3SA/E-100/5T**			54,0	52,1	48,8	44,9	40,2	29,0	22,0	16,8				
160		**2P5A-120/4**	**2P5A-120/4T**	**2P5A/E-120/4T**	1,2	0,9	45,3	44,2	42,8	41,3	39,6	35,6	33,4	31,7	30,8	24,0	15,0	
		2P5SA-120/4	**2P5SA-120/4T**	**2P5SA/E-120/4T**			44,5	43,3	42,1	41,0	40,0	36,4	34,3	32,8	32,0	26,2	18,5	13,5
200		**2P5A-150/5**	**2P5A-150/5T**	**2P5A/E-150/5T**	1,5	1,1	56,8	55,9	54,6	53,0	51,0	46,1	43,2	41,2	40,1	33,0	24,0	15,0
		2P5SA-150/5	**2P5SA-150/5T**	**2P5SA/E-150/5T**			56,0	52,2	54,0	52,4	50,5	46,4	43,9	42,0	41,0	33,8	23,8	16,5

TARGET 2JA-JAM		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)											
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	6	6,6	7,2	8,4	9,6	12	14,4
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	100	110	120	140	160	200	240
l/min	bar				HP	kW	H (m)											
80	3	**2JA106N**	**2JA106NT**	**2JA/E106NT**	1	0,74	50,9	44,3	38,9	34,1	30,1	26,3	24,6	23,0	20,0			
100	3	**2JA126**	**2JA126T**	**2JA/E126T**	1,2	0,88	55,1	48,5	42,6	37,8	33,5	29,7	27,9	26,2	23,0			
120	3	**2JA146**	**2JA146T**	**2JA/E146T**	1,5	1,1	62,5	55,7	49,4	44,2	39,5	35,5	33,5	31,6	28,1			
140	3,5	**2JAM150**	**2JAM150T**	**2JAM/E150T**	2	1,5	54,8	51,8	48,9	46,2	43,6	41,1	40,0	38,8	36,6	34,5	30,6	26,8
160	4	**2JAM200**	**2JAM200T**	**2JAM/E200T**	2,5	1,85	62,7	59,7	56,8	54,0	51,5	49,1	47,9	46,8	44,6	42,4	38,4	34,8
180	4,5	**-**	**2JAM300T**	**-**	3	2,2	70,0	66,9	63,9	61,0	58,3	55,8	54,6	53,5	51,3	49,2	45,1	41,6

TARGET 2JXF		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)							
		FIXED SPEED		VARIABLE SPEED			0	1,2	2,4	3,6	4,8	6	7,2	7,6
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	20	40	60	80	100	120	126,6
l/min	bar				HP	kW	H (m)							
80	3	**2JXF106N**	**2JXF106NT**	**2JXF/E106NT**	1	0,74	48,0	42,3	37,0	33,0	29,6	26,2	22,7	21,0
100		**2JXF126**	**2JXF126T**	**2JXF/E126T**	1,2	0,88	53,4	47,4	41,9	37,5	33,7	29,9	26,0	24,3
120		**2JXF146**	**2JXF146T**	**2JXF/E146T**	1,5	1,1	60,2	53,6	47,8	42,4	38,0	34,4	30,5	29,0

TARGET 2JA150-300		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)							
		FIXED SPEED		VARIABLE SPEED			0	2,4	3,6	6,0	8,4	10,8	13,2	15,6
		1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out			0	40	60	100	140	180	220	260,0
l/min	bar				HP	kW	H (m)							
140	4	**2JA150**	**2JA150T**	**2JA/E150T**	2	1,5	61,5	57,2	54,7	48,5	40,9	30,8	-	-
180		**2JA200**	**2JA200T**	**2JA/E200T**	2,5	1,5	62,8	60,0	58,5	54,7	50,1	44,5	38,7	-
220		**2JA300**	**2JA300T**	**-**	3	2,2	68,4	65,6	64,0	60,7	56,5	51,7	46,4	40,2

THREADED CENTRIFUGAL



Fixed speed and variable speed booster sets with two threaded centrifugal pumps

DESCRIPTION

Pressurisation units with 2 horizontal centrifugal pumps fitted on a single skid and connected in parallel by suction and delivery manifolds. These systems are extremely silent and designed for water supply, pressurization, heating and air conditioning and liquid transfer. They can be equipped with EPIC and EPIC-A inverters, which ensures that they can meet the constant pressure demands for modern systems. The key characteristics of these systems are their reliability, user-friendly operation, and low maintenance needs. To ensure proper operation of the booster set, pressure tanks of adequate capacity are required depending on constant or variable speed, pumps type, and applications.

FEATURES

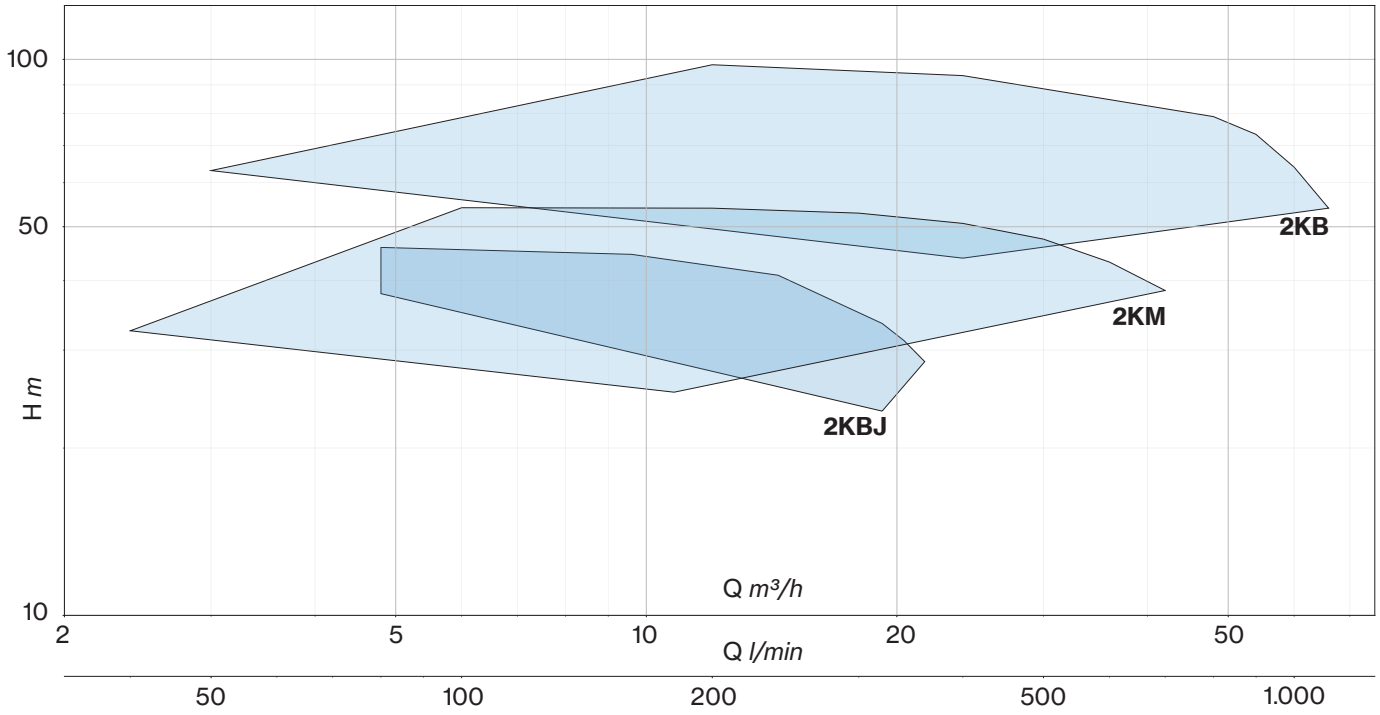
- Two horizontal axis pumps with single or double impeller
- Cast iron pump body
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- Electronic control panel EQ2SM(T) and two pressure switches for fixed speed version
- Inverter EPIC or EPIC-A on each pump and two pressure sensors for the variable speed version
- Pressure tanks available on request, as accessory

FUNCTIONING

In the fixed speed version as soon as pressure drops below the minimum set value on the pressure switch the first pump starts automatically. If water demand further increases, the second pump will run until the pressure rises above the maximum set value. When demand ends, the last pump turns off. All the pumps follow cycling changeover for equal work distribution. In case of one pump failure, the other pumps would continue to operate.

In the variable speed version when the system pressure drops below the desired level, the sensors detect it giving an input to the inverter to start the first pump at controlled speed. If the flow rate is not sufficient, the pressure continues to drop causing the second pump to start. As soon as the flow demand decreases, the pressure rises again and the second pump stop. The first pump continues to modulate its speed in order to regulate and maintain the set pressure until it turns off when the flow demand ends. Based on working hours, the inverters will alternate the starting order of pumps to ensure better wear distribution. Continuity of operation is ensured in the event of one pump or one inverter failure.

THREADED CENTRIFUGAL BOOSTER SETS



Number of pumps

Pump series

Control type
- Fixed speed
- /E Variable speed EPIC
- /A Variable speed EPIC-A

Pump model

Impeller
- Noryl (KM, KBJ), brass (KBT 750, 1000, 1250, 1500)
- /1 brass

Motor
- 1~
- T 3~

Manifolds
- Galvanized steel
- CS AISI304

vsd model (only for control type /A)

Power supply
(phase × voltage - frequency)

2 KM /A 106 T -304 3×400-50

TARGET 2KM		TYPE - 50 Hz				P2 (×2)		Q (m³/h - l/min)								
		FIXED SPEED		VARIABLE SPEED				0	2,4	4,8	7,2	9,6	10,8	13,2	14,4	15,6
				EPIC	EPIC-A			0	40	80	120	160	180	220	240	260
l/min	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)								
100	3	-	-	**2KM/E106T**	**2KM/A106T-304**	1	0,74	33,0	32,5	31,5	29,6	26,8	25,2			
150	3,5	**2KM164**	**2KM164T**	**2KM/E164T**	**2KM/A164T-304**	2	1,5	39,4	39,1	38,6	37,2	35,2	33,8	27,2		
200	4	**2KM214**	**2KM214T**	-	**2KM/A214T-306**	2,5	1,85	46,3	45,9	45,5	44,1	42,1	41,1	38,2	35,5	
200	4,5	**2KM314**	**2KM314T**	-	**2KM/A314T-306**	3	2,2	53,2	52,7	52,1	50,8	48,8	47,6	45,0	42,9	39,2

TARGET 2KM		TYPE - 50 Hz				P2 (×2)		Q (m³/h - l/min)							
		FIXED SPEED		VARIABLE SPEED				0	6	12	18	24	30	36	42
				EPIC	EPIC-A			0	100	200	300	400	500	600	700
l/min	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)							
400	4	-	**2KM400T**	-	**2KM/A400T-309**	4	3	45,1	45,2	44,9	43,4	40,9	37,4	32,5	
500	4,5	-	**2KM550T**	-	-	5,5	4	54,1	54,1	54,0	52,9	50,7	47,5	43,2	38,4

TARGET 2KBJ		TYPE - 50 Hz				P2 (×2)		Q (m³/h - l/min)						
		FIXED SPEED		VARIABLE SPEED				0	4,8	9,6	14,4	19,2	21,6	24,0
				EPIC	EPIC-A			0	80	160	240	320	360	400
l/min	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)						
160	3,5	**2KBJ150**	**2KBJ150T**	**2KBJ/E150T**	**2KBJ/A150T-304**	2	1,5	39,2	40,2	39,5	35,7	28,7	23,9	18,0
240		**2KBJ200**	**2KBJ200T**	**2KBJ/E200T**	**2KBJ/A200T-304**	2,5	1,85	44,9	45,6	44,8	41,7	35,2	30,8	25,8
300		**2KBJ300**	**2KBJ300T**	-	**2KBJ/A300T-306**	3	2,2	49,5	49,4	48,3	45,8	39,8	35,8	31,1

TARGET 2KB		TYPE - 50 Hz				P2 (×2)		Q (m³/h - l/min)										
		FIXED SPEED		VARIABLE SPEED				0	1,2	2,4	3,6	4,8	7,2	9,6	12,0	14,4	16,8	18
				EPIC	EPIC-A			0	20	40	60	80	120	160	200	240	280	300
l/min	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)										
60	3,5	**2KB100**	**2KB100T**	**2KB/E100T**	**2KB/A100T-304**	1	0,74	42,0	40,8	39,4	37,4	34,7	29,2	21,0				
180	4	**2KB160**	**2KB160T**	**2KB/E160T**	**2KB/A160T-306**	2	1,5	48,3	47,7	47,1	46,5	45,7	43,5	40,1	36,2	31,1		
220	4	**2KB210**	**2KB210T**	-	**2KB/A210T-306**	2,5	1,85	54,9	54,4	53,8	53,0	52,3	50,5	47,1	43,1	38,3	32,4	
220	4,5	**2KB310**	**2KB310T**	-	**2KB/A310T-306**	3	2,2	61,4	60,9	60,3	59,8	59,2	57,1	53,6	49,3	44,2	38,3	35,2

TARGET 2KB		TYPE - 50 Hz		P2 (×2)		Q (m³/h - l/min)												
		FIXED SPEED	VARIABLE SPEED			0	3	6	9	12	15	18	21	24	27	30	33	
		3~ 400V	EPIC-A			0	50	100	150	200	250	300	350	400	450	500	550	
l/min	bar		3~ 400V-in 3~ 400V-out	HP	kW	H (m)												
250	5,5	**2KB400T**	**2KB/A400T-309**	4	3	63,6	63,1	62,0	60,3	58,2	55,5	52,3	48,4	43,9				
300	6,5	**2KB550T**	-	5,5	4	76,9	76,4	75,4	73,8	71,7	69,0	65,9	62,1	58,0	53,4			
350	7,5	**2KB751RT**	-	7,5	5,5	90,7	90,0	88,9	87,3	85,3	82,9	80,1	76,8	73,1	68,8	63,7		
350	8	**2KB900T**	-	10	7,5	97,5	96,6	95,4	93,7	91,7	89,2	86,5	83,3	79,8	75,2	71,2	66,4	

TARGET 2KM		TYPE - 50 Hz	P2 (×2)		Q (m³/h - l/min)							
		FIXED SPEED			0	12	24	36	48	54	60	66
		3~ 400V			0	200	400	600	800	900	1000	1100
l/min	bar		HP	kW	H (m)							
600	5	**2KB750T**	7,5	5,5	70,0	68,5	63,9	57,1	45,3	38,2		
800	5,5	**2KB1000T**	10	7,5	80,7	80,4	75,0	68,5	59,7	52,6	43,7	
900	6	**2KB1250T**	12,5	9,2	89,5	88,8	84,1	77,7	69,7	63,0	54,2	45,1
900	7	**2KB1500T**	15	11	98,3	97,8	93,5	85,7	78,9	73,3	64,0	54,0

CENTRIFUGAL FLANGED



2MN (EN 733)



2MN/I (EN 733)

Fixed speed and variable speed booster sets with two monobloc centrifugal flanged pumps

DESCRIPTION

Booster units with 2 monobloc horizontal centrifugal pumps of MN (EN 733) series, set on a single skid and connected in parallel by suction and delivery manifolds. These systems are widely used in water supplies, pressurization and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications. To ensure a constant pressure to the system these booster sets can be equipped with EPIC-A or IPFC inverters.
To ensure proper operation of the booster set, pressure tanks of adequate capacity are required depending on constant or variable speed, pumps type, and applications.

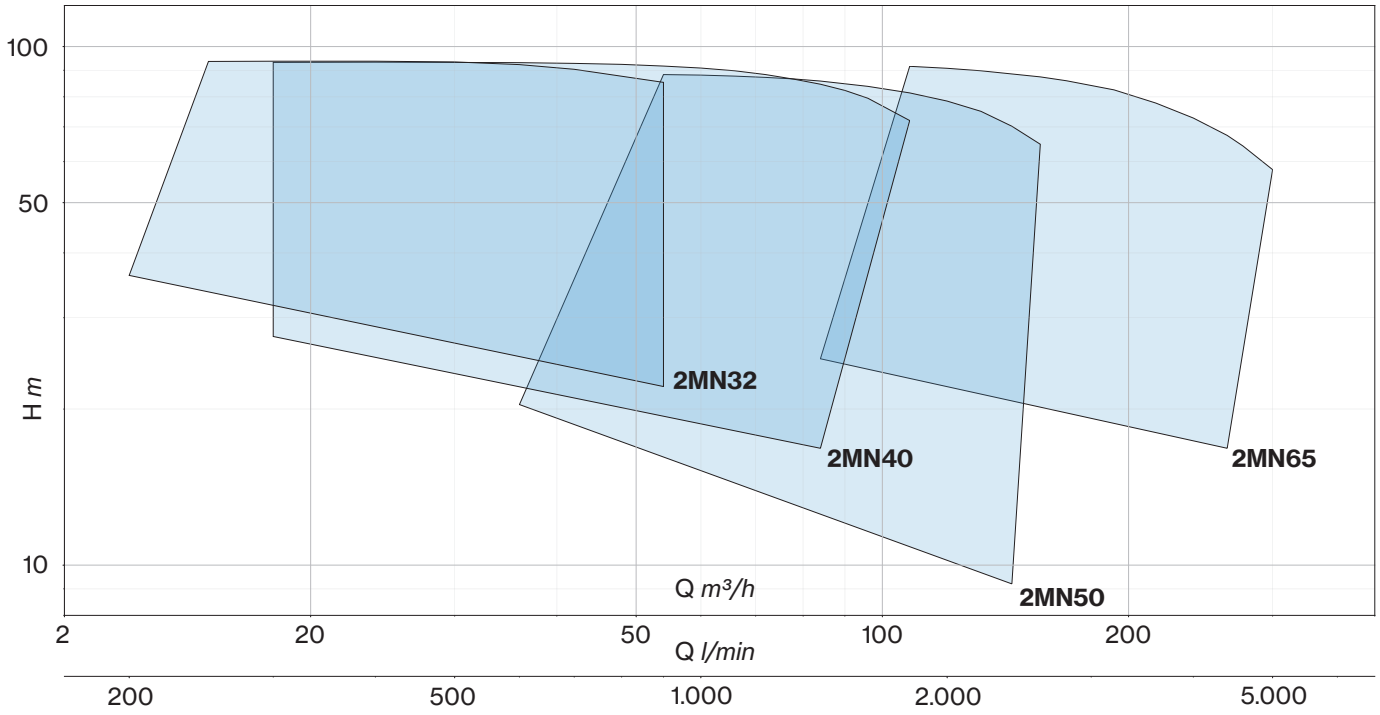
FEATURES

- Two monobloc horizontal centrifugal flanged pumps of MN (EN 733) series
- Cast iron pump body
- Suction manifold in galvanized steel with non-return and isolation valves
- Delivery manifold in galvanized steel with pressure gauge and isolation valves
- Base frame in galvanized steel
- EQ2SM(T) electronic or Q2ST electromechanical control panel with pressure switches for fixed speed version
- Inverter EPIC-A or IPFC, connected on each pump with pressure sensors, for variable speed version
- Pressure tanks, available on request, as accessory

FUNCTIONING

In the fixed speed version as soon as pressure drops below the minimum set value on the pressure switch the first pump starts automatically. If water demand further increases, the second pump will run until the pressure rises above the maximum set value. When demand ends, the last pump turns off. All the pumps follow cycling changeover for equal work distribution. In case of one pump failure, the other pumps would continue to operate.

In the variable speed version when the system pressure drops below the desired level, the sensors detect it giving an input to the inverter to start the first pump at controlled speed. If the flow rate is not sufficient, the pressure continues to drop causing the second pump to start. As soon as the flow demand decreases, the pressure rises again and the second pump stop. The first pump continues to modulate its speed in order to regulate and maintain the set pressure until it turns off when the flow demand ends. Based on working hours, the inverters will alternate the starting order of pumps to ensure better wear distribution. Continuity of operation is ensured in the event of one pump or one inverter failure.



Number of pumps

Pump series

Control type
- Fixed speed
- /A Variable speed EPIC-A
- /I Variable speed IPFC

Pump model

Impeller
- cast iron
- B bronze
- X AISI 316

Mech. seal and O-rings
- standard
- E EPDM
- V FKM
- 2E SiC-SiC-EPDM
- 2V SiC-SiC-FKM

Manifolds
- Galvanized steel
- CS AISI304

vsd model (only for control type /A or /I)

Power supply (phase × voltage - frequency)

2 MN /I 32-200A -318 3×400-50

CENTRIFUGAL FLANGED BOOSTER SETS

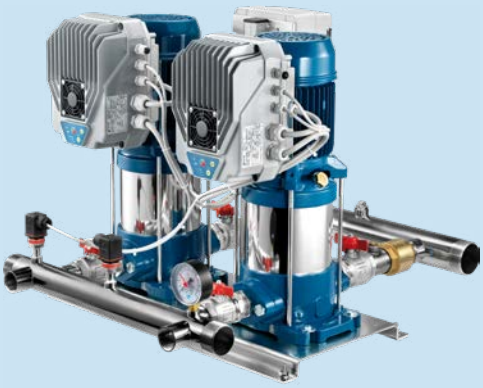
TARGET 2MN		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)											
		FIXED SPEED	VARIABLE SPEED				0	12	15	18	24	30	36	42	48	54	60	66
		3~400V	EPIC-A	IPFC			0	200	250	300	400	500	600	700	800	900	1000	1100
m³/h	bar		3~400V-in 3~400V-out		HP	kW	H (m)											
36	3	**2MN32-160A**	**2MN/A32-160A-309**	**2MN/I 32-160A-309**	4	3	36,1	36,2	36,0	35,6	34,6	33,2	31,4	28,9	25,7	22,1		
	3,5	**2MN32-200C**	-	**2MN/I 32-200C-311**	5,5	4	40,2	40,3	40,1	39,8	38,9	37,7	36,1	34,2	31,6	28,7		
42	4	**2MN32-200B**	-	**2MN/I 32-200B-314**	7,5	5,5	48,3	48,0	47,9	47,6	46,7	45,5	44,2	42,6	40,5	37,9	35,4	
	5	**2MN32-200A**	-	**2MN/I 32-200A-318**	10	7,5	57,9	58,3	58,4	58,4	58,0	57,1	55,6	53,8	51,4	49,2	46,6	44,3
	6,5	**2MN32-250C**	-	**2MN/I 32-250C-318**	12,5	9,2	74,6		72,8	72,5	71,9	70,5	68,8	66,6	64,1	61,3		
	7,5	**2MN32-250B**	-	**2MN/I 32-250B-325**	15	11	84,8		84,0	83,9	83,6	82,7	81,1	78,6	75,4	73,2		
	8,5	**2MN32-250A**	-	**2MN/I 32-250A-330**	20	15	93,5		93,6	93,7	93,7	93,4	92,3	90,4	87,7	85,3		

TARGET 2MN		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)													
		FIXED SPEED	VARIABLE SPEED				0	18	36	42	48	54	60	66	72	78	84	90	96	108
		3~400V	EPIC-A	IPFC			0	300	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
m³/h	bar		3~400V-in 3~400V-out		HP	kW	H (m)													
54	2	**2MN40-125A**	**2MN/A40-125A-309**	**2MN/I 40-125A-309**	4	3	26,8	27,6	27,2	26,5	25,7	24,6	23,4	22,0	20,3	18,5	16,8			
	3	**2MN40-160A**	-	**2MN/I 40-160A-311**	5,5	4	38,8	34,9	33,9	33,2	32,4	31,3	30,0	28,5	26,9	25,2	23,4			
	4	**2MN40-200B**	-	**2MN/I 40-200B-314**	7,5	5,5	44,6	45,5	44,5	43,5	42,3	41,0	39,3	37,2	34,9	32,3	29,4			
	5	**2MN40-200A**	-	**2MN/I 40-200A-318**	10	7,5	56,2	56,5	55,9	55,1	54,1	52,8	51,2	49,3	47,0	44,4	41,6			
66	5	**2MN40-200AP**	-	**2MN/I 40-200AP-318**	12,5	9,2	61,7	61,4	60,0	59,1	57,9	56,4	54,7	53,1	51,1	48,5	45,5	42,2		
	6,5	**2MN40-250B**	-	**2MN/I 40-250B-325**	15	11	73,7	73,9	71,9	71,1	70,2	69,2	68,1	66,7	64,7	62,1				
72	7,5	**2MN40-250A**	-	**2MN/I 40-250A-330**	20	15	82,6	84,6	84,3	83,4	82,4	81,3	80,0	78,5	76,9	75,4	72,8	69,0		
84	8,5	**2MN40-250BM**	-	**2MN/I 40-250BM-338**	25	18,5	92,6	93,2	93,1	92,8	92,4	91,7	90,9	89,8	88,3	86,5	84,6	82,3	79,5	72,0

TARGET 2MN		TYPE - 50 Hz			P2 (×2)		Q (m³/h - l/min)													
		FIXED SPEED	VARIABLE SPEED				0	36	42	48	54	60	72	84	96	108	120	132	144	156
		3~400V	EPIC-A	IPFC			0	600	700	800	900	1000	1200	1400	1600	1800	2000	2200	2400	2600
m³/h	bar		3~400V-in 3~400V-out		HP	kW	H (m)													
96	1,5	**2MN50-125B**	**2MN/A50-125B-309**	**2MN/I 50-125B-309**	4	3	20,0	20,4	20,3	20,1	19,9	19,6	18,7	17,6	16,4	15,0	13,2	11,3	9,2	
	2	**2MN50-125A**	-	**2MN/I 50-125A-311**	5,5	4	23,7	24,2	24,1	23,9	23,7	23,3	22,6	21,7	20,7	19,6	18,2	16,4	14,2	
108	2,5	**2MN50-160B**	-	**2MN/I 50-160B-314**	7,5	5,5	32,1		33,5	33,4	33,1	32,7	31,6	30,2	28,3	26,2	23,9	21,5	18,9	
120	3	**2MN50-160A**	-	**2MN/I 50-160A-318**	10	7,5	38,1		39,8	39,8	39,8	39,6	38,8	37,7	36,1	34,1	32,1	29,9	27,6	25,4
	3,5	**2MN50-200C**	-	**2MN/I 50-200C-325**	12,5	9,2	48,2			49,7	49,2	48,5	46,9	44,9	42,6	40,0	36,0	32,3	28,9	
	4	**2MN50-200B**	-	**2MN/I 50-200B-325**	15	11	53,1			54,6	54,1	53,5	52,2	50,4	48,1	45,5	42,7	38,8	35,0	
	5	**2MN50-200A**	-	**2MN/I 50-200A-330**	20	15	59,9			61,8	61,5	61,0	59,7	58,0	56,0	53,6	50,8	47,8	44,4	39,8
	6,5	**2MN50-250B**	-	**2MN/I 50-250B-338**	25	18,5	78,8				78,4	78,0	77,0	75,1	72,9	70,3	66,9	62,9	58,5	
	7,5	**2MN50-250A**	-	**2MN/I 50-250A-348**	30	22	88,5				88,3	88,1	87,2	85,8	83,8	81,4	78,5	75,0	70,2	64,8

TARGET 2MN		TYPE - 50 Hz		P2 (×2)		Q (m³/h - l/min)													
		FIXED SPEED	VARIABLE SPEED			0	84	90	108	132	156	168	192	216	240	264	276	288	300
		3~400V	IPFC			0	1400	1500	1800	2200	2600	2800	3200	3600	4000	4400	4600	4800	5000
m³/h	bar		3~400V-in 3~400V-out	HP	kW	H (m)													
192	2	**2MN65-125A**	**2MN/I 65-125A-318**	10	7,5	24,6	25,0	24,9	24,7	24,2	23,5	23,0	22,0	20,6	18,8	16,8			
	2,5	**2MN65-160C**	**2MN/I 65-160C-318**	12,5	9,2	28,9	30,6	30,5	30,0	29,1	27,9	27,2	25,3	22,9	20,2	17,5	16,0	13,9	
	3	**2MN65-160B**	**2MN/I 65-160B-325**	15	11	33,2	35,1	35,0	34,6	33,8	32,8	32,1	30,4	28,2	25,5	22,5	21,4	20,4	
	3,5	**2MN65-160A**	**2MN/I 65-160A-338**	20	15	40,1	42,5	42,5	42,3	41,8	41,0	40,4	38,9	37,1	35,3	32,8	31,7	30,9	
240	3	**2MN65-200C**	**2MN/I 65-200C-338**	20	15	44,4			46,1	44,7	43,2	42,4	40,3	37,5	33,7	28,9	26,8		
	4	**2MN65-200B**	**2MN/I 65-200B-338**	25	18,5	51,7			53,9	52,7	51,3	50,4	48,6	45,9	43,0	39,4	37,1	34,6	
	5	**2MN65-200A**	**2MN/I 65-200A-348**	30	22	60,3			61,8	61,0	59,8	59,1	57,1	54,6	51,6	48,3	46,5	44,4	
	6	**2MN65-250B**	**2MN/I 65-250B-365**	40	30	80,6			80,6	78,4	75,7	74,1	70,4	66,1	61,0	54,7	51,0	47,3	
	7	**2MN65-250A**	**2MN/I 65-250A-375**	50	37	91,6			91,6	89,8	87,4	85,9	82,5	77,8	72,8	67,4	64,3	60,8	57,9

MULTISTAGE



2P



3P

Fixed speed and variable speed booster sets with two or three multistage pumps

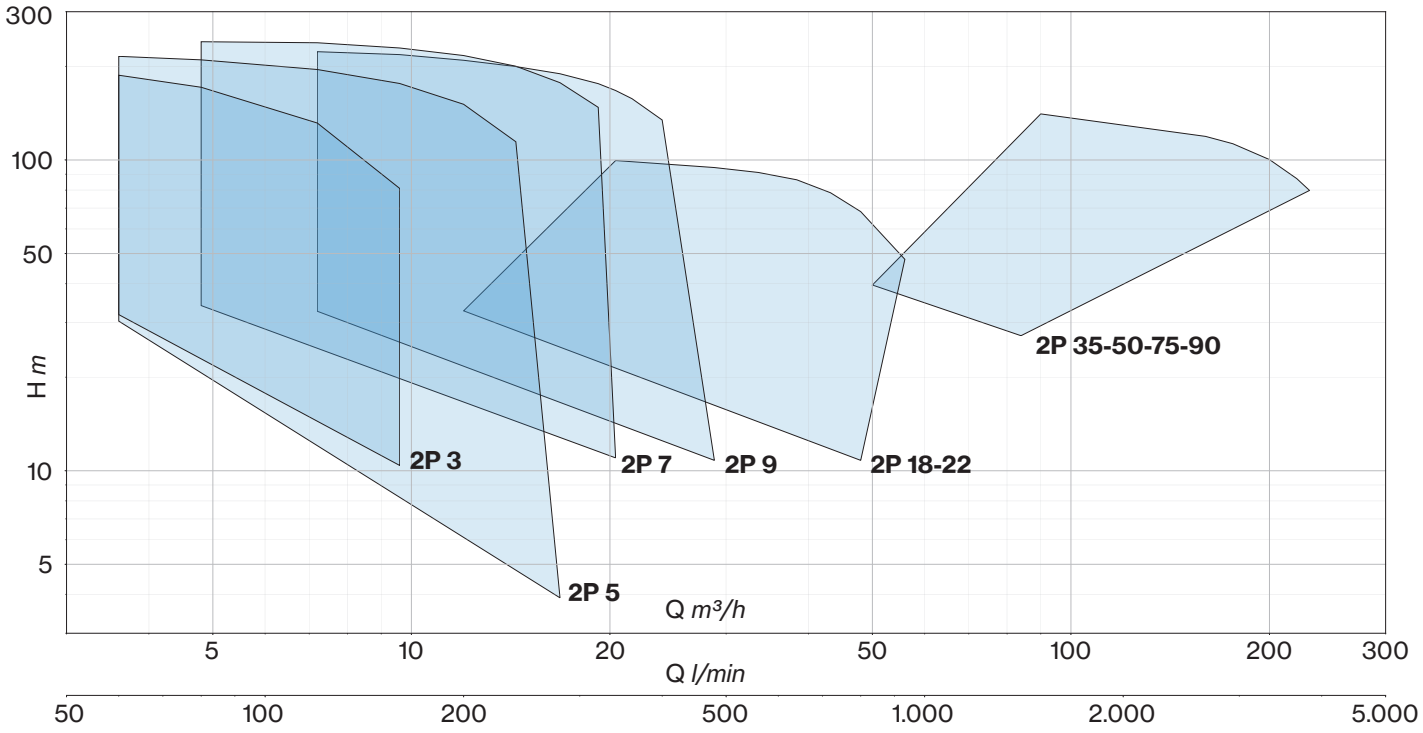
DESCRIPTION
Fully automatic booster units with two (2P) or three (3P) multistage pumps of PLUS series, set on a single skid and connected in parallel by suction and delivery manifolds. To ensure a constant pressure and deliver the highest comfort level they can be equipped with EPIC, EPIC-A or IPFC inverters.
These pressure boosting systems are suitable for water network supply in housing complexes, offices, hotels, shopping centers, industrial plants and for irrigation. It is required the installation of a pressure tank.

FEATURES
- Horizontal or vertical multistage pumps of PLUS series
- Inlet and outlet galvanized steel manifolds (stainless steees as option)
- Base frame in galvanized steel
- Non-return valves on suction side, one per pump
- Isolating valves, two per pump
- Pressure gauge
- Variable speed drive, one per pump
- Outlet-pressure sensors, one per pump
- Breaker box
- EQ2SM(T) electronic or Q2ST star-delta electromechanical control panel with pressure switches for fixed speed version
- Inverter EPIC, EPIC-A or IPFC, connected on each pump with pressure sensors, for variable speed version
- Pressure tanks, available on request, as accessory

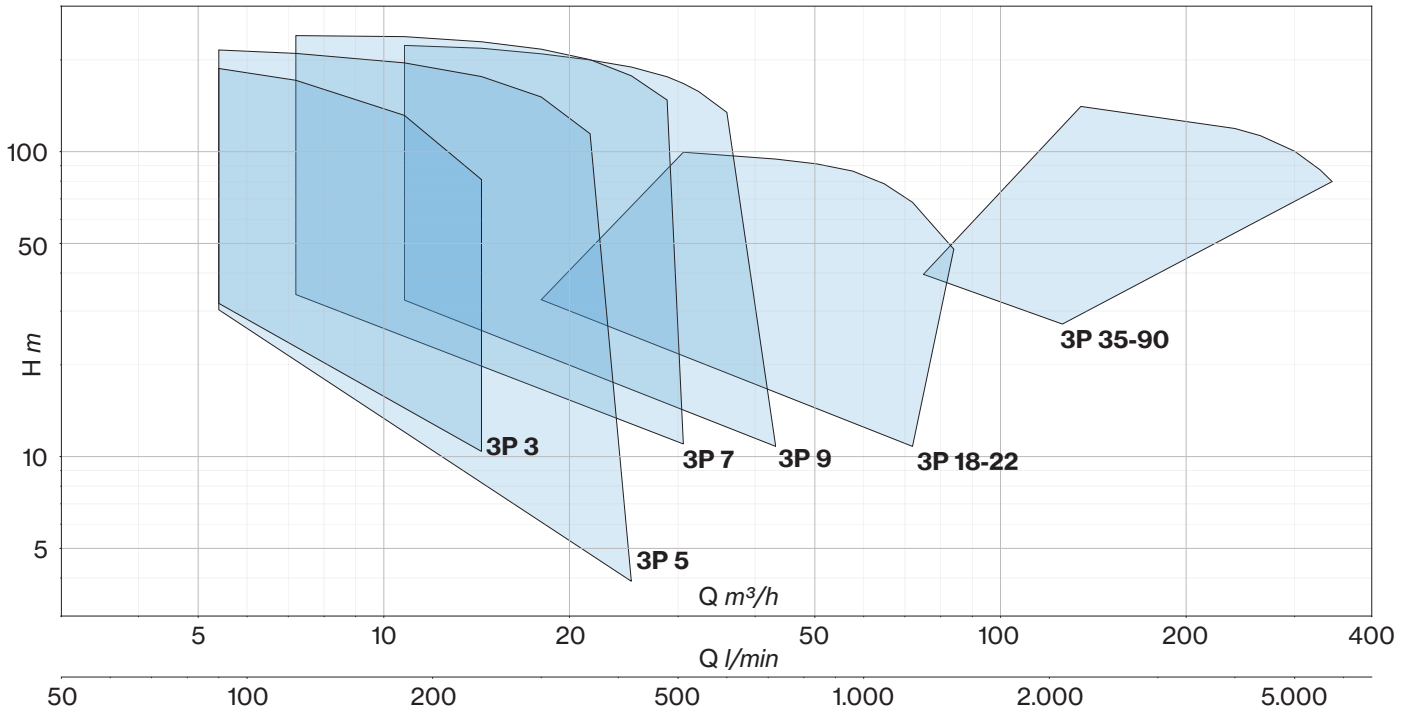
FUNCTIONING
In the fixed speed version as soon as pressure drops below the minimum set value on the pressure switch the first pump starts automatically. If water demand further increases, the second pump will run until the pressure rises above the maximum set value. When demand ends, the last pump turns off. All the pumps follow cycling changeover for equal work distribution. In case of one pump failure, the other pumps would continue to operate.
In the variable speed version when the system pressure drops below the desired level, the sensors detect it giving an input to the inverter to start the first pump at controlled speed. If the flow rate is not sufficient, the pressure continues to drop causing the second pump to start. As soon as the flow demand decreases, the pressure rises again and the second pump stop. The first pump continues to modulate its speed in order to regulate and maintain the set pressure until it turns off when the flow demand ends. Based on working hours, the inverters will alternate the starting order of pumps to ensure better wear distribution. Continuity of operation is ensured in the event of one pump or one inverter failure.

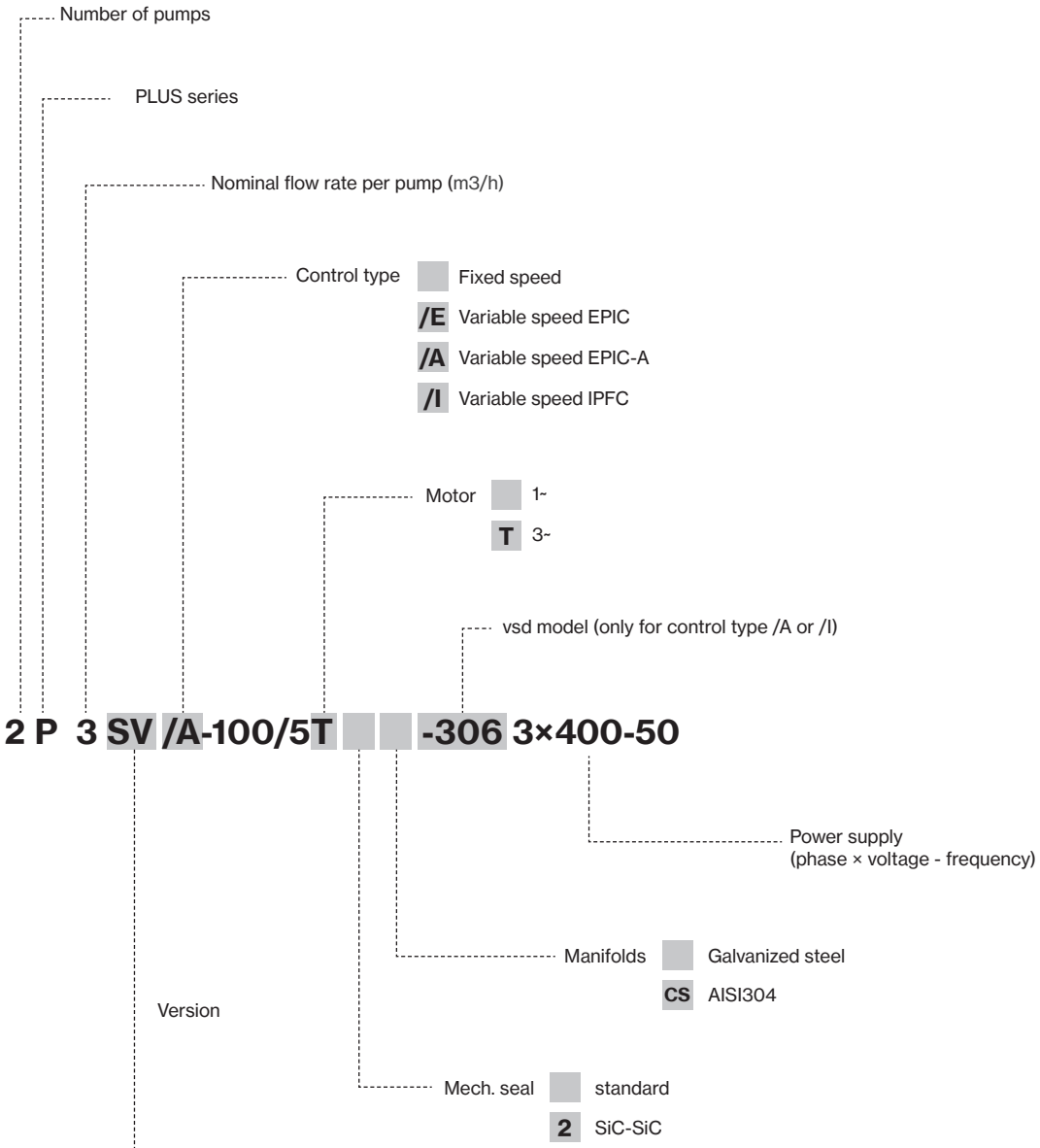
MULTISTAGE BOOSTER SET

2 PLUS



3 PLUS





	PUMP TYPE	MAX LIQUID TEMPERATURE	IMPELLERS MATERIAL	PUMP SHELL AND BODY MATERIAL	PUMP AND MOTOR SHAFT
	Horizontal multistage	35° C	Noryl®	AISI 304	monoblock
S		110° C	AISI 304	AISI 304	
V	Vertical multistage, overlapped ports	35° C	Noryl®	AISI 304 / cast iron	
SV		90° C	AISI 304	AISI 304 / cast iron	
L	Vertical multistage, inline ports	35° C	Noryl®	AISI 304 / cast iron	
LG		35° C	Noryl®	AISI 304 / cast iron	with coupling
SL		110° C	AISI 304	AISI 304 / cast iron	monoblock
SLX		110° C	AISI 304	AISI 304	
SLG		110° C	AISI 304	AISI 304 / cast iron	with coupling
SLXG		110° C	AISI 304	AISI 304	
HS		120° C	AISI 304	AISI 304 / cast iron	
HX		120° C	AISI 316	AISI 316	

PERFORMANCE 2P HORIZONTAL

TARGET 2P		TYPE - 50 Hz HORIZONTAL PUMPS FIXED SPEED 2P		VARIABLE SPEED 2P - EPIC	VARIABLE SPEED 2P - EPIC-A	P2 (×2)		2P Q (m³/h - l/min)													
								0	4	5	7	10	12	14	17	19	20	22	24	29	
								0	60	80	120	160	200	240	280	320	340	360	400	480	
m³/h	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 400V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)													
6	2	**3-90/4**	**3-90/4T**	**3/E-90/4T**	**3/A-90/4T-304**	0,9	0,66	40,8	31,8	27,9	19,8	10,4									
		3S-90/4	**3S-90/4T**	**3S/E-90/4T**	**3S/A-90/4T-304**			44,3	36,4	33,2	24,5	13,9									
	3	**3-100/5**	**3-100/5T**	**3/E-100/5T**	**3/A-100/5T-304**	1	0,75	52,2	40,8	36	25,4	14									
		3S-100/5	**3S-100/5T**	**3S/E-100/5T**	**3S/A-100/5T-304**			55,3	46,5	42,1	31,6	17,7									
	4	**3-120/6**	**3-120/6T**	**3/E-120/6T**	**3/A-120/6T-304**	1,2	0,9	62,8	49,6	43,9	32,1	18,3									
		3S-120/6	**3S-120/6T**	**3S/E-120/6T**	**3S/A-120/6T-304**			66,6	56	50,7	38,1	22,4									
	5	**3-150/7**	**3-150/7T**	**3/E-150/7T**	**3/A-150/7T-304**	1,5	1,1	77,1	68,4	62,3	46,5	25,7									
		3S-150/7	**3S-150/7T**	**3S/E-150/7T**	**3S/A-150/7T-304**			75,6	64,8	58,9	44,4	26,1									
10	2	**5-80/3**	**5-80/3T**	**5/E-80/3T**	**5/A-80/3T-304**	0,8	0,6	33,4	30,3	29	26	22,5	17,6	12	3,9						
		5S-80/3	**5S-80/3T**	**5S/E-80/3T**	**5S/A-80/3T-304**			34	31,1	29,9	27	23,6	19,1	13,1	6						
	3	**5-120/4**	**5-120/4T**	**5/E-120/4T**	**5/A-120/4T-304**	1,2	0,9	45,3	41,3	39,6	35,6	30,8	24,9	17,6	6,4						
		5S-120/4	**5S-120/4T**	**5S/E-120/4T**	**5S/A-120/4T-304**			45,5	42,2	40,7	37,2	32,9	27,4	19,8	10,4						
	4	**5-150/5**	**5-150/5T**	**5/E-150/5T**	**5/A-150/5T-304**	1,5	1,1	57,6	55,6	54,2	50,5	45	37	27,4							
		5S-150/5	**5S-150/5T**	**5S/E-150/5T**	**5S/A-150/5T-304**			55,9	52,8	51,4	48,1	43,4	37,3	28,3	16,4						
	5	**5-180/6**	**5-180/6T**	**5/E-180/6T**	**5/A-180/6T-304**	2	1,5	69,1	66,5	64,8	60,1	53,2	43,8	32							
		5S-180/6	**5S-180/6T**	**5S/E-180/6T**	**5S/A-180/6T-304**			67	63,3	61,6	57,6	51,9	44,2	33,6	20,4						
	5,5	**5-200/7**	**5-200/7T**	**5/E-200/7T**	**5/A-200/7T-304**	2	15	80,6	77,1	75,1	69,6	61,3	50,4	35,8							
		5S-200/7	**5S-200/7T**	**5S/E-200/7T**	**5S/A-200/7T-304**			77,8	73,5	71,3	66,3	59,6	50,7	38	22,4						
14	2	**7-120/3**	**7-120/3T**	**7/E-120/3T**	**7/A-120/3T-304**	1,2	0,9	36,7		34,0	32,0	29,6	26,5	23,0	18,6	13,8	11,0				
		7S-120/3	**7S-120/3T**	**7S/E-120/3T**	**7S/A-120/3T-304**			35,6		33,9	32,8	31,2	28,1	24,7	20,6	15,7	13,0	10,0			
	3	**7-180/4**	**7-180/4T**	**7/E-180/4T**	**7/A-180/4T-304**	2	1,5	49,6		48,4	46,7	43,8	39,9	34,9	28,9						
		7S-180/4	**7S-180/4T**	**7S/E-180/4T**	**7S/A-180/4T-304**			46,7		46,0	45,2	43,1	40,3	36,9	32,3	25,5					
	4	**7-250/5**	**7-250/5T**	**7/E-250/5T**	**7/A-250/5T-306**	2,5	1,85	63,2		62,1	60,3	56,9	52,1	46,2	39,0						
		7S-250/5	**7S-250/5T**	**7S/E-250/5T**	**7S/A-250/5T-306**			58,5		57,6	56,6	54,1	50,8	46,1	40,3	31,8					
	5	**7-300/6**	**7-300/6T**	-	**7/A-300/6T-306**	3	2,2	76,0		75,1	73,1	69,2	63,6	56,8	48,2						
		7S-300/6	**7S-300/6T**	-	**7S/A-300/6T-306**			70,6		69,9	68,7	65,8	61,8	56,6	49,7	39,3					
	6	-	**7-350/7T**	-	**7/A-350/7T-306**	3,5	2,57	89,0		88,0	85,8	81,2	74,5	66,3	56,2						
		-	**7S-350/7T**	-	**7S/A-350/7T-306**			82,8		82,0	80,6	77,2	72,3	66,0	57,4	46,4					

TARGET 2P		TYPE - 50 Hz HORIZONTAL PUMPS FIXED SPEED 2P		VARIABLE SPEED 2P - EPIC	VARIABLE SPEED 2P - EPIC-A	P2 (×2)		2P Q (m³/h - l/min)													
								0	4	5	7	10	12	14	17	19	20	22	24	29	
								0	60	80	120	160	200	240	280	320	340	360	400	480	
m³/h	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 400V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)													
18	2	**9-150/3**	**9-150/3T**	**9/E-150/3T**	**9/A-150/3T-304**	1,5	1,1	35			32,8	31,7	30,2	28,5	26,5	24,1	22,7	21,2	17,9	14,3	
		9S-150/3	**9S-150/3T**	**9S/E-150/3T**	**9S/A-150/3T-304**			35,1			32,8	31,8	30,6	29	27,2	24,9	23,6	22,2	18,9	15,2	
	3	**9-200/4**	**9-200/4T**	**9/E-200/4T**	**9/A-200/4T-304**	2	1,5	45,8			42,1	40,7	39,2	37,3	34,6	31,3	29,4	27,4	23	17,9	
		9S-200/4	**9S-200/4T**	**9S/E-200/4T**	**9S/A-200/4T-304**			45,8			42,7	41,5	39,7	37,8	35,6	32,7	30,9	29	24,6	19,8	
	3,5	**9-250/5**	**9-250/5T**	-	**9/A-250/5T-306**	2,5	1,85	56,9			52,2	50,4	48,5	46,1	42,9	38,8	36,4	33,8	28,2	22,3	
		9S-250/5	**9S-250/5T**	-	**9S/A-250/5T-306**			57,1			53,1	51,6	49,5	47,2	44,3	40,6	38,4	35,8	30,2	24,4	

TARGET 2P		TYPE - 50 Hz HORIZONTAL PUMPS FIXED SPEED 2P	VARIABLE SPEED 2P - EPIC-A	P2 (×2)		2P Q (m³/h - l/min)												
						0	12	14	17	19	20	22	24	29	34	38	43	48
						0	200	240	280	320	340	360	400	480	560	640	720	800
m³/h	bar	3~ 400V	3~ 400V-in 3~ 400V-out	HP	kW	H (m)												
36	2	**18-250/3T**	**18/A-250/3T-306**	2,5	1,85	34,7	32,9	32,6	32,2	31,6	31,3	31,0	30,1	28,0	24,7	20,6	15,9	10,7
		18S-250/3T	**18S/A-250/3T-306**			33,8	31,6	31,0	30,2	29,4	28,9	28,4	27,4	25,4	23,2	20,4	16,3	11,5
	3	**18-400/4T**	**18/A-400/4T-309**	4	3	47,1	45,4	45,2	44,9	44,3	44,0	43,6	42,6	40,0	36,0	30,6	24,6	17,8
		18S-400/4T	**18S/A-400/4T-309**			46,3	44,2	43,4	42,5	41,4	40,9	40,3	39,1	36,7	34,1	30,8	25,6	19,0

PERFORMANCE 2P/3P VERTICAL

TARGET		TYPE - 50 Hz						P2		2P - Q (m³/h - l/min)							
		VERTICAL PUMPS						2P (×2) 3P (×3)		0	3,6	4,8	7,2	9,6	12	14,4	16,8
										0	60	80	120	160	200	240	280
		FIXED SPEED		VARIABLE SPEED						3P - Q (m³/h - l/min)							
		2P/3P		2P EPIC	2P/3P EPIC-A	2P/3P IPFC				0	5,4	7,2	10,8	14,4	18	21,6	25,2
										0	90	120	180	240	300	360	420
m³/h	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 400V-out	3~ 400V-in 3~ 400V-out	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)							
(2P) 6 (3P) 9	3	3V-100/5	3V-100/5T	3V/E-100/5T	3V/A-100/5T-304	3V/I-100/5T-109	3V/I-100/5T-306	1	0,75	52,2	40,8	36	25,4	14			
		3L-100/5	3L-100/5T	3L/E-100/5T	3L/A-100/5T-304	3L/I-100/5T-109	3L/I-100/5T-306										
		3SV-100/5	3SV-100/5T	3SV/E-100/5T	3SV/A-100/5T-304	3SV/I-100/5T-109	3SV/I-100/5T-306			55,3	46,5	42,1	31,6	17,7			
		3SL-100/5	3SL-100/5T	3SL/E-100/5T	3SL/A-100/5T-304	3SL/I-100/5T-109	3SL/I-100/5T-306										
	4	3V-120/6	3V-120/6T	3V/E-120/6T	3V/A-120/6T-304	3V/I-120/6T-109	3V/I-120/6T-306	1,2	0,9	62,8	49,6	43,9	32,1	18,3			
		3L-120/6	3L-120/6T	3L/E-120/6T	3L/A-120/6T-304	3L/I-120/6T-109	3L/I-120/6T-306										
		3SV-120/6	3SV-120/6T	3SV/E-120/6T	3SV/A-120/6T-304	3SV/I-120/6T-109	3SV/I-120/6T-306			66,6	56	50,7	38,1	22,4			
		3SL-120/6	3SL-120/6T	3SL/E-120/6T	3SL/A-120/6T-304	3SL/I-120/6T-109	3SL/I-120/6T-306										
	5	3V-150/7	3V-150/7T	3V/E-150/7T	3V/A-150/7T-304	3V/I-150/7T-109	3V/I-150/7T-306	1,5	1,1	77,1	68,4	62,3	46,5	25,7			
		3L-150/7	3L-150/7T	3L/E-150/7T	3L/A-150/7T-304	3L/I-150/7T-109	3L/I-150/7T-306										
		3SV-150/7	3SV-150/7T	3SV/E-150/7T	3SV/A-150/7T-304	3SV/I-150/7T-109	3SV/I-150/7T-306			75,6	64,8	58,9	44,4	26,1			
		3SL-150/7	3SL-150/7T	3SL/E-150/7T	3SL/A-150/7T-304	3SL/I-150/7T-109	3SL/I-150/7T-306										
	6	3V-180/8	3V-180/8T	3V/E-180/8T	3V/A-180/8T-304	3V/I-180/8T-109	3V/I-180/8T-306	2	1,5	88,1	77,6	70,2	51,3	26			
		3L-180/8	3L-180/8T	3L/E-180/8T	3L/A-180/8T-304	3L/I-180/8T-109	3L/I-180/8T-306										
		3SV-180/8	3SV-180/8T	3SV/E-180/8T	3SV/A-180/8T-304	3SV/I-180/8T-109	3SV/I-180/8T-306			86,7	73,9	67,3	51	29,9			
		3SL-180/8	3SL-180/8T	3SL/E-180/8T	3SL/A-180/8T-304	3SL/I-180/8T-109	3SL/I-180/8T-306										
	7	3V-200/9	3V-200/9T	3V/E-200/9T	3V/A-200/9T-304	3V/I-200/9T-109	3V/I-200/9T-306	2	15	98,8	87,3	79,4	60	32,2			
		3L-200/9	3L-200/9T	3L/E-200/9T	3L/A-200/9T-304	3L/I-200/9T-109	3L/I-200/9T-306										
		3SV-200/9	3SV-200/9T	3SV/E-200/9T	3SV/A-200/9T-304	3SV/I-200/9T-109	3SV/I-200/9T-306			97	82,5	74,7	56,4	32,9			
		3SL-200/9	3SL-200/9T	3SL/E-200/9T	3SL/A-200/9T-304	3SL/I-200/9T-109	3SL/I-200/9T-306										
	8	3V-250/10	3V-250/10T	3V/E-250/10T	3V/A-250/10T-306	3V/I-250/10T-114	3V/I-250/10T-306	2	15	109,3	96,3	87,5	65,3	34,5			
		3L-250/10	3L-250/10T	3L/E-250/10T	3L/A-250/10T-306	3L/I-250/10T-114	3L/I-250/10T-306										
		3SV-250/10	3SV-250/10T	3SV/E-250/10T	3SV/A-250/10T-306	3SV/I-250/10T-114	3SV/I-250/10T-306			107,2	90,5	82	61,5	35,6			
		3SL-250/10	3SL-250/10T	3SL/E-250/10T	3SL/A-250/10T-306	3SL/I-250/10T-114	3SL/I-250/10T-306										
	9	3V-280/11	3V-280/11T	3V/E-280/11T	3V/A-280/11T-306	3V/I-280/11T-114	3V/I-280/11T-306	2,5	1,85	120,4	106,1	96,4	71,6	38,3			
		3L-280/11	3L-280/11T	3L/E-280/11T	3L/A-280/11T-306	3L/I-280/11T-114	3L/I-280/11T-306										
		3SV-280/11	3SV-280/11T	3SV/E-280/11T	3SV/A-280/11T-306	3SV/I-280/11T-114	3SV/I-280/11T-306			117,2	98,8	89,8	66,8	37,3			
		3SL-280/11	3SL-280/11T	3SL/E-280/11T	3SL/A-280/11T-306	3SL/I-280/11T-114	3SL/I-280/11T-306										
	10	3V-300/12	3V-300/12T	-	3V/A-300/12T-306	3V/I-300/12T-114	3V/I-300/12T-306	2,5	1,85	130,3	114,6	103,8	76,6	40,8			
		3L-300/12	3L-300/12T	-	3L/A-300/12T-306	3L/I-300/12T-114	3L/I-300/12T-306										
		3SV-300/12	3SV-300/12T	-	3SV/A-300/12T-306	3SV/I-300/12T-114	3SV/I-300/12T-306			126,4	106,1	95,9	71,7	40			
		3SL-300/12	3SL-300/12T	-	3SL/A-300/12T-306	3SL/I-300/12T-114	3SL/I-300/12T-306										
	12	-	3SLG-350/14T	-	3SLG/A-350/14T-306	3SLG/I-350/14T-114	3SLG/I-350/14T-306	3	2,2	154,8	133,7	122,5	97,4	58,2			
	14	-	3SLG-380/16T	-	3SLG/A-380/16T-309	3SLG/I-380/16T-114	3SLG/I-380/16T-309	4	3	177,5	154,5	141,3	109,4	67			
	15	-	3SLG-400/18T	-	3SLG/A-400/18T-309	-	3SLG/I-400/18T-309	4	3	195,1	172,8	158	122,1	75,3			
	16	-	3SLG-450/20T	-	3SLG/A-450/20T-309	-	3SLG/I-450/20T-309	4	3	218,3	187,4	171,4	131,5	81			
(2P) 10 (3P) 15	3	5V-120/4	5V-120/4T	5V/E-120/4T	5V/A-120/4T-304	5V/I-120/4T-109	5V/I-120/4T-306	1,2	0,9	45,3	41,3	39,6	35,6	30,8	24,9	17,6	6,4
		5L-120/4	5L-120/4T	5L/E-120/4T	5L/A-120/4T-304	5L/I-120/4T-109	5L/I-120/4T-306										
		5SV-120/4	5SV-120/4T	5SV/E-120/4T	5SV/A-120/4T-304	5SV/I-120/4T-109	5SV/I-120/4T-306			45,5	42,2	40,7	37,2	32,9	27,4	19,8	10,4
		5SL-120/4	5SL-120/4T	5SL/E-120/4T	5SL/A-120/4T-304	5SL/I-120/4T-109	5SL/I-120/4T-306										
	4	5V-150/5	5V-150/5T	5V/E-150/5T	5V/A-150/5T-304	5V/I-150/5T-109	5V/I-150/5T-306	1,5	1,1	57,6	55,6	54,2	50,5	45,0	37,0	27,4	
		5L-150/5	5L-150/5T	5L/E-150/5T	5L/A-150/5T-304	5L/I-150/5T-109	5L/I-150/5T-306										
		5SV-150/5	5SV-150/5T	5SV/E-150/5T	5SV/A-150/5T-304	5SV/I-150/5T-109	5SV/I-150/5T-306			55,9	52,8	51,4	48,1	43,4	37,3	28,3	16,4
		5SL-150/5	5SL-150/5T	5SL/E-150/5T	5SL/A-150/5T-304	5SL/I-150/5T-109	5SL/I-150/5T-306										
	5	5V-180/6	5V-180/6T	5V/E-180/6T	5V/A-180/6T-304	5V/I-180/6T-109	5V/I-180/6T-306	2	1,5	69,1	66,5	64,8	60,1	53,2	43,8	32,0	
		5L-180/6	5L-180/6T	5L/E-180/6T	5L/A-180/6T-304	5L/I-180/6T-109	5L/I-180/6T-306										
		5SV-180/6	5SV-180/6T	5SV/E-180/6T	5SV/A-180/6T-304	5SV/I-180/6T-109	5SV/I-180/6T-306			67	63,3	61,6	57,6	51,9	44,2	33,6	20,4
		5SL-180/6	5SL-180/6T	5SL/E-180/6T	5SL/A-180/6T-304	5SL/I-180/6T-109	5SL/I-180/6T-306										
	5,5	5V-200/7	5V-200/7T	5V/E-200/7T	5V/A-200/7T-304	5V/I-200/7T-109	5V/I-200/7T-306	2	15	80,6	77,1	75,1	69,6	61,3	50,4	35,8	
		5L-200/7	5L-200/7T	5L/E-200/7T	5L/A-200/7T-304	5L/I-200/7T-109	5L/I-200/7T-306										
		5SV-200/7	5SV-200/7T	5SV/E-200/7T	5SV/A-200/7T-304	5SV/I-200/7T-109	5SV/I-200/7T-306			77,8	73,5	71,3	66,3	59,6	50,7	38,0	22,4
		5SL-200/7	5SL-200/7T	5SL/E-200/7T	5SL/A-200/7T-304	5SL/I-200/7T-109	5SL/I-200/7T-306										
	6,5	5V-250/8	5V-250/8T	5V/E-250/8T	5V/A-250/8T-306	5V/I-250/8T-114	5V/I-250/8T-306	2,5	1,85	92	88,2	85,8	79,2	70,1	57,2	41,1	
		5L-250/8	5L-250/8T	5L/E-250/8T	5L/A-250/8T-306	5L/I-250/8T-114	5L/I-250/8T-306										
		5SV-250/8	5SV-250/8T	5SV/E-250/8T	5SV/A-250/8T-306	5SV/I-250/8T-114	5SV/I-250/8T-306			89,2	83,9	81,6	76,2	68,4	58,3	43,2	24,6
		5SL-250/8	5SL-250/8T	5SL/E-250/8T	5SL/A-250/8T-306	5SL/I-250/8T-114	5SL/I-250/8T-306										

PERFORMANCE 2P/3P VERTICAL

TARGET		TYPE - 50 Hz						P2		2P - Q (m³/h - l/min)								
		VERTICAL PUMPS						2P (×2) 3P (×3)		0	3,6	4,8	7,2	9,6	12	14,4	16,8	19,2
										0	60	80	120	160	200	240	280	320
		FIXED SPEED		VARIABLE SPEED						3P - Q (m³/h - l/min)								
		2P/3P		2P EPIC	2P/3P EPIC-A	2U/3U IPFC				0	5,4	7,2	10,8	14,4	18	21,6	25,2	28,8
										0	90	120	180	240	300	360	420	480
m³/h	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 400V-out	3~ 400V-in 3~ 400V-out	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)								
(2P) 10 (3P) 15	7	5V-280/9	5V-280/9T	-	5V/A-280/9T-306	5V/I-280/9T-114	5V/I-280/9T-306	2,5	1,85	103,3	98,9	96,2	88,8	78,4	64,1	45,3		
		5L-280/9	5L-280/9T	-	5L/A-280/9T-306	5L/I-280/9T-114	5L/I-280/9T-306											
		5SV-280/9	5SV-280/9T	-	5SV/A-280/9T-306	5SV/I-280/9T-114	5SV/I-280/9T-306			99,7	93,7	90,9	84,1	75,2	61,1	47,4	25,9	
		5SL-280/9	5SL-280/9T	-	5SL/A-280/9T-306	5SL/I-280/9T-114	5SL/I-280/9T-306											
	8	5V-300/10	5V-300/10T	-	5V/A-300/10T-306	5V/I-300/10T-114	5V/I-300/10T-306	3	2,2	115,1	110,6	107,6	99,5	87,6	72,1	50,7		
		5L-300/10	5L-300/10T	-	5L/A-300/10T-306	5L/I-300/10T-114	5L/I-300/10T-306											
		5SV-300/10	5SV-300/10T	-	5SV/A-300/10T-306	5SV/I-300/10T-114	5SV/I-300/10T-306			112,2	105,4	102,4	95,3	85,6	72,6	54,8	31,0	
		5SL-300/10	5SL-300/10T	-	5SL/A-300/10T-306	5SL/I-300/10T-114	5SL/I-300/10T-306											
	9	-	5V-350/11T	-	5V/A-350/11T-306	5V/I-350/11T-114	5V/I-350/11T-306	3,5	2,57	127,6	122,5	119,4	110,8	98,0	80,8	57,4		
		-	5L-350/11T	-	5L/A-350/11T-306	5L/I-350/11T-114	5L/I-350/11T-306											
		-	5SV-350/11T	-	5SV/A-350/11T-306	5SV/I-350/11T-114	5SV/I-350/11T-306			125,1	117,6	114,3	106,1	95,5	80,9	60,9	34,8	
		-	5SL-350/11T	-	5SL/A-350/11T-306	5SL/I-350/11T-114	5SL/I-350/11T-306											
	10	-	5V-380/12T	-	5V/A-380/12T-309	-	5V/I-380/12T-309	4	3	140,3	135,4	132,1	123,2	109,5	90,1	66,5		
		-	5L-380/12T	-	5L/A-380/12T-309	-	5L/I-380/12T-309											
		-	5SV-380/12T	-	5SV/A-380/12T-309	-	5SV/I-380/12T-309			135,7	128,9	125,6	117,7	106,3	91,3	70,2	41,5	
		-	5SL-380/12T	-	5SL/A-380/12T-309	-	5SL/I-380/12T-309											
	12	-	5SLG-400/14T	-	5SLG/A-400/14T-309	-	5SLG/I-400/14T-309	4	3	159,2	150,7	146,7	136,6	122,9	105,5	79,0		
	14	-	5SLG-450/16T	-	5SLG/A-450/16T-309	-	5SLG/I-450/16T-309	5,5	4	182,0	173,2	169,1	158,0	142,9	122,9	93,6		
	16	-	5SLG-550/18T	-	-	-	5SLG/I-550/18T-311	5,5	4	204,4	194,4	189,5	176,5	159,6	136,3	103,2		
	18	-	5SLG-600/20T	-	-	-	5SLG/I-600/20T-311	5,5	4	226,7	215,5	210,0	195,5	176,3	151,1	114,5		
(2P) 14 (3P) 21	3	7V-180/4	7V-180/4T	7V/E-180/4T	7V/A-180/4T-304	7V/I-180/4T-109	7V/I-180/4T-306	2	1,5	49,6		48,4	46,7	43,8	39,9	34,9	28,9	
		7L-180/4	7L-180/4T	7L/E-180/4T	7L/A-180/4T-304	7L/I-180/4T-109	7L/I-180/4T-306											
		7SV-180/4	7SV-180/4T	7SV/E-180/4T	7SV/A-180/4T-304	7SV/I-180/4T-109	7SV/I-180/4T-306			46,7		46,0	45,2	43,1	40,3	36,9	32,3	25,5
		7SL-180/4	7SL-180/4T	7SL/E-180/4T	7SL/A-180/4T-304	7SL/I-180/4T-109	7SL/I-180/4T-306											
	4	7V-250/5	7V-250/5T	7V/E-250/5T	7V/A-250/5T-306	7V/I-250/5T-114	7V/I-250/5T-306	2,5	1,85	63,2		62,1	60,3	56,9	52,1	46,2	39,0	
		7L-250/5	7L-250/5T	7L/E-250/5T	7L/A-250/5T-306	7L/I-250/5T-114	7L/I-250/5T-306											
		7SV-250/5	7SV-250/5T	7SV/E-250/5T	7SV/A-250/5T-306	7SV/I-250/5T-114	7SV/I-250/5T-306			58,5		57,6	56,6	54,1	50,8	46,1	40,3	31,8
		7SL-250/5	7SL-250/5T	7SL/E-250/5T	7SL/A-250/5T-306	7SL/I-250/5T-114	7SL/I-250/5T-306											
	5	7V-300/6	7V-300/6T	-	7V/A-300/6T-306	7V/I-300/6T-114	7V/I-300/6T-306	3	2,2	76,0		75,1	73,1	69,2	63,6	56,8	48,2	
		7L-300/6	7L-300/6T	-	7L/A-300/6T-306	7L/I-300/6T-114	7L/I-300/6T-306											
		7SV-300/6	7SV-300/6T	-	7SV/A-300/6T-306	7SV/I-300/6T-114	7SV/I-300/6T-306			70,6		69,9	68,7	65,8	61,8	56,6	49,7	39,3
		7SL-300/6	7SL-300/6T	-	7SL/A-300/6T-306	7SL/I-300/6T-114	7SL/I-300/6T-306											
	6	-	7V-350/7T	-	7V/A-350/7T-306	7V/I-350/7T-114	7V/I-350/7T-306	3,5	2,57	89,0		88,0	85,8	81,2	74,5	66,3	56,2	
		-	7L-350/7T	-	7L/A-350/7T-306	7L/I-350/7T-114	7L/I-350/7T-306											
		-	7SV-350/7T	-	7SV/A-350/7T-306	7SV/I-350/7T-114	7SV/I-350/7T-306			82,8		82,0	80,6	77,2	72,3	66,0	57,4	46,4
		-	7SL-350/7T	-	7SL/A-350/7T-306	7SL/I-350/7T-114	7SL/I-350/7T-306											
	7	-	7V-400/8T	-	7V/A-400/8T-309	-	7V/I-400/8T-309	4	3	102,3		101,0	98,2	92,4	84,4	74,6	62,4	
		-	7L-400/8T	-	7L/A-400/8T-309	-	7L/I-400/8T-309											
		-	7SV-400/8T	-	7SV/A-400/8T-309	-	7SV/I-400/8T-309			94,8		94,3	92,5	88,6	83,2	76,4	66,2	52,6
		-	7SL-400/8T	-	7SL/A-400/8T-309	-	7SL/I-400/8T-309											
	8	-	7V-450/9T	-	7V/A-450/9T-309	-	7V/I-450/9T-309	4,5	3,37	115,2		114,4	111,4	105,6	97,1	86,3	73,1	
		-	7L-450/9T	-	7L/A-450/9T-309	-	7L/I-450/9T-309											
		-	7SV-450/9T	-	7SV/A-450/9T-309	-	7SV/I-450/9T-309			107,4		106,9	105,2	101,1	95,3	87,7	76,3	61,0
		-	7SL-450/9T	-	7SL/A-450/9T-309	-	7SL/I-450/9T-309											
	9	-	7V-550/10T	-	7V/A-550/10T-309	-	7V/I-550/10T-309	5,5	4	128,1		128,0	124,9	118,7	109,4	97,6	83,0	
		-	7L-550/10T	-	7L/A-550/10T-309	-	7L/I-550/10T-309											
		-	7SV-550/10T	-	7SV/A-550/10T-309	-	7SV/I-550/10T-309			119,8		119,6	118,4	113,9	107,7	99,4	87,0	70,4
		-	7SL-550/10T	-	7SL/A-550/10T-309	-	7SL/I-550/10T-309											
	11	-	7SLG-750/12T	-	-	-	7SLG/I-750/12T-311	7,5	5,5	143,7		143,7	142,6	137,0	129,6	119,8	105,6	87,0
	13	-	7SLG-800/14T	-	-	-	7SLG/I-800/14T-314	7,5	5,5	167,6		167,3	165,9	159,6	151,0	139,5	122,6	100,3
	15	-	7SLG-900/16T	-	-	-	7SLG/I-900/16T-314	7,5	5,5	191,5		191,2	189,3	181,7	171,5	157,7	137,6	111,1
	17	-	7SLG-950/18T	-	-	-	7SLG/I-950/18T-314	10	7,5	215,5		215,7	213,9	205,8	194,7	179,8	159,0	132,3
	19	-	7SLG-1000/20T	-	-	-	7SLG/I-1000/20T-318	10	7,5	240,3		240,2	238,4	229,3	216,8	200,3	177,3	147,7

PERFORMANCE 2P/3P VERTICAL

TARGET		TYPE - 50 Hz						P2		2P - Q (m³/h - l/min)									
		VERTICAL PUMPS						2P (×2) 3P (×3)		0	12	14,4	16,8	19,2	20,4	21,6	24	28,8
										0	200	240	280	320	340	360	400	480
		FIXED SPEED		VARIABLE SPEED						3P - Q (m³/h - l/min)								
		2P/3P		2P EPIC	2P/3P EPIC-A	2P/3P IPFC				0	18	21,6	25,2	28,8	30,6	32,4	36	43,2
										0	300	360	420	480	510	540	600	720
m³/h	bar	1~ 230V	3~ 400V	1~ 230V-in 3~ 400V-out	3~ 400V-in 3~ 400V-out	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)									
(2P) 18 (3P) 27	3	9V-200/4	9V-200/4T	9V/E-200/4T	9V/A-200/4T-304	9V/I-200/4T-109	9V/I-200/4T-306	2	1,5	45,8	39,2	37,3	34,6	31,3	29,4	27,4	23,0	17,9
		9L-200/4	9L-200/4T	9L/E-200/4T	9L/A-200/4T-304	9L/I-200/4T-109	9L/I-200/4T-306											
		9SV-200/4	9SV-200/4T	9SV/E-200/4T	9SV/A-200/4T-304	9SV/I-200/4T-109	9SV/I-200/4T-306			45,8	39,7	37,8	35,6	32,7	30,9	29,0	24,6	19,8
		9SL-200/4	9SL-200/4T	9SL/E-200/4T	9SL/A-200/4T-304	9SL/I-200/4T-109	9SL/I-200/4T-306											
	3,5	9V-250/5	9V-250/5T	-	9V/A-250/5T-306	9V/I-250/5T-114	9V/I-250/5T-306	2,5	1,85	56,9	48,5	46,1	42,9	38,8	36,4	33,8	28,2	22,3
		9L-250/5	9L-250/5T	-	9L/A-250/5T-306	9L/I-250/5T-114	9L/I-250/5T-306											
		9SV-250/5	9SV-250/5T	-	9SV/A-250/5T-306	9SV/I-250/5T-114	9SV/I-250/5T-306			57,1	49,5	47,2	44,3	40,6	38,4	35,8	30,2	24,4
		9SL-250/5	9SL-250/5T	-	9SL/A-250/5T-306	9SL/I-250/5T-114	9SL/I-250/5T-306											
	4	9V-300/6	9V-300/6T	-	9V/A-300/6T-306	9V/I-300/6T-114	9V/I-300/6T-306	3	2,2	69,8	60,3	57,5	53,6	48,8	46,0	42,9	36,4	29,6
		9L-300/6	9L-300/6T	-	9L/A-300/6T-306	9L/I-300/6T-114	9L/I-300/6T-306											
		9SV-300/6	9SV-300/6T	-	9SV/A-300/6T-306	9SV/I-300/6T-114	9SV/I-300/6T-306			69,4	60,3	57,3	54,0	49,8	46,9	43,6	36,2	28,1
		9SL-300/6	9SL-300/6T	-	9SL/A-300/6T-306	9SL/I-300/6T-114	9SL/I-300/6T-306											
	5,5	-	9V-400/7T	-	9V/A-400/7T-309	-	9V/I-400/7T-309	4	3	83,3	72,7	68,9	64,2	58,5	55,2	51,6	43,6	34,7
		-	9L-400/7T	-	9L/A-400/7T-309	-	9L/I-400/7T-309											
		-	9SV-400/7T	-	9SV/A-400/7T-309	-	9SV/I-400/7T-309			82,0	72,0	68,7	64,9	59,9	56,6	52,9	44,2	33,9
		-	9SL-400/7T	-	9SL/A-400/7T-309	-	9SL/I-400/7T-309											
	6,5	-	9V-450/8T	-	9V/A-450/8T-309	-	9V/I-450/8T-309	4,5	3,37	96,7	84,8	80,6	75,5	69,2	65,4	61,3	52,2	42,1
		-	9L-450/8T	-	9L/A-450/8T-309	-	9L/I-450/8T-309											
		-	9SV-450/8T	-	9SV/A-450/8T-309	-	9SV/I-450/8T-309			93,5	82,6	79,0	74,9	69,5	65,8	61,5	52,0	41,7
		-	9SL-450/8T	-	9SL/A-450/8T-309	-	9SL/I-450/8T-309											
	7	-	9V-500/9T	-	9V/A-500/9T-309	-	9V/I-500/9T-309	4,5	3,37	107,1	92,8	88,3	82,4	75,2	71,0	66,4	56,4	45,2
		-	9L-500/9T	-	9L/A-500/9T-309	-	9L/I-500/9T-309											
		-	9SV-500/9T	-	9SV/A-500/9T-309	-	9SV/I-500/9T-309			105,4	92,5	88,3	83,5	77,3	73,0	68,1	57,5	46,9
		-	9SL-500/9T	-	9SL/A-500/9T-309	-	9SL/I-500/9T-309											
	8	-	9V-550/10T	-	9V/A-550/10T-309	-	9V/I-550/10T-309	5,5	4	119,5	104,3	99,3	92,7	84,6	79,9	74,8	63,5	51,2
		-	9L-550/10T	-	9L/A-550/10T-309	-	9L/I-550/10T-309											
		-	9SV-550/10T	-	-	-	9SV/I-550/10T-311			117,6	104,5	99,9	94,7	87,8	83,2	77,9	66,2	53,4
		-	9SL-550/10T	-	-	-	9SL/I-550/10T-311											
	10	-	9SLG-750/12T	-	-	-	9SLG/I-750/12T-314	7,5	5,5	141,3	125,4	119,7	113,4	105,1	99,7	93,7	79,6	
	12	-	9SLG-800/14T	-	-	-	9SLG/I-800/14T-314	7,5	5,5	165,5	146,5	139,9	132,7	123,4	117,3	110,3	94,0	
	13	-	9SLG-900/16T	-	-	-	9SLG/I-900/16T-318	10	7,5	188,7	167,1	159,7	151,4	140,4	133,3	125,1	106,2	
	15	-	9SLG-950/9T	-	-	-	9SLG/I-950/9T-318	10	7,5	213,8	189,6	181,2	172,0	159,9	151,8	142,5	121,0	
	17	-	9SLG-1000/20T	-	-	-	9SLG/I-1000/20T-318	10	7,5	236,7	209,3	199,8	189,5	176,1	167,3	157,5	134,5	

TARGET		TYPE - 50 Hz				P2		2P - Q (m³/h - l/min)													
		VERTICAL PUMPS						2P (×2) 3P (×3)		0	12	14,4	16,8	19,2	20,4	21,6	24	28,8	33,6	38,4	43,2	48
										0	200	240	280	320	340	360	400	480	560	640	720	800
		FIXED SPEED	VARIABLE SPEED							3P - Q (m³/h - l/min)												
		2P/3P	2P/3P EPIC-A	2P/3P IPFC						0	18	21,6	25,2	28,8	30,6	32,4	36	43,2	50,4	57,6	64,8	72
										0	300	360	420	480	510	540	600	720	840	960	1080	1200
m³/h	bar	3~ 400V	3~ 400V-in 3~ 400V-out	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)													
(2P) 36 (3P) 54	2	18V-250/3T	18V/A-250/3T-306	18V/I-250/3T-114	18V/I-250/3T-306	2,5	1,85	34,7	32,9	32,6	32,2	31,6	31,3	31,0	30,1	28,0	24,7	20,6	15,9	10,7
		18L-250/3T	18L/A-250/3T-306	18L/I-250/3T-114	18L/I-250/3T-306																
		18SV-250/3T	18SV/A-250/3T-306	18SV/I-250/3T-114	18SV/I-250/3T-306			33,8	31,6	31,0	30,2	29,4	28,9	28,4	27,4	25,4	23,2	20,4	16,3	11,5	
		18SL-250/3T	18SL/A-250/3T-306	18SL/I-250/3T-114	18SL/I-250/3T-306																
	2,5	18HX-300/3T	-	18HX/I-300/3T-114	18HX/I-300/3T-306	3	2,2	41,2			37,1	36,3	35,9	35,5	34,4	32,3	28,9	24,8	19,4	13,5	
	3	18V-400/4T	18V/A-400/4T-309	-	18V/I-400/4T-309	4	3	47,1	45,4	45,2	44,9	44,3	44,0	43,6	42,6	40,0	36,0	30,6	24,6	17,8	
		18L-400/4T	18L/A-400/4T-309	-	18L/I-400/4T-309																
		18SV-400/4T	18SV/A-400/4T-309	-	18SV/I-400/4T-309			46,3	44,2	43,4	42,5	41,4	40,9	40,3	39,1	36,7	34,1	30,8	25,6	19,0	
		18SL-400/4T	18SL/A-400/4T-309	-	18SL/I-400/4T-309																
	3,5	18HX-400/4T	-	18HX/I-400/4T-114	18HX/I-400/4T-306	4	3	55,1			49,9	48,8	48,3	47,7	46,3	43,5	39,1	33,5	26,4	18,5	
	4	18V-450/5T	18V/A-450/5T-309	-	18V/I-450/5T-309	4,5	3,37	59,2	57,6	57,4	57,0	56,4	56,0	55,6	54,5	51,6	46,7	40,1	33,3	25,3	
		18L-450/5T	18L/A-450/5T-309	-	18L/I-450/5T-309																
		18SV-450/5T	18SV/A-450/5T-309	-	18SV/I-450/5T-309			58,1	55,7	54,6	53,4	52,1	51,4	50,7	49,3	46,3	42,9	38,7	32,2	24,0	
		18SL-450/5T	18SL/A-450/5T-309	-	18SL/I-450/5T-309																
	4,5	18HX-550/5T	-	-	18HX/I-550/5T-309	5,5	4	72,3			64,3	63,1	62,4	61,7	60,1	56,6	51,8	45,1	36,8	27,6	

PERFORMANCE 2P/3P VERTICAL

TARGET		TYPE - 50 Hz			P2		2P - Q (m³/h - l/min)												
		VERTICAL PUMPS			2P (×2) 3P (×3)		0	12	14,4	16,8	19,2	20,4	21,6	24	28,8	33,6	38,4	43,2	48	56
							0	200	240	280	320	340	360	400	480	560	640	720	800	933
		FIXED SPEED	VARIABLE SPEED				3P - Q (m³/h - l/min)												
		2P/3P	2P/3P IPFC				0	18	21,6	25,2	28,8	30,6	32,4	36	43,2	50,4	57,6	64,8	72	84
							0	300	360	420	480	510	540	600	720	840	960	1080	1200	1400
m³/h	bar	3~ 400V	1~ 230V-in 3~ 230V-out	3~ 400V-in 3~ 400V-out	HP	kW	H (m)												
(2P) 36 (3P) 54	5	**18V-550/6T**	-	**18V/I-550/6T-311**	5,5	4	71,4	69,7	69,6	69,0	68,2	67,7	67,1	65,7	62,2	56,3	48,0	39,4	29,4	
		18L-550/6T	-	**18L/I-550/6T-311**																
		18SV-550/6T	-	**18SV/I-550/6T-311**			70,1	67,4	66,3	64,9	63,4	62,6	61,7	60,0	56,4	52,4	47,6	39,6	29,9	
		18SL-550/6T	-	**18SL/I-550/6T-311**																
	6	**18HX-750/6T**	-	**18HX/I-750/6T-311**	7,5	5,5	88,0			79,6	78,2	77,4	76,7	74,9	71,0	66,0	58,3	48,8	37,5	
	6,5	**18V-750/8T**	-	**18V/I-750/8T-314**	7,5	5,5	96,1	94,2	94,1	93,5	92,4	91,7	90,9	89,1	84,5	77,0	66,1	54,2	41,1	
		18L-750/8T	-	**18L/I-750/8T-314**																
		18SV-750/8T	-	**18SV/I-750/8T-314**			94,2	90,6	89,1	87,3	85,3	84,2	83,1	80,9	76,2	71,1	65,0	54,6	41,4	
		18SL-750/8T	-	**18SL/I-750/8T-314**																
	7	**18HX-750/7T**	-	**18HX/I-750/7T-311**	7,5	5,5	102,5			92,4	90,7	89,8	88,9	86,8	82,3	76,2	67,3	56,1	43,0	
	7,5	**18V-900/9T**	-	**18V/I-900/9T-318**	10	7,5	108,5	106,9	107,0	106,4	105,3	104,5	103,7	101,7	96,8	88,6	75,9	62,6	47,8	
		18L-900/9T	-	**18L/I-900/9T-318**																
		18SV-900/9T	-	**18SV/I-900/9T-318**			106,4	102,8	101,3	99,3	97,2	96,1	94,9	92,4	87,3	81,6	75,0	63,5	48,5	
		18SL-900/9T	-	**18SL/I-900/9T-318**																
	8	**18HX-1000/8T**	-	**18HX/I-1000/8T-314**	10	7,5	117,0			105,2	103,2	102,3	101,2	98,8	93,5	86,5	76,2	63,5	48,5	
	9	**18HX-1000/9T**	-	**18HX/I-1000/9T-314**	10	7,5	131,2			117,8	115,5	114,4	113,1	110,4	104,5	96,5	84,9	70,5	53,6	
	9,5	**18LG-920/10T**	-	**18LG/I-920/10T-318**	10	7,5	120,4	116,8	118,3	118,0	116,6	115,9	115,0	112,6	104,4	96,3	85,8	67,8		
	10	**18LG-1000/11T**	-	**18LG/I-1000/11T-318**	10	7,5	132,4	128,9	130,0	129,6	128,0	127,1	125,9	123,0	115,0	103,9	93,0	72,6		
(2P) 44 (3P) 66	3	**22HX-400/3T**	**22HX/I-400/3T-114**	**22HX/I-400/3T-306**	4	3	45,0					40,8	40,5	39,9	38,3	36,6	34,2	30,5	25,8	16,6
	4	**22HX-550/4T**	-	**22HX/I-550/4T-309**	5,5	4	62,2					55,5	55,1	54,2	52,4	50,2	47,3	42,7	36,8	25,2
	5	**22HX-750/5T**	-	**22HX/I-750/5T-311**	7,5	5,5	78,6					70,6	70,1	69,0	67,0	64,2	60,8	55,3	47,9	33,5
	6,5	**22HX-1000/6T**	-	**22HX/I-1000/6T-314**	10	7,5	94,2					86,0	85,3	84,1	81,7	79,2	76,8	63,6	52,8	42,0
	7,5	**22HX-1000/7T**	-	**22HX/I-1000/7T-318**	10	7,5	109,5					99,6	98,8	97,4	94,6	91,2	86,3	78,4	68,2	47,9

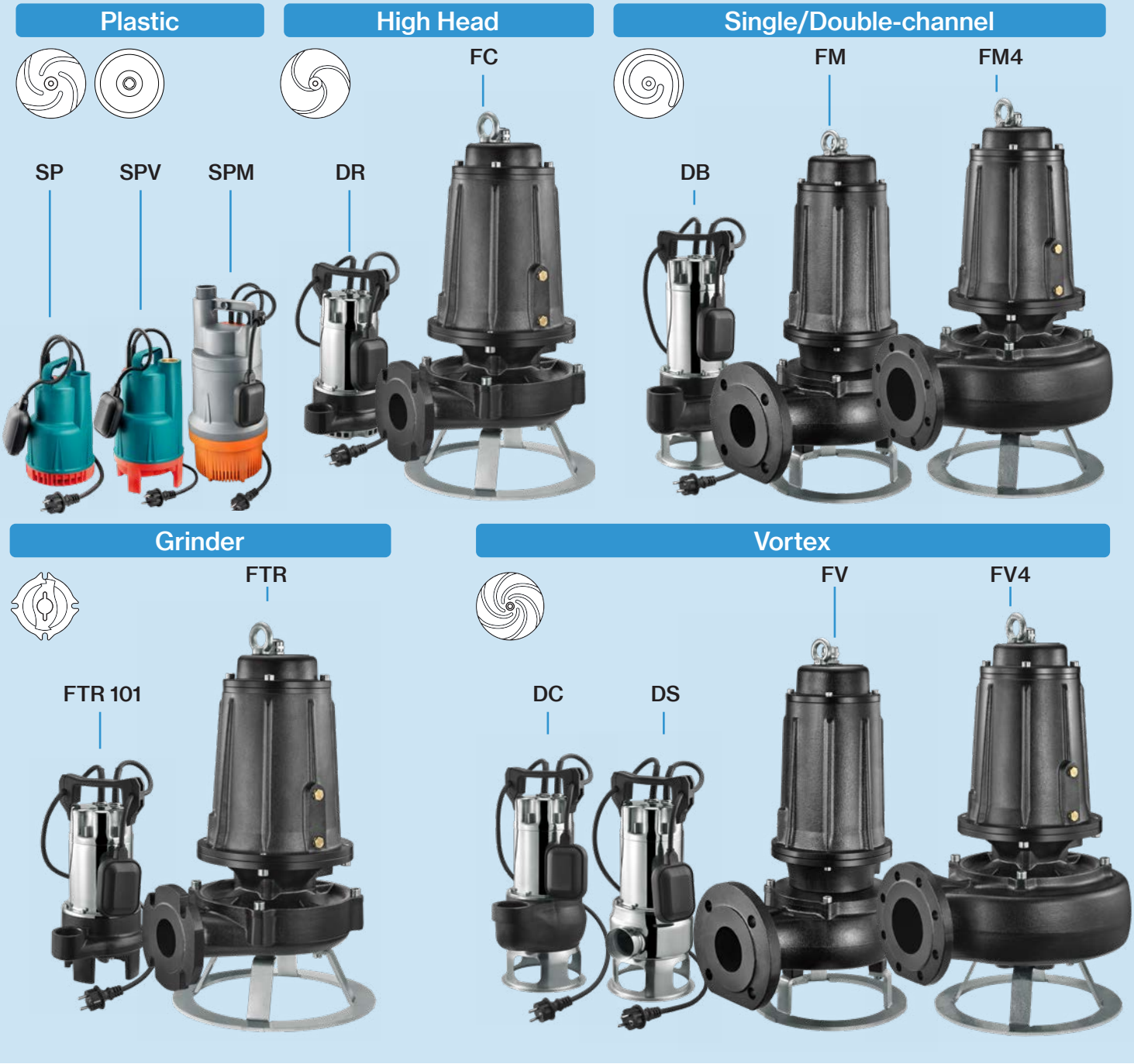
TARGET		TYPE - 50 Hz		P2		2P - Q (m³/h - l/min)													
		VERTICAL PUMPS		2P (×2) 3P (×3)		0	50	60	68	84	90	100	120	128	140	160	176	200	230
						0	833	1000	1133	1400	1500	1667	2000	2133	2333	2667	2933	3333	3833
		FIXED SPEED	VARIABLE SPEED			3P - Q (m³/h - l/min)													
		2P/3P	2P/3P IPFC			0	75	90	102	126	135	150	180	192	210	240	264	300	345
						0	1250	1500	1700	2100	2250	2500	3000	3200	3500	4000	4400	5000	5750
m³/h	bar	3~ 400V	3~ 400V-in 3~ 400V-out	HP	kW	H (m)													
(2P) 70 (3P) 105	3	**35HS-750/2T**	**35HS/I-750/2T-311**	7,5	5,5	48,5	39,6	36,9	34,4	27,2									
	4,5	**35HS-1000/3T**	**35HS/I-1000/3T-314**	10	7,5	72,2	58,2	54,2	50,3	39,5									
	5	**35HS-1000/4-2RT**	**35HS/I-1000/4-2RT-318**	10	7,5	85,1	68,6	63,9	58,4	44,7									
	6	**35HS-1500/4-1RT**	**35HS/I-1500/4-1RT-318**	15	11	92,8	75,3	70,2	65,2	50,8									
	7	**35HS-1500/4T**	**35HS/I-1500/4T-325**	15	11	99,4	81,0	76,3	71,8	58,5									
	8,5	**35HS-2000/5T**	**35HS/I-2000/5T-325**	20	15	121,1	99,3	93,1	87,4	70,0									
	10	**35HS-2000/6T**	**35HS/I-2000/6T-330**	20	15	145,6	119,3	111,9	105,0	84,2									
	11	**35HS-2000/7-1RT**	**35HS/I-2000/7-1RT-330**	20	15	163,3	132,3	123,2	114,0	89,1									
(2P) 100 (3P) 150	3	**50HS-1000/2T**	**50HS/I-1000/2T-318**	10	7,5	49,0			42,0	38,8	37,2	34,3	27,5	24,1					
	5	**50HS-1500/3T**	**50HS/I-1500/3T-325**	15	11	74,2			65,0	60,9	58,8	54,8	45,5	41,0					
	7	**50HS-2000/4T**	**50HS/I-2000/4T-330**	20	15	97,5			86,4	81,3	78,5	73,2	60,8	54,7					
	9	**50HS-2500/5T**	-	25	18,5	122,3			109,1	102,9	99,5	92,9	77,5	70,0					
	11	**50HS-3000/6T**	-	30	22	146,0			129,8	122,2	118,0	110,0	91,6	82,5					
(2P) 150 (3P) 225	3,5	**75HS-1500/2T**	**75HS/I-1500/2T-325**	15	11	59,3		51,2	49,9	47,5	46,8	45,5	43,2	42,0	39,9	35,3	30,8		
	6	**75HS-2500/3T**	-	25	18,5	89,6		77,6	75,6	72,0	70,9	69,0	65,7	63,9	60,7	53,9	47,2		
	8	**75HS-3000/4T**	-	30	22	111,8		100,8	99,2	95,8	94,5	92,4	88,4	86,3	82,3	73,3	62,9		
	10	**75HS-4000/5T**	-	40	30	142,4		129,2	127,1	123,0	121,5	119,0	114,1	111,5	106,9	96,3	84,6		
	11	**75HS-4000/6-2RT**	-	40	30	153,5		141,6	139,5	135,1	133,3	130,3	123,4	119,6	112,9	99,0	84,1		
(2P) 180 (3P) 270	2,5	**90HS-1500/2-2RT**	**90HS/I-1500/2-2RT-325**	15	11	49,6					42,4	41,3	39,0	38,1	36,6	33,2	29,4	22,7	11,7
	4	**90HS-2000/2T**	**90HS/I-2000/2T-330**	20	15	69,2					56,6	54,5	50,5	49,2	47,3	44,3	41,6	36,3	27,3
	6,5	**90HS-3000/3T**	-	30	22	92,4					82,6	80,6	76,7	75,3	73,2	69,4	65,5	57,8	45,2
	9	**90HS-4000/4T**	-	40	30	125,6					113,0	110,4	105,2	103,3	100,6	95,7	90,7	80,8	64,4
	11	**90HS-5000/5T**	-	50	37	156,6					140,7	137,4	130,9	128,6	125,2	119,1	112,8	100,3	79,8

DRAINAGE AND SEWAGE





DRAINAGE AND SEWAGE PUMPS



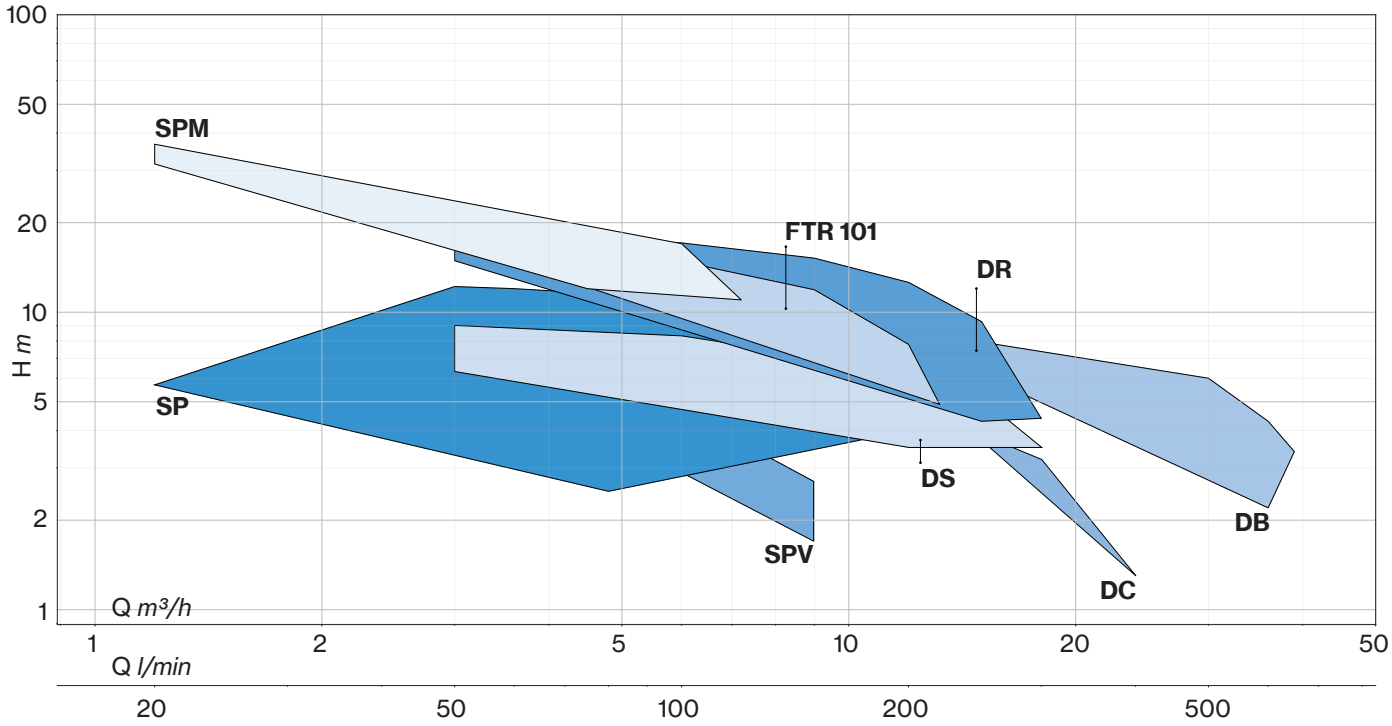
Different models available in relation to performance requirements: centrifugal, Vortex, single or double channels pumps suitable for clean water, sewage and slurry. Impeller with grinding system available.

Applications:

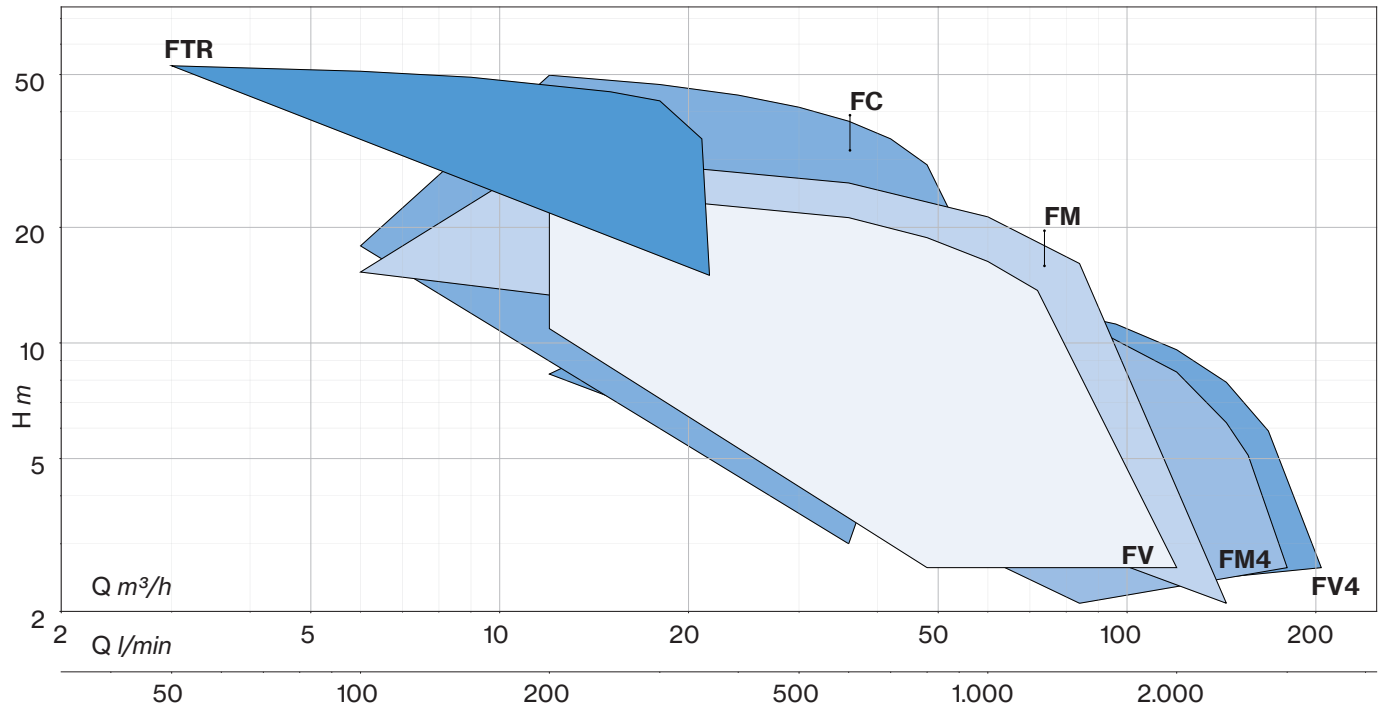
- Emptying of cisterns
- Fountains
- Swimming pools
- Draining of liquids from collection tanks and sumps

DRAINAGE AND SEWAGE PUMPS

Drainage



Sewage



SP/SPV



Drainage pumps for emptying pits and cisterns, for gardening; completely constructed in anticorrosive material. Brass insert on the delivery opening (SP 80/100 - SPV 80/100). The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.



SP 40
SP 80
SPV 80



SP 60
SP 100
SPV 100

White water

Construction features

Pump body	polypropylene
Impeller	Noryl®
Mechanical seal	double lip seal on ceramic bush
Motor shaft	stainless steel AISI 416 with ceramic bush
Free passage	Ø max 4 mm (SP 40/60) Ø max 7 mm (SP 80/100) Ø max 15 mm (SPV 80/100)
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H05 RN8F, 10 m (SP 40/60) H07 RN8F, 10 m (SP 80/100, SPV 80/100)
G	float switch

Motor

2 Poles induction motor	3~ 400V - 50Hz (SPV 80/100) 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
SP 40-60	80×120×175	135	80×120×205	162
SP 80÷100(T)	80×120×145	57	80×120×190	76
SPV 80÷100(T)	80×120×145	57	80×120×190	76

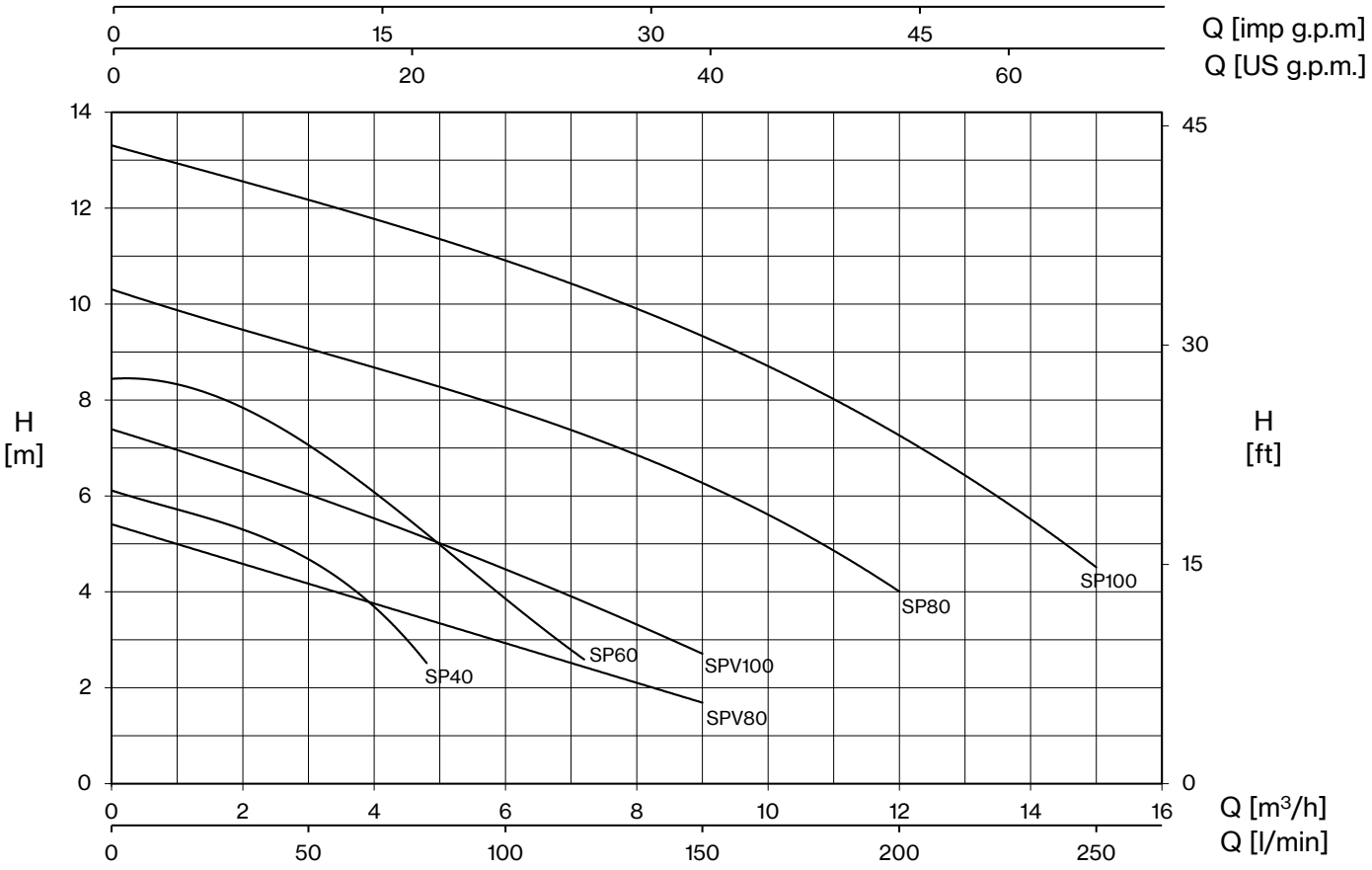
SPV 80 G

- **T** 3~
- 1~ without float switch
- **G** 1~ with float switch

pump type

SP

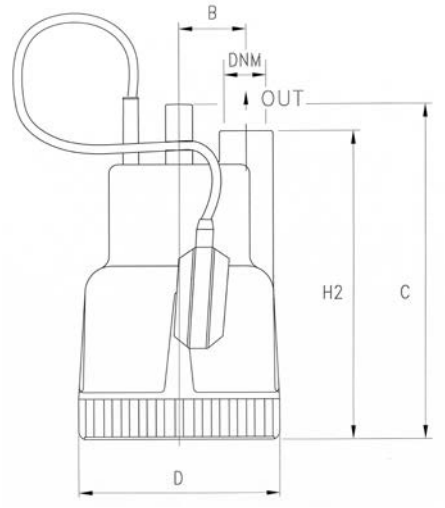
SPV



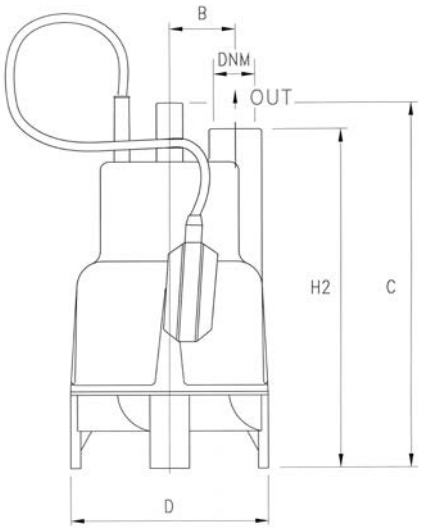
TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)										
1~	3~		1~ 230V	3~ 400V	0	1,2	2,4	3	3,6	4,8	6	7,2	9	12	15
					0	20	40	50	60	80	100	120	150	200	250
		kW	A		H (m)										
SP 40 (G)	-	0,2	1	-	6,1	5,7	5,0	4,7	4,2	2,5					
SP 60 (G)	-	0,4	2,1	-	8,5	8,1	7,6	7,2	6,7	5,0	3,9	2,6			
SP 80 (G)	**SP 80T**	0,8	3,7	1,8	10,3			9,1	8,8	8,3	7,8	7,3	6,3	4,0	
SP 100 (G)	**SP 100T**	1,05	5,1	2,3	13,3			12,2	12,0	11,5	10,9	10,3	9,3	7,3	4,5

TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)			
1~	3~		1~ 230V	3~ 400V	0	3	6	9
					0	50	100	150
		kW	A		H (m)			
SPV 80 (G)	**SPV 80T**	0,5	2,6	1,2	5,4	4,2	2,9	1,7
SPV 100 (G)	**SPV 100T**	0,75	3,8	1,7	7,4	5,8	4,7	2,7

SP/SPV



TYPE		DIMENSIONS (mm)								Kg
1~	3~	B	C	D	H2	DNM	I	L	M	
SP 40 (G)	**-**	50	250	150	230	1" G	170	200	320	5
SP 60 (G)	**-**	50	250	150	230	1" G	170	200	320	6,5
SP 80 (G)	**SP 80T**	55.5	296	176	276	1" ¼ G	185	230	310	8,5
SP 100 (G)	**SP 100T**	55.5	296	176	276	1" ¼ G	185	230	310	10



TYPE		DIMENSIONS (mm)								Kg
1~	3~	B	C	D	H2	DNM	I	L	M	
SPV 80 (G)	**SPV 80T**	55.5	331	176	310	1" ¼ G	185	230	345	8,5
SPV 100 (G)	**SPV 100T**	55.5	331	176	310	1" ¼ G	185	230	345	10

SPM



Multistage drainage pumps for clean water made of technopolymer, designed for pumping liquids from wells, tanks, and reservoirs, pressurising domestic systems, and irrigating gardens and vegetable plots.
The single-phase version includes a built-in capacitor and thermal protector, and can be equipped with a float switch. Suitable for installation with the Hidrotank flow controller. An expansion tank must be installed on the pump discharge line.





White water

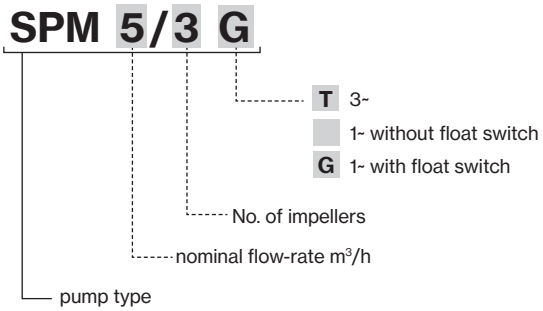
Construction features

Pump body	technopolymer
Impeller, diffusers	Noryl®
Shell, motor cover, base support	Noryl®
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, sealing ring on motor side
Motor shaft	stainless steel AISI 303
Max submergence	5 m
Liquid temperature	0 - 35 °C
Cable	H07 RN8F, 10 m
G	float switch

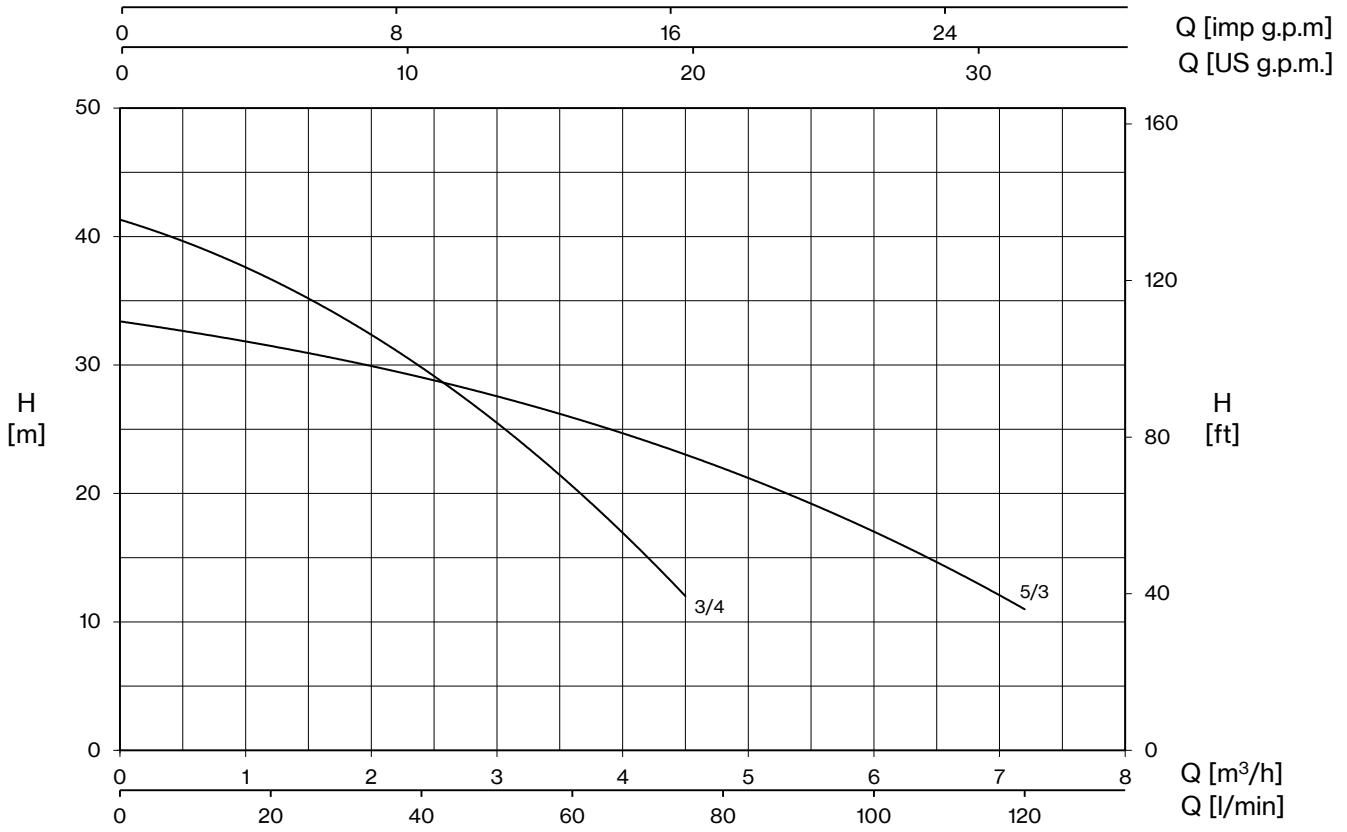
Motor

2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
SPM(T)	85×110×160	48	85×110×200	64

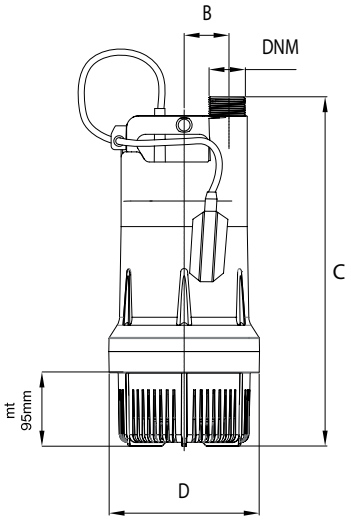


SPM



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)								
1~	3~		1~ 230V	3~ 400V	0	0,6	1,2	1,8	2,4	3,6	4,5	6	7,2
					0	10	20	30	40	60	75	100	120
		kW	A		H (m)								
SPM 5/3 (G)	**SPM 5/3T**	0,9	3,9	1,7	33,4	32,5	31,5	30,3	29,0	26,0	23,0	17,0	11,0
SPM 3/4 (G)	**SPM 3/4T**	0,8	3,4	1,6	41,3	39,3	36,7	33,5	29,8	20,6	12,0		

mt: minimum working level



TYPE		DIMENSIONS (mm)							Kg
1~	3~	B	C	D	DNM	I	L	M	
SPM 5/3 (G)	**SPM 5/3T**	56	454	196	1" ½	264	203	482	10
SPM 3/4 (G)	**SPM 3/4T**	56	454	196	1" ½	264	203	482	10,5

DR



Drainage pumps with open impeller for pumping liquids with suspended solids. Characterized by high head. The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.



White water

Construction features

Painting	cataphoresis
Pump body	cast iron
Shell, motor cover, base support	stainless steel
Impeller	brass
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, sealing ring on motor side
Motor shaft	stainless steel AISI 430
Free passage	Ø max 10 mm
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
G	float switch

Motor

2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

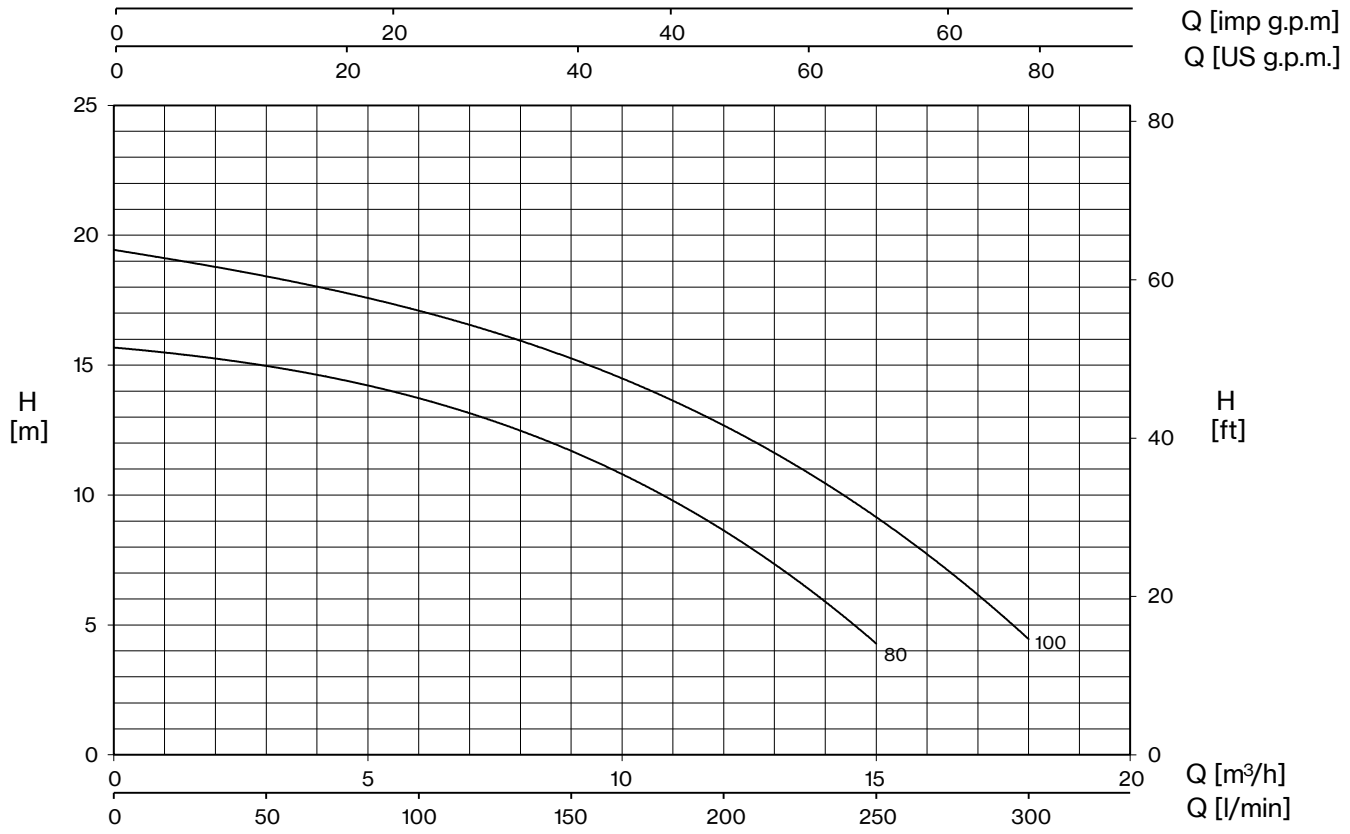
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DR(T)	80×120×125	57	80×120×165	76

DR 100 G

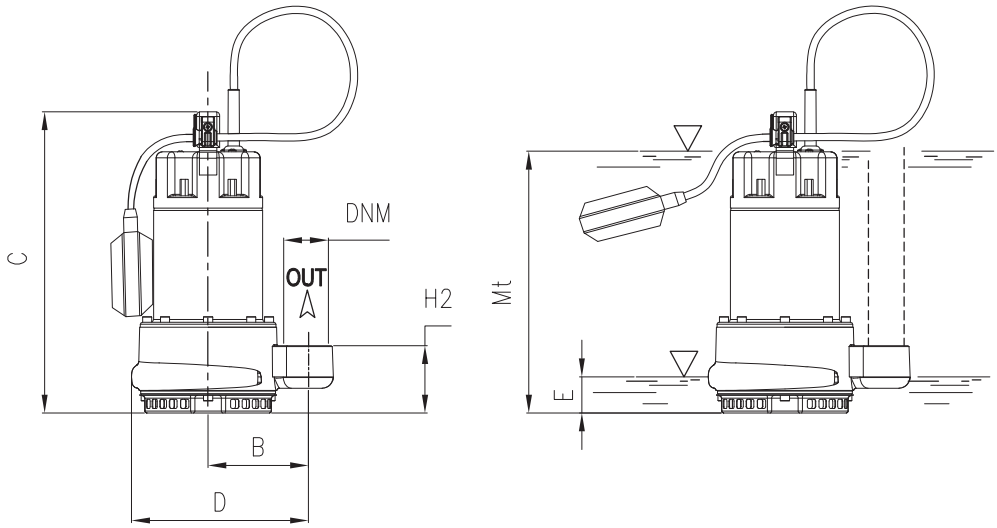
- **T** 3~
- 1~ without float switch
- **G** 1~ with float switch

pump type

DR



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)						
1~	3~		1~ 230V	3~ 400V	0	3	6	9	12	15	18
					0	50	100	150	200	250	300
		kW	A		H (m)						
DR 80 (G)	**DR 80T**	0,98	4,3	2,1	15,7	14,9	13,8	11,7	8,6	4,3	
DR 100 (G)	**DR 100T**	1,37	6,2	2,8	19,4	18,5	17,1	15,2	12,6	9,3	4,4



E: maximum emptying level
Mt: minimum liquid level for continuos duty

TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
DR 80 (G)	**DR 80T**	105	337	288	53	74	284	1" ½ G	180	255	380	14,5
DR 100 (G)	**DR 100T**	105	337	288	53	74	284		180	255	380	16

FC

FC 160-310



FC 410-1000 T



FC 410-1000 T/P



Centrifugal drainage high head pumps ideal for civil and industrial applications, specifically designed for very heavy use. Available in the mobile or permanent versions with coupling feet.



Grey water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Free passage	Ø max 10 mm
Max submergence	20 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

Motor

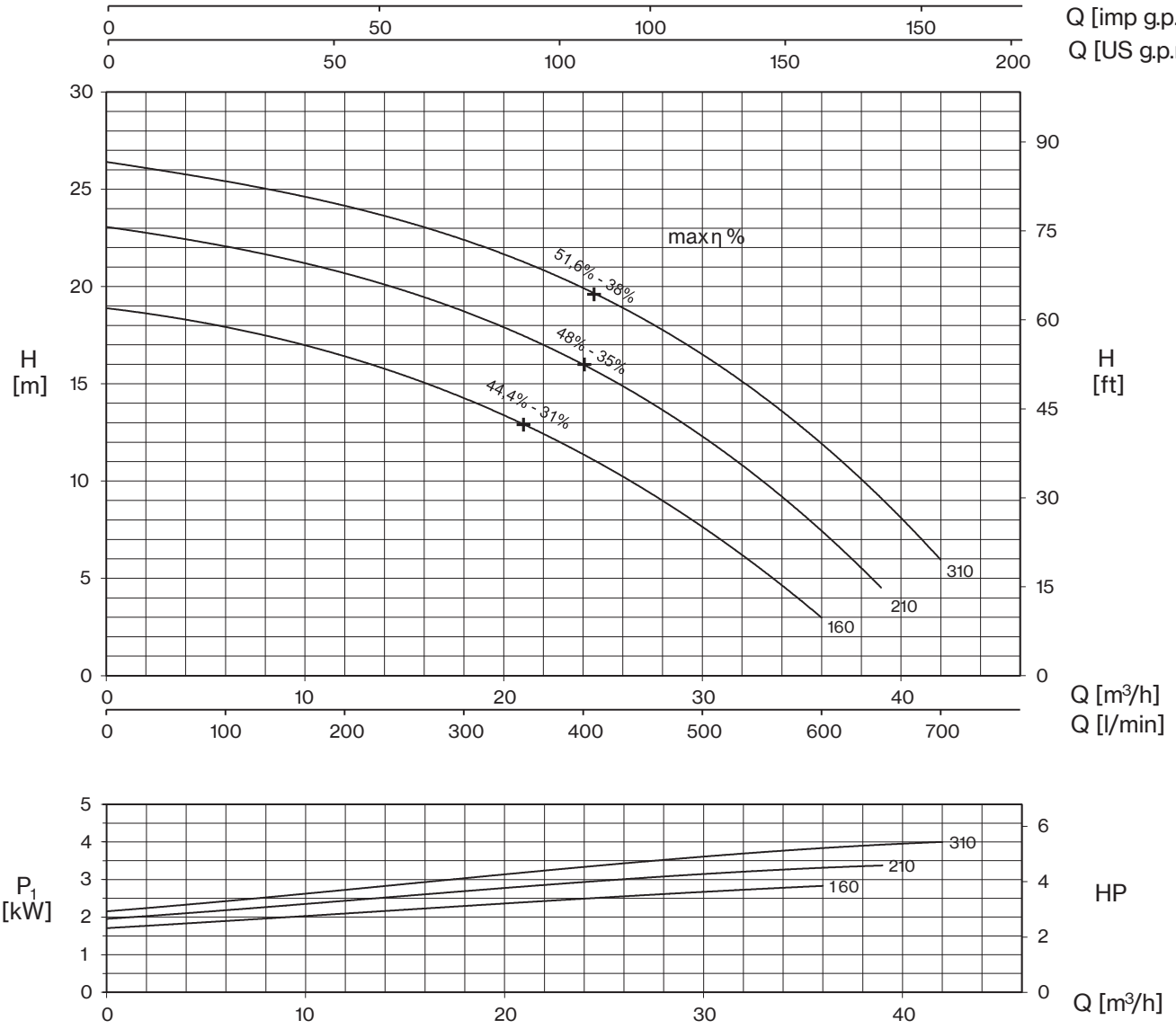
2 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz 1~ 230V-50Hz required run capacitor (35µF for 1,5HP model, 50µF for 2HP model)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FC 160÷310(T)	85×110×145	18	85×110×190	27
FC 410-560(T)	85×110×170	12	85×110×170	12
FC 750-1000(T)	100×120190	12	100×120×190	12

FC 560 T -CF

- pump type
- motor: 1~ / **T** 3~
- counter-flange: not included / **CF** included

FC



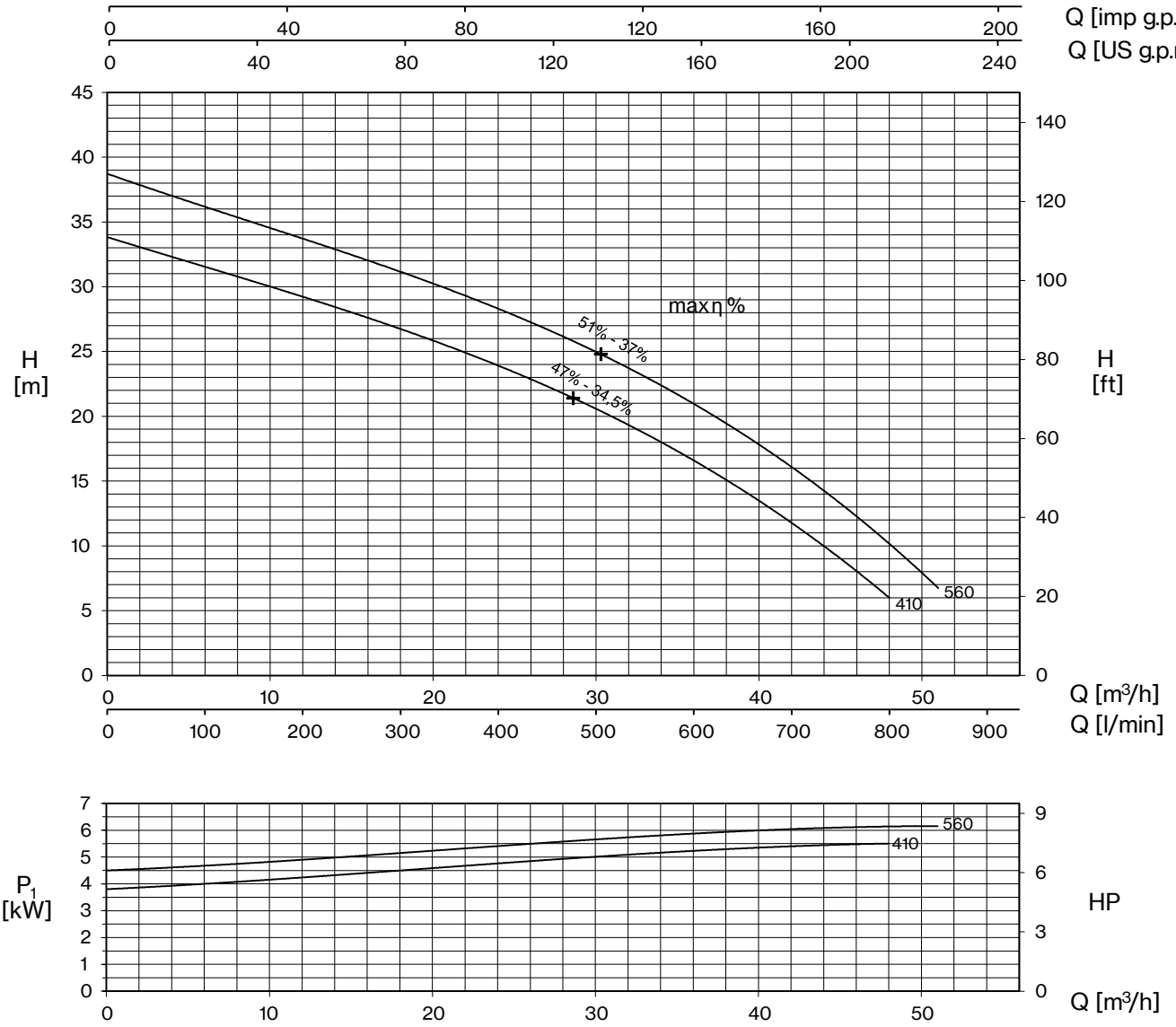
TYPE - 50 Hz		CURRENT				
1~	3~	1~ 230 V	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FC 160	**FC 160T**	13,8	8,3	4,8	-	-
FC 210	**FC 210T**	16,5	10,2	5,9	-	-
-	**FC 310T**	-	12,0	6,9	-	-

(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz		P2		P1		Q (m³/h - l/min)								
1~	3~			1~	3~	0	6	12	18	24	30	36	39	42
						0	100	200	300	400	500	600	650	700
		HP	kW	kW		H (m)								
FC 160	**FC 160T**	1,5	1,1	3,0	2,8	18,9	17,9	16,4	14,3	11,4	7,6	3,0		
FC 210	**FC 210T**	2	1,5	3,7	3,4	23,0	22,2	20,7	18,6	15,9	12,5	7,4	4,5	
-	**FC 310T**	3	2,2	-	4,0	26,4	25,4	24,2	22,4	19,9	16,4	12,1	9,1	5,9



TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FC 410T	15,4	8,9	-	-
FC 560T	17,6	10,2	-	-

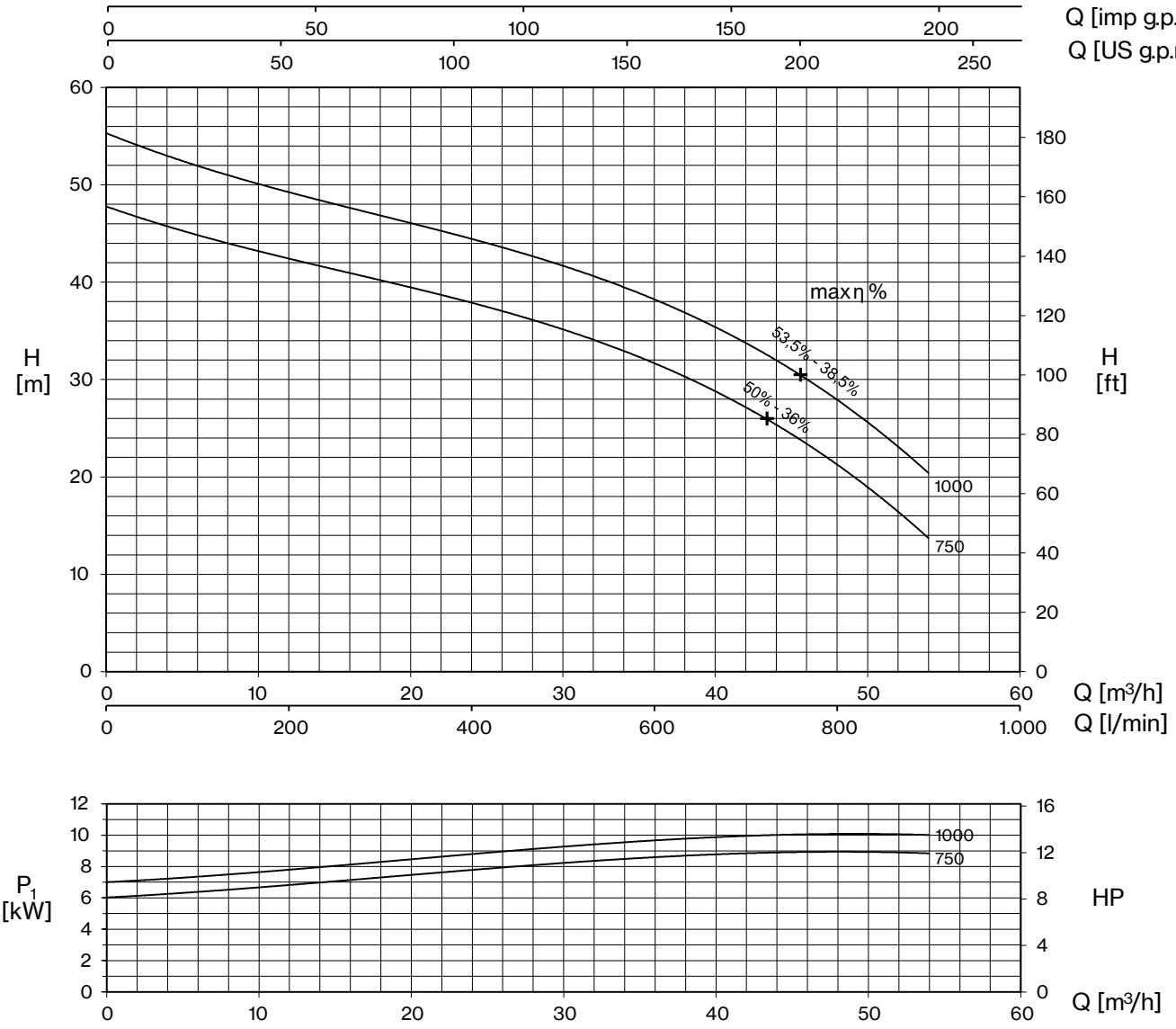
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)									
3~				0	6	12	18	24	30	36	42	48	51
				0	100	200	300	400	500	600	700	800	850
	HP	kW	kW	H (m)									
FC 410T	4	3	5,5	33,8	31,6	29,2	26,8	23,9	20,5	16,5	12,0	5,9	
FC 560T	5,5	4	6,3	38,7	36,1	33,9	31,2	28,3	24,7	20,9	16,3	10,4	6,5

FC



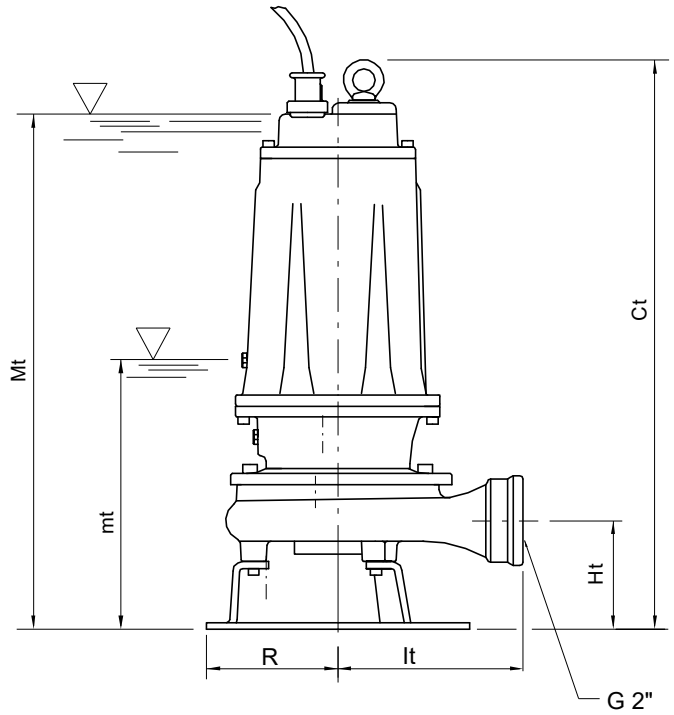
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FC 750T	-	15,3	26,5	15,3
FC 1000T	-	17,5	30,3	17,5

(*) no standard execution

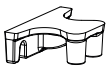
+ max η %

max hydraulic efficiency and respective total efficiency

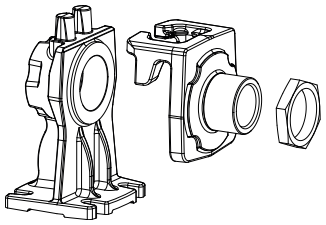
TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)								
3~				0	12	18	24	30	36	42	48	54
				0	200	300	400	500	600	700	800	900
	HP	kW	kW	H (m)								
FC 750T	7,5	5,5	9,0	47,6	42,9	40,4	37,7	34,7	31,2	27,4	22,3	13,1
FC 1000T	10	7,5	10,3	55,1	49,8	47,1	44,2	41,1	37,8	34	29,1	19,7



ACCESSORIES

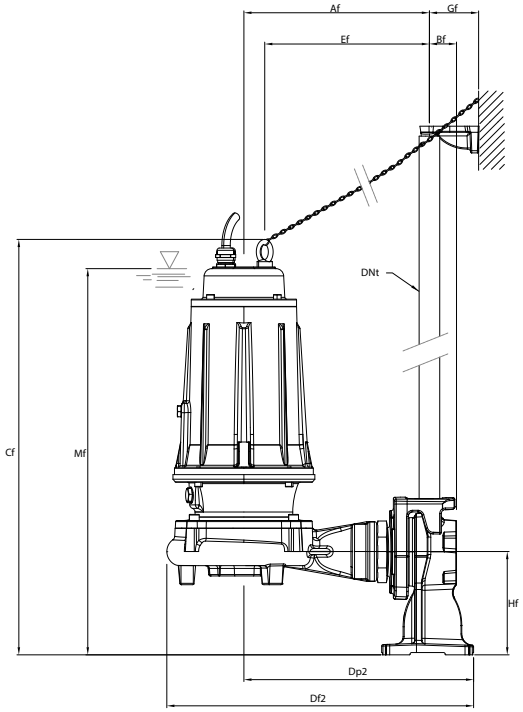


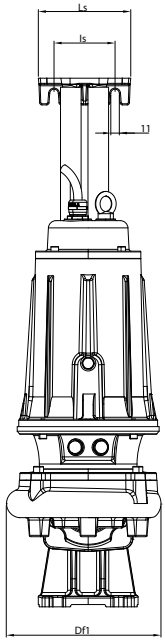
Quick coupling kit

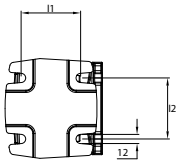


mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE		DIMENSIONS (mm)							Kg
1~	3~	Ct	Ht	R	It	mt	Mt	DNM	
FC 160	**FC 160T**	513	102	117	174	205	475	2” G	37
FC 210	**FC 210T**	513	102	117	174	205	475	2” G	37,5
-	**FC 310T**	513	102	117	174	205	475	2” G	37



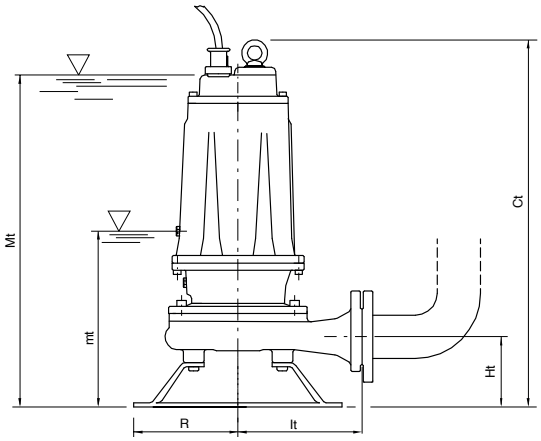


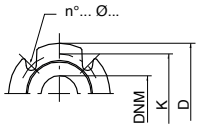


Mf: minimum submengence level for continuos duty

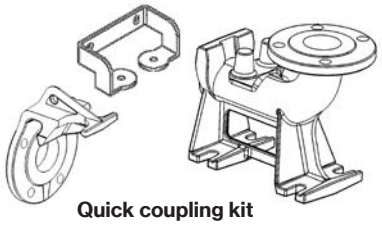
TYPE		DIMENSIONS (mm)												
1~	3~	Af	Bf	Cf	Df1	Df2	Dp2	Ef	Gf	Hf	l1	l2	ls	Ls	Mf
FC 160	**FC 160T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
FC 210	**FC 210T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
-	**FC 310T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506

FC

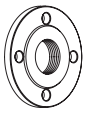




ACCESSORIES



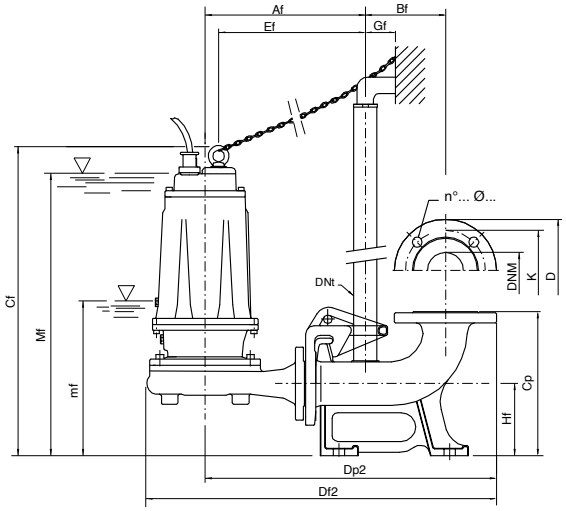
Quick coupling kit

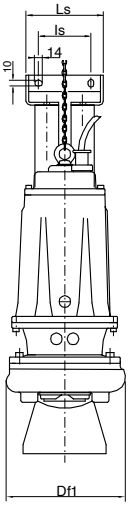


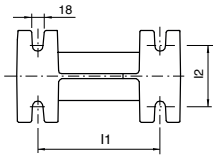
Counterflange

mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)							Kg
3~	Ct	Ht	R	It	mt	Mt	DNM	
FC 410T	595	112	160	187	263	550	50	60,5
FC 560T	595	112	160	187	263	550	50	63,5
FC 750T	680	160	180	250	280	630	65	91
FC 1000T	680	160	180	250	280	630	65	93,5







mf: minimum working level
Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
50	125	165	4... 18...
65	145	185	4... 18...

TYPE	DIMENSIONS (mm)																	
3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	I1	I2	Is	Ls	mf	Mf	DNM
FC 410T/P	300	145	614	260	237	654	535	1" ¼	269	55	130	200	100	95	140	290	566	50
FC 560T/P	300	145	614	260	237	654	535	1" ¼	269	55	130	200	100	95	140	290	566	50
FC 750T/P	331	145	656	260	279	701	569	1" ¼	296	55	130	200	100	95	140	290	600	65
FC 1000T/P	331	145	656	260	279	701	569	1" ¼	296	55	130	200	100	95	140	290	600	65

TYPE	PROTECTION		1 PUMP CONTROL PANEL			2 PUMPS CONTROL PANEL		
	1~ 230V	3~ 400V	1~ 230V	3~ 400V	400/690 V	1~ 230V	3~ 400V	400/690 V
FC 160	PMC 15/35-15	PT 20-30-40/4.3-6.8	EQSM + 35µF	EQSMT 10		EQ2SM + 2×35µF	EQ2SMT 10	
FC 210	PMC 20/50-18	PT 20-30-40/4.3-6.8	EQSM + 50µF	EQSMT 10		EQ2SM + 2×50µF	EQ2SMT 10	
FC 310T		PT 40-50/5.7-9.1		EQSMT 10			EQ2SMT 10	
FC 410T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FC 560T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FC 750T		PT 100/12.5-16.5		EQSMT 10	QST 7		EQ2SMT 10	Q2ST 7
FC 1000T		PT 125-150/16-21		EQSMT 10	QST 10		EQ2SMT 15	Q2ST 10

DB



Drainage pumps with “Double-channel” impeller for pumping waste waters and liquids with suspended solids; ideal for civil and household applications. The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Shell, motor cover, base support	stainless steel
Impeller	stainless steel
Mechanical seal	double seal with oil chamber: silicon carbide on pump side, ceramic-graphite on motor size
Motor shaft	stainless steel AISI 430
Free passage	Ø max 50 mm
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
G	float switch

Motor

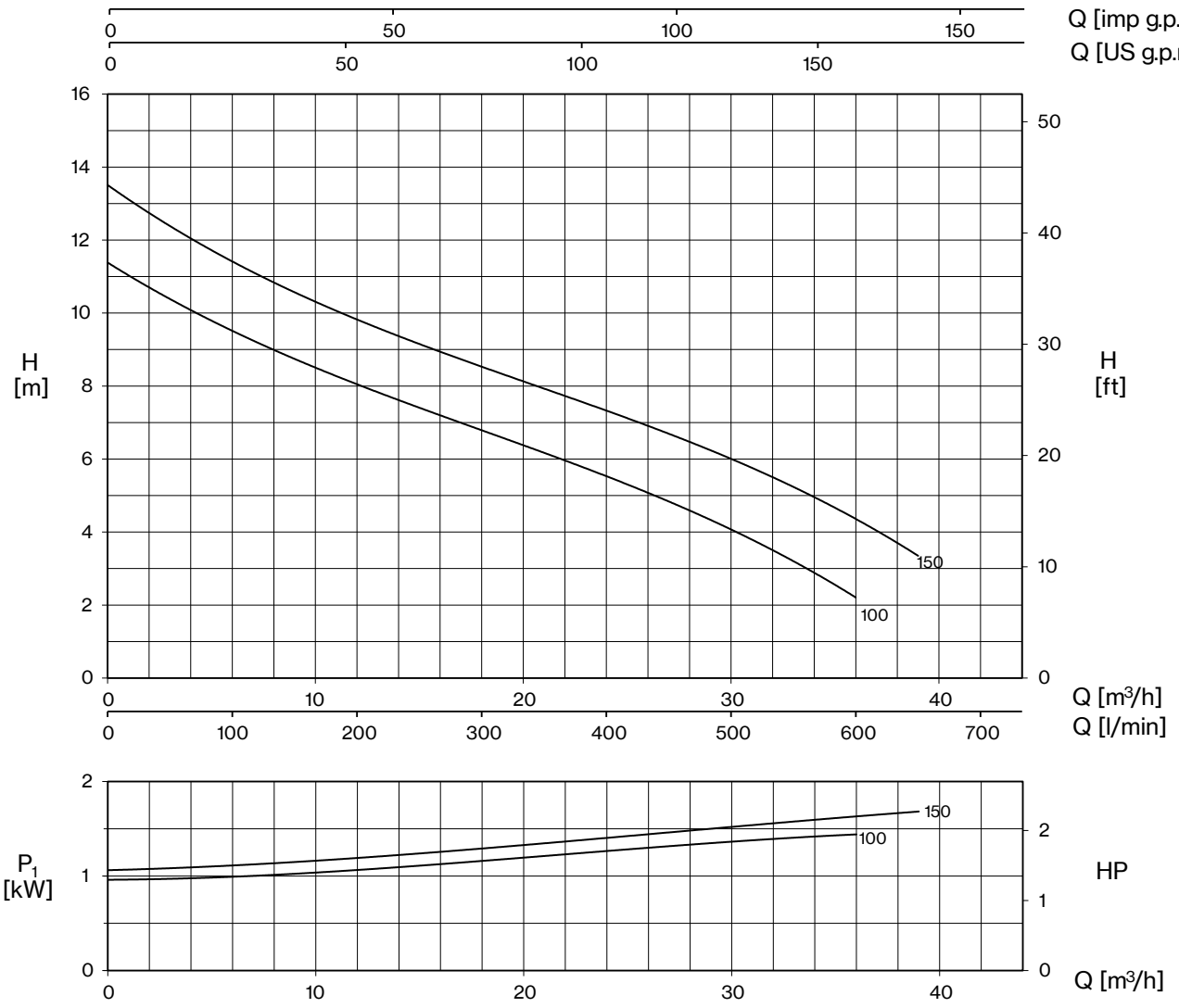
2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DB(T)	80×120×160	48	80×120×160	48

DB 100 G

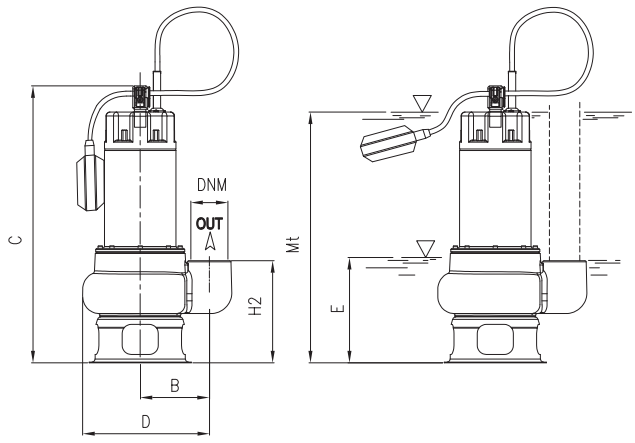
- **T** 3~
- 1~ without float switch
- **G** 1~ with float switch
- pump type

DB



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)							
1~	3~		1~ 230V	3~ 400V	0	6	12	18	24	30	36	39
					0	100	200	300	400	500	600	650
		kW	A		H (m)							
DB 100 (G)	**DB 100T**	1,35	5,9	2,8	11,4	9,5	8,0	6,8	5,6	4,0	2,2	
DB 150 (G)	**DB 150T**	1,7	8,0	3,0	13,6	11,5	9,8	8,5	7,3	6,0	4,3	3,4

E: maximum emptying level
Mt: minimum liquid level for continuos duty



TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
DB 100 (G)	**DB 100T**	115	469	210	160	170	417	2" G	200	260	470	17
DB 150 (G)	**DB 150T**	115	469	210	160	170	417	2" G	200	260	470	18,5

FM

FM 160-1000



FM 160-1000/P



Single channel centrifugal drainage pumps. Specifically designed for heavy duty applications they guarantee high capacity at medium head; ideal for civil and industrial applications. Available in mobile or permanent version with coupling feet.



FM 160-560



FM 1000 T

Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Free passage	Ø max 50 mm
Max submergence	20 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

Motor

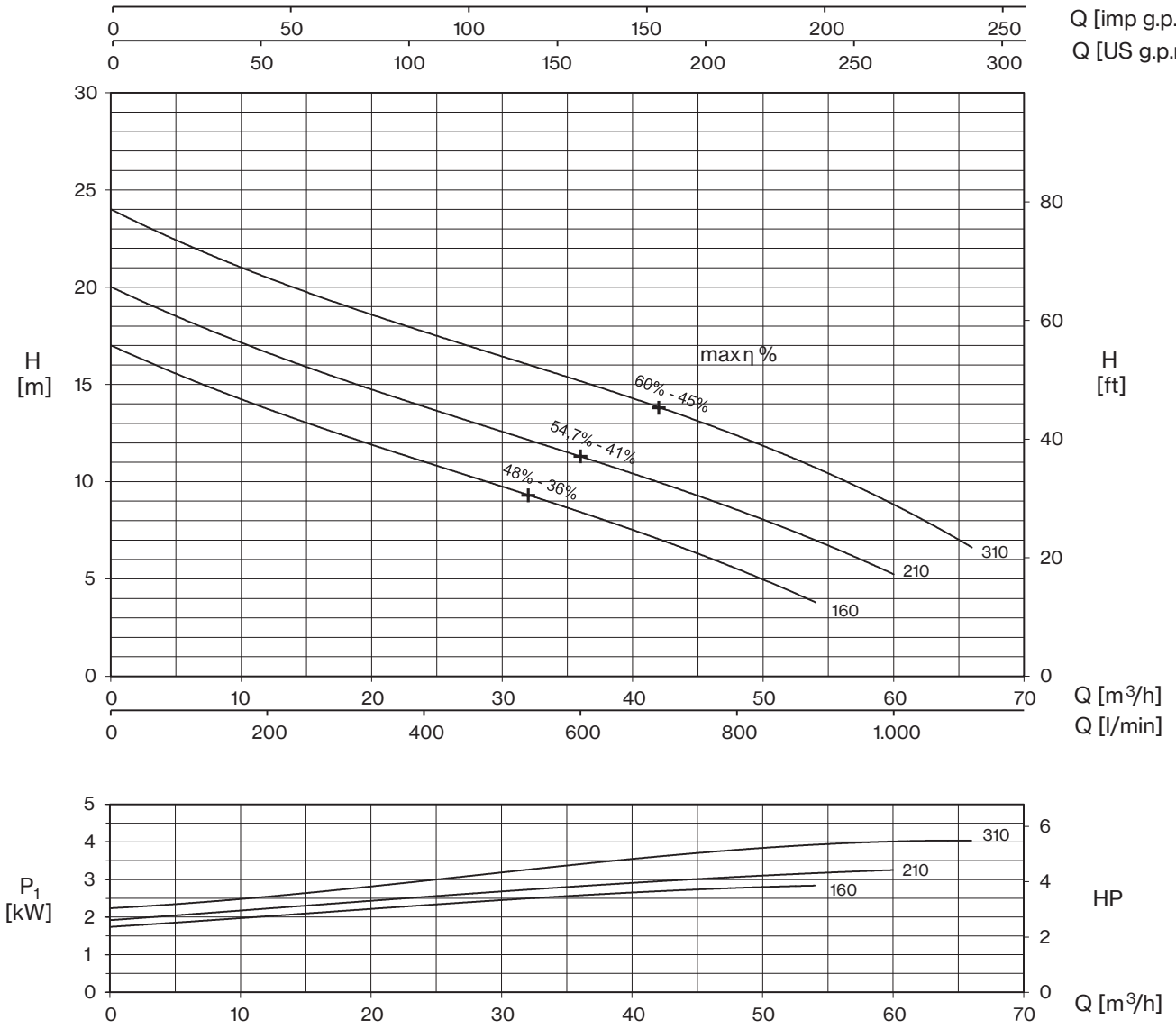
2 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz 1~ 230V - 50Hz required run capacitor (35µF for 1,5HP model, 50µF for 2HP model)
Insulation class	F
Protection degree	IPX8

FM 560 T -CF

- -CF: counter-flange — not included / CF included
- T: motor — 1~ / T 3~
- FM 560: pump type

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FM 160÷310(T)	85×110×145	18	85×110×190	27
FM 410T-560T	85×110×170	12	85×110×170	12
FM 1000T	100×120×190	12	100×120×190	12

FM



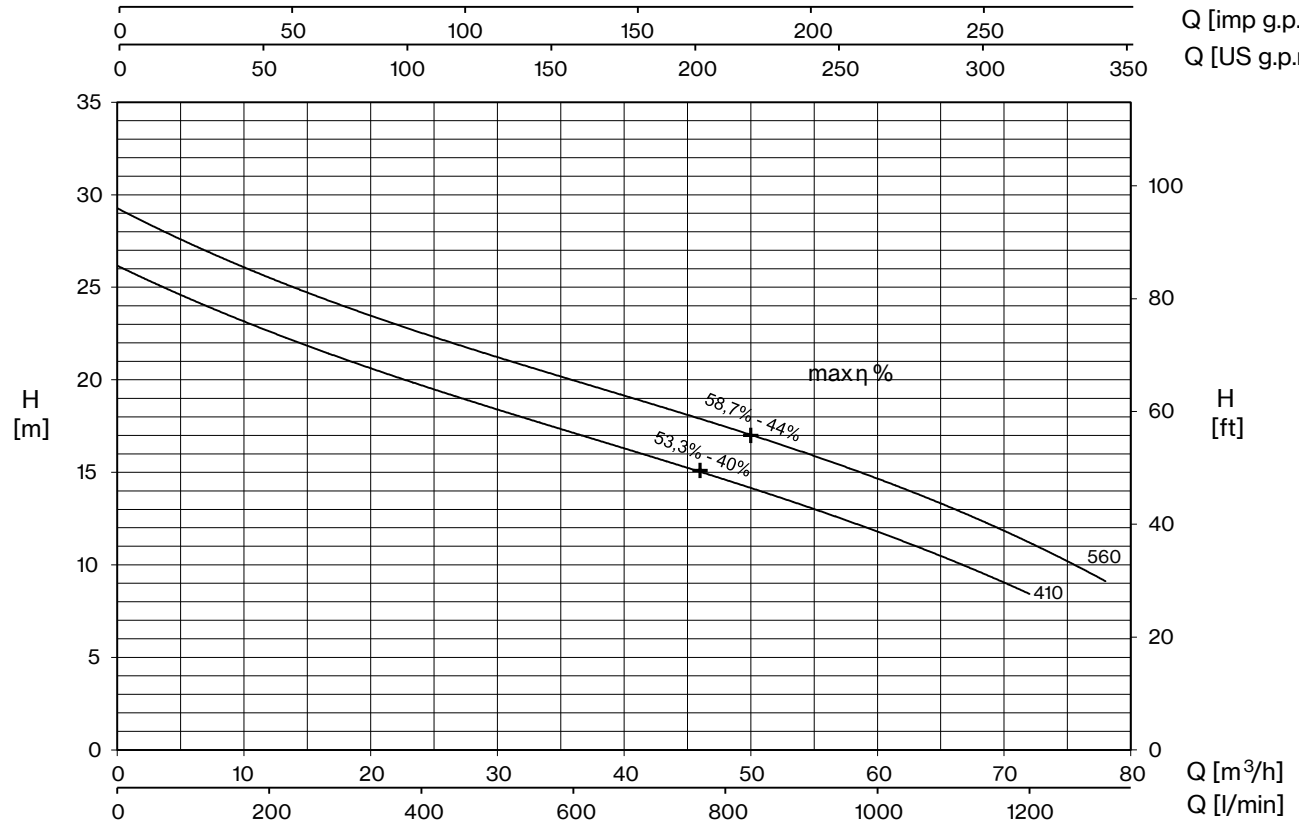
TYPE - 50 Hz		CURRENT				
1~	3~	230 V	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FM 160	**FM 160T**	12,5	7,6	4,4	-	-
FM 210	**FM 210T**	15,0	9,5	5,5	-	-
-	**FM 310T**	-	12,0	6,9	-	-

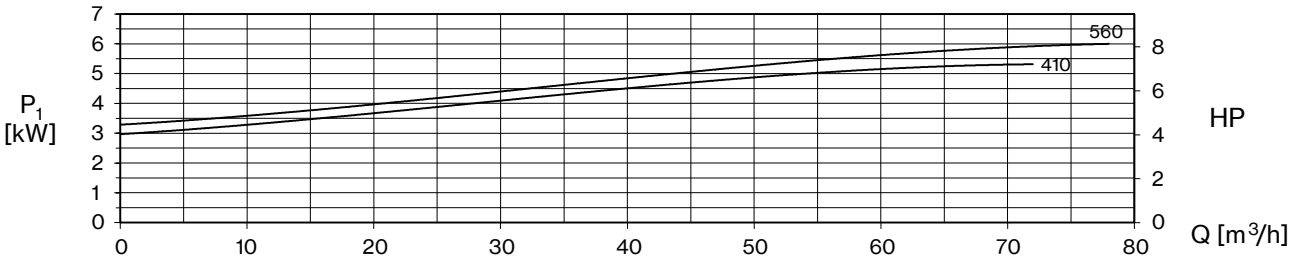
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz		P2		P1		Q (m³/h - l/min)											
1~	3~			1~	3~	0	6	12	18	24	30	36	42	48	54	60	66
						0	100	200	300	400	500	600	700	800	900	1000	1100
		HP	kW	kW		H (m)											
FM 160	**FM 160T**	1,5	1,1	2,8	2,6	17,0	15,3	13,8	12,3	11,0	9,8	8,4	7,1	5,5	3,8		
FM 210	**FM 210T**	2	1,5	3,3	3,1	19,9	18,4	16,7	15,2	13,8	12,4	11,3	10,1	8,6	7,0	5,2	
-	**FM 310T**	3	2,2	-	4,1	23,9	22,2	20,6	19,1	17,8	16,3	15,0	13,8	12,3	10,9	9,1	6,4





TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FM 410T	15,4	8,9	-	-
FM 560T	17,6	10,2	-	-

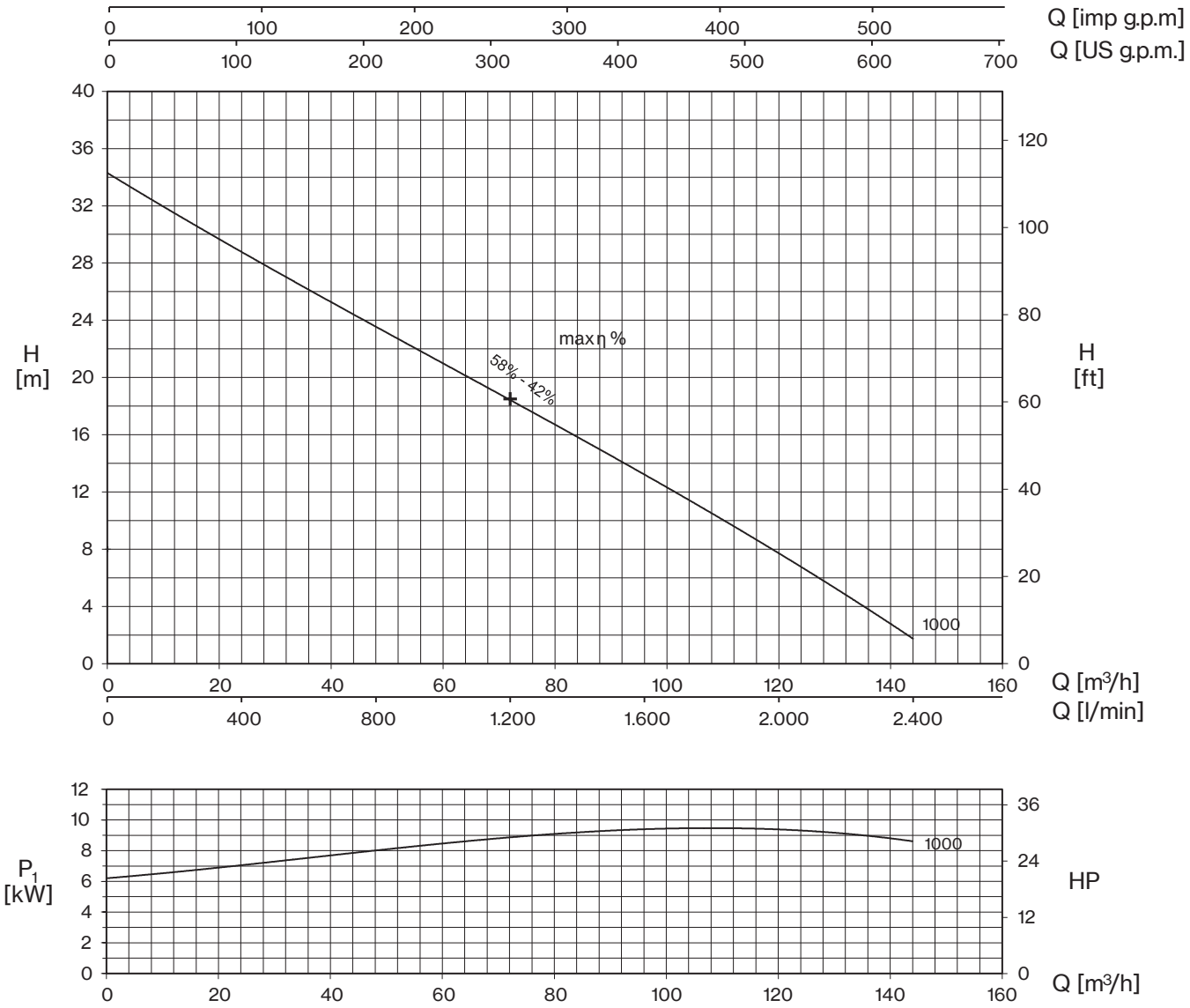
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)									
3~				0	6	18	30	42	54	60	66	72	78
				0	100	300	500	700	900	1000	1100	1200	1300
	HP	kW	kW	H (m)									
FM 410T	4	3	5,3	26,0	24,6	21,1	18,2	15,9	13,3	11,8	10,3	8,3	
FM 560T	5,5	4	6	29,1	27,5	24,1	21,1	18,6	16,1	14,7	13,1	11,4	8,9

FM



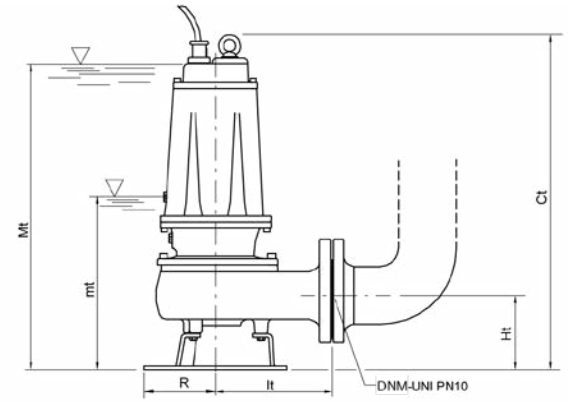
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FM 1000T	-	16,3	28,2	16,3

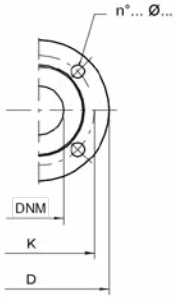
(*) no standard execution

+ max η %

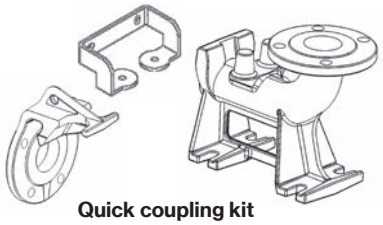
max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)												
3~				0	12	24	36	48	60	72	84	96	108	120	132	144
				0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400
	HP	kW	kW	H (m)												
FM 1000T	10	7,5	9,6	34,9	30,9	28,3	26,1	23,7	21,3	18,7	16,1	13,2	10,2	7,4	4,6	2,1

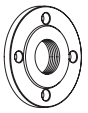




ACCESSORIES



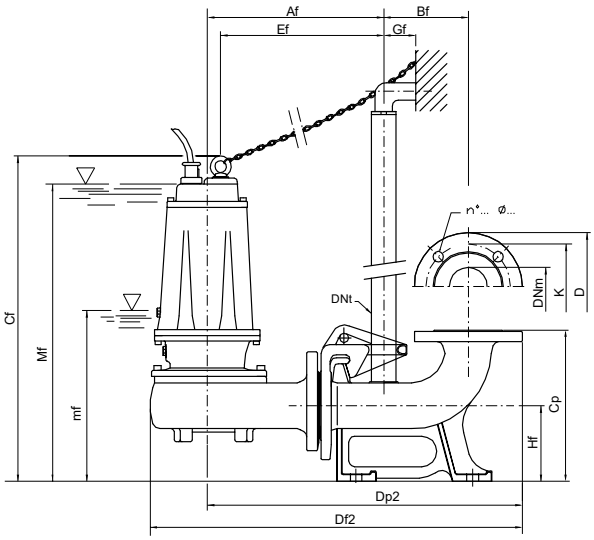
Quick coupling kit

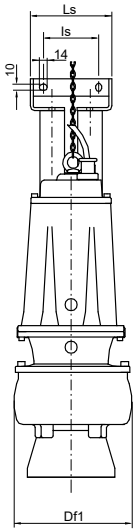


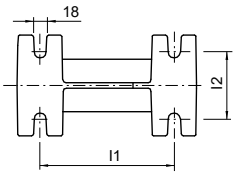
Counterflange

mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE		DIMENSIONS (mm)							Kg	
1~	3~	Ct	Ht	R	It	mt	Mt	DNM	1~	3~
FM 160	**FM 160T**	551	123	117	191	243	513	65	41,5	40
FM 210	**FM 210T**	551	123	117	191	243	513	65	42,5	41,5
-	**FM 310T**	551	123	117	191	243	513	65	-	42,5
-	**FM 410T**	645	148	160	210	285	600	80	-	68
-	**FM 560T**	645	148	160	210	285	600	80	-	71,5
-	**FM 1000T**	725	178	180	232	358	670	80	-	94







mf: minimum working level
Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
65	145	185	4... 18...
80	160	200	8... 18...

TYPE		DIMENSIONS (mm)																	
1~	3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
FM 160/P	**FM 160T/P**	303	145	560	260	200	639	542	1" ¼	280	55	130	200	100	95	140	251	521	65
FM 210/P	**FM 210T/P**	303	145	560	260	200	639	542	1" ¼	280	55	130	200	100	95	140	251	521	65
-	**FM 310T/P**	303	145	560	260	200	639	542	1" ¼	280	55	130	200	100	95	140	251	521	65
-	**FM 410T/P**	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80
-	**FM 560T/P**	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80
-	**FM 1000T/P**	370	165	745	340	240	750	638	2"	350	85	190	250	140	130	180	380	690	80

TYPE	PROTECTION		1 PUMP CONTROL PANEL			2 PUMPS CONTROL PANEL		
	1~ 230V	3~ 400V	1~ 230V	3~ 400V	400/690 V	1~ 230V	3~ 400V	400/690 V
FM 160	PMC 15/35-15	PT 20-30-40/4.3-6.8	EQSM + 35µF	EQSMT 10		EQ2SM + 2×35µF	EQ2SMT 10	
FM 210	PMC 20/50-18	PT 20-30-40/4.3-6.8	EQSM + 50µF	EQSMT 10		EQ2SM + 2×50µF	EQ2SMT 10	
FM 310T		PT 40-50/5.7-9.1		EQSMT 10			EQ2SMT 10	
FM 400T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FM 560T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FM 1000T		PT 125-150/16-21		EQSMT 10	QST 10		EQ2SMT 15	Q2ST 10

FM4

FM 250-750-4 T

FM 250-750-4 T/P



Single-channel centrifugal drainage pumps: besides the high capacity they guarantee excellent head; ideal for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



FM 250-4 T
FM 300-4 T
FM 400-4 T



FM 550-4 T
FM 750-4 T

Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Free passage	Ø max 60 mm (FM 250/4÷400/4 T) Ø max 90 mm (FM 550/4-750/4 T)
Max submergence	20 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

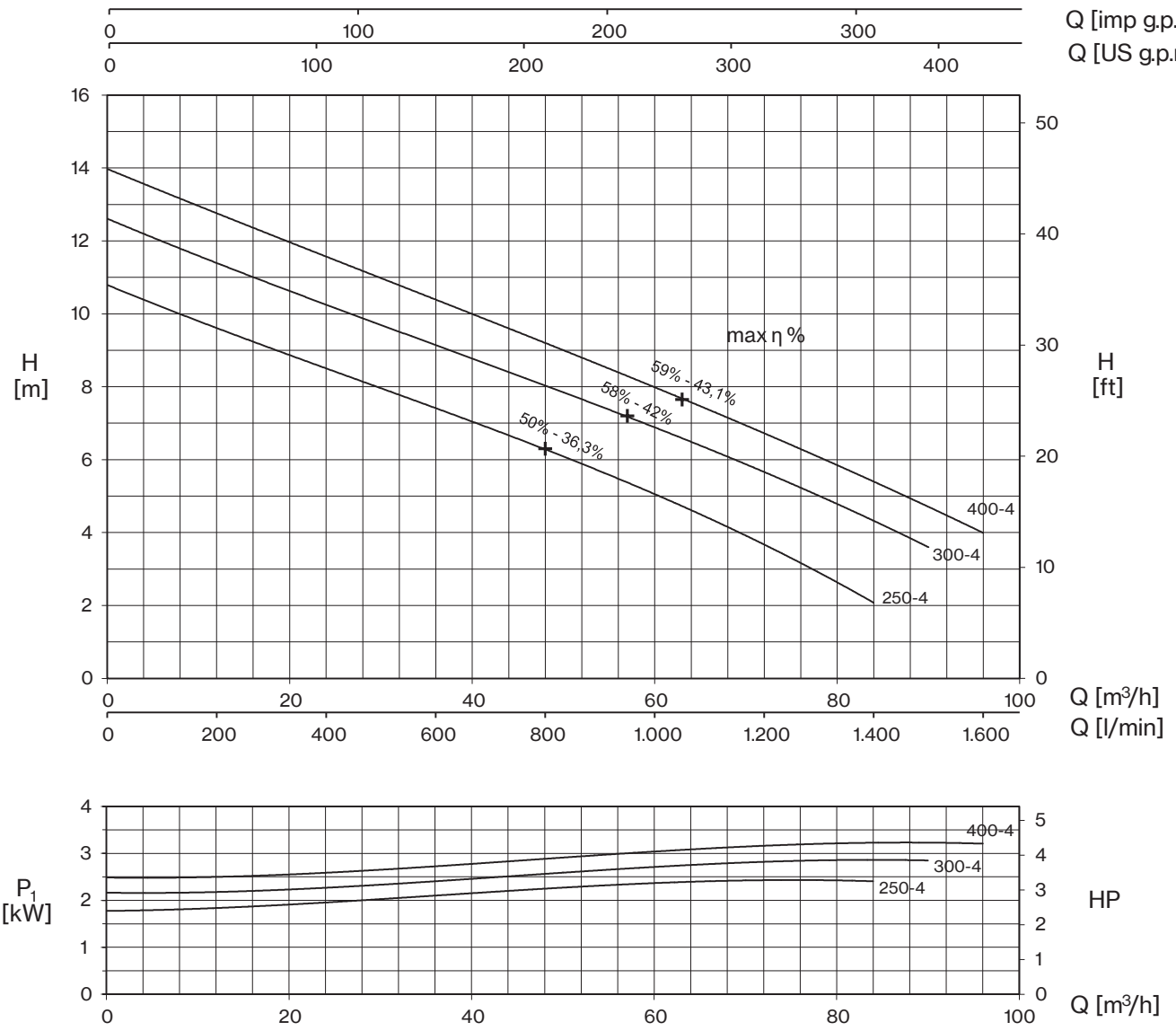
Motor

4 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FM 250-4÷750-4T	85×110×190	12	100×120×190	12

FM 550 - 4 T -CF

- pump type
- poles
- motor **T** 3~
- counter-flange
  - not included
  - **CF** included



TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FM 250-4T	7,8	4,5	-	-
FM 300-4T	9,0	5,2	-	-
FM 400-4T	11,2	6,5	-	-

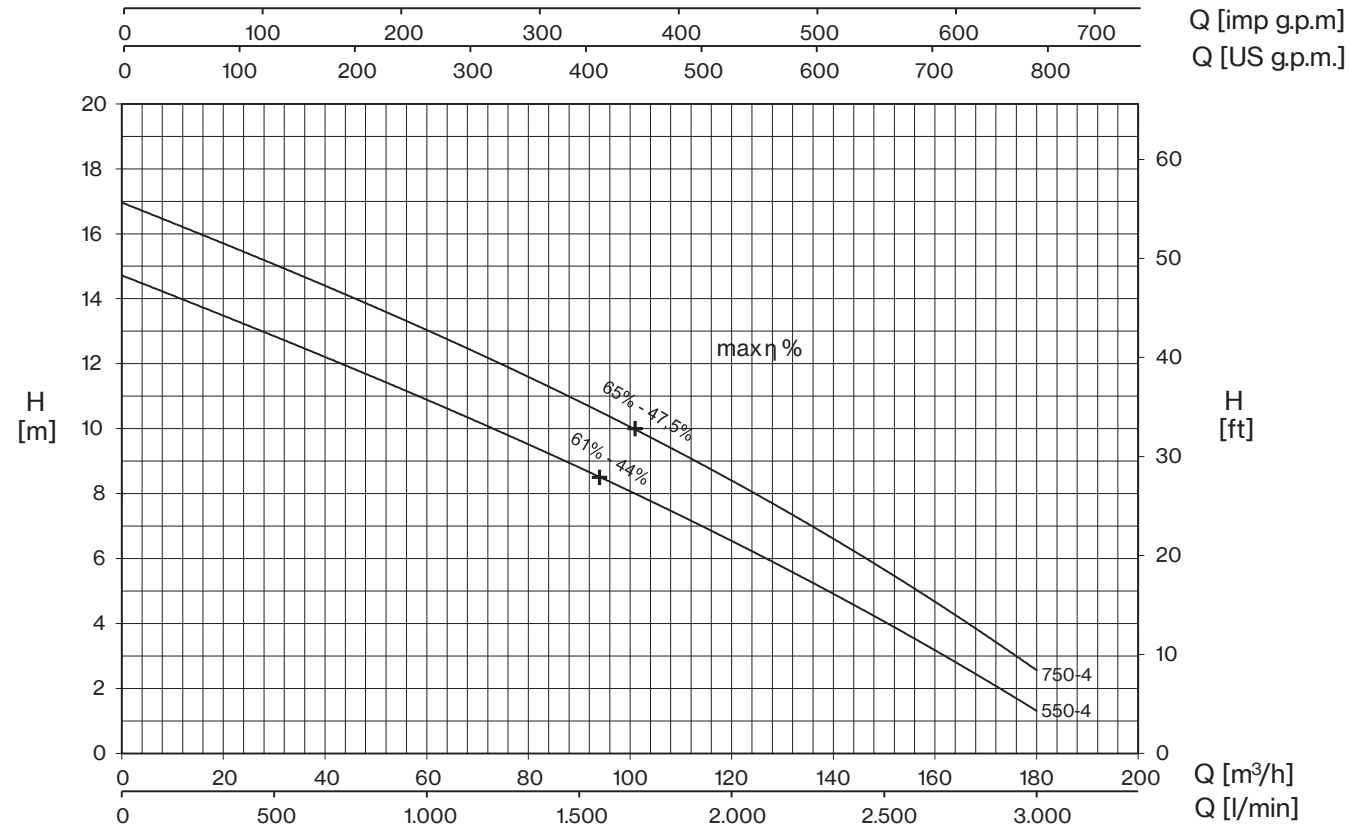
(*) no standard execution

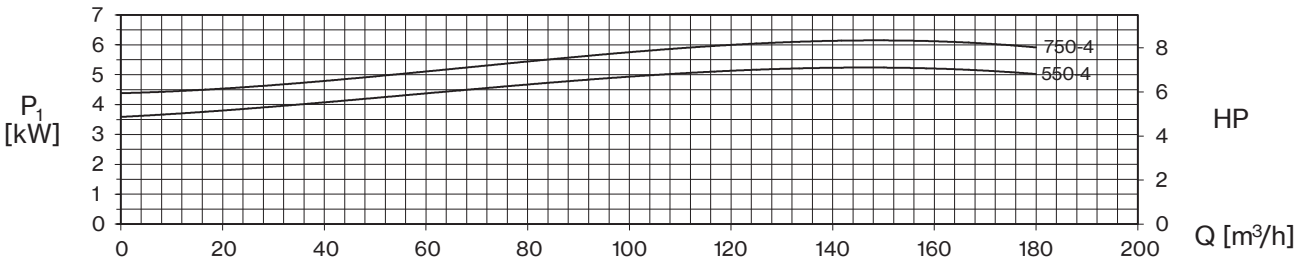
+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)									
3~				0	12	24	36	48	60	72	84	90	96
				0	200	400	600	800	1000	1200	1400	1500	1600
	HP	kW	kW	H (m)									
FM 250-4T	2,5	1,8	2,4	10,8	9,6	8,5	7,4	6,3	5,1	3,6	2,1		
FM 300-4T	3	2,2	2,9	12,6	11,4	10,3	9,1	8,0	6,9	5,7	4,3	3,6	
FM 400-4T	4	3	3,2	14,0	12,7	11,6	10,4	9,2	8,0	6,7	5,4	4,7	4,0

FM4





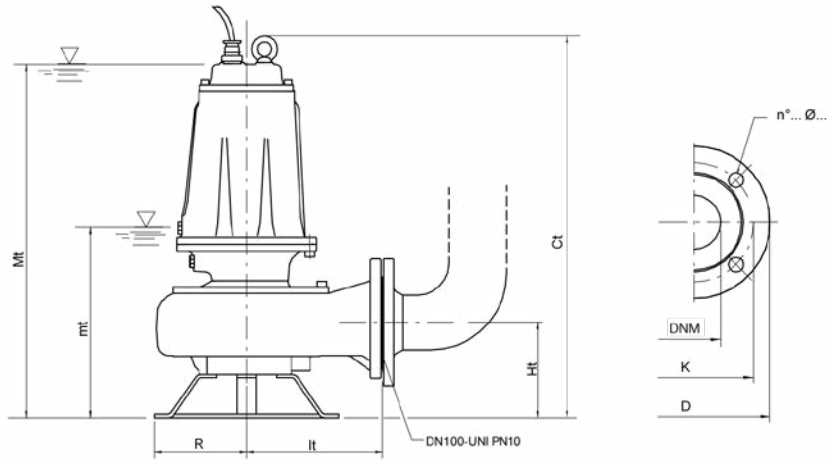
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400V ⅄ / △ (*)	400/690V ⅄ / △
FM 550-4T	-	9,4	16,3	9,4
FM 750-4T	-	11,8	20,4	11,8

(*) no standard execution

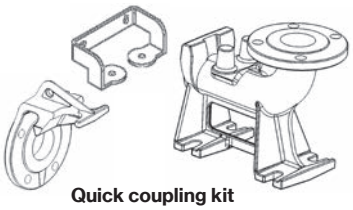
+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)														
3~				0	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
				0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
	HP	kW	kW	H (m)															
FM 550-4T	5,5	4	5,2	14,7	14,0	13,2	12,5	11,7	10,9	10,1	9,2	8,3	7,5	6,5	5,6	4,6	3,6	2,4	1,3
FM 750-4T	7,5	5,5	6,1	17,0	16,2	15,4	14,7	13,8	13,0	12,2	11,4	10,4	9,4	8,4	7,3	6,2	5,1	3,8	2,6



ACCESSORIES



Quick coupling kit

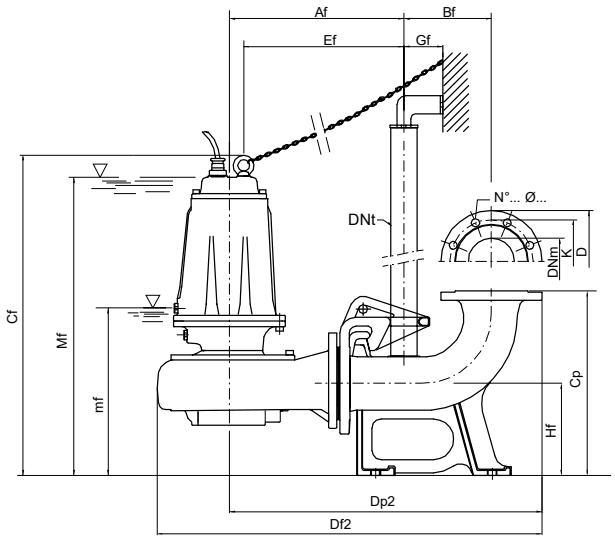


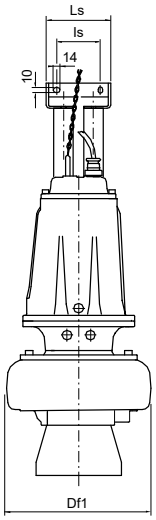
Counterflange

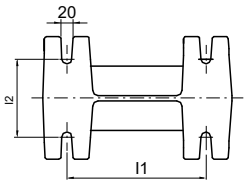
mt: minimum working level

Mt: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)							Kg
3~	Ct	Ht	R	It	mt	Mt	DNM	
FM 250-4T	660	165	160	235	300	614	100	71,5
FM 300-4T	660	165	160	235	300	614	100	74
FM 400-4T	660	165	160	235	300	614	100	77,5
FM 550-4T	715	195	180	276	385	695	100	104
FM 750-4T	715	195	180	276	385	695	100	107,5







mf: minimum working level

Mf: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)																	
3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
FM 250-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FM 300-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FM 400-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FM 550-4T/P	419	190	755	400	371	900	719	2”	384	85	200	250	140	130	180	390	700	100
FM 750-4T/P	419	190	755	400	371	900	719	2”	384	85	200	250	140	130	180	390	700	100

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
100	180	220	8... 18...

TYPE	PROTECTION	1 PUMP CONTROL PANEL		2 PUMPS CONTROL PANEL	
	3~ 400V	3~ 400V	400/690 V	3~ 400V	400/690 V
FM 250-4T	PT 40-50/5.7-9.1	EQSMT 10		EQ2SMT 10	
FM 300-4T	PT 40-50/5.7-9.1	EQSMT 10		EQ2SMT 10	
FM 400-4T	PT 40-50/5.7-9.1	EQSMT 10		EQ2SMT 10	
FM 550-4T	PT 55-75/8.6-13.5	EQSMT 10		EQ2SMT 10	
FM 750-4T	PT 100/12.5-16.5	EQSMT 10	QST 5	EQ2SMT 10	Q2ST 5

FTR 101



Drainage pumps with open impeller characterized by head in ratio to the type and size of the machine. The grinder allows to pumps sewage containing textile or filamentous fibres have to be crushed. The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Shell, motor cover	stainless steel
Impeller	brass
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, sealing ring on motor side
Motor shaft	stainless steel AISI 430
Grinder	treated stainless steel
Max submergence	max 5 m
Liquid temperature	0 - 40 °C
Cable	H07 RNF, 10 m
G	float switch

Motor

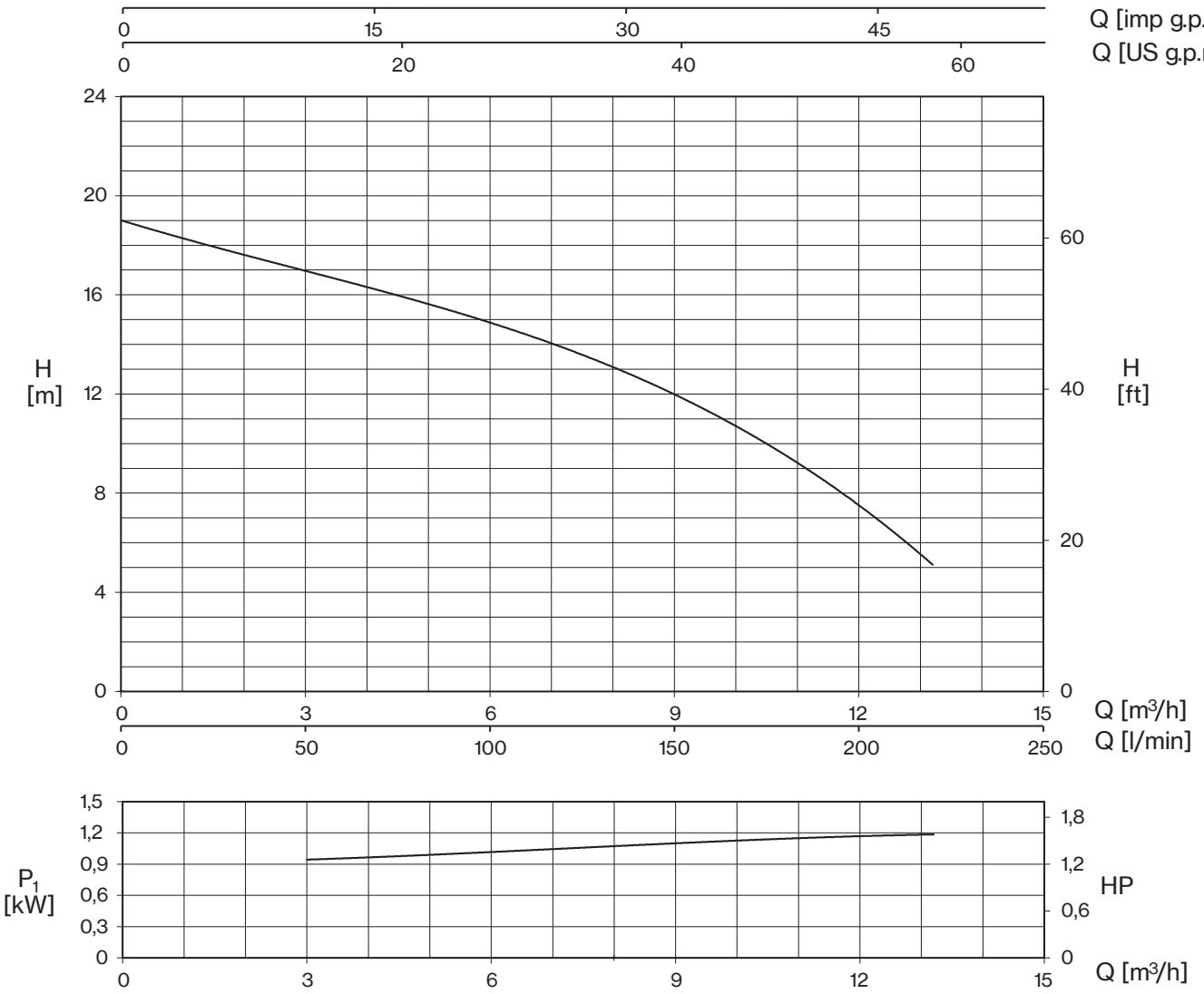
2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FTR 101(T)	80×120×150	57	80×120×195	76
			80×110×195	72

FTR 101 G

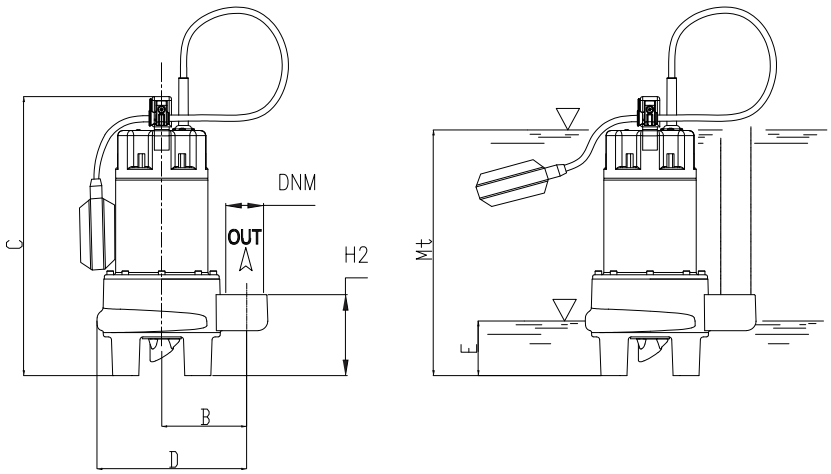
- **T** 3~
- 1~ without float switch
- **G** 1~ with float switch

pump type



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)					
1~	3~		1~ 230V	3~ 400V	0	3	6	9	12	13,2
					0	50	100	150	200	220
		kW	A		H (m)					
FTR 101 (G)	**FTR 101T**	1,2	5,3	2,2	19,0	17,1	14,8	11,9	7,8	4,9

E: maximum emptying level
Mt: minimum liquid level for continuos duty



TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
FTR 101 (G)	**FTR 101T**	105	369	288	84	104,5	316	1" ½ G	260	185	450	16,5

FTR/FTRT

Sewage
Grinder



FTR 150-300 | FTR 400-1000 T | FTR 400-1000 T/P

Drainage and waste water pumps equipped with open impeller and grinder system able to shred sewage with suspended solids and prevent the pump from clogging. Best for emptying of septic tanks and residential sumps as well as for rain water systems and for draining of flooded areas where seamless operation is required. The quick coupling feet DN50 and DN65 is available for flanged pumps.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier: silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Max submergence	20 m
Liquid temperature	0 - 40 °C
Grinder	treated stainless steel
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

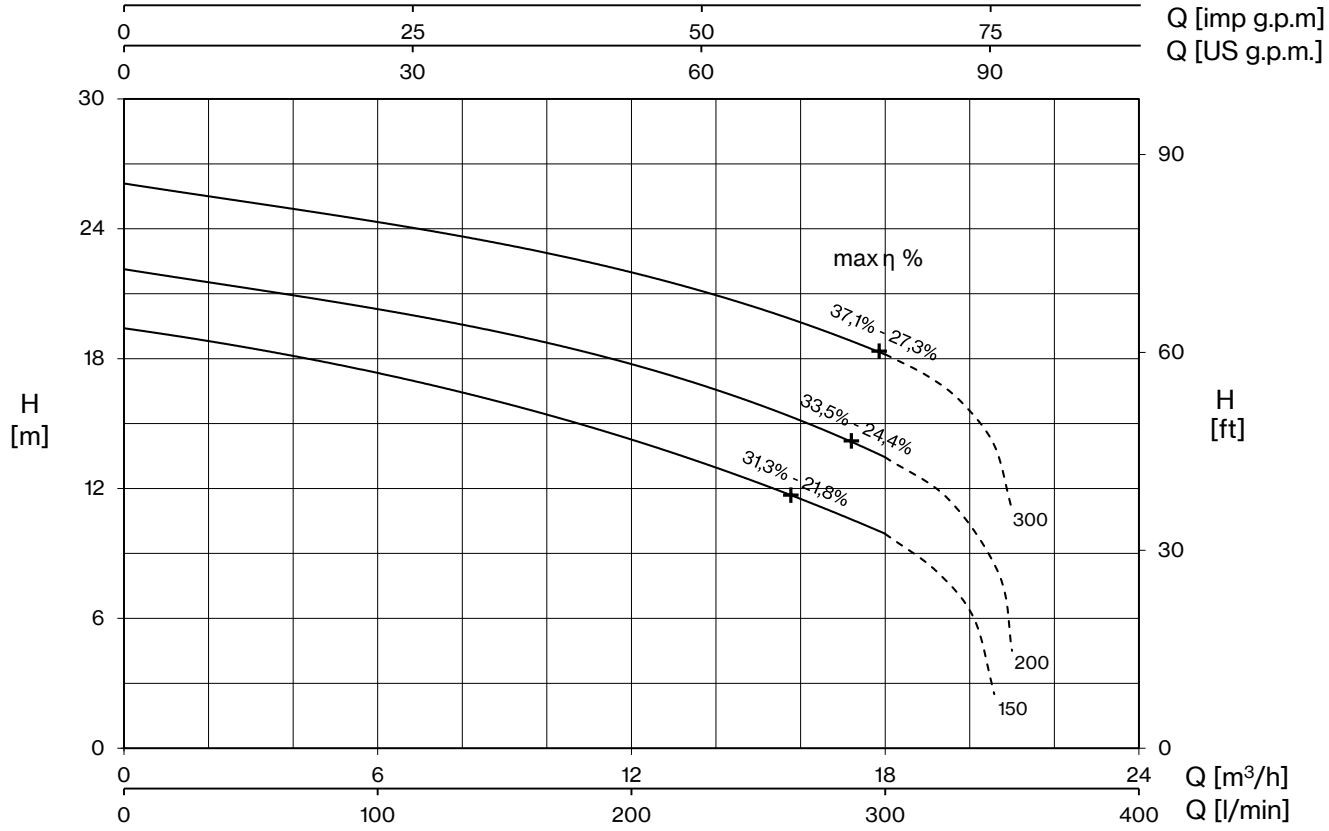
Motor

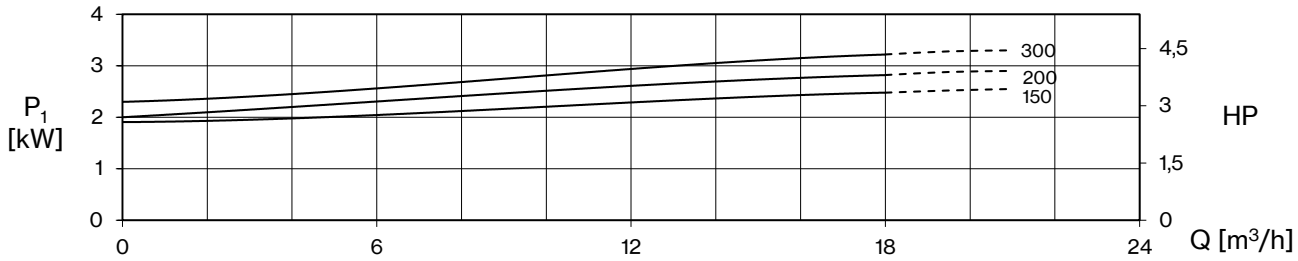
2 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz 1~ 230V - 50Hz run capacitor (35µF for 1,5HP models, 50µF for 2HP model) + start capacitor (80µF with disjuntor) required
Insulation class	F
Protection degree	IPX8

FTR 150 [ ] -CF

- pump type
- motor [ ] 1~ **T** 3~
- counter-flange [ ] not included, **CF** included

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FTR 150÷300(T)	85×110×145	18	85×110×190	27
FTR 400T-550T	85×110×170	12	85×110×170	12
FTR 750T-1000T	100×120×190	12	100×120×190	12





TYPE - 50 Hz		CURRENT				
1~	3~	230 V	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FTR 150	**FTR 150T**	11,5	7,6	4,4	-	-
FTR 200	**FTR 200T**	13,6	8,8	5,1	-	-
-	**FTR 300T**	-	10,0	5,8	-	-

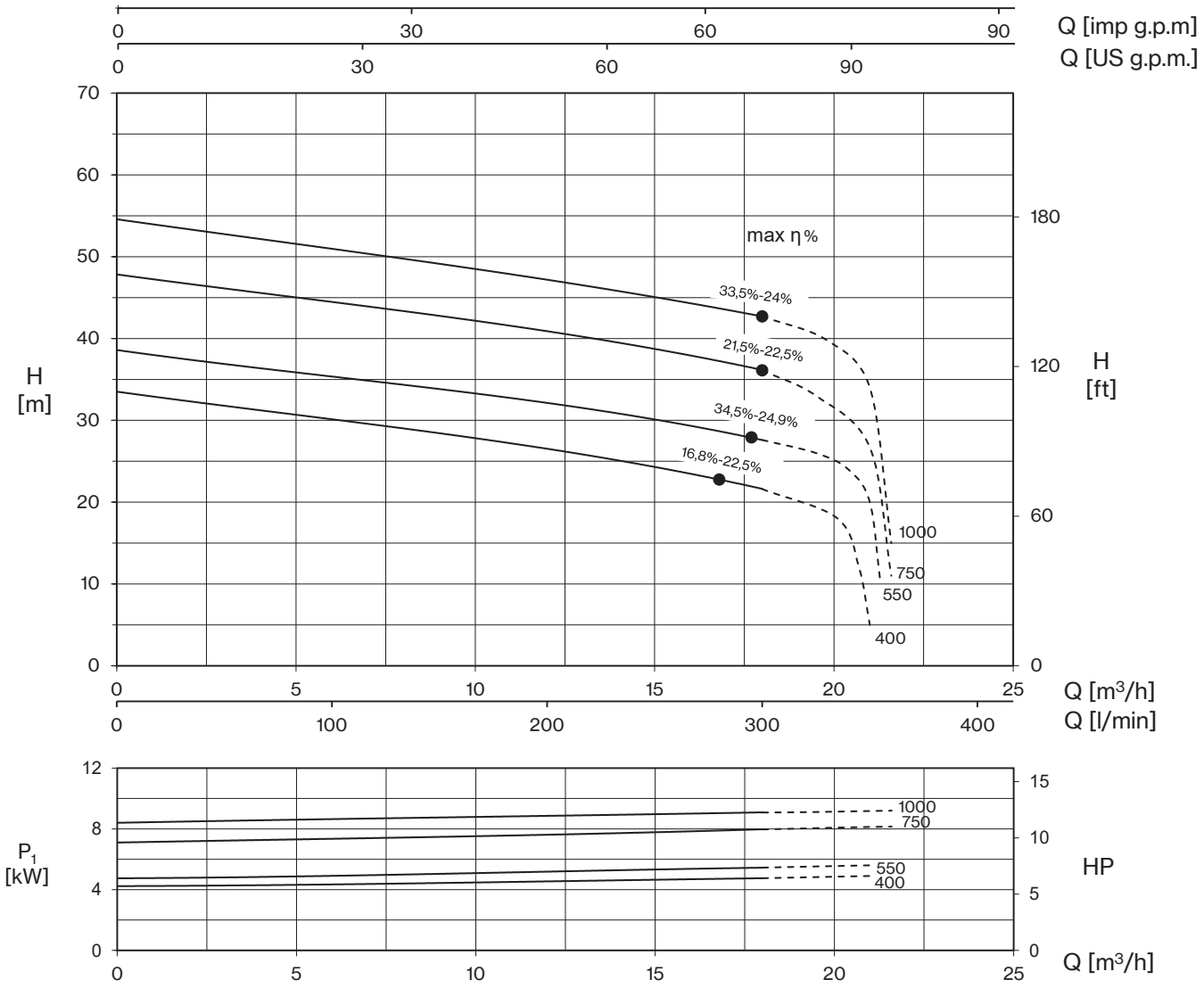
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz		P2		P1		Q (m³/h - l/min)							
1~	3~			1~	3~	0	3	6	9	12	13,2	15	18
						0	50	100	150	200	220	250	300
		HP	kW	kW		H (m)							
FTR 150	**FTR 150T**	1,5	1,1	2,6	2,5	19,4	18,5	17,3	16,0	14,2	13,5	12,3	9,9
FTR 200	**FTR 200T**	2	1,5	3,0	2,8	22,1	21,3	20,3	19,1	17,7	17,1	16,0	13,4
-	**FTR 300T**	3	2,2	-	3,2	26,1	25,2	24,3	23,3	22,0	21,4	20,3	18,2

FTR/FTRT



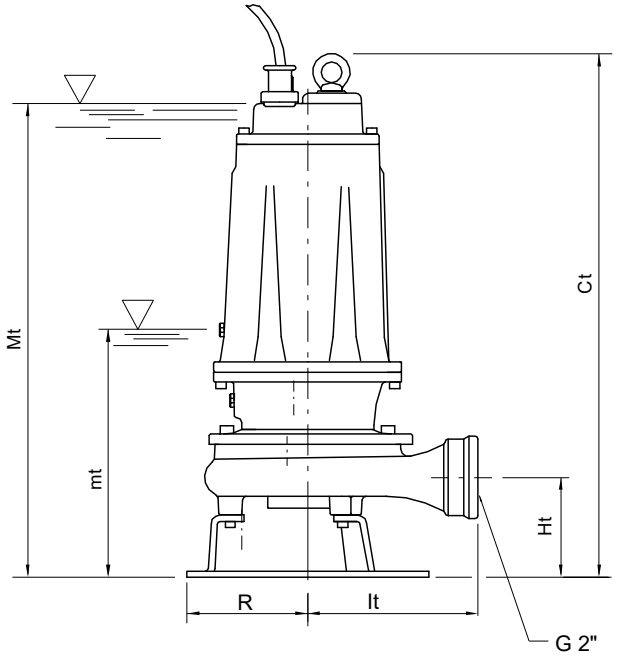
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400V ⅄ / △ (*)	400/690V ⅄ / △
FTR 400T	13,0	7,5	-	-
FTR 550T	15,9	9,2	-	-
FTR 750T	-	13,9	24	13,9
FTR 1000T	-	15,5	26,8	15,5

(*) no standard execution

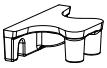
+ max η %

max hydraulic efficiency and respective total efficiency

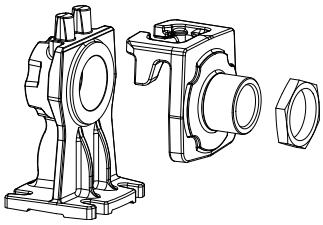
TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)						
3~				0	3	6	9	12	15	18
				0	50	100	150	200	250	300
	HP	kW	kW	H (m)						
FTR 400T	4	3	4,5	33,5	31,8	30,1	28,5	26,4	24,4	21,6
FTR 550T	5,5	4	5,3	38,6	36,9	35,3	33,9	32,1	30,1	27,6
FTR 750T	7,5	5,5	8,0	47,8	46,2	44,5	42,7	40,8	38,9	36,1
FTR 1000T	10	7,5	9,1	54,6	52,7	51,0	49,2	47,1	45,1	42,7



ACCESSORIES

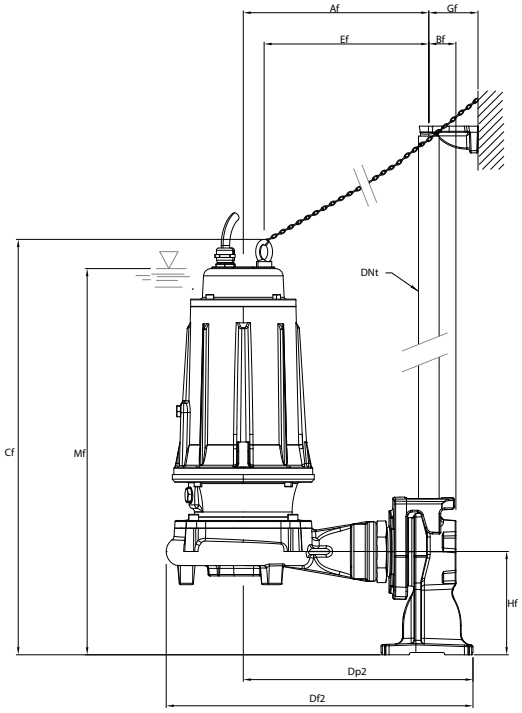


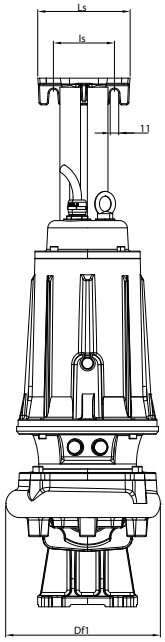
Quick coupling kit

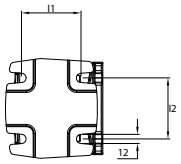


mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE		DIMENSIONS (mm)							Kg
1~	3~	Ct	Ht	R	It	mt	Mt	DNM	
FTR 150	**FTR 150T**	513	102	117	174	205	475	2" G	38
FTR 200	**FTR 200T**	513	102	117	174	205	475	2" G	38,5
-	**FTR 300T**	513	102	117	174	205	475	2" G	38



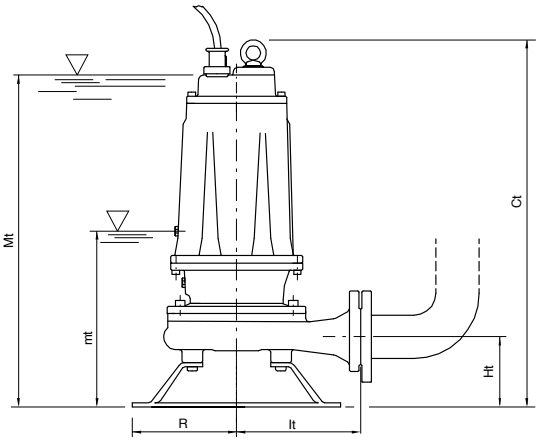


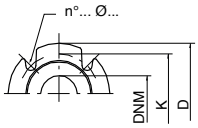


Mf: minimum submengence level for continuos duty

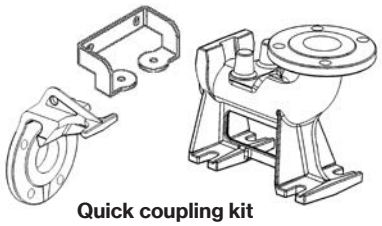
TYPE		DIMENSIONS (mm)												
1~	3~	Af	Bf	Cf	Df1	Df2	Dp2	Ef	Gf	Hf	l1	l2	ls	Ls	Mf
FTR 150	**FTR 150T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
FTR 200	**FTR 200T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
-	**FTR 300T**	243	36	545	203	402	301	216	65	135	78	80	80	121	506

FTR/FTRT





ACCESSORIES



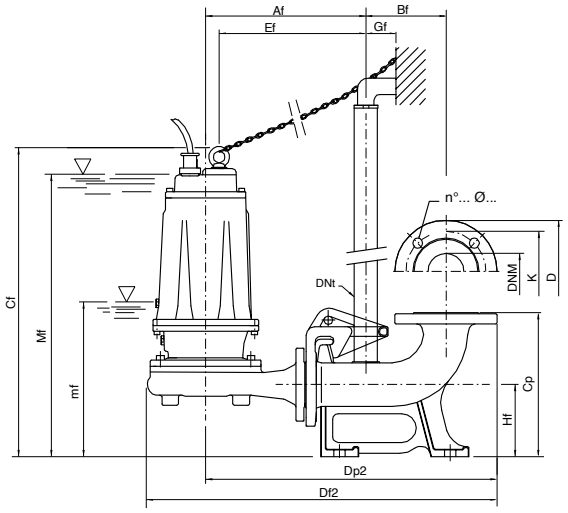
Quick coupling kit

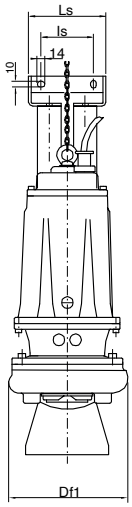


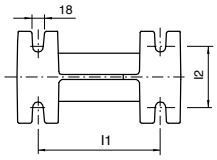
Counterflange

mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)							Kg
3~	Ct	Ht	R	It	mt	Mt	DNM	
FTR 400T	595	112	160	190	265	550	50	62,5
FTR 550T	595	112	160	190	265	550	50	65,5
FTR 750T	680	160	180	250	280	630	65	91,5
FTR 1000T	680	160	180	250	280	630	65	94,5







mf: minimum working level
Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
50	125	165	4... 18...
65	145	185	4... 18...

TYPE	DIMENSIONS (mm)																
3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	I1	I2	Is	Ls	mf	Mf	DNM
FTR 400T/P	300	145	614	260	237	654	538	1" ¼	269	55	130	200	100	95	140	290	566	50
FTR 550T/P	300	145	614	260	237	654	538	1" ¼	269	55	130	200	100	95	140	290	566	50
FTR 750T/P	331	145	656	260	279	710	569	1" ¼	297	55	130	200	100	95	140	290	600	65
FTR 1000T/P	331	145	656	260	279	710	569	1" ¼	297	55	130	250	100	95	140	290	600	65

TYPE	PROTECTION		1 PUMP CONTROL PANEL			2 PUMPS CONTROL PANEL		
	1~ 230V	3~ 400V	1~ 230V	3~ 400V	400/690 V	1~ 230V	3~ 400V	400/690 V
FTR 150	PMLD 15/35-13	PT 20-30-40/4.3-6.8	EQSM + 35µF + 80µF*	EQSMT 10		EQ2SM + 2×35µF + 2×80µF*	EQ2SMT 10	
FTR 200	PMLD 20/50-15	PT 20-30-40/4.3-6.8	EQSM + 50µF + 80µF*	EQSMT 10		EQ2SM + 2×50µF + 2×80µF*	EQ2SMT 10	
FTR 300T		PT 20-30-40/4.3-6.8		EQSMT 10			EQ2SMT 10	
FTR 400T		PT 40-50/5.7-9.1		EQSMT 10			EQ2SMT 10	
FTR 550T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FTR 750T		PT 100/12.5-16.5		EQSMT 10	QST 7		EQ2SMT 10	Q2ST 7
FTR 1000T		PT 125-150/16-21		EQSMT 10	QST 10		EQ2SMT 15	Q2ST 10

**start capacitor with disjuntor*

DC


DC 80-102


DC 150

Drainage pumps with set-back Vortex type impeller for pumping sewage waters and liquids with suspended solids; ideal for civil and household applications. The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.


DC 80-102


DC 150

Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Shell, motor cover, base support	stainless steel
Impeller	Vortex stainless steel (80-102); brass (150)
Mechanical seal	double seal with oil barrier: pump side with silicon carbide mechanical seal; motor side with sealing ring (80÷102) or ceramic-graphite mechanical seal (150)
Motor shaft	stainless steel AISI 430
Free passage	Ø max 35 mm (80-100) Ø max 50 mm (82÷150)
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
G	float switch

Motor

2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DC 80÷102(T)	80×120×150	57	80×110×195	72
			80×120×195	76
DC 82(T)	80×120×160	48	80×120×200	64
DC 150(T)	80×120×160	51	80×120×200	64

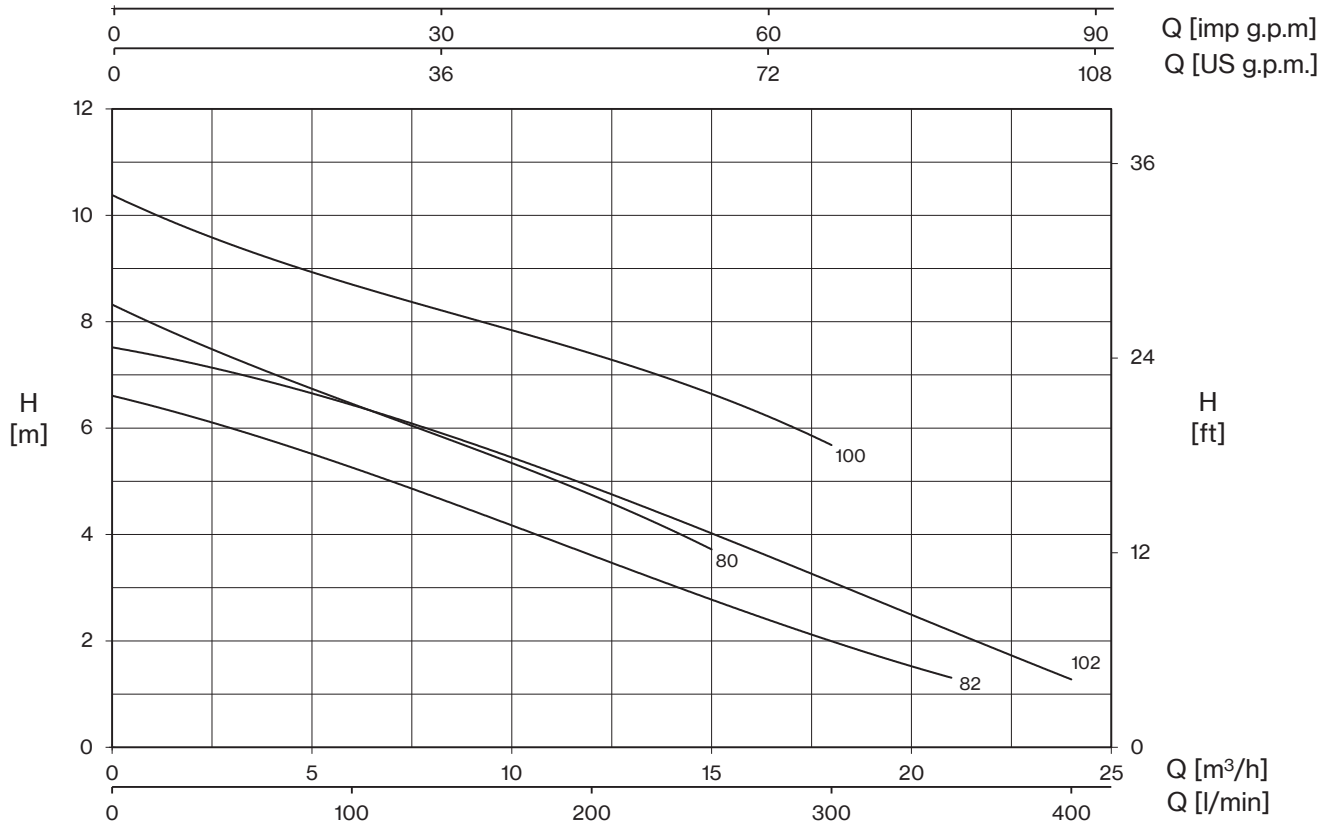
DC 80 G

- **T** 3~
- 1~ without float switch
- **G** 1~ with float switch

delivery port size
- standard
- **/2** larger

pump type

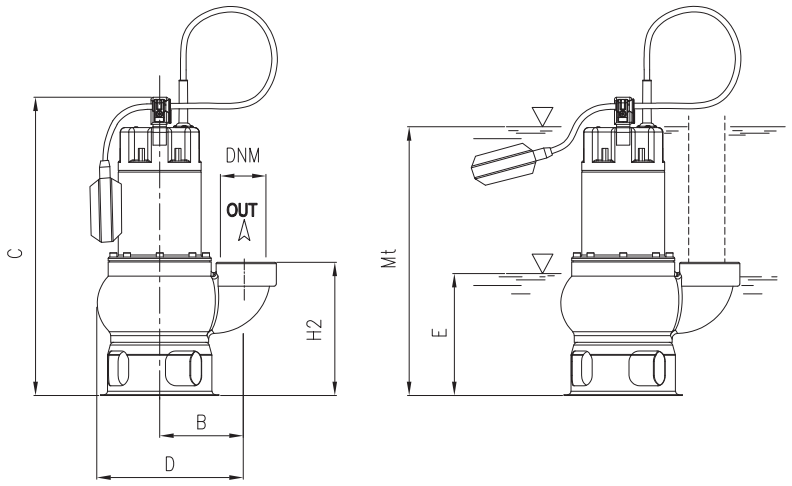
DC



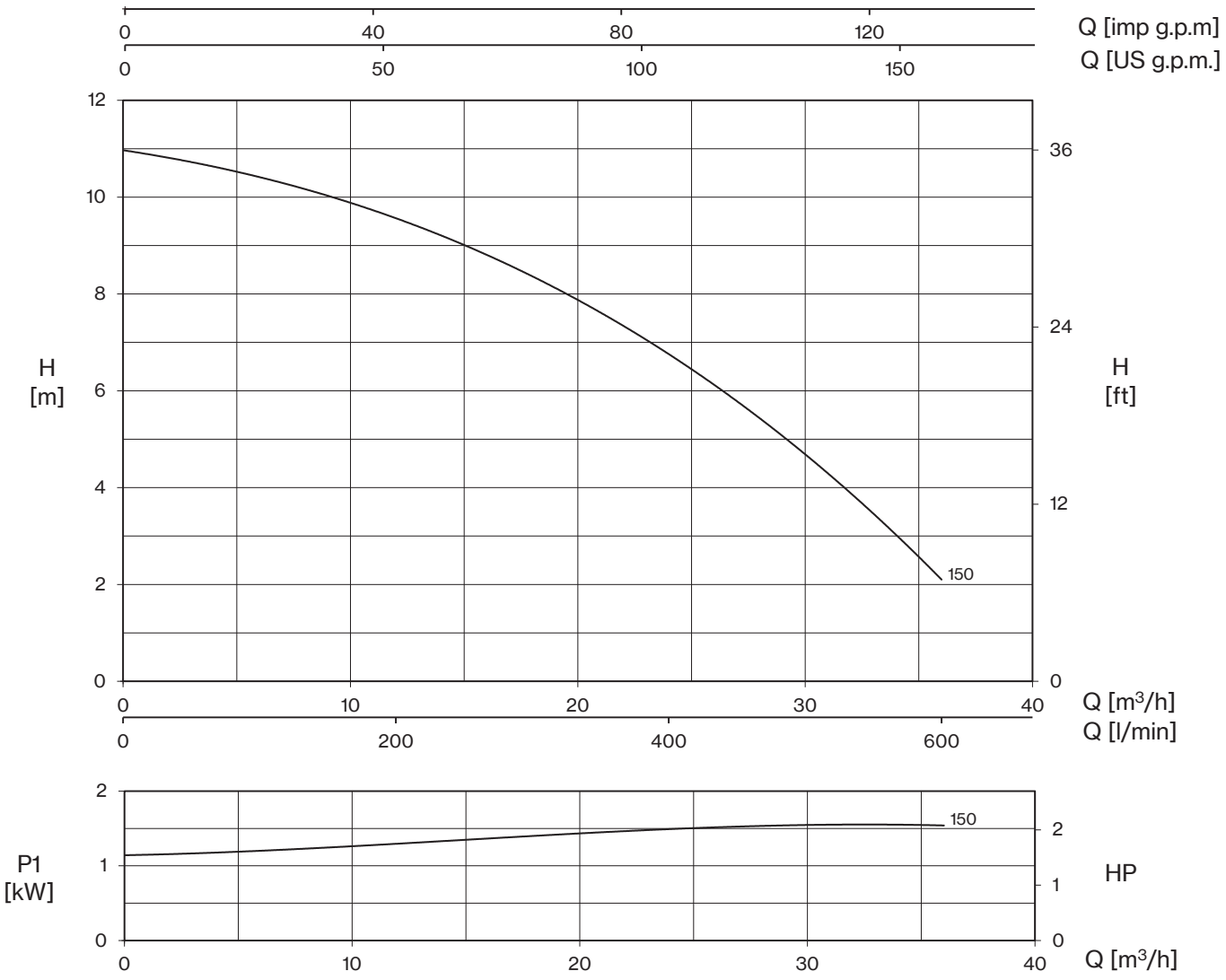
TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)								
1~	3~		1~ 230V	3~ 400V	0	3	6	9	12	15	18	21	24
					0	50	100	150	200	250	300	350	400
		kW	A		H (m)								
DC 80 (G)	**DC 80T**	1,05	4,7	2,2	8,3	7,4	6,4	5,6	4,8	3,7			
DC 80/2 (G)	**DC 80/2T**	1,05	4,7	2,2	8,3	7,4	6,4	5,6	4,8	3,7			
DC 100 (G)	**DC 100T**	1,35	6,2	2,8	10,4	9,4	8,7	8,1	7,4	6,6	5,7		
DC 100/2 (G)	**DC 100/2T**	1,35	6,2	2,8	10,4	9,4	8,7	8,1	7,4	6,6	5,7		
DC 82 (G)	**DC 82T**	1	4,5	2,1	6,6	6	5,3	4,4	3,6	2,8	2	1,3	
DC 102 (G)	**DC 102T**	1,2	5,3	2,4	7,5	7,1	6,4	5,7	4,9	4	3,2	2,1	1,3

E: maximum emptying level

Mt: minimum liquid level for continuos duty

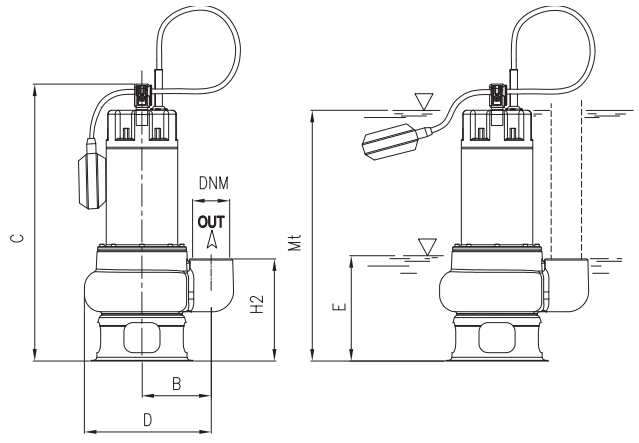


TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
DC 80 (G)	**DC 80T**	115	421	199	155	174	370	1"½ G	250	183	448	13,5
DC 80/2 (G)	**DC 80/2T**	115	421	199	155	174	370	2" G	250	183	448	14
DC 100 (G)	**DC 100T**	115	421	199	155	174	370	1"½ G	250	183	448	15,5
DC 100/2 (G)	**DC 100/2T**	115	421	199	155	174	370	2" G	250	183	448	15,5
DC 82 (G)	**DC 82T**	120	437	210	171	190	386	2" G	264	203	482	15
DC 102 (G)	**DC 102T**	120	437	210	171	190	386	2" G	264	203	482	16



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)						
1~	3~		1~ 230V	3~ 400V	0	6	12	18	24	30	36
					0	100	200	300	400	500	600
		kW	A		H (m)						
DC 150 (G)	**DC 150T**	1,55	7,1	2,9	11,0	10,4	9,6	8,3	6,8	4,6	2,1

E: maximum emptying level
Mt: minimum liquid level for continuos duty



TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
DC 150 (G)	**DC 150T**	115	469	210	160	170	417	2" G	200	260	470	19

DS



Drainage pumps with set-back Vortex type impeller for pumping charged waters and liquids with suspended solids; ideal for civil and household applications. The single-phase version includes a built-in capacitor, a thermal protector and it can be equipped with a float switch.



Grey water

Black water

Construction features

Pump body	stainless steel with openings 1"½ and 2"
Shell, motor cover, base support	stainless steel
Impeller	stainless steel Vortex type
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, sealing ring on motor side
Motor shaft	stainless steel AISI 430
Free passage	Ø max 28 mm
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
G	float switch

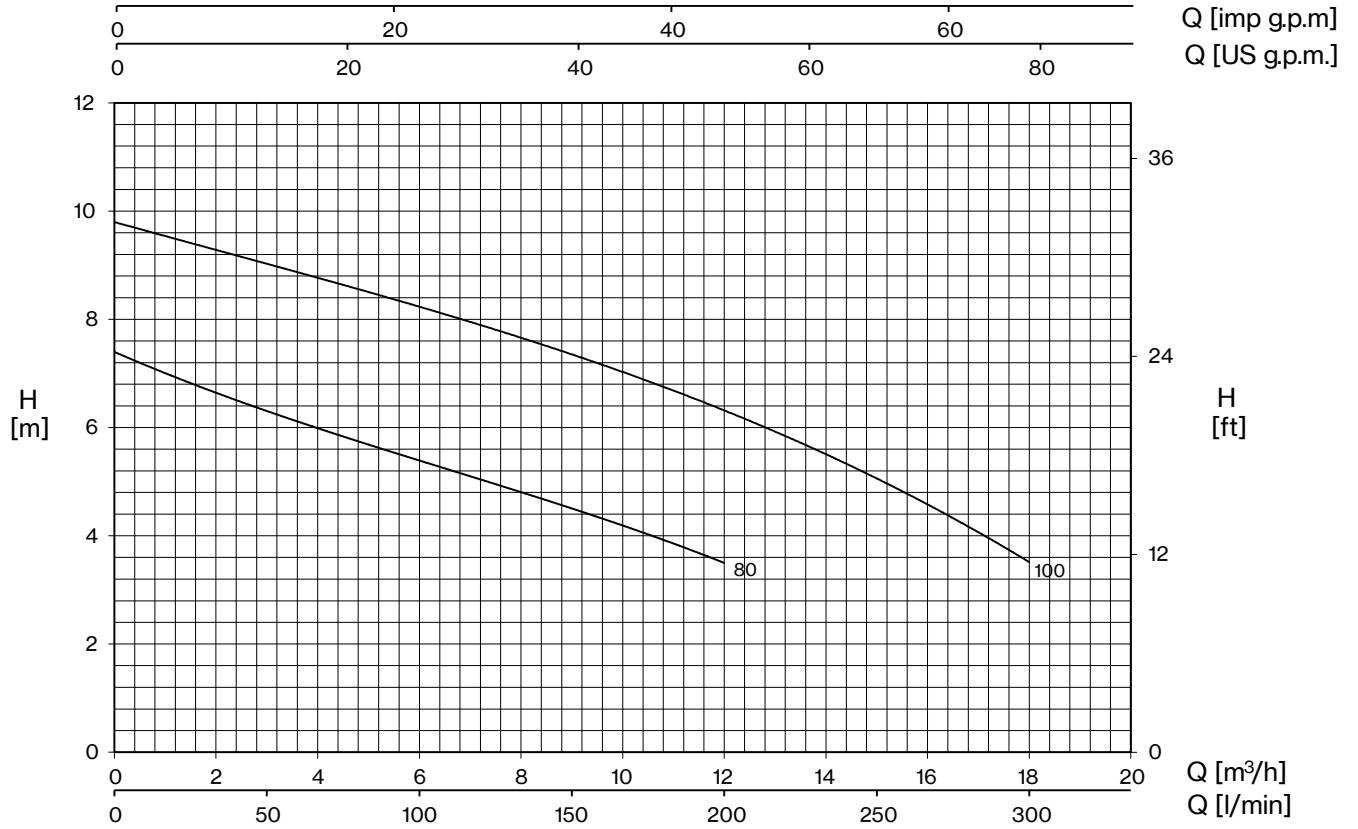
Motor

2 Poles induction motor	3~ 400V - 50Hz 1~ 230V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DS(T)	80×120×150	57	85×120×190	76
			85×110×190	72

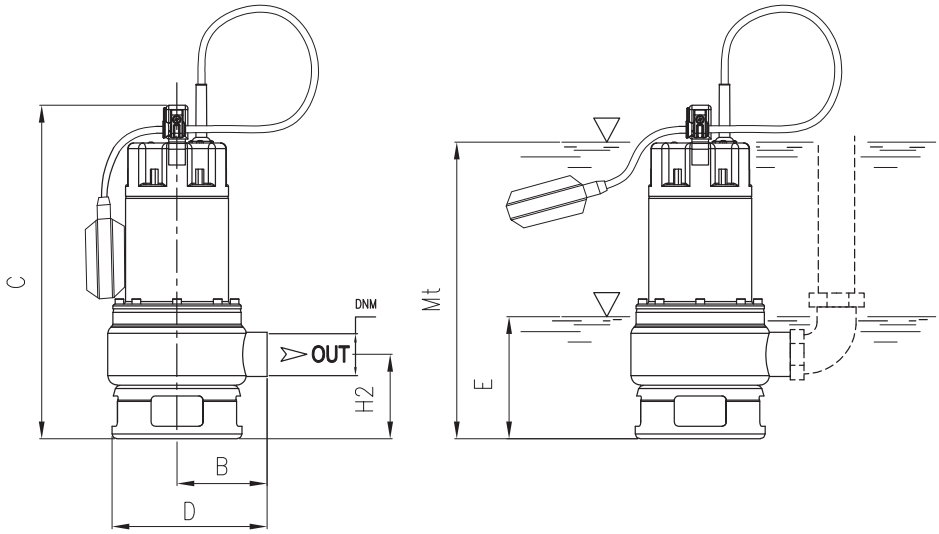
DS 80 [ ] [G]

- pump type
- delivery port size: [ ] standard; [/2] larger
- [T] 3~; [ ] 1~ without float switch; [G] 1~ with float switch



TYPE - 50 Hz		P1	CURRENT		Q (m³/h - l/min)						
1~	3~		1~ 230V	3~ 400V	0	3	6	9	12	15	18
					0	50	100	150	200	250	300
		kW	A		H (m)						
DS 80 (G)	**DS 80T**	1050	4,7	2,2	7,4	6,3	5,4	4,5	3,5		
DS 80/2 (G)	**DS 80/2T**	1050	4,7	2,2	7,4	6,3	5,4	4,5	3,5		
DS 100 (G)	**DS 100T**	1350	6,2	2,8	9,8	9	8,3	7,3	6,3	5,1	3,5
DS 100/2 (G)	**DS 100/2T**	1350	6,2	2,8	9,8	9	8,3	7,3	6,3	5,1	3,5

E: maximum emptying level
Mt: minimum liquid level for continuos duty



TYPE		DIMENSIONS (mm)										Kg
1~	3~	B	C	D	E	H2	Mt	DNM	I	L	M	
DS 80 (G)	**DS 80T**	104	409,5	189	125	112	280	1" ½ G	250	183	448	10,5
DS 80/2 (G)	**DS 80/2T**	108	409,5	193	125	112	280	2" G	250	183	448	10,5
DS 100 (G)	**DS 100T**	104	409,5	189	125	112	280	1" ½ G	250	183	448	12
DS 100/2 (G)	**DS 100/2T**	108	409,5	193	125	112	280	2" G	250	183	448	12

FV

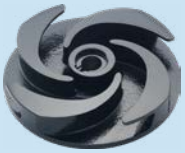
FV 160-1000



FV 160-1000/P



Drainage pumps for charged liquids with set-back Vortex type impeller for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Free passage	Ø max 50 mm (160÷310; 750-1000) Ø max 45 mm (400-550)
Max submergence	20 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

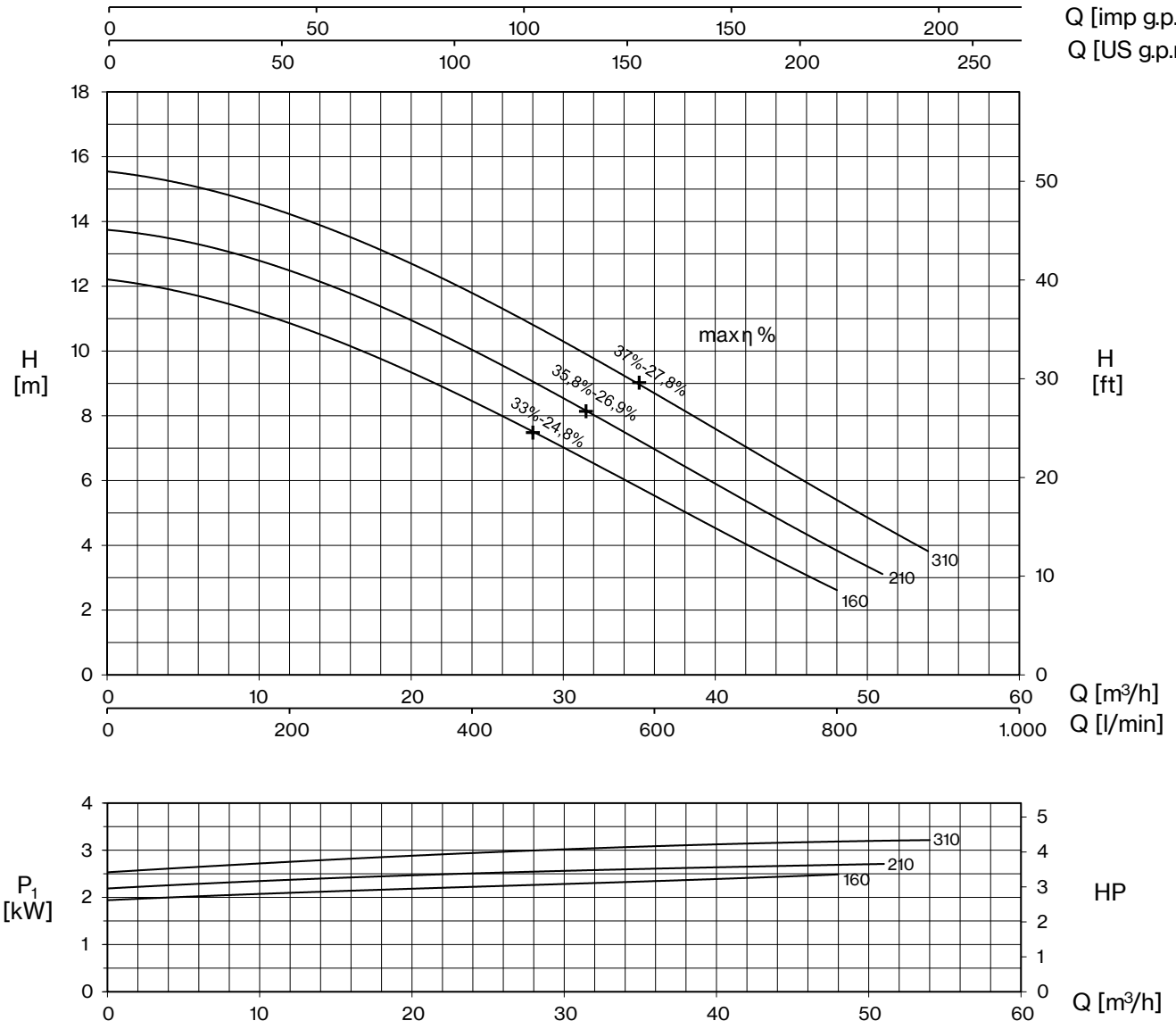
Motor

2 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz 1~ 230V - 50Hz required run capacitor (35µF for 1,5HP model, 50µF for 2HP model)
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FV 160÷310(T)	85×110×145	18	85×110×190	27
FV 400T-550T	85×110×170	12	85×110×170	12
FV 750T-1000T	100×120×190	12	100×120×190	12

FV 160 T -CF

- pump type
- motor: 1~ / **T** 3~
- counter-flange: not included / **CF** included



TYPE - 50 Hz		CURRENT				
1~	3~	230V	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FV 160	**FV 160T**	11,3	7,1	4,1	-	-
FV 210	**FV 210T**	12,6	8,7	5,0	-	-
-	**FV 310T**	-	9,9	5,7	-	-

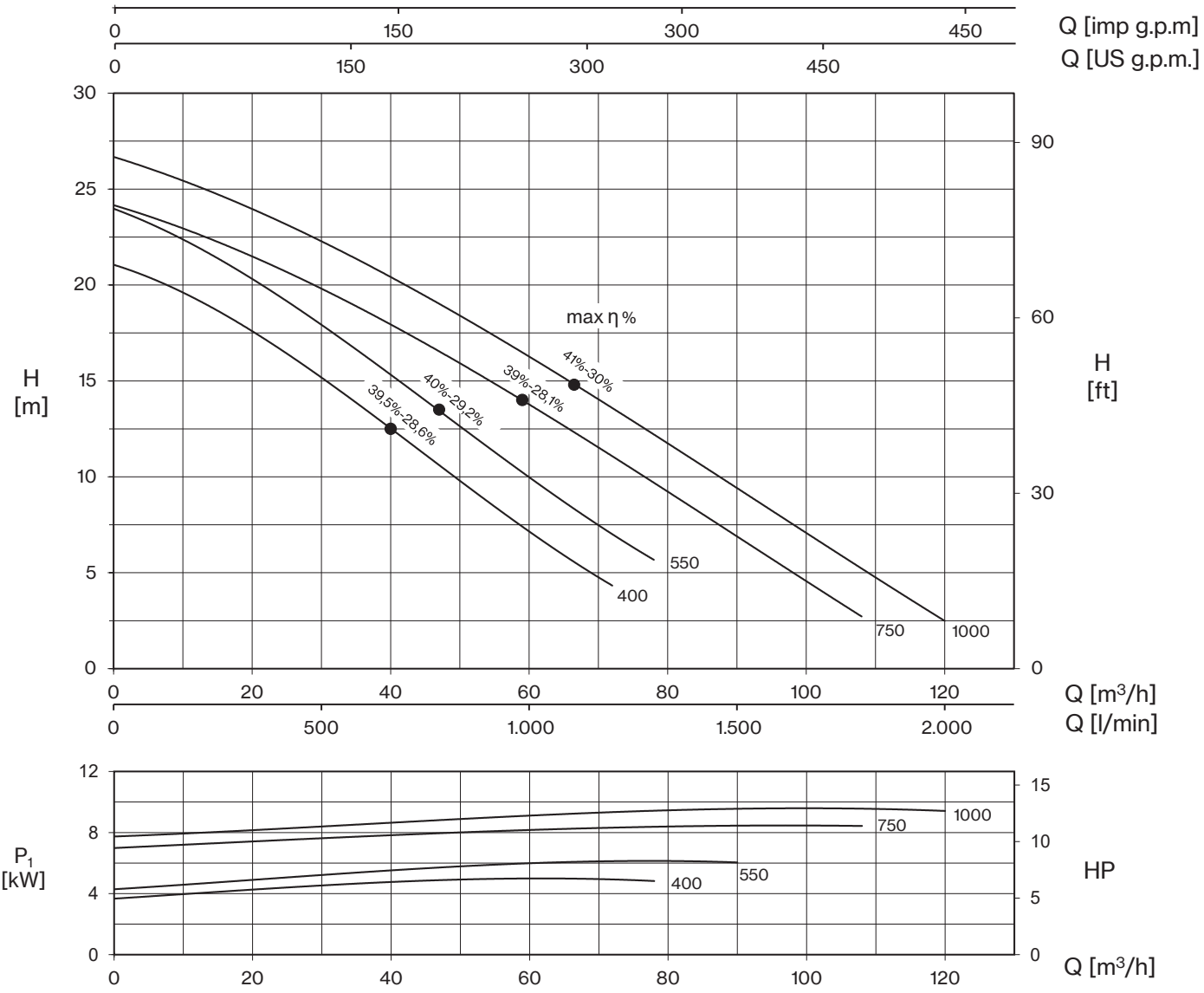
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz		P2		P1		Q (m³/h - l/min)							
1~	3~			1~	3~	0	12	24	36	42	48	51	54
						0	200	400	600	700	800	850	900
		HP	kW	kW		H (m)							
FV 160	**FV 160T**	1,5	1,1	2,5	2,3	12,2	10,9	8,4	5,6	4,1	2,6		
FV 210	**FV 210T**	2	1,5	2,8	2,7	13,7	12,6	9,9	7,0	5,4	3,8	3,1	
-	**FV 310T**	3	2,2	-	3,3	15,5	14,4	11,6	8,8	7,1	5,4	4,5	3,8

FV



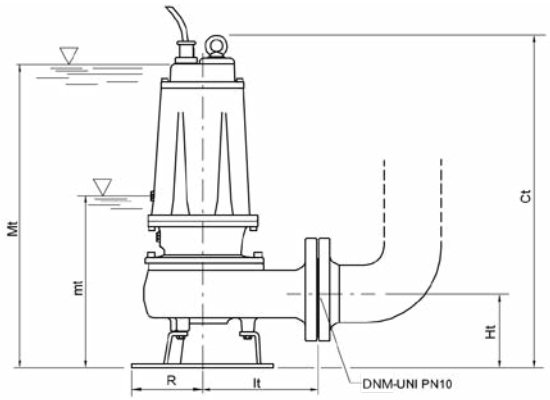
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / Δ (*)	400/690 V ⅄ / Δ
FV 400T	14,1	8,1	-	-
FV 550T	18,1	10,4	-	-
FV 750T	-	14,4	25	14,4
FV 1000T	-	16,4	28,5	16,4

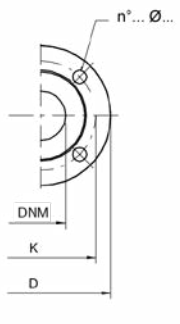
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)																
3~				0	12	24	36	42	48	51	54	60	72	78	84	90	96	108	114	120
				0	200	400	600	700	800	850	900	1000	1200	1300	1400	1500	1600	1800	1900	2000
	HP	kW	kW	H (m)																
FV 400T	4	3	4,9	21,0	19,4	16,6	13,5	12,0	10,4	9,6	8,8	7,2	4,3	2,8						
FV 550T	5,5	4	6,1	23,9	22,2	19,3	16,3	14,8	13,2	12,4	11,6	10	7,1	5,6	4,1	2,6				
FV 750T	7,5	5,5	8,5	24,2	22,7	20,7	18,7	17,6	16,4	15,8	15,2	13,9	11,1	9,7	8,2	6,8	5,4	2,8		
FV 1000T	10	7,5	9,6	26,7	25,2	23,2	21,2	20,0	18,8	18,2	17,6	16,3	13,7	12,3	10,8	9,4	8,0	5,1	3,8	2,6

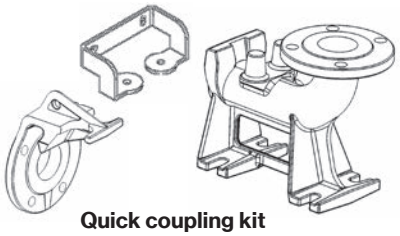




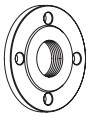
mt: minimum working level

Mt: minimum submengence level for continuos duty

ACCESSORIES

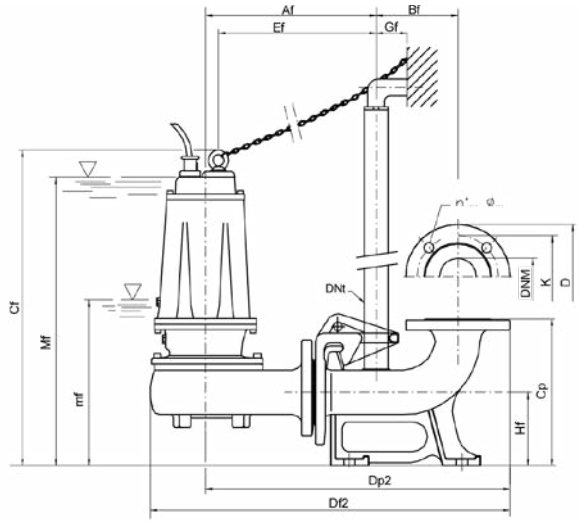


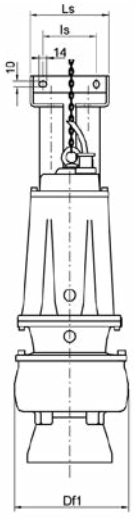
Quick coupling kit

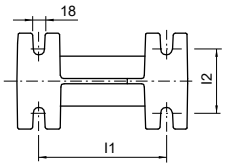


Counterflange

TYPE		DIMENSIONS (mm)							Kg	
1~	3~	Ct	Ht	R	It	mt	Mt	DNM	1~	3~
FV 160	**FV 160T**	551	123	117	191	243	513	65	40,5	39,5
FV 210	**FV 210T**	551	123	117	191	243	513	65	-	40,5
-	**FV 310T**	551	123	117	191	243	513	65	-	41,5
-	**FV 400T**	645	148	160	210	285	600	80	-	68
-	**FV 550T**	645	148	160	210	285	600	80	-	71
-	**FV 750T**	725	178	180	232	358	670	80	-	90
-	**FV 1000T**	725	178	180	232	358	670	80	-	92,5







mf: minimum working level

Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
65	145	185	4... 18...
80	160	200	8... 18...

TYPE		DIMENSIONS (mm)																
1~	3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
FV 160/P	**FV 160T/P**	303	145	559	260	200	639	541	1" ¼	280	55	130	200	100	95	140	251	521	65
FV 210/P	**FV 210T/P**	303	145	559	260	200	639	541	1" ¼	280	55	130	200	100	95	140	251	521	65
-	**FV 310T/P**	303	145	559	260	200	639	541	1" ¼	280	55	130	200	100	95	140	251	521	65
-	**FV 400T/P**	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
-	**FV 550T/P**	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
-	**FV 750T/P**	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80
-	**FV 1000T/P**	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80

TYPE	PROTECTION		1 PUMP CONTROL PANEL			2 PUMPS CONTROL PANEL		
	1~ 230V	3~ 400V	1~ 230V	3~ 400V	400/690 V	1~ 230V	3~ 400V	400/690 V
FV 160	PMC 15/35-15	PT 20-30-40/4.3-6.8	EQSM + 35µF	EQSMT 10		EQ2SM + 35µF	EQ2SMT 10	
FV 210	PMC 20/50-18	PT 20-30-40/4.3-6.8	EQSM + 50µF	EQSMT 10		EQ2SM + 50µF	EQ2SMT 10	
FV 310T		PT 40-50/5.7-9.1		EQSMT 10			EQ2SMT 10	
FV 400T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FV 550T		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
FV 750T		PT 100/12.5-16.5		EQSMT 10	QST 7		EQ2SMT 10	Q2ST 7
FV 1000T		PT 125-150/16-21		EQSMT 10	QST 10		EQ2SMT 15	Q2ST 10

FV4

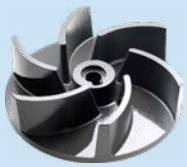
FV 250-750-4 T



FV 250-750-4 T/P



Drainage pumps for charged liquids with set-back Vortex type impeller for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Free passage	Ø max 50 mm
Max submergence	20 m
Liquid temperature	0 - 40 °C
Cable	H07 RN8F, 10 m
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

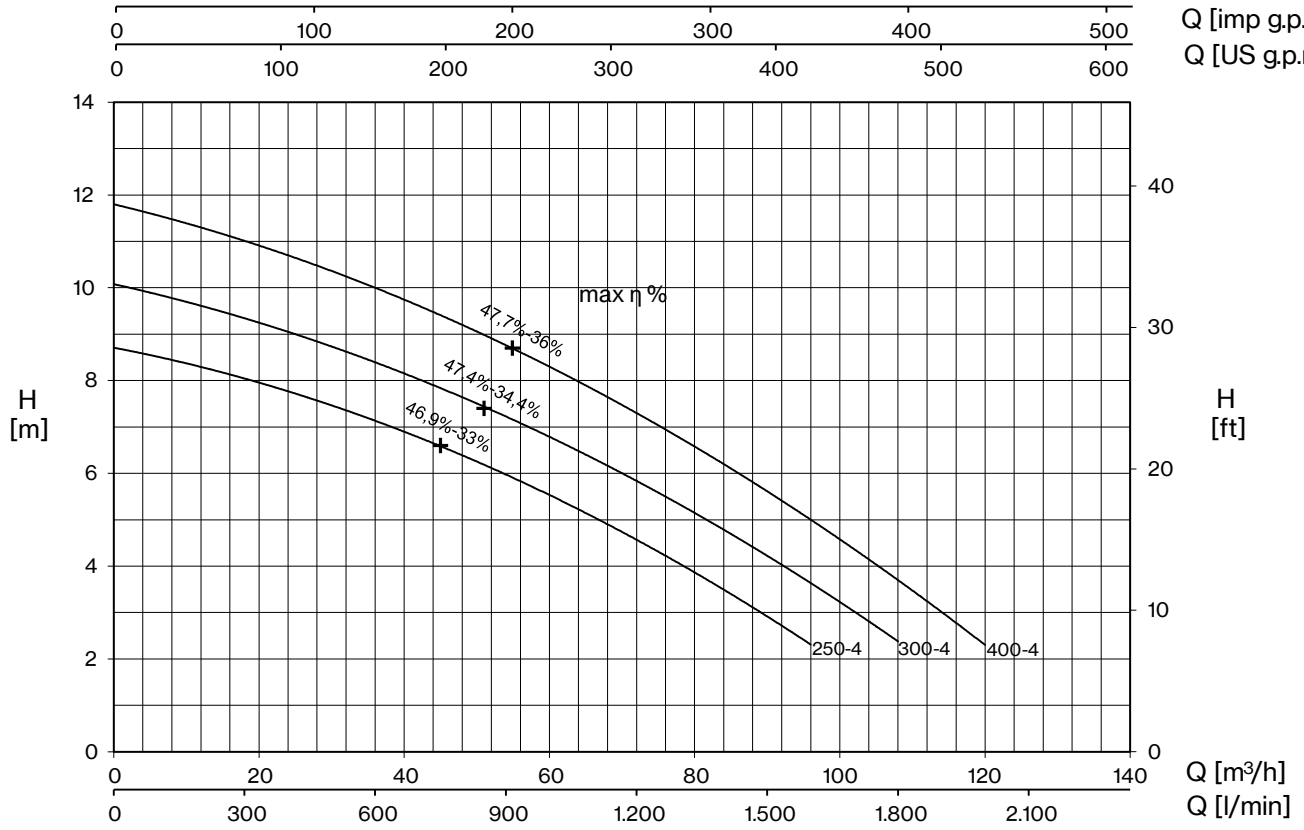
Motor

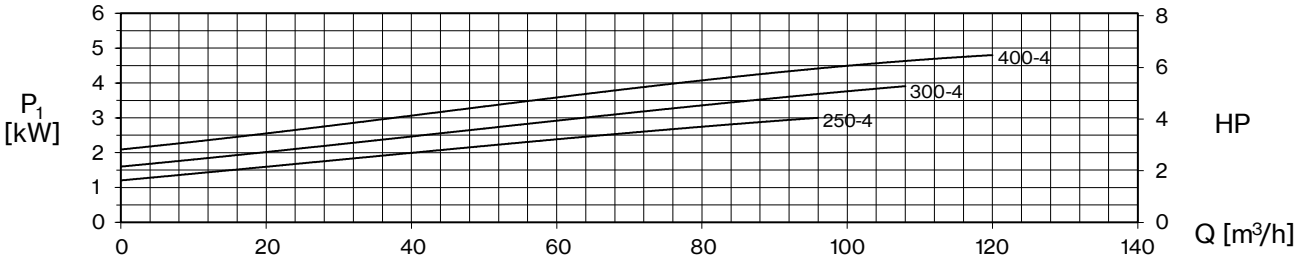
4 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz
Insulation class	F
Protection degree	IPX8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
FV 250-4÷750-4T	85×110×190	8	100×120×190	12

FV 550 - 4 T -CF

- pump type
- poles
- motor **T** 3~
- counter-flange — not included / **CF** included





TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FV 250-4T	10,0	5,8	-	-
FV 300-4T	11,8	6,8	-	-
FV 400-4T	15,1	8,7	-	-

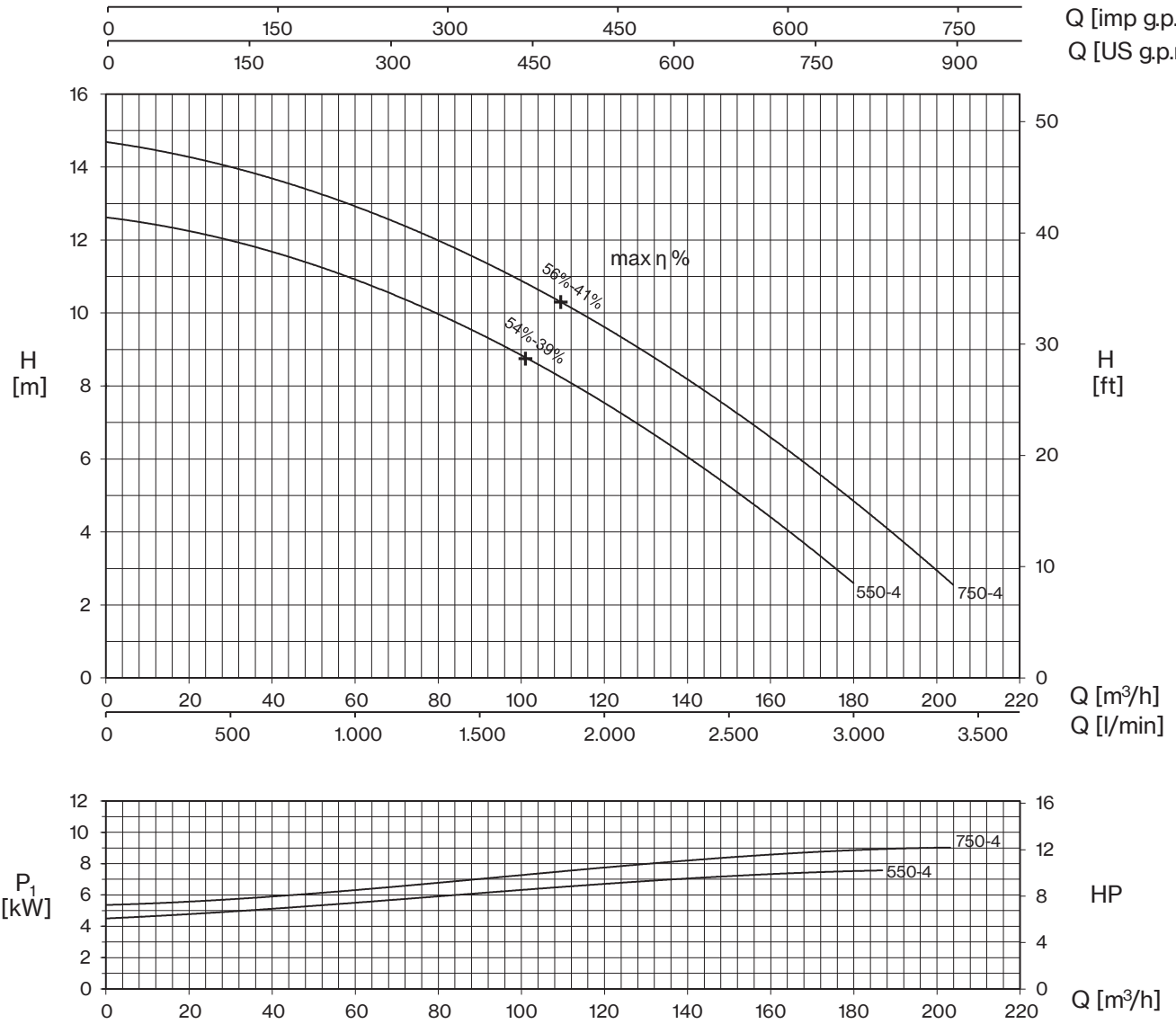
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)										
				0	12	24	36	48	60	72	84	96	108	120
3~				0	200	400	600	800	1000	1200	1400	1600	1800	2000
	HP	kW	kW	H (m)										
FV 250-4T	2,5	1,8	3,3	8,7	8,3	7,8	7,1	6,4	5,5	4,6	3,5	2,3		
FV 300-4T	3	2,2	4,1	10,1	9,6	9	8,4	7,7	6,8	5,8	4,8	3,6	2,4	
FV 400-4T	4	3	4,9	11,8	11,3	10,7	10	9,2	8,3	7,3	6,2	5	3,7	2,3

FV4



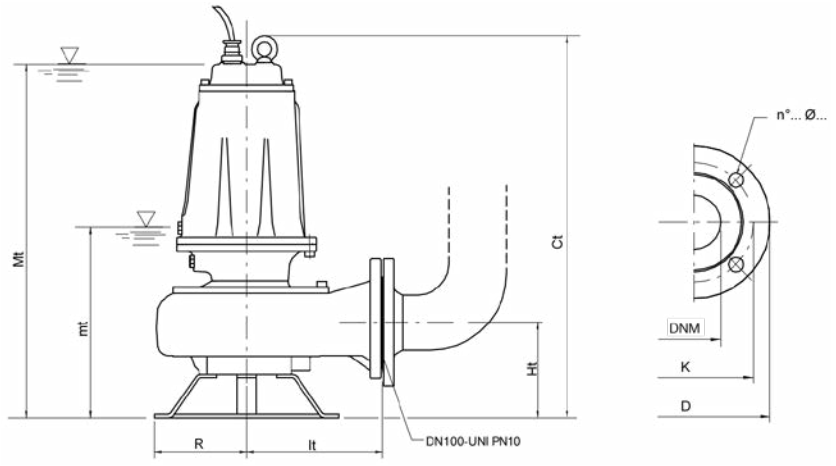
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
FV 550-4T	-	12,9	22,3	12,9
FV 750-4T	-	15,4	26,6	15,4

(*) no standard execution

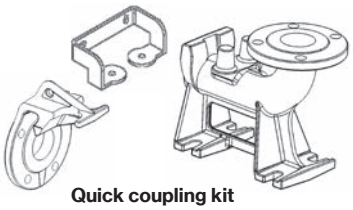
+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)										
3~				0	24	48	72	96	120	144	168	180	192	204
				0	400	800	1200	1600	2000	2400	2800	3000	3200	3400
	HP	kW	kW	H (m)										
FV 550-4T	5,5	4	7,5	12,6	12,2	11,4	10,3	9,1	7,6	5,7	3,7	2,6		
FV 750-4T	7,5	5,5	9	14,7	14,2	13,3	12,4	11,2	9,6	7,9	5,9	4,8	3,7	2,6



ACCESSORIES



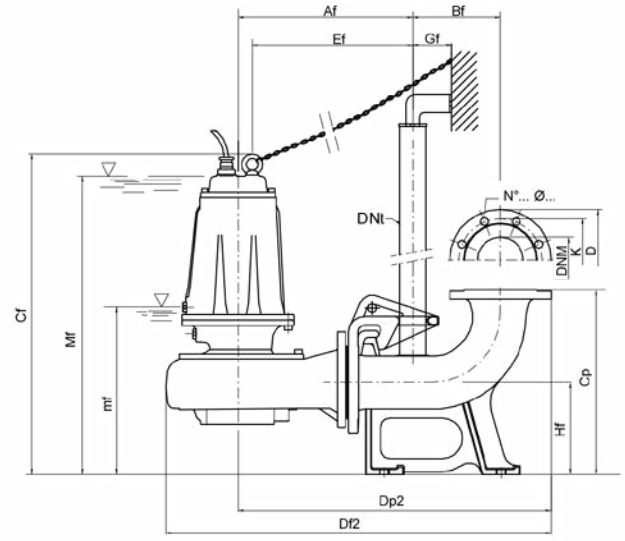
Quick coupling kit

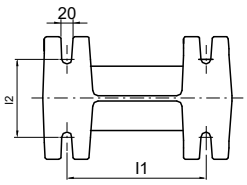


Counterflange

mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)							Kg
3~	Ct	Ht	R	It	mt	Mt	DNM	
FV 250-4T	660	165	160	235	300	614	100	69,5
FV 300-4T	660	165	160	235	300	614	100	71
FV 400-4T	660	165	160	235	300	614	100	74,5
FV 550-4T	715	195	180	276	385	695	100	101,5
FV 750-4T	715	195	180	276	385	695	100	106





mf: minimum working level
Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
100	180	220	8... 18...

TYPE	DIMENSIONS (mm)																	
3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	I1	I2	Is	Ls	mf	Mf	DNM
FV 250-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FV 300-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FV 400-4T/P	378	190	695	400	317	835	678	2”	347	85	200	250	140	130	180	335	650	100
FV 550-4T/P	419	190	755	400	371	900	719	2”	384	85	200	250	140	130	180	390	700	100
FV 750-4T/P	419	190	755	400	371	900	719	2”	384	85	200	250	140	130	180	390	700	100

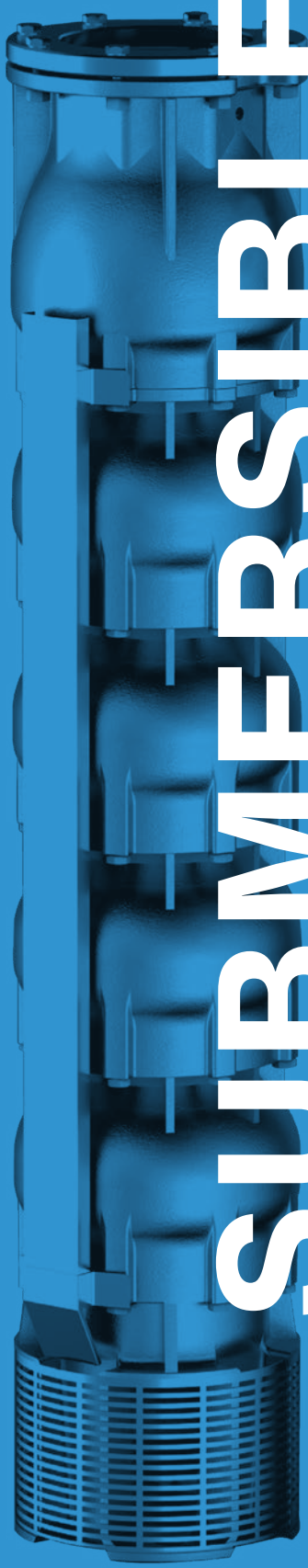
TYPE	PROTECTION	1 PUMP CONTROL PANEL		2 PUMPS CONTROL PANEL	
3~	3~ 400V	3~ 400V	400/690 V	3~ 400V	400/690 V
FV 250-4T	PT 40-50/5.7-9.1	EQSMT 10		EQ2SMT 10	
FV 300-4T	PT 40-50/5.7-9.1	EQSMT 10		EQ2SMT 10	
FV 400-4T	PT 55-75/8.6-13.5	EQSMT 10		EQ2SMT 10	
FV 550-4T	PT 55-75/8.6-13.5	EQSMT 10		EQ2SMT 10	
FV 750-4T	PT 100/12.5-16.5	EQSMT 10	QST 10	EQ2SMT 10	Q2ST 10

Foras®

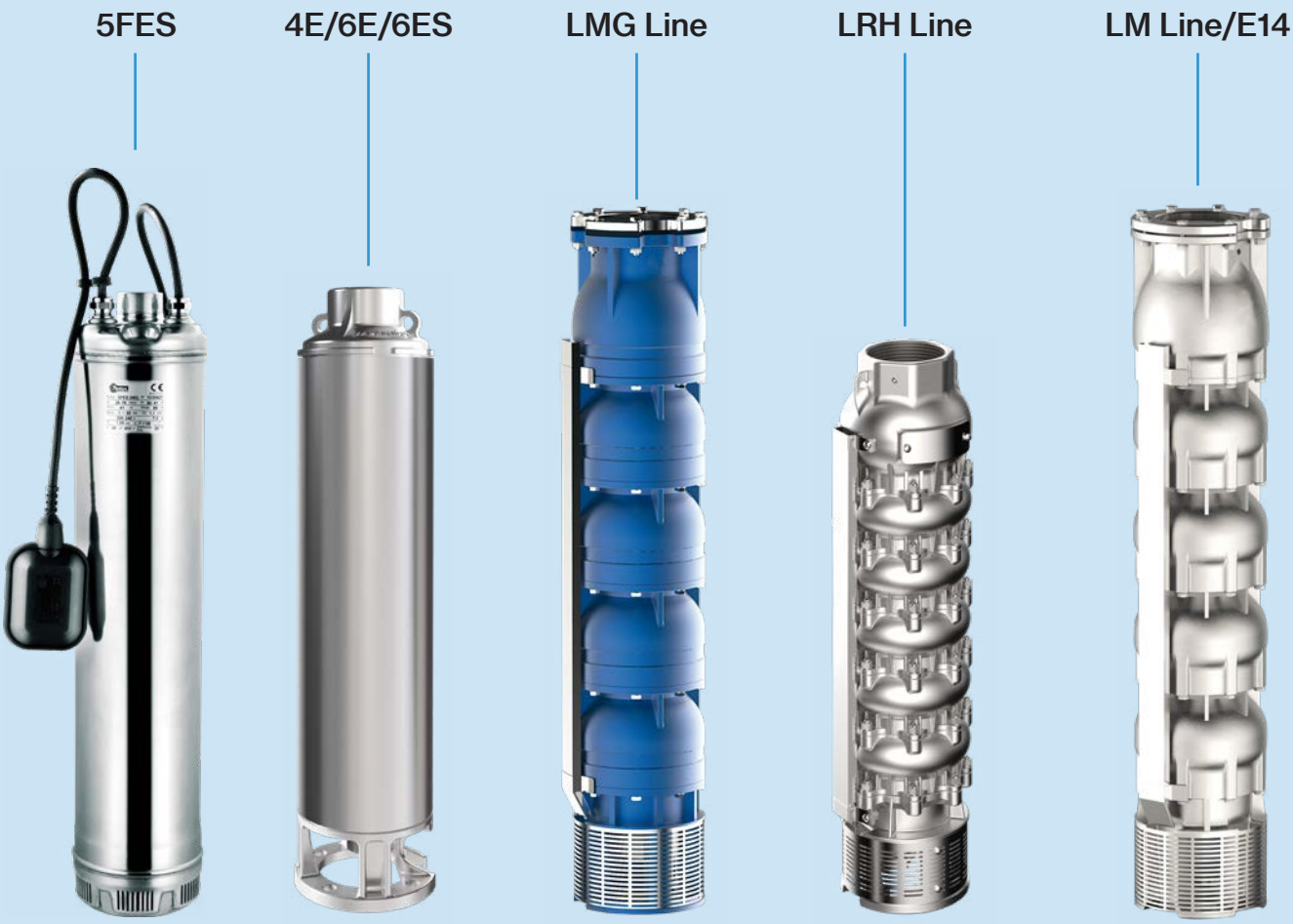
WATER PUMPS

SUBMERSIBLE WELL PUMPS





SUBMERSIBLE WELL PUMPS



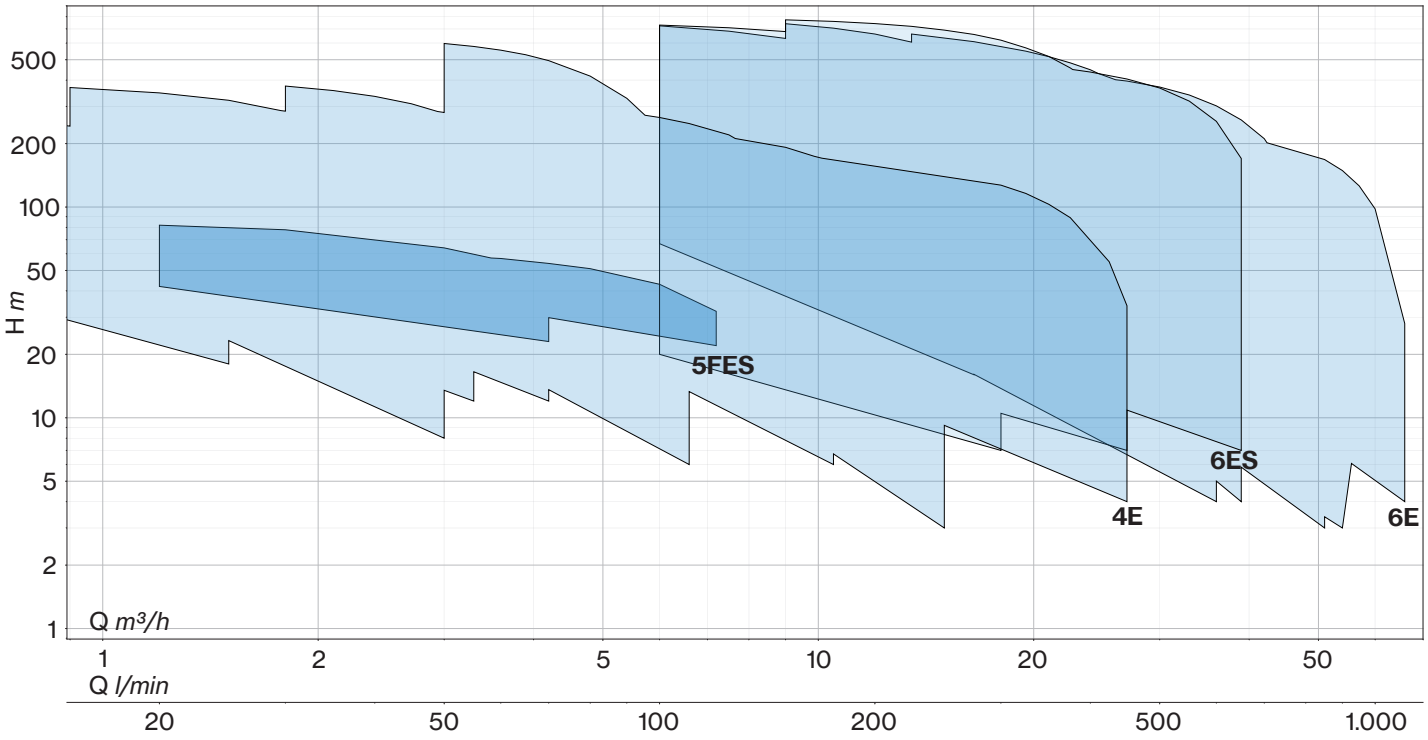
- **5FES line:** 5” electric pumps with pressed steel body and stainless steel hydraulic.
- **4E, 6E, 6ES line**: 4”, 6” electric well pumps with pressed steel body, and polymer hydraulics. Coupling to the motor according to Nema flange.
- **6- 8- 10LMG line**: 6”, 8” and 10” electric well pumps with cast iron hydraulics. Non-return valve in the delivery port and motor coupling according to Nema flange.
- **LM, LRH and E14 line**: 6”, 8”, 10”, 12” and 14” electric well pumps manufactured with a micro-casting process that allows to obtain very smooth hydraulic surfaces and therefore high hydraulic efficiency values, all combined with a high mechanical resistance thanks to the cast steel structure. The range is available in AISI304, AISI316 and Duplex steel types with flow rates up to 860m3/h and 800 m maximum head. The check valve is incorporated in the delivery port, while coupling with the motor is ensured by NEMA flanging.

Applications:

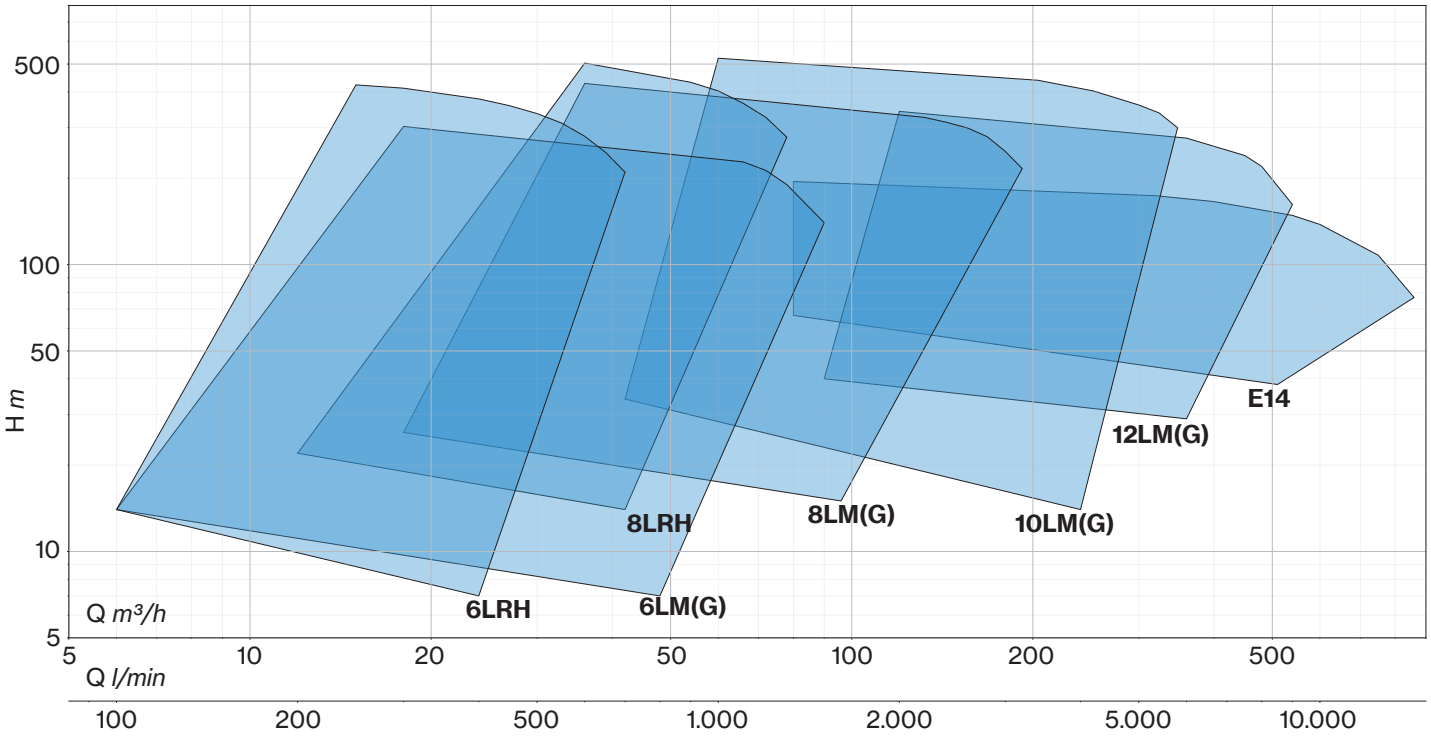
- Water supply for civil and industrial uses
- Distribution in aqueducts
- Agricultural irrigation
- Installation on wells and groundwater withdrawal
- Reverse osmosis plants

SUBMERSIBLE WELL PUMPS

Low-Medium flow

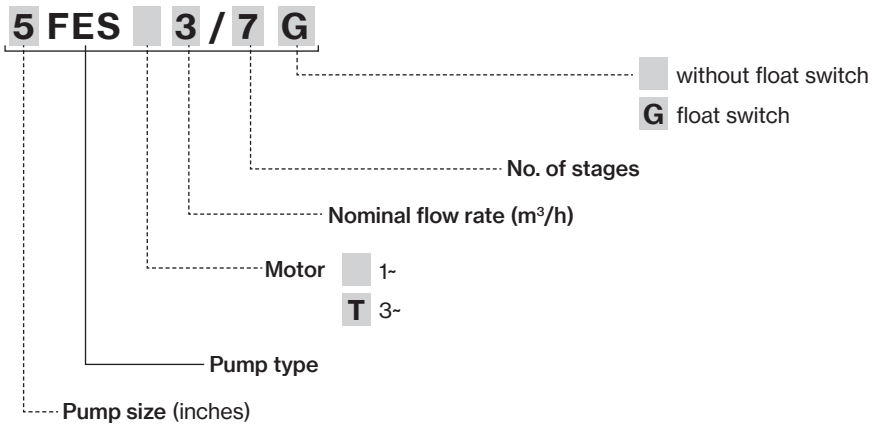


High flow

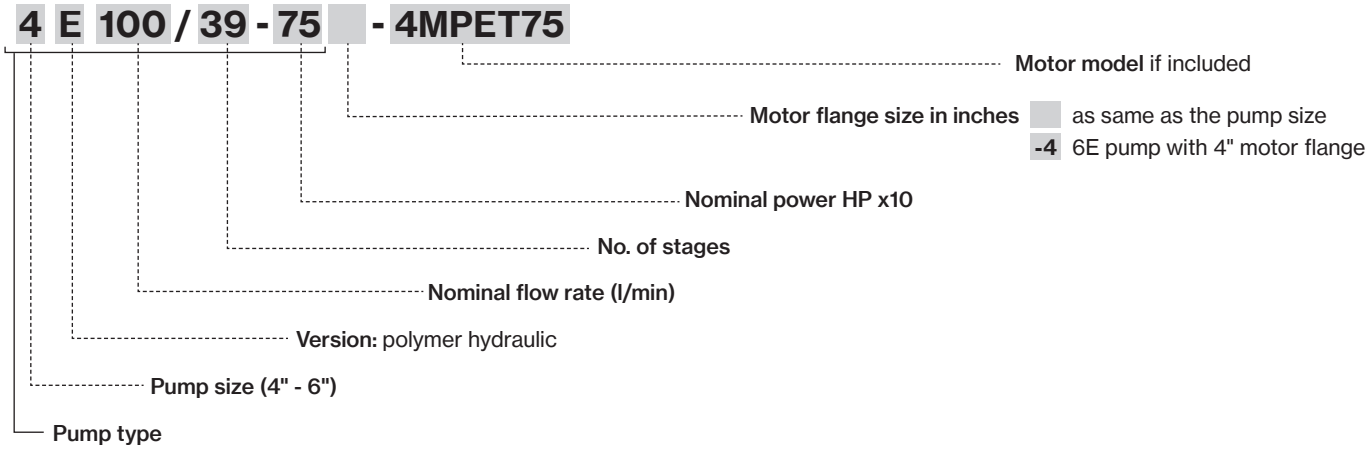


Name key

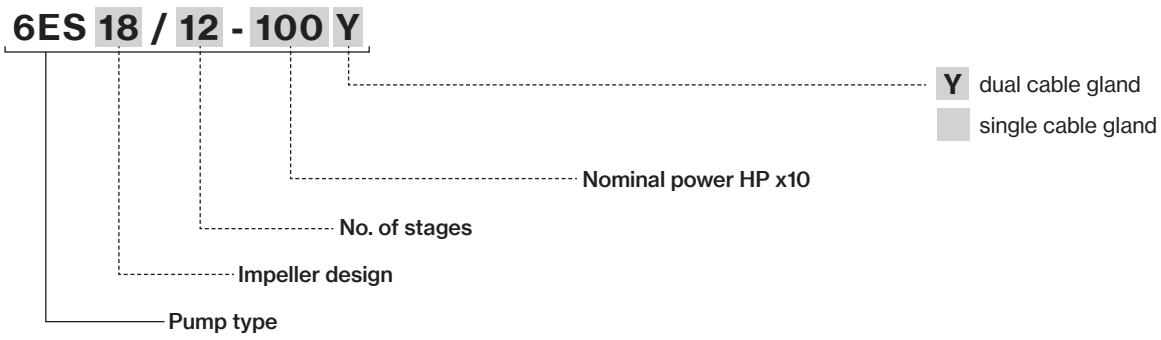
5 FES line



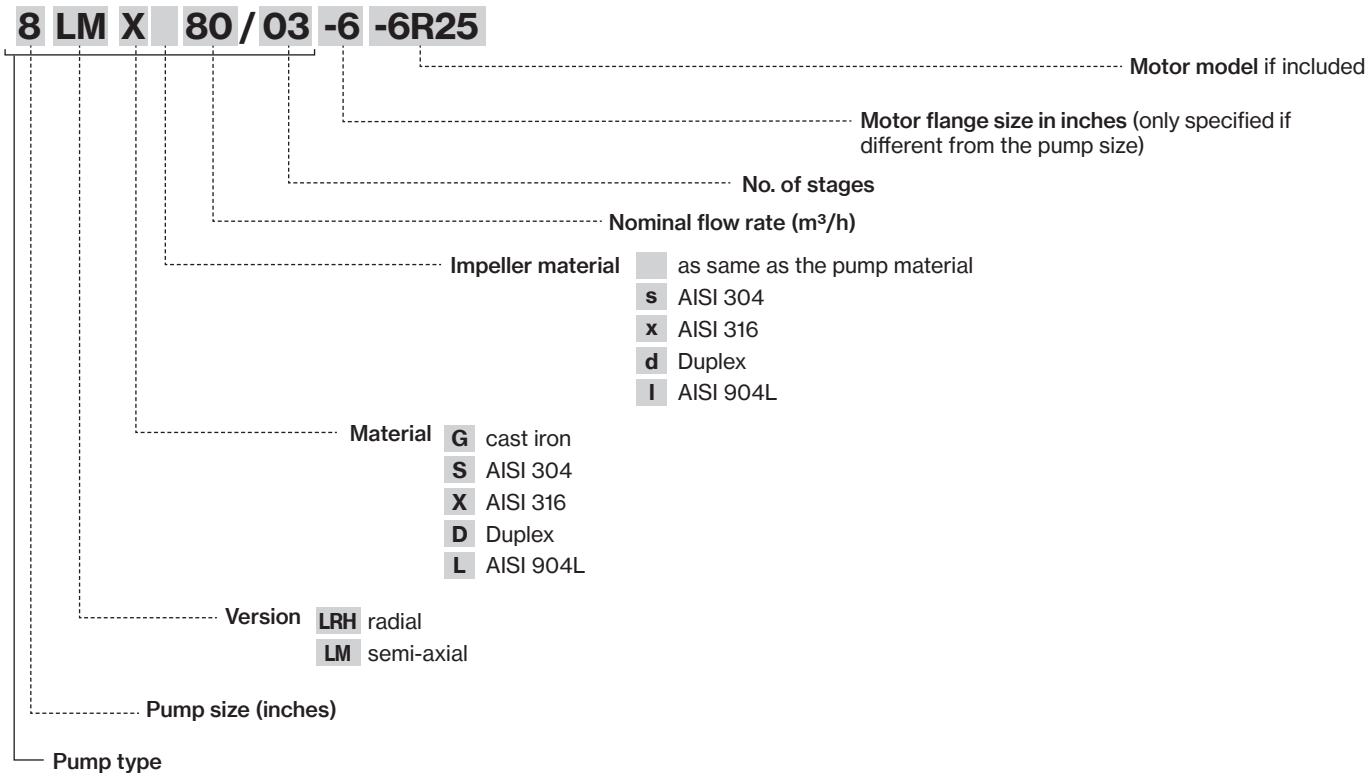
4E - 6E line



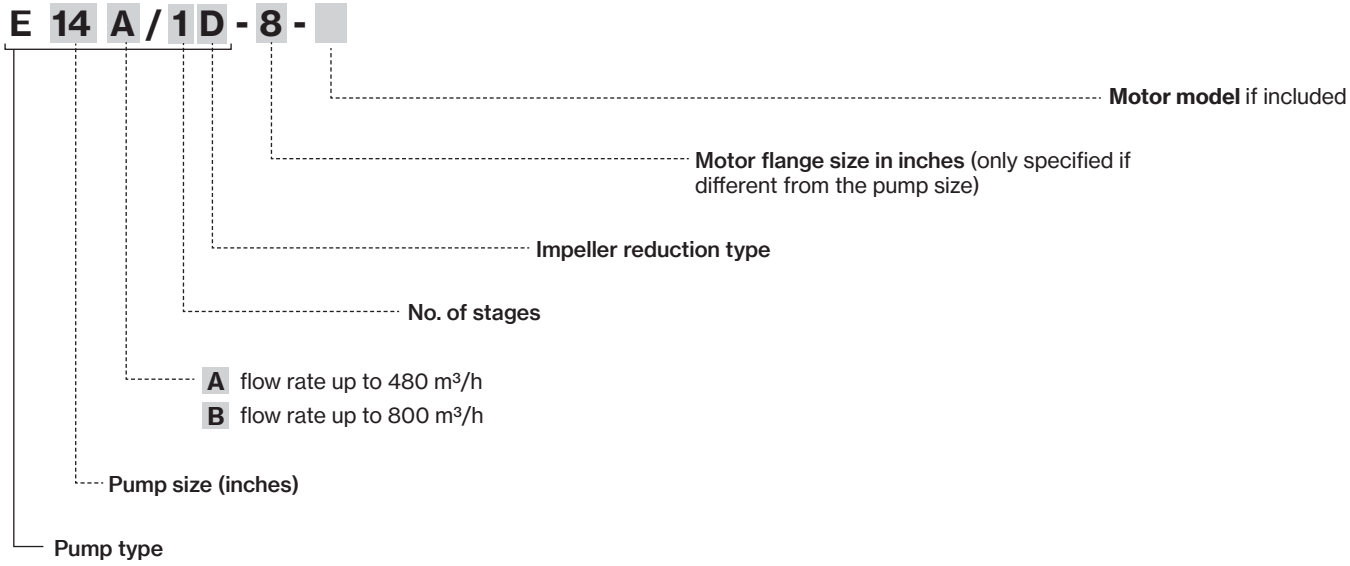
6ES line



LRH - LM lines



E14 line



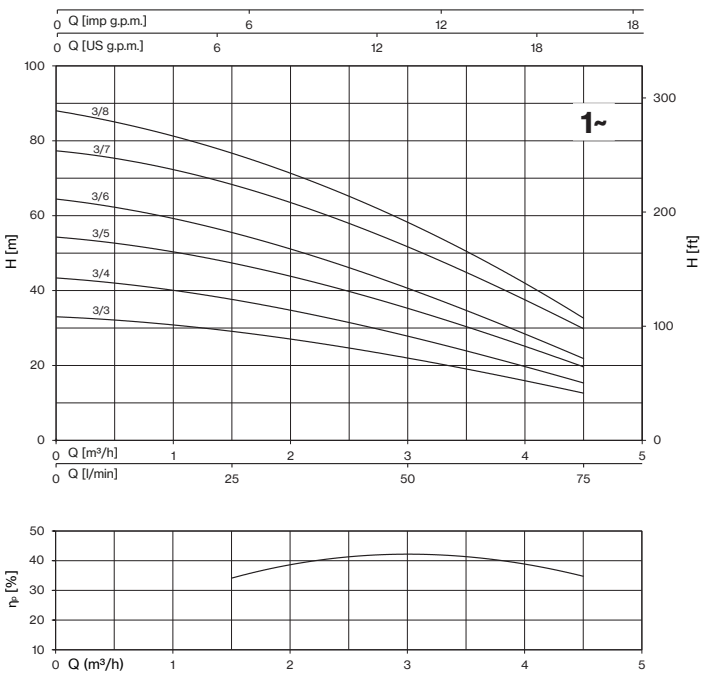
5FES

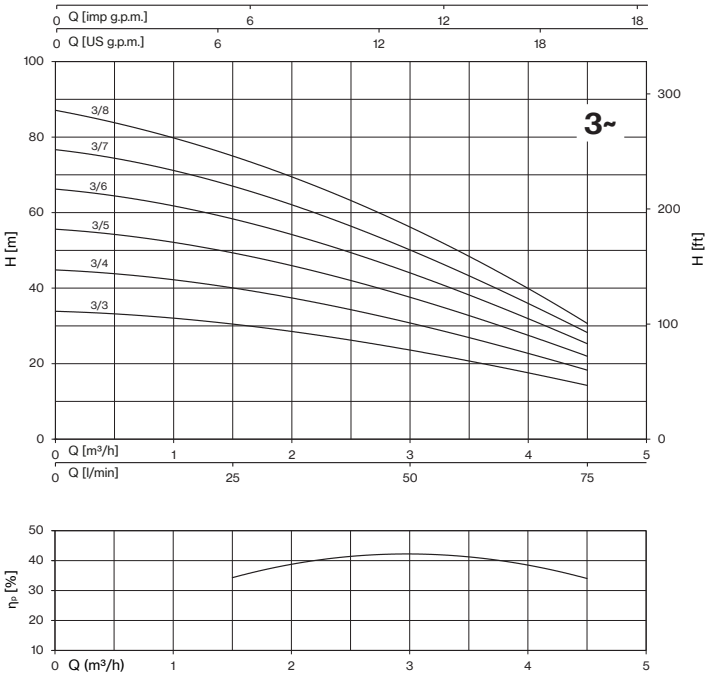


5” submersible multistage centrifugal pumps. All components in contact with fluid are made of AISI 304 stainless steel. Particulary suitable for water distribution rainwater collection, irrigation, fountains, wash down unit. Single phase versions have an internal capacitor and thermal motorprotector.

Construction features	
Delivery outlet	1” ¼ G
External jacket, impellers and diffusers	stainles steel AISI 304
Passage of solids	0,5 mm
Depth of immersion	max 20 m
Liquid temperature	+5 ÷ +40 °C
Quantity of sand in the water	max 50 g/m3
Cable	H07 RNF, 20 m
Number of startups/hr	max 40, with 1 min. resting time

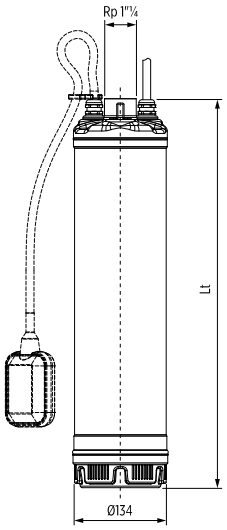
Motor	
Asynchronous 2 poles	3~ 380/415V - 50Hz 1~ 220/240V - 50Hz (with thermal protection)
Insulation class	F
Protection degree	IP68





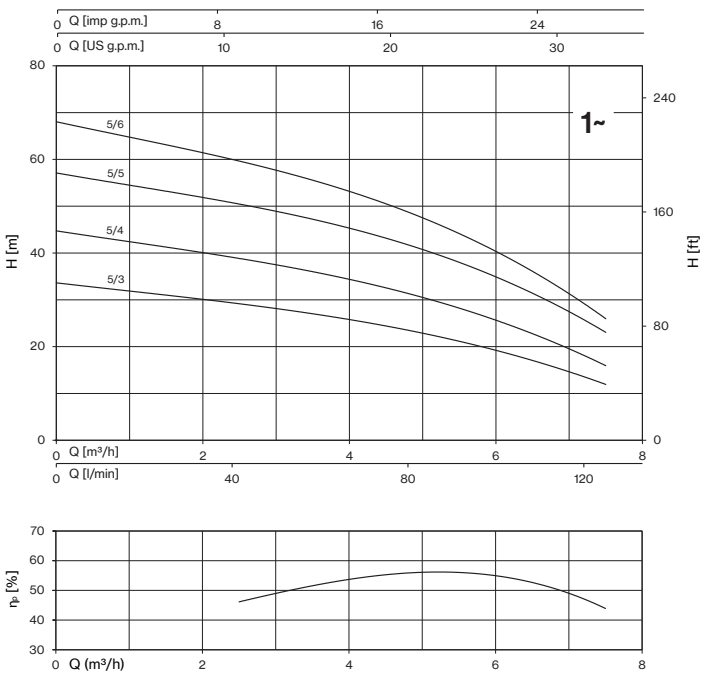
TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)					
1~				1~	0	1,5	2	2,5	3	4,5
				230 V	0	25	33,3	41,7	50	75
	HP	kW	kW	A	H (m)					
5FES 3/3	0,75	0,55	0,6	3,6	33	29,1	27,1	24,6	22	12,6
5FES 3/4	0,75	0,55	0,8	4	43,4	37,7	34,8	31,3	27,9	15,3
5FES 3/5	1	0,75	1	4,7	54,3	47,4	43,9	39,6	35,4	19,6
5FES 3/6	1	0,75	1,2	5,2	64,4	55,5	51,2	45,9	40,7	21,8
5FES 3/7	1,2	0,9	1,3	6,7	77,3	68,3	63,6	57,7	51,8	29,8
5FES 3/8	1,5	1,1	1,5	7,2	87,8	77,1	71,6	64,8	58	32,8

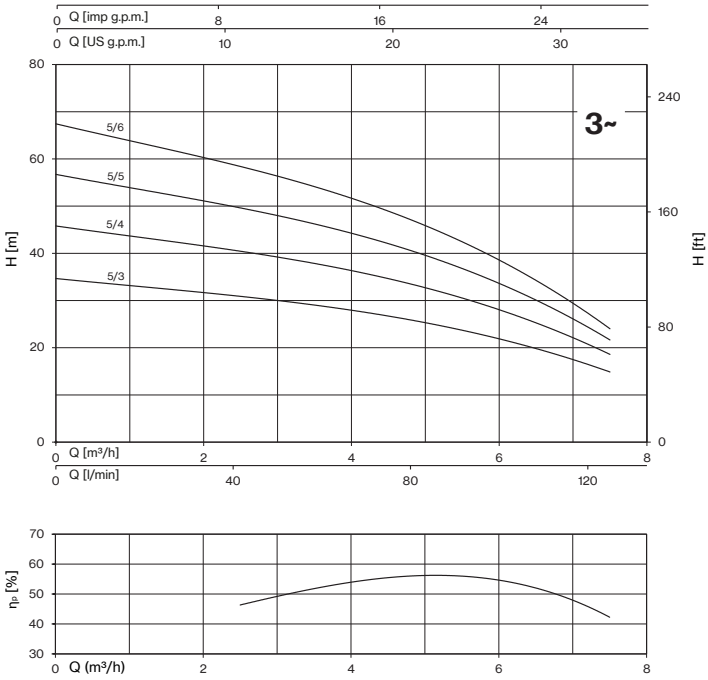
TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)					
3~				3~	0	1,5	2	2,5	3	4,5
				400 V	0	25	33,3	41,7	50	75
	HP	kW	kW	A	H (m)					
5FEST 3/3	0,75	0,55	0,6	1,8	33,9	30,5	28,5	26,2	23,6	14,2
5FEST 3/4	0,75	0,55	0,8	2	44,8	40,1	37,4	34,2	30,8	18,3
5FEST 3/5	1	0,75	1	2,1	55,6	49,3	46,0	41,9	37,6	22
5FEST 3/6	1	0,75	1,2	2,3	66,2	58,4	54,2	49,2	44,1	25,3
5FEST 3/7	1,2	0,9	1,3	2,5	76,7	67	62,1	56,2	50,2	28,2
5FEST 3/8	1,5	1,1	1,5	2,7	86,9	75,4	69,7	62,8	56	30,8



TYPE		DIMENSIONS (mm)					Kg	
1~	3~	Lt	DNM	I	L	M	1~	3~
5FES 3/3	**5FEST 3/3**	446	1" ¼ G	720	230	175	12	13,3
5FES 3/4	**5FEST 3/4**	470		720	230	175	12,7	14
5FES 3/5	**5FEST 3/5**	544		720	230	175	14,3	14,5
5FES 3/6	**5FEST 3/6**	568		720	230	175	14,8	15
5FES 3/7	**5FEST 3/7**	592		720	230	175	17	15,5
5FES 3/8	**5FEST 3/8**	616		720	230	175	17,1	16

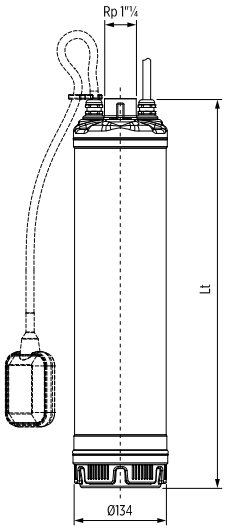
5FES 5



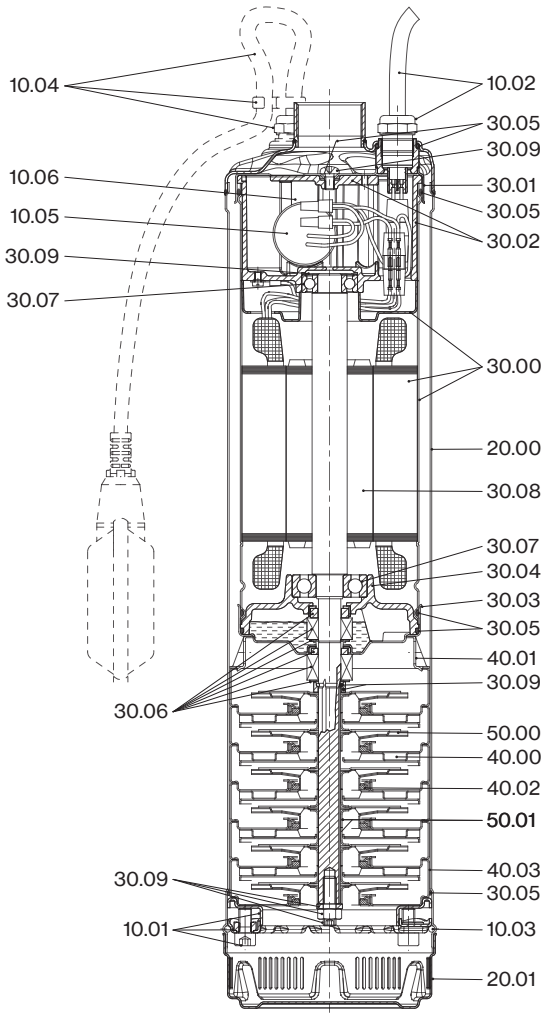


TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)						
1~				1~	0	2,5	3,0	4,5	5,0	6,0	7,5
				230 V	0	42	50,0	75,0	83	100	125
	HP	kW	kW	A	H (m)						
5FES 5/3	0,75	0,55	0,8	4,1	33,6	29,2	28,2	24,3	22,9	19,3	11,9
5FES 5/4	1	0,75	1,1	5	44,7	38,9	37,5	32,4	30,5	25,8	15,9
5FES 5/5	1,2	0,9	1,3	6,6	57,1	50,5	49	42,9	40,7	35,1	23
5FES 5/6	1,5	1,1	1,6	7,4	68	59,7	57,7	50,2	47,5	40,6	25,9

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min)						
3~				3~	0	2,5	3,0	4,5	5,0	6,0	7,5
				400 V	0	42	50,0	75,0	83	100	125
	HP	kW	kW	A	H (m)						
5FEST 5/3	0,75	0,55	0,8	2	34,7	30,9	30	26,6	25,3	22	14,8
5FEST 5/4	1	0,75	1,1	2,2	45,8	40,5	39,3	34,4	32,7	28,2	18,5
5FEST 5/5	1,2	0,9	1,3	2,5	56,7	49,7	48	41,8	39,6	33,8	21,6
5FEST 5/6	1,5	1,1	1,6	2,7	67,4	58,5	56,4	48,6	45,9	38,8	24



TYPE		DIMENSIONS (mm)					Kg	
1~	3~	Lt	DNM	I	L	M	1~	3~
5FES 5/3	**5FEST 5/3**	446	1" ¼ G	720	230	175	12	13,3
5FES 5/4	**5FEST 5/4**	470		720	230	175	13,5	14
5FES 5/5	**5FEST 5/5**	544		720	230	175	15,7	14,5
5FES 5/6	**5FEST 5/6**	568		720	230	175	16,2	15



N. CODE	DESCRIPTION	MATERIAL
10.01	**SCREW AND FLANGES FOR PRE-LOADING**	AISI 304
10.02	**CABLE**	H07RN-F
10.02	**CABLE GLAND**	NICKEL PLATED BRASS / NBR
10.03	**SEEGER-RING**	AISI 304
10.04	**CABLE**	H07RN-F
10.04	**FLOAT SWITCH**	PP
10.04	**HOLDING CABLE PLATE**	PA66
10.04	**CABLE GLAND**	NICKEL PLATED BRASS / NBR
10.05	**CAPACITOR WITH CABLES AND CONNECTORS**	-
10.06	**CLAMP FOR CAPACITOR**	-
20.00	**OUTER CASE**	AISI 304
20.01	**SUCTION STRAINER**	AISI 304
30.00	**MOTOR HOUSING AND STATOR**	AISI 304
30.01	**UPPER MOTOR COVER**	AISI 304
30.02	**UPPER BEARING HOUSING WITH COVER**	ALUMINUM
30.03	**LOWER MOTOR COVER**	AISI 304
30.04	**LOWER BEARING COVER**	ALUMINUM
30.05	**O-RING**	NBR
30.06	**MECHANICAL SEALS**	CERAMIC ALUMINA / CARBON GRAPHITE / NBR
30.07	**BALL BEARINGS**	6202 2Z-C3 / 6303 2Z-C3
30.08	**ROTOR AND PUMP SHAFT**	AISI 304
30.09	**SCREWS, NUT AND WASHERS**	AISI 304 / AISI 316
40.00	**STAGE HOUSING AND DIFFUSER**	AISI 304
40.01	**SPACER**	AISI 304
40.02	**FLOATING NECK RING**	PPS
40.03	**INITIAL STAGE HOUSING**	AISI 304
50.00	**IMPELLER**	AISI 304
50.01	**IMPELLER SPACERS**	AISI 304

4E





Designed for 4” wells, the 4E series is highly robust, compact, and patented (EP3274587A1). Engineered for easy maintenance, it features AISI 304 stainless steel supports manufactured via precision lost-wax casting, ensuring exceptional strength and reliability.

Technical Highlights: patented independent floating impellers reduce axial load on the motor. Certified materials for drinking water allow the unit to operate dry without deterioration. Includes an integrated non-return valve.

Operation: discharge outlets are 1” 1/4 G (radial) or 2” G (semi-axial). Max diameter: 98 mm (including cable guard). Suitable for continuous duty in vertical or horizontal positions. Minimum water level: 1m above suction.

Applications: deep well extraction (domestic/industrial), lifting systems, surface/sprinkler irrigation, water supply networks, firefighting, and pressure tank supply.

Construction features	
Suction and delivery outlet	stainless steel AISI 304
External jacket	stainless steel AISI 304
Impellers	polyoxymethylene
Diffusers	polyoxymethylene and AISI 304
Support bush with sleeve	polyoxymethylene and ceramic
Shaft	stainless steel AISI 431B
Coupling	stainless steel AISI 316L
Quantity of sand in the water	250 g/m³
Max liquid temperature	45 °C
Non-return valve	up to 4E 150 models

4E 15

50 Hz - 2850 rpm							Q					
TYPE	P2		SUITABLE MOTOR			l/min	0	5	10	15	20	25
			1~ 230V		3~ 400V	l/sec	0	0,08	0,17	0,25	0,33	0,42
	HP	kW	A	µF	A	m³/h	0	0,3	0,6	0,9	1,2	1,5
4E 15/12-05	0,5	0,37	3,6	20	1,6	H (m)	85	80	72	61	44	18
4E 15/18-07	0,75	0,55	4,5	25	2		128	120	107	91	66	26
4E 15/24-10	1	0,75	6	35	2,6		170	160	143	121	88	35
4E 15/36-15	1,5	1,1	8,2	40	3,4		255	240	215	182	131	53
4E 15/48-20	2	1,5	11	50	4,6		340	320	286	242	175	70

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	43,2
Max kW / St.	0,031

4E 20

50 Hz - 2850 rpm							Q						
TYPE	P2		SUITABLE MOTOR			l/min	0	15	20	25	30	35	40
			1~ 230V		3~ 400V	l/sec	0	0,25	0,33	0,42	0,5	0,58	0,67
	HP	kW	A	µF	A	m³/h	0,0	0,9	1,2	1,5	1,8	2,1	2,4
4E 20/09-05	0,5	0,37	3,6	20	1,6	H (m)	60	56	50	43	35	26	15
4E 20/14-07	0,75	0,55	4,5	25	2		92	85	76	66	54	40	23
4E 20/19-10	1	0,75	6	35	2,6		122	112	101	86	71	53	30
4E 20/28-15	1,5	1,1	8,2	40	3,4		176	161	145	125	103	77	44
4E 20/38-20	2	1,5	11	50	4,6		231	212	191	164	135	101	58
4E 20/54-30	3	2,2	14,8	70	6,2		318	292	263	226	186	139	79

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	52,5
Max kW / St.	0,039

4E 30

50 Hz - 2850 rpm							Q								
TYPE	P2		SUITABLE MOTOR			l/min	0	15	20	25	30	35	40	45	50
			1~ 230V		3~ 400V	l/sec	0	0,25	0,33	0,42	0,50	0,58	0,67	0,75	0,83
	HP	kW	A	µF	A	m³/h	0	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3,0
4E 30/08-05	0,5	0,37	3,6	20	1,6	H (m)	55	51	48	44	39	33	26	18	8
4E 30/12-07	0,75	0,55	4,5	25	2		83	76	72	66	58	49	39	27	12
4E 30/16-10	1	0,75	6	35	2,6		110	101	96	88	78	66	52	36	16
4E 30/23-15	1,5	1,1	8,2	40	3,4		154	141	133	123	109	92	72	51	23
4E 30/32-20	2	1,5	11	50	4,6		214	197	186	171	151	128	101	70	32
4E 30/45-30	3	2,2	14,8	70	6,2		302	277	261	241	213	180	142	99	45
4E 30/60-40	4	3	-	-	7,8		402	369	348	321	284	240	189	132	60

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	53,4
Max kW / St.	0,047

4E

4E 35

50 Hz - 2850 rpm							Q								
TYPE	P2		SUITABLE MOTOR			l/min	0	20	25	30	35	40	45	50	55
			1~ 230V		3~ 400V	l/sec	0	0,33	0,42	0,50	0,58	0,67	0,75	0,83	0,92
	HP	kW	A	µF	A	m³/h	0	1,2	1,5	1,8	2,1	2,4	2,7	3,0	3,3
4E 35/07-05	0,5	0,37	3,6	20	1,6	H (m)	47	42	39	36	33	28	23	18	12
4E 35/11-07	0,75	0,55	4,5	25	2		74	66	62	57	52	45	37	28	18
4E 35/15-10	1	0,75	6	35	2,6		98	87	82	76	68	59	49	37	24
4E 35/22-15	1,5	1,1	8,2	40	3,4		140	125	118	109	98	85	70	54	35
4E 35/30-20	2	1,5	11	50	4,6		191	171	161	148	134	116	96	73	47
4E 35/42-30	3	2,2	14,8	70	6,2		273	244	229	212	191	166	137	104	67
4E 35/57-40	4	3	-	-	7,8		367	327	308	285	257	223	184	140	91

Max Eff. %	57,8
Max kW / St.	0,05

MEI ≥ 0,7 (regulation EU N. 547/2012)

4E 45

50 Hz - 2850 rpm							Q								
TYPE	P2		SUITABLE MOTOR			l/min	0	30	35	40	45	50	55	60	65	70
			1~ 230V		3~ 400V	l/sec	0	0,50	0,58	0,67	0,75	0,83	0,92	1,00	1,08	1,17
	HP	kW	A	µF	A	m³/h	0	1,8	2,1	2,4	2,7	3,0	3,3	3,6	3,9	4,2
4E 45/06-05	0,5	0,37	3,6	20	1,6	H (m)	41	37	35	33	30	27	24	20	16	12
4E 45/09-07	0,75	0,55	4,5	25	2		62	55	52	49	45	41	36	31	25	18
4E 45/12-10	1	0,75	6	35	2,6		80	72	68	64	59	53	47	40	32	23
4E 45/18-15	1,5	1,1	8,2	40	3,4		120	107	102	96	88	80	70	59	48	35
4E 45/24-20	2	1,5	11	50	4,6		160	143	136	128	118	106	93	79	64	47
4E 45/36-30	3	2,2	14,8	70	6,2		240	215	204	191	176	159	140	119	95	70
4E 45/48-40	4	3	-	-	7,8		320	286	272	255	235	212	186	158	127	94
4E 45/63-55	5,5	4	-	-	9,9		420	375	357	335	309	278	244	207	167	123

Max Eff. %	64
Max kW / St.	0,062

MEI ≥ 0,7 (regulation EU N. 547/2012)

4E 55

50 Hz - 2850 rpm							Q							
TYPE	P2		SUITABLE MOTOR			l/min	0	45	50	55	60	65	70	80
			1~ 230V		3~ 400V	l/sec	0	0,75	0,83	0,92	1,00	1,08	1,17	1,33
	HP	kW	A	µF	A	m³/h	0	2,7	3,0	3,3	3,6	3,9	4,2	4,8
4E 55/05-05	0,5	0,37	3,6	20	1,6	H (m)	33	28	27	25	23	21	19	13
4E 55/07-07	0,75	0,55	4,5	25	2		47	40	37	35	32	29	26	18
4E 55/10-10	1	0,75	6	35	2,6		67	57	54	50	46	42	37	26
4E 55/15-15	1,5	1,1	8,2	40	3,4		100	85	80	75	70	63	56	39
4E 55/20-20	2	1,5	11	50	4,6		130	110	104	97	90	81	72	50
4E 55/30-30	3	2,2	14,8	70	6,2		195	165	156	146	135	122	108	75
4E 55/40-40	4	3	-	-	7,8		260	220	208	195	180	162	144	100
4E 55/54-55	5,5	4	-	-	9,9		351	296	281	263	243	219	194	135

Max Eff. %	64,8
Max kW / St.	0,760

MEI ≥ 0,7 (regulation EU N. 547/2012)

4E 70

50 Hz - 2850 rpm							Q									
TYPE	P2		SUITABLE MOTOR			l/min	0	50	55	60	65	70	80	90	100	110
			1~ 230V		3~ 400V	l/sec	0	0,83	0,92	1,00	1,08	1,17	1,33	1,50	1,67	1,83
	HP	kW	A	µF	A	m³/h	0	3,0	3,3	3,6	3,9	4,2	4,8	5,4	6,0	6,6
4E 70/04-05	0,5	0,37	3,6	20	1,6	H (m)	28	25	24	23	22	20	17	14	10	6
4E 70/06-07	0,75	0,55	4,5	25	2		41	37	36	34	33	31	26	20	15	8
4E 70/08-10	1	0,75	6	35	2,6		55	49	48	46	44	41	34	27	19	11
4E 70/12-15	1,5	1,1	8,2	40	3,4		83	74	72	69	65	61	52	41	29	17
4E 70/16-20	2	1,5	11	50	4,6		111	99	95	92	87	82	69	54	39	22
4E 70/24-30	3	2,2	14,8	70	6,2		166	148	143	138	131	123	103	81	58	34
4E 70/32-40	4	3	-	-	7,8		221	197	191	183	174	164	138	108	78	45
4E 70/42-55	5,5	4	-	-	9,9		290	259	250	241	229	215	181	142	102	59
4E 70/57-75	7,5	5,5	-	-	13,8		402	358	347	333	317	297	251	197	141	81
4E 70/76-100	10	7,5	-	-	19,5		536	478	462	444	422	396	334	263	188	109
4E 70/95-125	12,5	9,3	-	-	-		670	597	578	555	528	495	418	328	235	136

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	66,8
Max kW / St.	0,920

4E 100

50 Hz - 2850 rpm							Q							
TYPE	P2		SUITABLE MOTOR			l/min	0	80	90	100	110	125	150	175
			1~ 230V		3~ 400V	l/sec	0	1,33	1,50	1,67	1,83	2,08	2,50	2,92
	HP	kW	A	µF	A	m³/h	0	4,8	5,4	6,0	6,6	7,5	9,0	10,5
4E 100/04-07	0,75	0,55	4,5	25	2	H (m)	29	23	22	21	19	17	12	6
4E 100/06-10	1	0,75	6	35	2,6		43	34	32	30	29	25	18	9
4E 100/09-15	1,5	1,1	8,2	40	3,4		64	50	48	45	42	37	26	14
4E 100/12-20	2	1,5	11	50	4,6		84	65	62	59	55	49	34	18
4E 100/17-30	3	2,2	14,8	70	6,2		119	92	88	84	79	69	48	26
4E 100/23-40	4	3	-	-	7,8		161	125	120	113	106	94	66	35
4E 100/31-55	5,5	4	-	-	9,9		217	169	161	153	143	126	88	47
4E 100/39-75	7,5	5,5	-	-	13,8		273	212	203	192	180	159	111	59
4E 100/54-100	10	7,5	-	-	19,5		378	294	281	266	249	220	154	81

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	69,9
Max kW / St.	0,124

4E 150

50 Hz - 2850 rpm							Q								
TYPE	P2		SUITABLE MOTOR			l/min	0	100	110	125	150	175	200	225	250
			1~ 230V		3~ 400V	l/sec	0	1,67	1,83	2,08	2,50	2,92	3,33	3,75	4,17
	HP	kW	A	µF	A	m³/h	0	6,0	6,6	7,5	9,0	10,5	12,0	13,5	15,0
4E 150/04-10	1	0,75	6	35	2,6	H (m)	27	24	23	22	20	17	13	8	3
4E 150/06-15	1,5	1,1	8,2	40	3,4		41	36	35	33	30	26	20	13	5
4E 150/08-20	2	1,5	11	50	4,6		55	48	47	45	40	34	27	17	6
4E 150/12-30	3	2,2	14,8	70	6,2		82	72	70	67	60	51	40	25	10
4E 150/15-40	4	3	-	-	7,8		103	90	88	84	75	64	50	32	12
4E 150/21-55	5,5	4	-	-	9,9		144	126	123	117	105	89	70	44	17
4E 150/28-75	7,5	5,5	-	-	13,8		196	171	167	159	143	121	95	60	23
4E 150/38-100	10	7,5	-	-	19,5		263	230	225	214	192	163	127	81	31

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	67,9
Max kW / St.	0,184

4E

4E 225

50 Hz - 2850 rpm							Q											
TYPE	P2		SUITABLE MOTOR			l/min	0	100	110	125	150	175	200	225	250	275	300	325
			1~ 230V		3~ 400V	l/sec	0	1,67	1,83	2,08	2,50	2,92	3,33	3,75	4,17	4,58	5,00	5,42
	HP	kW	A	µF	A	m³/h	0	6,0	6,6	7,5	9,0	10,5	12,0	13,5	15,0	16,5	18,0	19,5
4E 225/05-15	1,5	1,1	8,2	40	3,4	H (m)	33	29	28	28	26	24	22	20	17	14	10	5
4E 225/07-20	2	1,5	11	50	4,6		46	40	40	39	36	34	31	28	24	19	13	7
4E 225/10-30	3	2,2	14,8	70	6,2		65	58	57	55	52	48	44	40	34	28	19	10
4E 225/14-40	4	3	-	-	7,8		91	81	80	77	73	67	62	55	48	39	27	14
4E 225/18-55	5,5	4	-	-	9,9		117	104	102	99	94	87	79	71	61	50	34	18
4E 225/25-75	7,5	5,5	-	-	13,8		163	145	142	138	130	121	110	99	85	69	48	25
4E 225/34-100	10	7,5	-	-	19,5		221	197	193	188	177	164	150	134	116	94	65	34

MEI ≥ 0,7 (regolamento UE N. 547/2012)

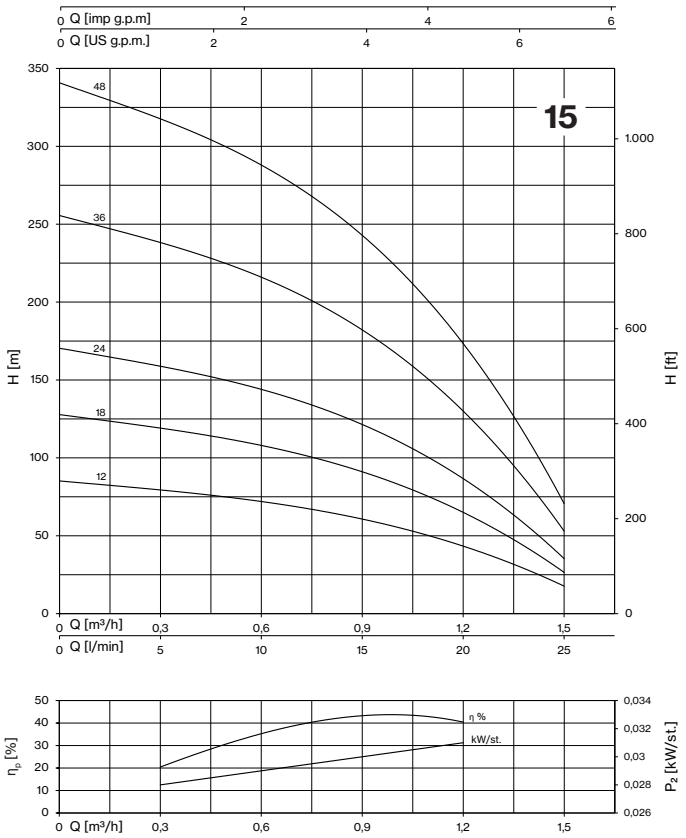
Max Eff. %	68,2
Max kW / St.	0,22

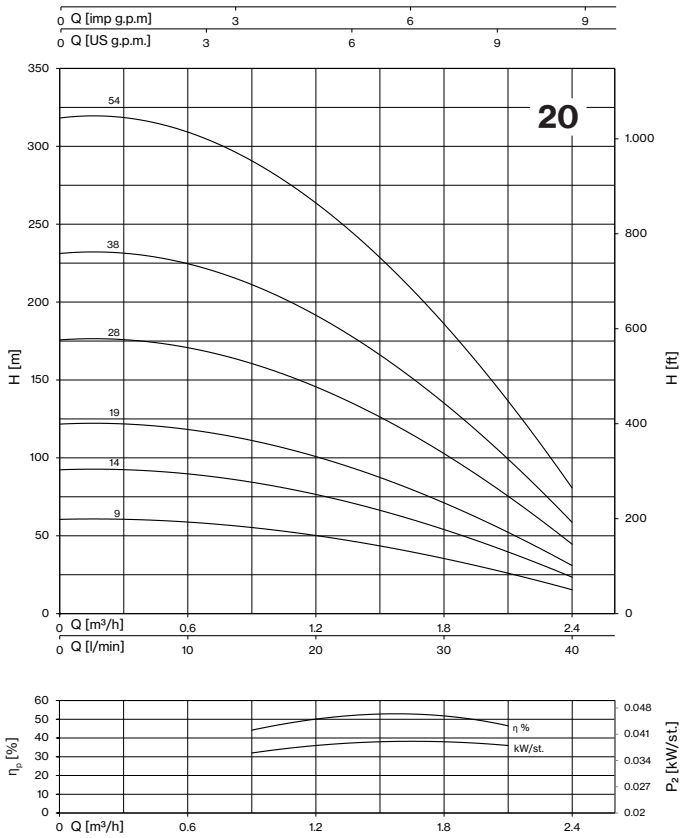
4E 300

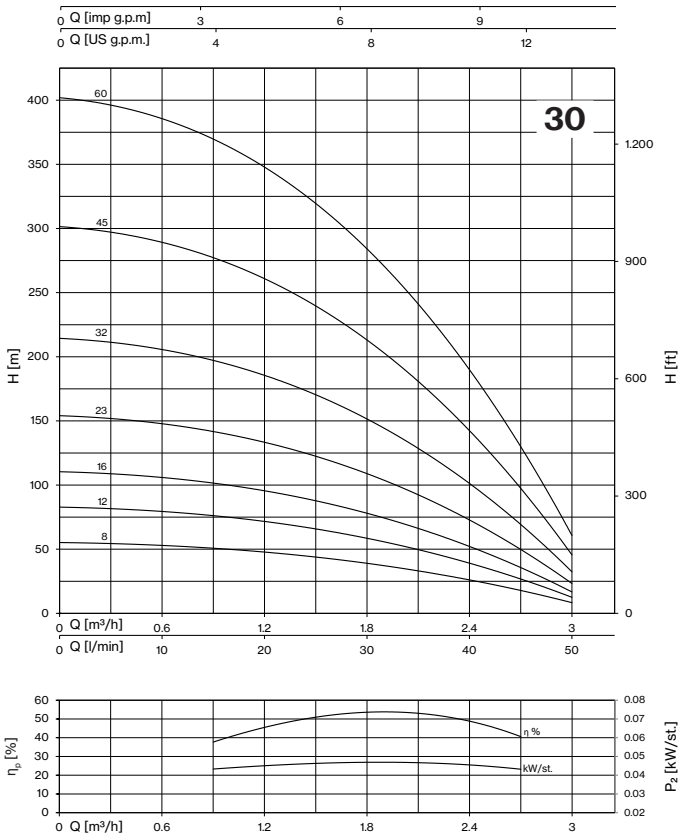
50 Hz - 2850 rpm							Q													
TYPE	P2		SUITABLE MOTOR			l/min	0	150	175	200	225	250	275	300	325	350	375	400	425	450
			1~ 230V		3~ 400V	l/sec	0	2,50	2,92	3,33	3,75	4,17	4,58	5,00	5,42	5,83	6,25	6,67	7,08	7,50
	HP	kW	A	µF	A	m³/h	0	9,0	10,5	12,0	13,5	15,0	16,5	18,0	19,5	21,0	22,5	24,0	25,5	27,0
4E 300/04-15	1,5	1,1	8,2	40	3,4	H (m)	23	19	18	17	16	15	14	13	12	11	9	8	6	4
4E 300/06-20	2	1,5	11	50	4,6		35	29	27	25	24	23	21	20	18	16	14	11	9	5
4E 300/09-30	3	2,2	14,8	70	6,2		52	43	40	38	36	34	32	30	28	24	21	17	13	8
4E 300/12-40	4	3	-	-	7,8		69	57	54	51	48	45	43	40	37	33	28	23	17	11
4E 300/16-55	5,5	4	-	-	9,9		92	76	72	68	64	60	57	53	49	44	37	30	23	14
4E 300/22-75	7,5	5,5	-	-	13,8		127	105	98	93	88	83	78	73	67	60	51	42	32	20
4E 300/30-100	10	7,5	-	-	19,5		173	143	134	127	120	113	107	100	92	82	70	57	43	27
4E 300/38-125	12,5	9,3	-	-	-		220	181	170	160	152	144	135	127	116	103	89	72	55	34

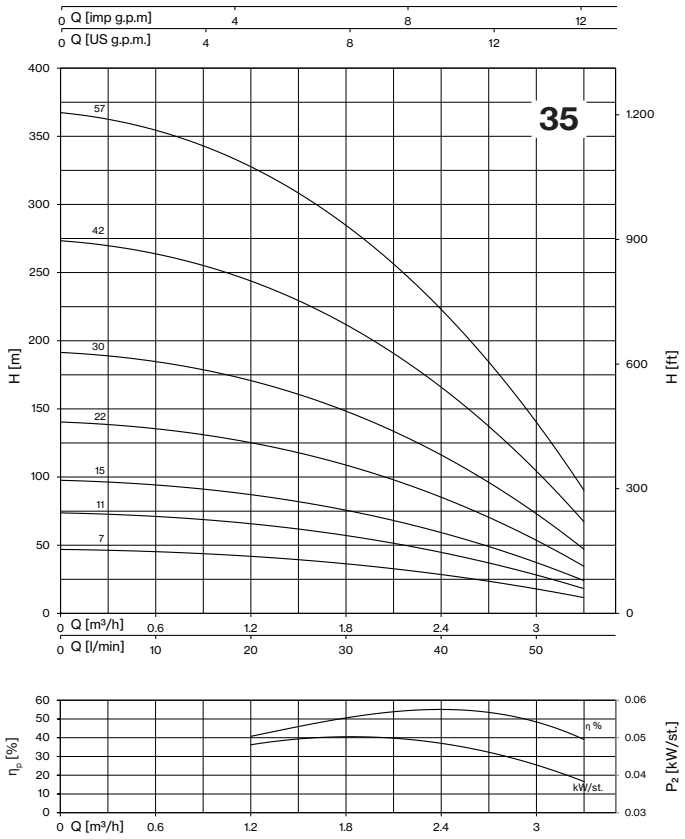
MEI ≥ 0,7 (regolamento UE N. 547/2012)

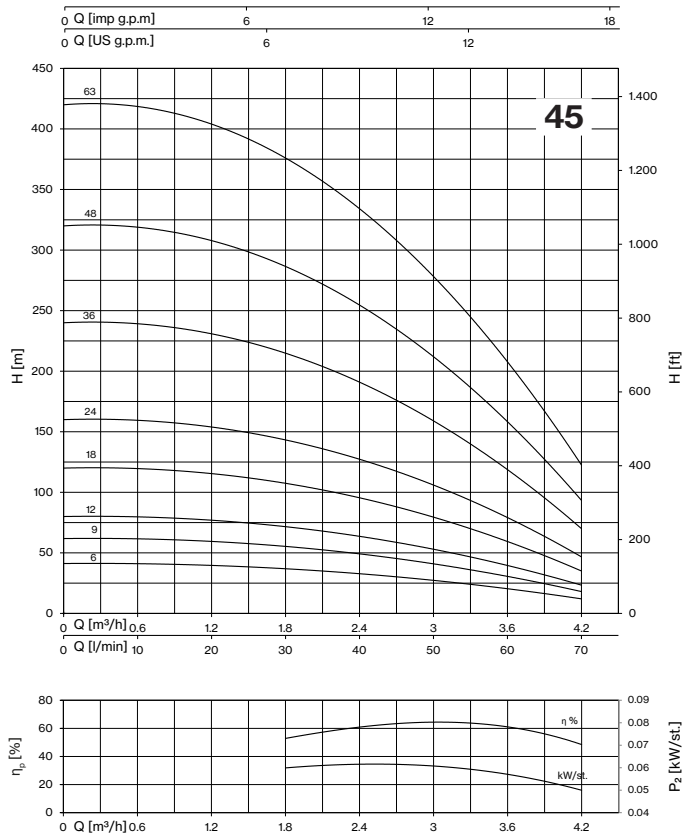
Max Eff. %	73,6
Max kW / St.	0,25

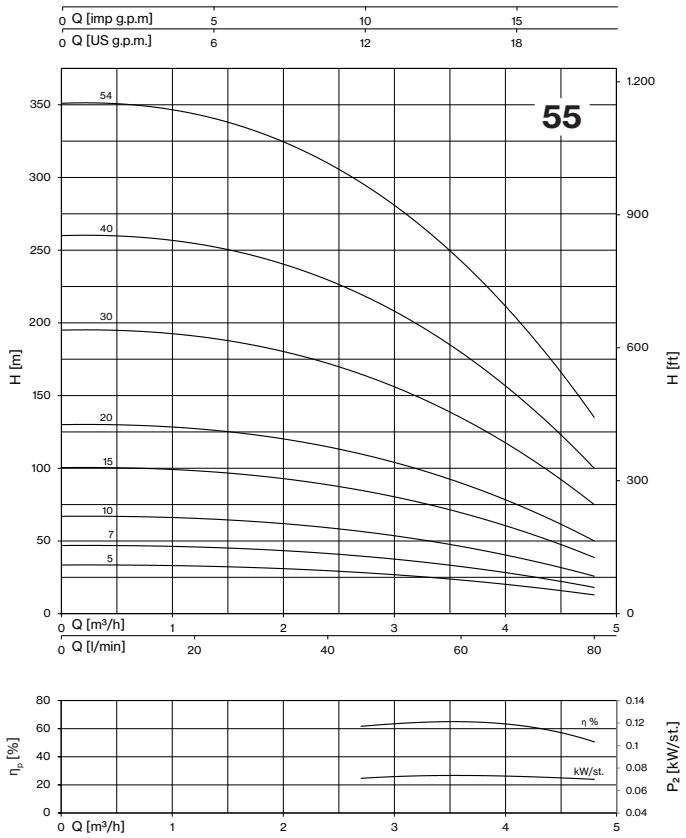

15
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
48
36
24
18
12
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

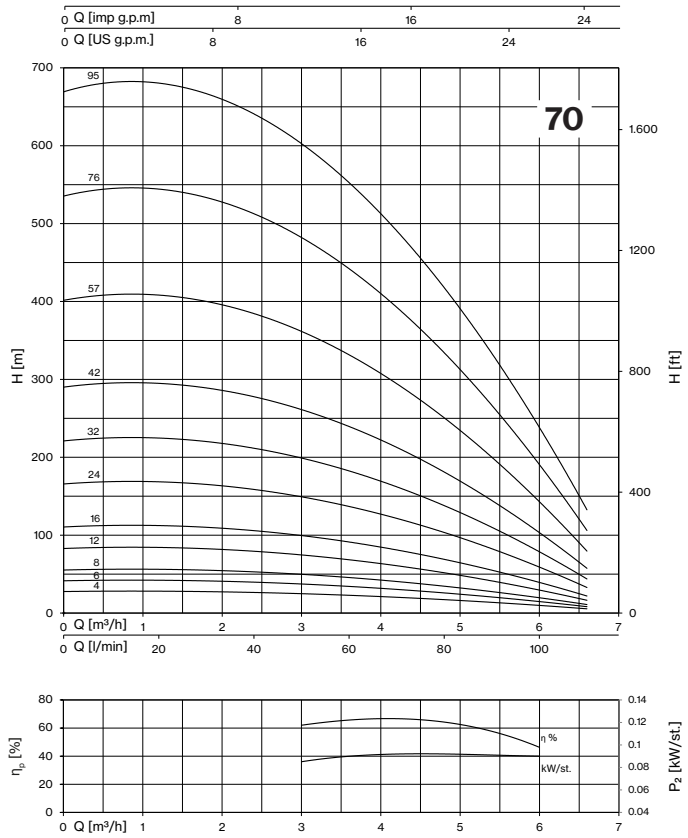

20
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
54
38
28
19
14
9
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

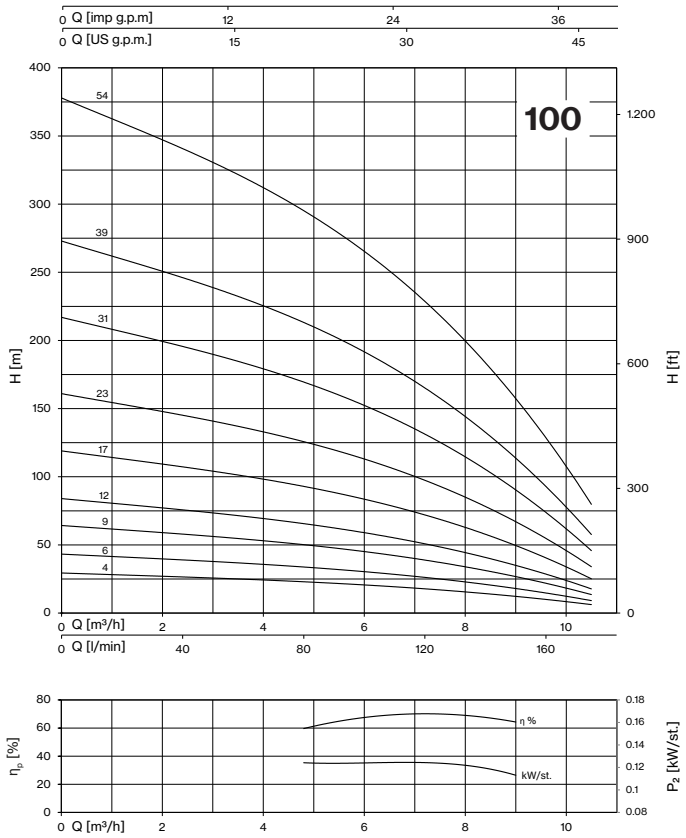

30
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
60
45
32
23
16
12
8
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

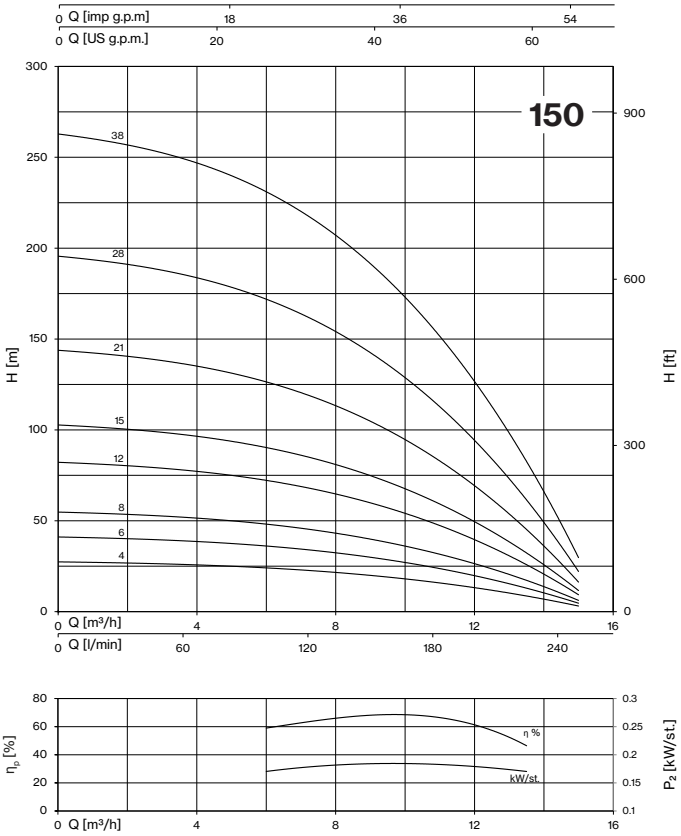

35
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
57
42
30
22
15
11
7
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

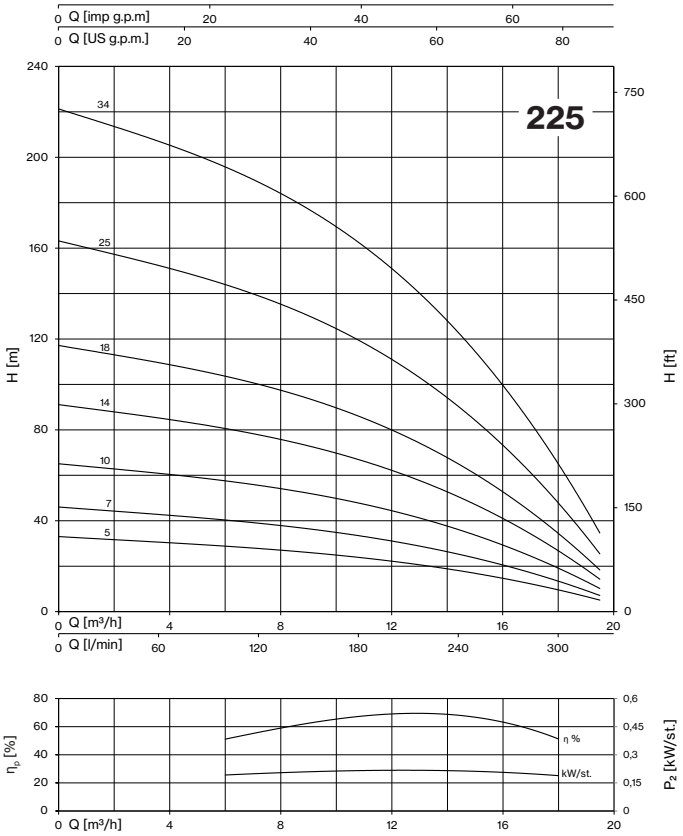

45
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
63
48
36
24
18
12
9
6
η %
kW/st.
ηp [%]
P2 [kW/st.]

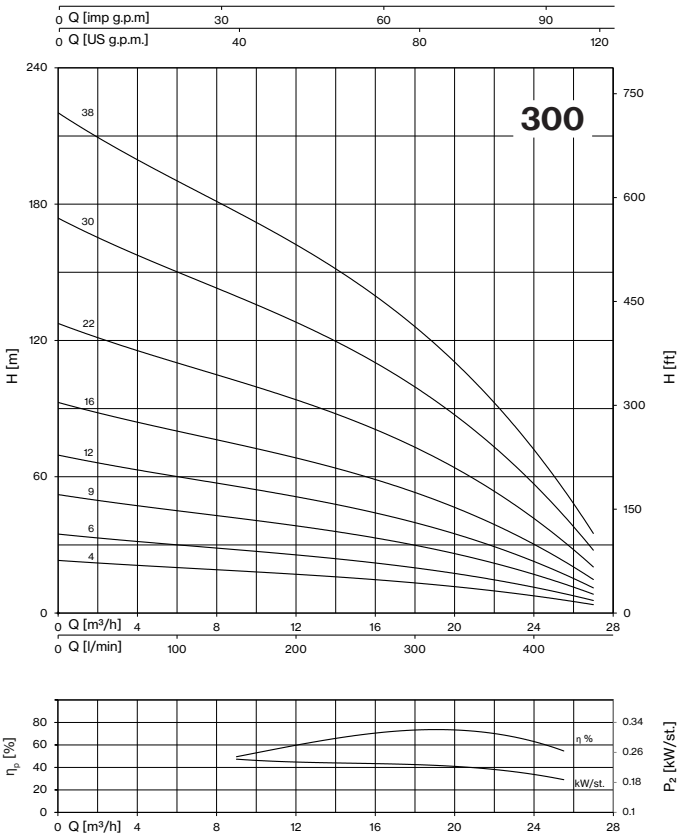

55
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
54
40
30
20
15
10
7
5
η %
kW/st.
ηp [%]
P2 [kW/st.]


70
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
95
76
57
42
32
24
16
12
8
6
4
η %
kW/st.
ηp [%]
P2 [kW/st.]

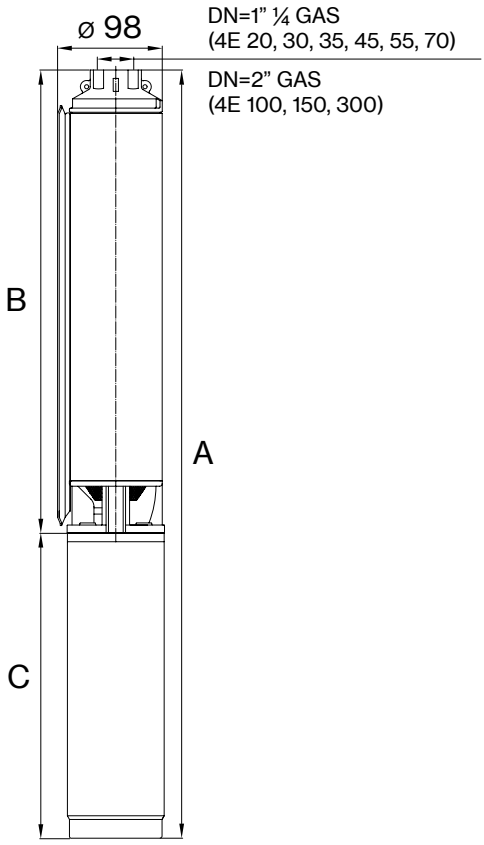

100
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
54
39
31
23
17
12
9
6
4
η %
kW/st.
ηp [%]
P2 [kW/st.]


150
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
38
28
21
15
12
8
6
4
η %
kW/st.
η_p [%]
P_2 [kW/st.]


225
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
34
25
18
14
10
7
5
η %
kW/st.
η_p [%]
P_2 [kW/st.]


300
Q [imp g.p.m]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
38
30
22
16
12
9
6
4
η %
kW/st.
η_p [%]
P_2 [kW/st.]

4E



4E 15

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 15/12-05	701	701	376	325	325	11	10,5	4	7	6,5
4E 15/18-07	820	820	495	325	325	12,8	12,2	5,2	7,6	7
4E 15/24-10	1000	975	650	350	325	15,6	14,5	6,9	8,7	7,6
4E 15/36-15	1273	1238	888	385	350	19,7	18,1	9,4	10,3	8,7
4E 15/48-20	1581	1546	1161	420	385	24,3	22,7	12,3	12	10,4

4E 20

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 20/09-05	641	641	316	325	325	10,3	9,8	3,3	7	6,5
4E 20/14-07	741	741	416	325	325	12	11,4	4,4	7,6	7
4E 20/19-10	866	841	516	350	325	14,1	13	5,4	8,7	7,6
4E 20/28-15	1117	1082	732	385	350	18	16,4	7,7	10,3	8,7
4E 20/38-20	1350	1315	930	420	385	21,8	20,2	9,8	12	10,4
4E 20/54-30	1757	1707	1287	470	420	27,7	25,5	13,5	14,2	12

4E 30

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 30/08-05	598	598	273	325	325	10	9,5	3	7	6,5
4E 30/12-07	665	665	340	325	325	11,4	10,8	3,8	7,6	7
4E 30/16-10	758	733	408	350	325	13,2	12,1	4,5	8,7	7,6
4E 30/23-15	911	876	526	385	350	16,2	14,6	5,9	10,3	8,7
4E 30/32-20	1134	1099	714	420	385	20	18,4	8	12	10,4
4E 30/45-30	1439	1389	969	470	420	25,1	22,9	10,9	14,2	12
4E 30/60-40	-	1642	1224	-	418	-	28	13,8	-	14,2

4E 35

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 35/07-05	602	602	277	325	325	9,9	9,4	2,9	7	6,5
4E 35/11-07	681	681	356	325	325	11,3	10,7	3,7	7,6	7
4E 35/15-10	786	761	436	350	325	13,2	12,1	4,5	8,7	7,6
4E 35/22-15	960	925	575	385	350	16,2	14,6	5,9	10,3	8,7
4E 35/30-20	1190	1155	770	420	385	20	18,4	8	12	10,4
4E 35/42-30	1478	1428	1008	470	420	24,6	22,4	10,4	14,2	12
4E 35/57-40	-	1762	1344	-	418	-	28,1	13,9	-	14,2

4E 45

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 45/06-05	582	582	257	325	325	9,7	9,2	2,7	7	6,5
4E 45/09-07	641	641	316	325	325	10,9	10,3	3,3	7,6	7
4E 45/12-10	726	701	376	350	325	12,6	11,5	3,9	8,7	7,6
4E 45/18-15	880	845	495	385	350	15,4	13,8	5,1	10,3	8,7
4E 45/24-20	1035	1000	615	420	385	18,3	16,7	6,3	12	10,4
4E 45/36-30	1360	1310	890	470	420	23,4	21,2	9,2	14,2	12
4E 45/48-40	-	1582	1164	-	418	-	26,2	12	-	14,2
4E 45/63-55	-	1932	1464	-	468	-	30,4	15,1	-	15,3

4E 55

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 55/05-05	562	562	237	325	325	9,5	9	2,5	7	6,5
4E 55/07-07	602	602	277	325	325	10,5	9,9	2,9	7,6	7
4E 55/10-10	686	661	336	350	325	12,2	11,1	3,5	8,7	7,6
4E 55/15-15	821	786	436	385	350	14,8	13,2	4,5	10,3	8,7
4E 55/20-20	955	920	535	420	385	17,5	15,9	5,5	12	10,4
4E 55/30-30	1240	1190	770	470	420	22,2	20	8	14,2	12
4E 55/40-40	-	1388	970	-	418	-	24,2	10	-	14,2
4E 55/54-55	-	1752	1284	-	468	-	28,5	13,2	-	15,3

4E 70

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 70/04-05	550	550	225	325	325	9,3	8,8	2,3	7	6,5
4E 70/06-07	594	594	269	325	325	10,4	9,8	2,8	7,6	7
4E 70/08-10	663	638	313	350	325	11,9	10,8	3,2	8,7	7,6
4E 70/12-15	785	750	400	385	350	14,4	12,8	4,1	10,3	8,7
4E 70/16-20	908	873	488	420	385	16,9	15,3	4,9	12	10,4
4E 70/24-30	1133	1083	663	470	420	20,9	18,7	6,7	14,2	12
4E 70/32-40	-	1292	874	-	418	-	23	8,8	-	14,2
4E 70/42-55	-	1562	1094	-	468	-	26,3	11	-	15,3
4E 70/57-75	-	1996	1458	-	538	-	33,7	15,1	-	18,6
4E 70/76-100	-	2722	1912	-	810	-	46,7	19,7	-	27
4E 70/95-125	-	-	2361	-	-	-	-	24,4	-	-

4E

4E 100

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 100/04-07	609	609	284	325	325	10,5	9,9	2,9	7,6	7
4E 100/06-10	708	683	358	350	325	12,3	11,2	3,6	8,7	7,6
4E 100/09-15	854	819	469	385	350	14,9	13,3	4,6	10,3	8,7
4E 100/12-20	1000	965	580	420	385	17,6	16	5,6	12	10,4
4E 100/17-30	1234	1184	764	470	420	21,4	19,2	7,2	14,2	12
4E 100/23-40	-	1438	1020	-	418	-	23,6	9,4	-	14,2
4E 100/31-55	-	1820	1352	-	468	-	27,7	12,4	-	15,3
4E 100/39-75	-	2185	1647	-	538	-	34	15,4	-	18,6
4E 100/54-100	-	3012	2202	-	810	-	47,3	20,3	-	27

4E 150

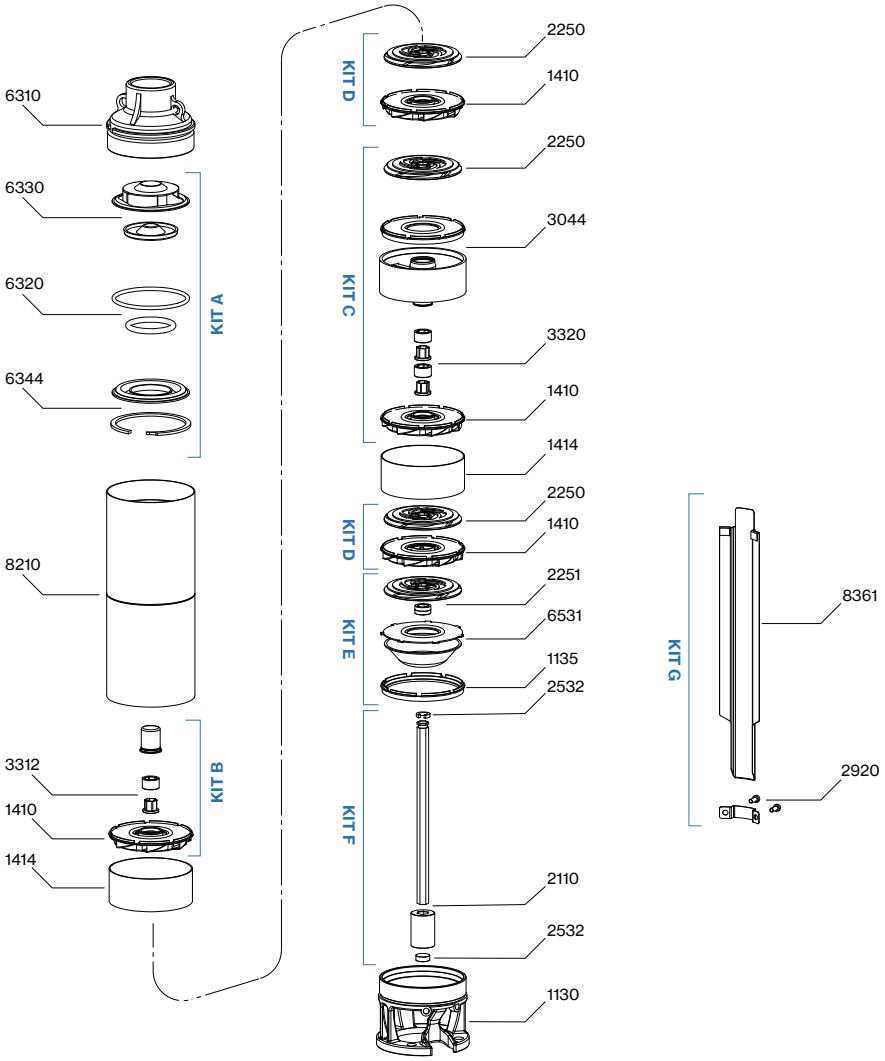
TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 150/04-10	646	621	296	350	325	11,7	10,6	3	8,7	7,6
4E 150/06-15	761	726	376	385	350	14	12,4	3,7	10,3	8,7
4E 150/08-20	876	841	456	420	385	16,4	14,8	4,4	12	10,4
4E 150/12-30	1086	1036	616	470	420	20,1	17,9	5,9	14,2	12
4E 150/15-40	-	1153	735	-	418	-	21,1	6,9	-	14,2
4E 150/21-55	-	1477	1009	-	468	-	24,5	9,2	-	15,3
4E 150/28-75	-	1828	1290	-	538	-	30,6	12	-	18,6
4E 150/38-100	-	2574	1764	-	810	-	43,1	16,1	-	27

4E 225

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 225/05-15	747	712	362	385	350	13,4	11,8	3,1	10,3	8,7
4E 225/07-20	872	837	452	420	385	16	14,4	4	12	10,4
4E 225/10-30	1056	1006	586	470	420	19,5	17,3	5,3	14,2	12
4E 225/14-40	-	1184	766	-	418	-	21,2	7	-	14,2
4E 225/18-55	-	1413	945	-	468	-	24	8,7	-	15,3
4E 225/25-75	-	1796	1258	-	538	-	30,3	11,7	-	18,6
4E 225/34-100	-	2473	1663	-	810	-	42,6	15,6	-	27

4E 300

TYPE	DIMENSIONS (mm)					WEIGHT (kg)				
	A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
4E 300/04-15	789	754	404	385	350	13,4	11,8	3,1	10,3	8,7
4E 300/06-20	957	922	537	420	385	16,1	14,5	4,1	12	10,4
4E 300/09-30	1208	1158	738	470	420	-	17,7	5,7	14,2	12
4E 300/12-40	-	1357	939	-	418	-	21,5	7,3	-	14,2
4E 300/16-55	-	1674	1206	-	468	-	24,7	9,4	-	15,3
4E 300/22-75	-	2146	1608	-	538	-	31,1	12,5	-	18,6
4E 300/30-100	-	2955	2145	-	810	-	43,7	16,7	-	27
4E 300/38-125	-	-	2680	-	-	-	-	20,9	-	-



N. CODE	KIT	DESCRIPTION	MATERIAL
6320	**KIT A** *check valve*	**O-RINGS**	NBR
6330		**WING VALVE WITH COVER**	AISI 304
6340		**WING VALVE ALIGNER**	POM-C
6344		**SUPPORT WING VALVE AND SEEGER**	AISI 304
1410	**KIT B** *upper support*	**COMPLETE DIFFUSER WITH DISC**	POM-C + CERAMIC AI203 + AISI 304
3312		**SUPPORT BUSH WITH SLEEVE**	POM-C + CERAMIC AI203
2531		**SEEGER**	POM-C
1410	**KIT C** *intermediate support*	**COMPLETE DIFFUSER WITH DISC**	POM-C + CERAMIC AI203 + AISI 304
2250		**IMPELLER**	POM-C
3320		**SUPPORT BUSH WITH 2X SLEEVE**	POM-C + CERAMIC AI203
3044		**INTERMEDIATE SUPPORT**	AISI 304
1410	**KIT D** *stage*	**COMPLETE DIFFUSER WITH DISC**	POM-C + CERAMIC AI203 + AISI 304
2250		**IMPELLER**	POM-C
1135	**KIT E** *first stage*	**CENTERING RING**	POM-C
6531		**DISC AND GRID**	AISI 304
2251		**FIRST IMPELLER WITH SPACERS**	POM-C
2110	**KIT F** *shaft with coupling*	**SHAFT WITH COUPLING**	AISI 431B
2532		**SEEGER WITH SHOCK SUPPORT**	POM-C
2920	**KIT G** *cable cover*	**SCREWS**	AISI 304
8361		**CABLE COVER**	AISI 304
1130	-	**BOTTOM CASING**	AISI 304
1414		**SPACER PIPE**	AISI 304
6310		**TOP CASING**	AISI 304
8210		**EXTERNAL PIPE**	AISI 304

6E







Designed for 6” wells, the 6E series is solid, durable, and engineered for easy maintenance. The discharge head and suction support are manufactured in AISI 304 stainless steel using precision lost-wax casting for maximum structural integrity.

Technical Highlights: designed for high pressures (up to 40 bar) via series-stage assembly. Includes a 3” threaded discharge outlet with an integrated non-return valve. Standard coupling for 4” (NEMA) motors up to 7.5 HP and 6” motors from 10 HP.

Operation: max diameter: 140 mm (including cable guard). Rotation is counterclockwise from the discharge side. Suitable for continuous duty in vertical or horizontal positions. Minimum water level: 1m above suction.

Applications: deep well extraction (domestic/industrial), lifting systems, surface/sprinkler irrigation, water supply networks, firefighting, and pressure tank supply.

Construction features	
Suction and delivery outlet	stainless steel AISI 304
External jacket	stainless steel AISI 304
Impellers	Noryl®
Diffusers	Noryl®
Support bush with sleeves	Noryl® , stainless steel AISI 316L and ceramic
Shaft	stainless steel AISI 431B
Coupling	stainless steel AISI 316L
Quantity of sand in the water	150 g/m³
Max liquid temperature	max 35 °C
Non-return valve	standard on all models

6E 175

50 Hz - 2900 rpm							Q								
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	100	125	150	175	200	225	250	275
	P2		1~ 230V	3~ 400V		l/sec	0	1,67	2,08	2,50	2,92	3,33	3,75	4,17	4,58
	HP	kW	A		N	m³/h	0	6,0	7,5	9,0	10,5	12,0	13,5	15,0	16,5
6E 175/05-30	3	2,2	14,8	6,2	1410		78	67	63	58	53	46	37	27	16
6E 175/06-40	4	3	-	7,8	1690		94	80	76	70	63	55	44	32	19
6E 175/07-55	5,5	4	-	9,9	1970		109	94	89	82	74	64	52	38	22
6E 175/08-55	5,5	4	-	9,9	2250		125	107	101	93	84	73	59	43	25
6E 175/09-55	5,5	4	-	9,9	2530		140	121	114	105	95	82	67	48	28
6E 175/12-75	7,5	5,5	-	13,8	3370		187	161	152	140	127	109	89	65	37
6E 175/16-100	10	7,5	-	16,9	4500		250	214	202	187	169	146	118	86	50
6E 175/18-125	12,5	9,3	-	21,5	5060	H (m)	281	241	228	210	190	164	133	97	56
6E 175/21-125	12,5	9,3	-	21,5	5900		328	281	266	245	222	192	155	113	65
6E 175/24-150	15	11	-	23,7	6740		374	322	304	280	253	219	178	129	74
6E 175/28-175	17,5	13	-	27,8	7870		437	375	354	327	295	255	207	151	87
6E 175/32-200	20	15	-	30,4	8990		499	429	405	374	338	292	237	172	99
6E 175/40-250	25	18,5	-	38,3	11240		624	536	506	467	422	365	296	215	124
6E 175/48-300	30	22	-	44	13480		749	643	607	561	506	438	355	258	149
6E 175/54-400	40	30	-	62	15170		842	724	683	631	570	492	400	291	167

MEI ≥ 0,6 (regulation EU N. 547/2012)

Max Eff. %	68,1
Max kW / St.	0,45

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,1	1,5	2,0	4,5

6E 225

50 Hz - 2900 rpm						Q									
TYPE	SUITABLE MOTOR			AXIAL LOAD	l/min	0	150	175	200	225	250	275	300	325	350
	P2		3~ 400V		l/sec	0	2,50	2,92	3,33	3,75	4,17	4,58	5,00	5,42	5,83
	HP	kW	A	N	m³/h	0	9,0	10,5	12,0	13,5	15,0	16,5	18,0	19,5	21,0
6E 225/05-40	4	3	7,8	1420		79	71	68	64	58	52	45	37	27	15
6E 225/06-55	5,5	4	9,9	1700		94	86	81	76	70	63	54	44	32	17
6E 225/07-75	7,5	5,5	13,8	1980		110	100	95	89	82	73	63	51	37	20
6E 225/08-75	7,5	5,5	13,8	2270		126	114	109	102	93	83	72	58	42	23
6E 225/09-75	7,5	5,5	13,8	2550		141	128	122	115	105	94	81	66	48	26
6E 225/12-100	10	7,5	16,9	3400		188	171	163	153	140	125	108	88	64	35
6E 225/15-125	12,5	9,2	21,5	4240		236	214	204	191	175	156	135	110	80	44
6E 225/18-150	15	11	23,7	5090	H (m)	283	257	244	229	210	188	162	131	95	52
6E 225/21-175	17,5	13	27,8	5940		330	299	285	267	245	219	189	153	111	61
6E 225/24-200	20	15	30,4	6790		377	342	326	306	280	250	216	175	127	70
6E 225/30-250	25	18,5	38,3	8480		471	428	407	382	350	313	269	219	159	87
6E 225/35-300	30	22	44	9900		550	499	475	446	408	365	314	256	186	102
6E 225/40-400	40	30	62	11310		628	570	543	509	466	417	359	292	212	116
6E 225/45-400	40	30	62	12720		707	641	611	573	524	469	404	329	239	131
6E 225/52-500	50	37	72	14700		816	741	706	662	606	542	467	380	276	151

MEI ≥ 0,7 (regulation EU N. 547/2012)

Max Eff. %	69,6
Max kW / St.	0,64

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,1	1,5	2,0	4,5

6E

6E 350

50 Hz - 2900 rpm							Q										
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	225	250	275	300	350	400	450	500	550	600
	P2		1~ 230V	3~ 400V		l/sec	0	3,75	4,17	4,58	5,00	5,83	6,67	7,50	8,33	9,17	10,00
	HP	kW	A		N	m³/h	0	13,5	15,0	16,5	18,0	21,0	24,0	27,0	30,0	33,0	36,0
6E 350/02-20	2	1,5	11	4,6	790		28	23	22	21	20	18	15	13	10	7	4
6E 350/03-30	3	2,2	14,8	6,2	1180		42	34	33	32	30	27	23	19	15	10	5
6E 350/04-40	4	3	-	7,8	1570		56	46	44	42	40	36	31	26	20	14	7
6E 350/05-55	5,5	4	-	9,9	1960		70	57	55	53	50	45	39	32	25	17	9
6E 350/07-75	7,5	5,5	-	13,8	2750		98	80	77	74	70	62	54	45	35	24	13
6E 350/10-100	10	7,5	-	16,9	3920		140	114	110	105	100	89	77	64	50	34	18
6E 350/12-125	12,5	9,3	-	21,5	4700		168	137	131	126	120	107	93	77	60	41	22
6E 350/15-150	15	11	-	23,7	5880	H (m)	210	171	164	158	150	134	116	96	75	51	27
6E 350/17-175	17,5	13	-	27,8	6660		238	194	186	179	170	152	131	109	85	58	31
6E 350/20-200	20	15	-	30,4	7840		280	228	219	210	200	178	154	128	100	69	36
6E 350/25-250	25	18,5	-	38,3	9800		350	285	274	263	250	223	193	160	125	86	45
6E 350/30-300	30	22	-	44	11760		420	342	329	315	300	268	232	192	149	103	54
6E 350/35-400	40	30	-	62	13720		490	399	383	368	350	312	270	224	174	120	63
6E 350/40-400	40	30	-	62	15680		560	456	438	420	400	357	309	256	199	137	72
6E 350/50-500	50	37	-	72	19600		700	571	548	525	500	446	386	320	249	172	90
6E 350/58-600*	60	45	-	-	22740		812	662	635	609	579	517	448	371	289	199	104

**motor available on request*

MEI ≥ 0,4 (regulation EU N. 547/2012)

Max Eff. %	69,2
Max kW / St.	0,75

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,5	2,0	3,0	5,0

6E 400

50 Hz - 2900 rpm						Q										
TYPE	SUITABLE MOTOR			AXIAL LOAD	l/min	0	300	325	350	375	400	450	500	550	600	650
	P2		3~ 400V		l/sec	0	5,00	5,42	5,83	6,25	6,67	7,50	8,33	9,17	10,00	10,83
	HP	kW	A	N	m³/h	0	18,0	19,5	21,0	22,5	24,0	27,0	30,0	33,0	36,0	39,0
6E 400/03-40	4	3	7,8	1290		46	35	34	32	31	29	25	21	16	10	4
6E 400/04-55	5,5	4	9,9	1720		61	47	45	43	41	39	33	27	21	13	5
6E 400/06-75	7,5	5,5	12,5	2570		92	70	68	65	61	58	50	41	31	20	8
6E 400/08-100	10	7,5	16,9	3430		122	94	90	86	82	77	67	55	42	27	11
6E 400/10-125	12,5	9,3	21,5	4290		153	117	113	108	102	97	84	69	52	34	14
6E 400/12/150	15	11	23,7	5150		184	141	135	129	123	116	100	82	63	40	16
6E 400/14-175	17,5	13	27,8	6000	H (m)	214	164	158	151	143	135	117	96	73	47	19
6E 400/16-200	20	15	30,4	6860		245	187	180	172	164	154	134	110	83	54	22
6E 400/20-250	25	18,5	38,3	8570		306	234	225	215	205	193	167	137	104	67	27
6E 400/24-300	30	22	44	10290		367	281	270	258	246	232	200	164	125	81	32
6E 400/28-350	35	26	58	12000		428	328	315	301	287	270	234	192	146	94	38
6E 400/32-400	40	30	62	13710		490	375	360	344	328	309	267	219	167	108	43
6E 400/40-500	50	37	72	17140		612	468	450	430	410	386	334	274	208	134	54
6E 400/46-600*	60	45	-	19710		704	539	518	495	471	444	384	315	240	155	62

**motor available on request*

MEI ≥ 0,5 (regulation EU N. 547/2012)

Max Eff. %	69,9
Max kW / St.	0,92

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,5	2,0	3,0	5,0

6E 550

50 Hz - 2900 rpm						Q											
TYPE	SUITABLE MOTOR			AXIAL LOAD	l/min	0	350	400	450	500	550	600	650	700	750	800	850
	P2		3~ 400V		l/sec	0	5,83	6,67	7,50	8,33	9,17	10,00	10,83	11,67	12,50	13,33	14,17
	HP	kW	A	N	m³/h	0	21,0	24,0	27,0	30,0	33,0	36,0	39,0	42,0	45,0	48,0	51,0
6E 550/02-40	4	3	7,8	870	H (m)	31	27	26	25	23	21	19	16	13	10	7	3
6E 550/03-55	5,5	4	9,9	1310		47	40	39	37	35	32	28	24	20	15	10	4
6E 550/04-75	7,5	5,5	13,8	1740		62	54	52	49	46	42	38	32	26	20	13	6
6E 550/05-100	10	7,5	16,9	2170		78	67	65	62	58	53	47	40	33	25	17	7
6E 550/06-125	12,5	9,3	21,5	2610		93	81	78	74	70	64	57	48	39	30	20	8
6E 550/08-150	15	11	23,7	3480		124	108	104	99	93	85	76	65	53	40	26	11
6E 550/09-175	17,5	13	27,8	3910		140	121	117	111	104	96	85	73	59	45	30	13
6E 550/10-200	20	15	30,4	4340		155	135	130	124	116	106	95	81	66	50	33	14
6E 550/13-250	25	18,5	38,3	5650		202	175	169	161	151	138	123	105	86	64	43	18
6E 550/16-300	30	22	44	6950		248	216	208	198	186	170	151	129	105	79	53	22
6E 550/19-400	40	30	62	8250		295	256	246	235	220	202	180	154	125	94	63	27
6E 550/22-400	40	30	62	9550		341	296	285	272	255	234	208	178	145	109	73	31
6E 550/27-500	50	37	72	11720		419	364	350	334	313	287	255	218	178	134	89	38
6E 550/32-600*	60	45	-	13890		496	431	415	396	371	340	302	259	211	158	106	45

*motor available on request

MEI ≥ 0,4 (regulation EU N. 547/2012)

Max Eff. %	69,8
Max kW / St.	1,36

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,0	3,0	4,0	7,0

6E 600

50 Hz - 2900 rpm							Q												
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	350	400	450	500	550	600	650	700	750	800	850	900	950
	P2		1~ 230V	3~ 400V		l/sec	0	5,83	6,67	7,50	8,33	9,17	10,00	10,83	11,67	12,50	13,33	14,17	15,00	15,83
	HP	kW	A		N	m³/h	0	21,0	24,0	27,0	30,0	33,0	36,0	39,0	42,0	45,0	48,0	51,0	54,0	57,0
6E 600/02R-30	3	2,2	14,8	6,2	740	H (m)	22	18	17	16	15	13	12	11	9	8	7	5	3	
6E 600/02-40	4	3	-	7,8	870		25	22	21	20	19	17	16	15	13	12	10	9	7	4
6E 600/03-55	5,5	4	-	9,9	1300		38	33	32	30	28	26	24	22	20	18	15	13	10	6
6E 600/04-75	7,5	5,5	-	13,8	1730		51	44	42	40	37	34	32	29	26	24	21	17	13	8
6E 600/05-100	10	7,5	-	16,9	2160		64	55	53	50	47	43	40	36	33	30	26	22	17	11

MEI ≥ 0,4 (regulation EU N. 547/2012)

Max Eff. %	68,4
Max kW / St.	1,22

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,0	3,0	4,0	7,0

6E 700

50 Hz - 2900 rpm						Q													
TYPE	SUITABLE MOTOR			AXIAL LOAD	l/min	0	400	450	500	550	600	650	700	750	800	850	900	1000	1100
	P2		3~ 400V		l/sec	0	6,67	7,50	8,33	9,17	10,00	10,83	11,67	12,50	13,33	14,17	15,00	16,67	18,33
	HP	kW	A	N	m³/h	0	24,0	27,0	30,0	33,0	36,0	39,0	42,0	45,0	48,0	51,0	54,0	60,0	66,0
6E 700/04-100	10	7,5	16,9	1760	H (m)	52	47	45	42	39	36	33	31	28	26	24	21	14	4
6E 700/06-125	12,5	9,3	21,5	2640		77	70	68	63	58	54	50	46	43	39	36	32	21	6
6E 700/07-150	15	11	23,7	3070		90	82	79	74	68	63	58	54	50	46	42	37	25	7
6E 700/08-175	17,5	13	27,8	3510		103	93	90	84	78	72	66	61	57	53	48	43	28	8
6E 700/09-200	20	15	30,4	3950		116	105	101	95	88	81	75	69	64	59	54	48	32	9
6E 700/12-250	25	18,5	38,3	5270		155	140	135	126	117	107	99	92	85	79	72	64	42	12
6E 700/14-300	30	22	44	6140		181	163	158	147	136	125	116	108	100	92	84	74	49	14
6E 700/17-400	40	30	62	7460		219	198	191	179	165	152	141	131	121	112	102	90	60	17
6E 700/19-400	40	30	62	8340		245	221	214	200	185	170	157	146	135	125	114	101	67	19
6E 700/24-500	50	37	72	10530		310	280	270	252	234	215	199	184	171	158	144	128	84	24
6E 700/28-600*	60	45	-	12290		361	326	315	294	272	251	232	215	199	184	168	149	98	28

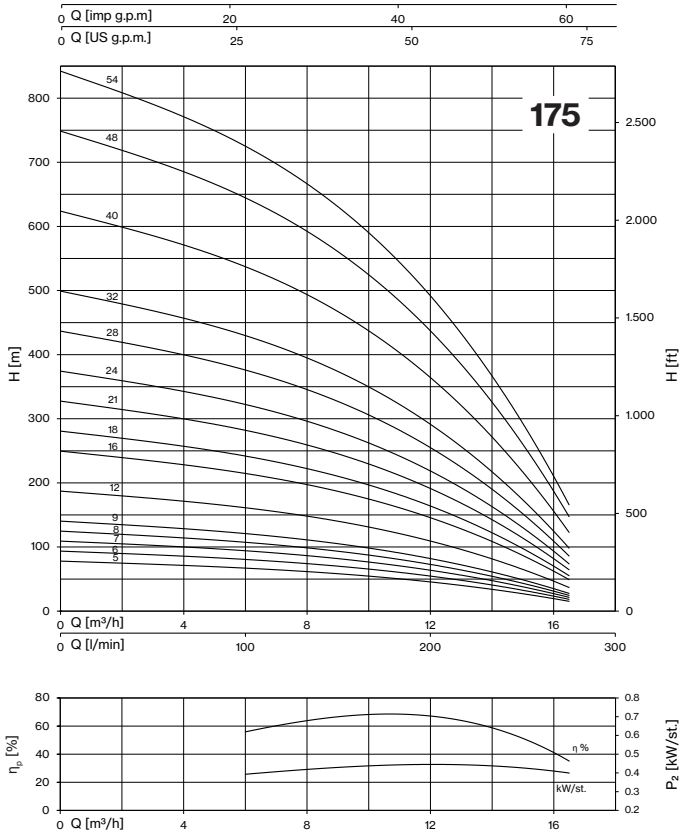
*motor available on request

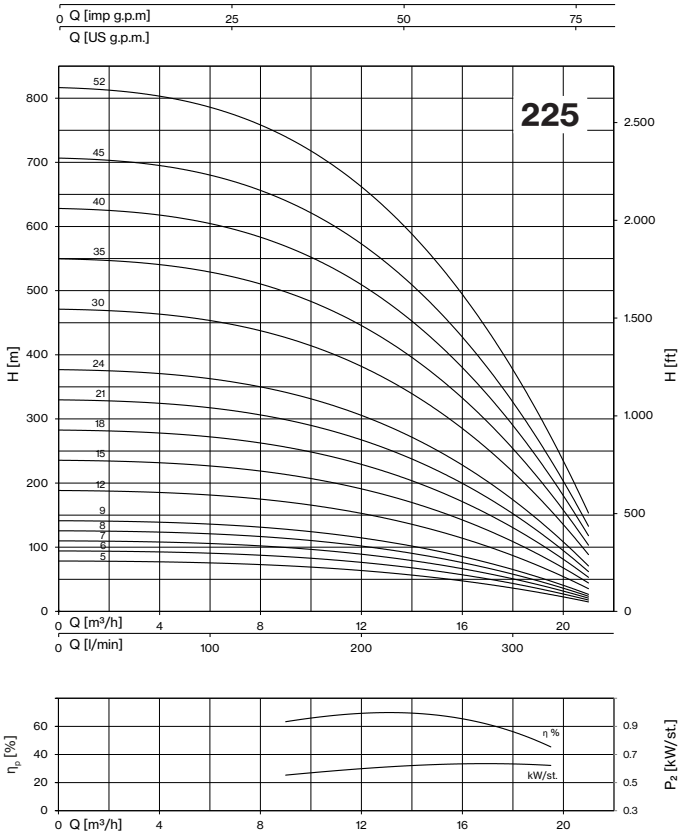
MEI ≥ 0,4 (regulation EU N. 547/2012)

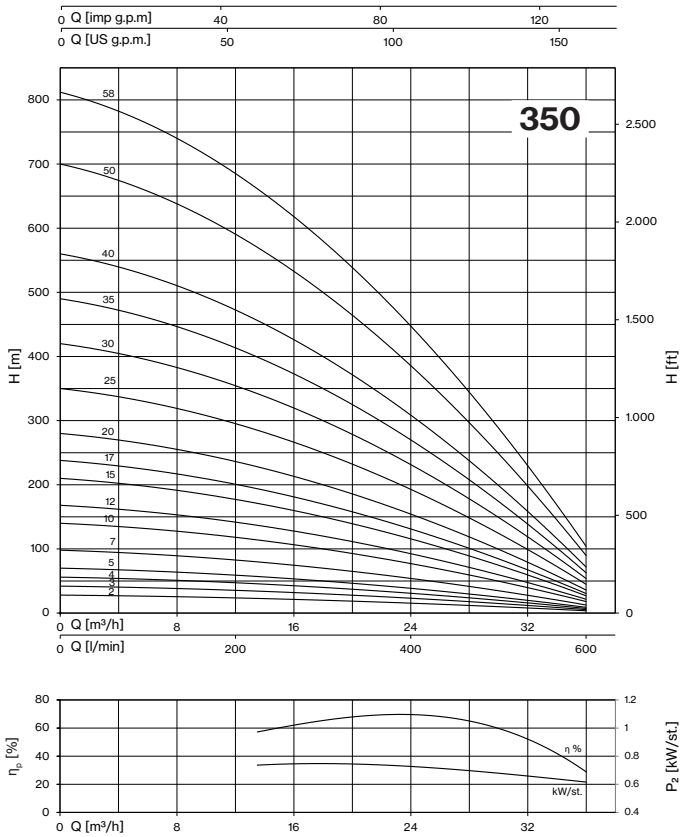
Max Eff. %	70
Max kW / St.	1,37

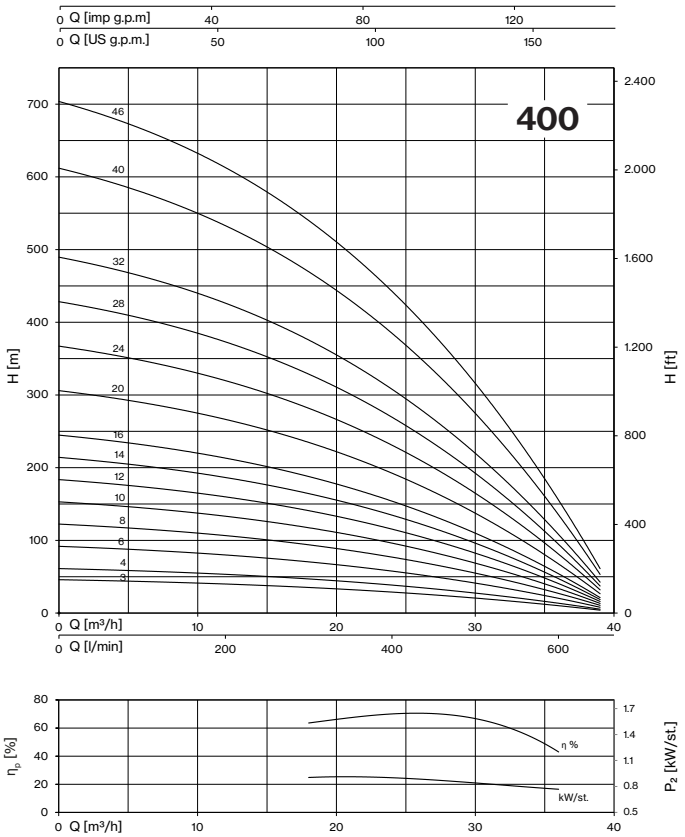
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,0	3,0	4,0	7,0

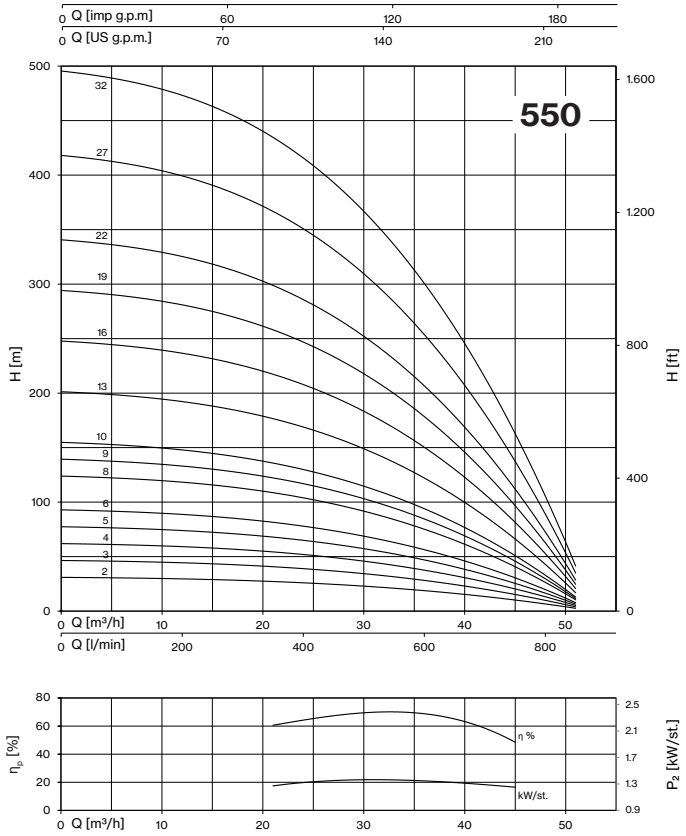
Tolerances according to UNI ISO 9906 grade 3B

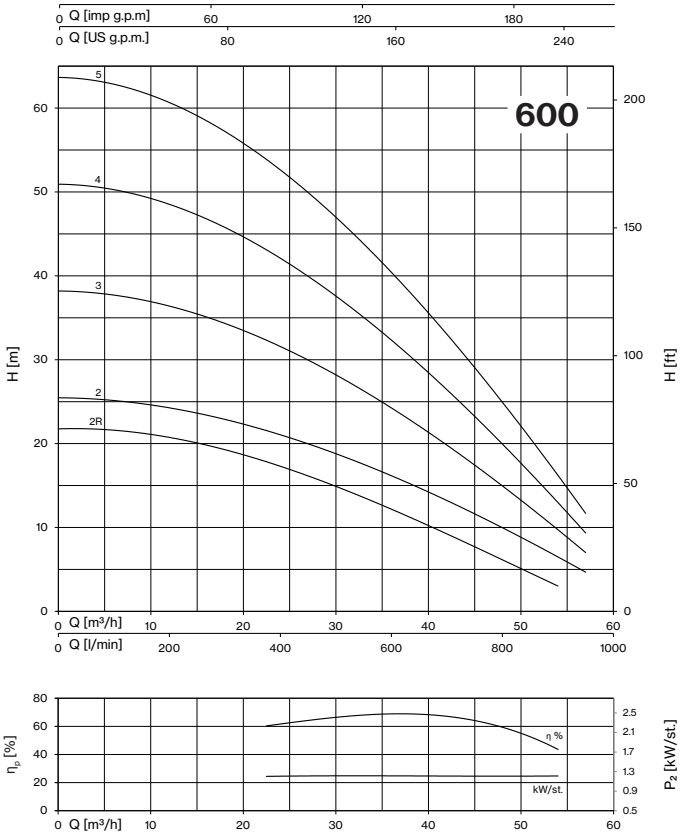

175
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

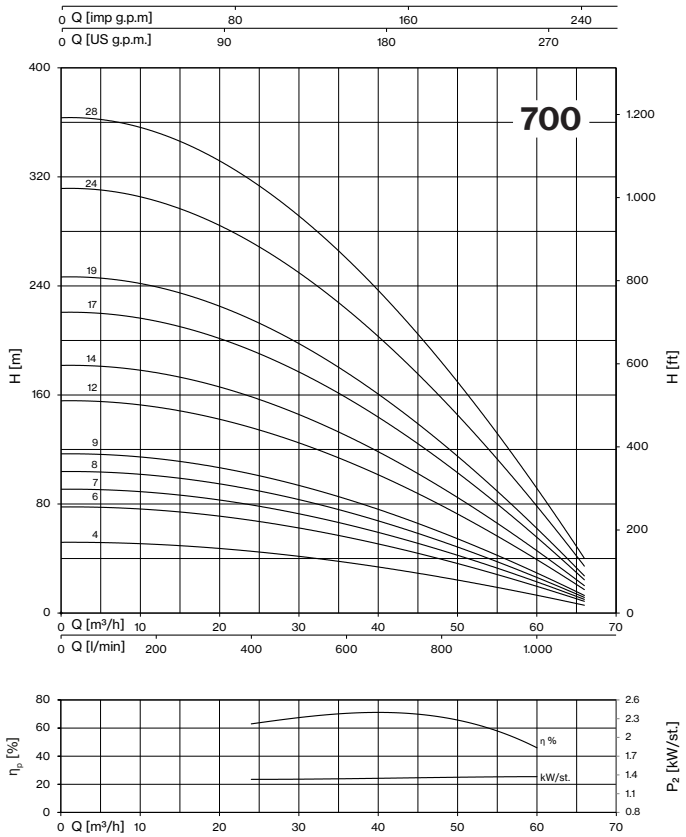

225
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]


350
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

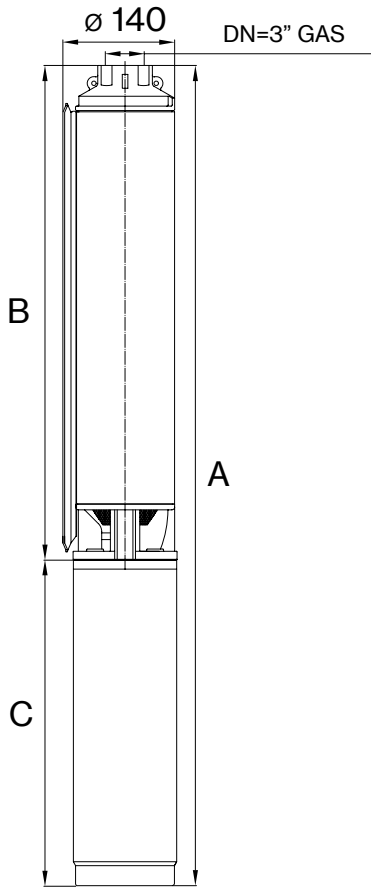

400
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]


550
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]


600
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]


700
Q [imp g.p.m]
Q [US g.p.m.]
H [m]
H [ft]
Q [m³/h]
Q [l/min]
η %
kW/st.
η_p [%]
P2 [kW/st.]

6E



6E 175

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)					WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6E 175/05-30-4	4" NEMA	948	898	478	470	420	24	21,8	9,8	14,2	12
6E 175/06-40-4		-	934	516	-	418	-	23,2	10,4	-	12,8
6E 175/07-55-4		-	1022	554	-	468	-	26,4	11,1	-	15,3
6E 175/08-55-4		-	1060	592	-	468	-	27,1	11,8	-	15,3
6E 175/09-55-4		-	1098	630	-	468	-	27,7	12,4	-	15,3
6E 175/12-75-4		-	1282	744	-	538	-	33,3	14,4	-	18,9
6E 175/16-100	6" NEMA	-	1458	858	-	600	-	58,9	16,9	-	42
6E 175/18-125		-	1572	972	-	600	-	63,3	18,3	-	45
6E 175/21-125		-	1686	1086	-	600	-	67,2	22,2	-	45
6E 175/24-150		-	1900	1200	-	700	-	72,2	24,2	-	48
6E 175/28-175		-	2104	1404	-	700	-	77,7	27,7	-	50
6E 175/32-200*		-	2453	1693	-	760	-	95	41	-	54
6E 175/40-250*		-	2827	1997	-	830	-	112,5	47,5	-	65
6E 175/48-300*		-	3191	2301	-	890	-	124,1	54,1	-	70
6E 175/54-400*		-	3559	2529	-	1030	-	160	59	-	101

** High pressure pump supplied in blocks*

6E 225

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)		
		A	B	C	A	B	C
6E 225/05-40-4	4" NEMA	896	478	418	22,6	9,8	12,8
6E 225/06-55-4		984	516	468	25,8	10,5	15,3
6E 225/07-75-4		1092	554	538	29,7	11,1	18,6
6E 225/08-75-4		1130	592	538	30,4	11,8	18,6
6E 225/09-75-4		1168	630	538	31	12,4	18,6
6E 225/12-100	6" NEMA	1344	744	600	56,3	14,3	42
6E 225/15-125		1458	858	600	61,3	16,3	45
6E 225/18-150		1672	972	700	66,2	18,2	48
6E 225/21-175		1786	1086	700	72,2	22,2	50
6E 225/24-200		1960	1200	760	78,1	24,1	54
6E 225/30-250		2310	1480	830	93,9	28,9	65
6E 225/35-300*		2697	1807	890	113,1	43,1	70
6E 225/40-400*		3027	1997	1030	137,2	47,2	90
6E 225/45-400*		3217	2187	1030	141,3	51,3	90
6E 225/52-500*		3623	2453	1170	158	57	101

** High pressure pump supplied in blocks*

6E 350

TYPE 3~	MOTOR BRACKET		DIMENSIONS (mm)				WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6E 350/02-20-4	4" NEMA	821	786	401	420	385	19,4	17,8	7,4	12	10,4
6E 350/03-30-4		928	878	458	470	420	22,5	20,3	8,3	14,2	12
6E 350/04-40-4		-	933	515	-	418	-	22	9,2	-	12,8
6E 350/05-55-4		-	1040	572	-	468	-	25,3	10	-	15,3
6E 350/07-75-4		-	1224	686	-	538	-	30,7	11,8	-	18,9
6E 350/10-100	6" NEMA	-	1457	857	-	600	-	56,3	14,3	-	42
6E 350/12-125		-	1571	971	-	600	-	61,1	16,1	-	45
6E 350/15-150		-	1842	1142	-	700	-	66,7	18,7	-	48
6E 350/17-175		-	2008	1308	-	700	-	71,2	21,2	-	50
6E 350/20-200		-	2254	1494	-	760	-	79,9	25,9	-	54
6E 350/25-250		-	2608	1778	-	830	-	95,3	30,3	-	65
6E 350/30-300*		-	3077	2187	-	890	-	119,1	49,1	-	70
6E 350/35-400*		-	3502	2472	-	1030	-	144,7	54,7	-	90
6E 350/40-400*		-	3891	2861	-	1030	-	152,5	62,5	-	90
6E 350/50-500*		-	4601	3431	-	1170	-	174,7	73,7	-	101
6E 350/58-600*	-	-	-	3773	-	-	-	-	80,4	-	-

** High pressure pump supplied in blocks*

6E 400

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)		
		A	B	C	A	B	C
6E 400/03-40-4	4" NEMA	877	459	418	22,6	9,8	12,8
6E 400/04-55-4		984	516	468	26,1	10,8	15,3
6E 400/06-75-4		1200	630	570	52,9	12,9	40
6E 400/08-100	6" NEMA	1344	744	600	56,9	14,9	42
6E 400/10-125		1458	858	600	62,1	17,1	45
6E 400/12/150		1672	972	700	67,2	19,2	48
6E 400/14-175		1786	1086	700	71,4	21,4	50
6E 400/16-200		1960	1200	760	77,4	23,4	54
6E 400/20-250		2310	1480	830	92,7	27,7	65
6E 400/24-300		2597	1707	890	101,5	31,5	70
6E 400/28-400*		3103	2073	1030	136,9	46,9	90
6E 400/32-400*		3331	2301	1030	141,2	51,2	90
6E 400/40-500*		3927	2757	1170	160,8	59,8	101
6E 400/46-600*	-	-	3099	-	-	66,3	-

** High pressure pump supplied in blocks*

6E

6E 550

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)		
		A	B	C	A	B	C
6E 550/02-40-4	4" NEMA	826	408	418	21,3	8,5	12,8
6E 550/03-55-4		936	468	468	24,7	9,4	15,3
6E 550/04-75-4		1066	528	538	28,9	10,3	18,6
6E 550/05-100	6" NEMA	1188	588	600	53,2	11,2	42
6E 550/06-125		1248	648	600	57,1	12,1	45
6E 550/08-150		1468	768	700	61,9	13,9	48
6E 550/09-175		1528	828	700	65	15	50
6E 550/10-200		1648	888	760	69,9	15,9	54
6E 550/13-250		1898	1068	830	83,6	18,6	65
6E 550/16-300		2138	1248	890	91,5	21,5	70
6E 550/19-400		2510	1480	1030	117,6	27,6	90
6E 550/22-400		2690	1660	1030	120,6	30,6	90
6E 550/27-500*		3129	1959	1170	142,2	41,2	101
6E 550/32-600*	-	-	2397	-	-	53,1	-

** High pressure pump supplied in blocks*

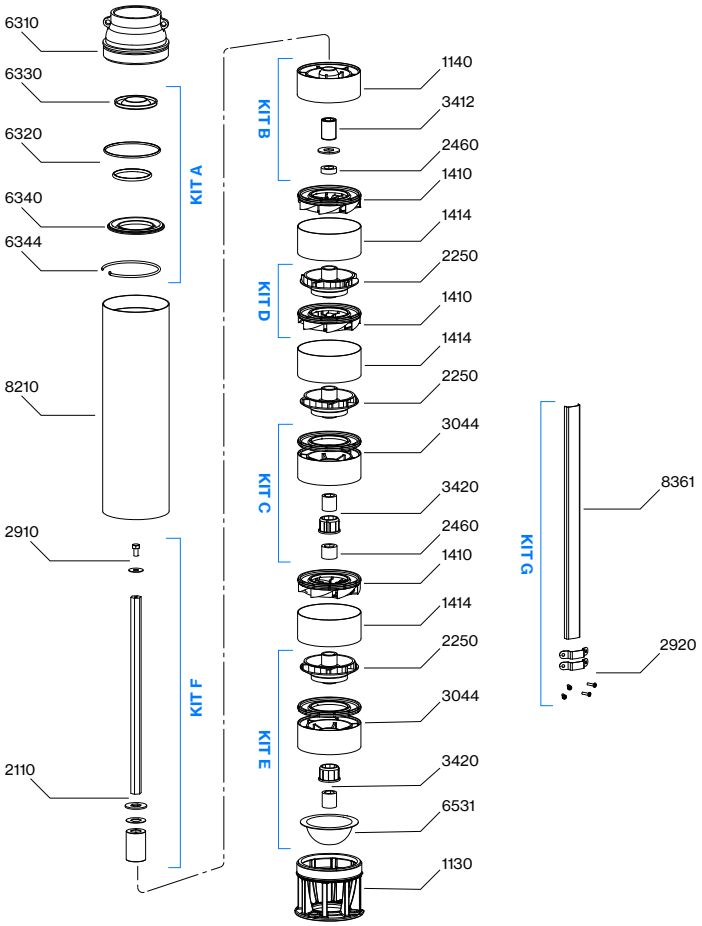
6E 600

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)					WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6E 600/02R-30-4	4" NEMA	878	828	408	470	420	26,2	20,5	8,5	14,2	12
6E 600/02-40-4		-	826	408	-	418	-	21,3	8,5	-	12,8
6E 600/03-55-4		-	936	468	-	468	-	24,7	9,4	-	15,3
6E 600/04-75-4		-	1066	528	-	538	-	28,8	10,2	-	18,6
6E 600/05-100	6" NEMA	-	1188	588	-	600	-	53,2	11,2	-	42

6E 700

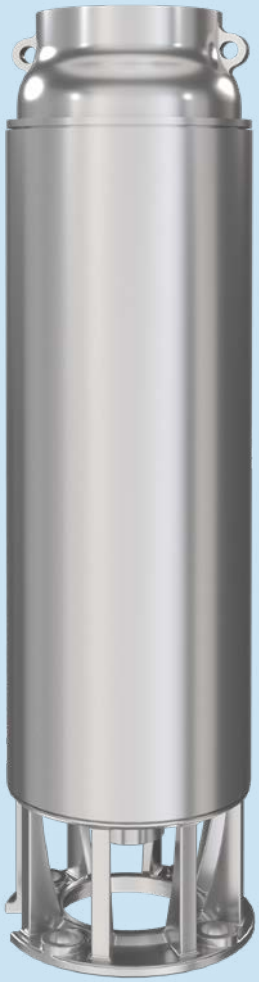
TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)		
		A	B	C	A	B	C
6E 700/04-100	6" NEMA	1128	528	600	52,2	10,2	42
6E 700/06-125		1248	648	600	57	12	45
6E 700/07-150		1408	708	700	60,9	12,9	48
6E 700/08-175		1468	768	700	63,8	13,8	50
6E 700/09-200		1588	828	760	68,8	14,8	54
6E 700/12-250		1838	1008	830	80,7	15,7	65
6E 700/14-300		2018	1128	890	87,8	17,8	70
6E 700/17-400		2338	1308	1030	111,9	21,9	90
6E 700/19-400		2510	1480	1030	116,8	26,8	90
6E 700/24-500		2949	1779	1170	138,1	37,1	101
6E 700/28-600*	-	-	1959	-	-	41,7	-

** High pressure pump supplied in blocks*



N. CODE	KIT	DESCRIPTION	MATERIAL
6320	**KIT A** *check valve*	**O-RINGS**	NBR
6330		**WING VALVE**	AISI 304
6340		**WING VALVE SUPPORT**	AISI 304
6344		**SEEGER**	AISI 304
1140	**KIT B** *upper support*	**UPPER SUPPORT**	PPO + PA
2460		**SPACER SLEEVE**	PPO
3412		**SUPPORT SLEEVE**	AISI 316L + CERAMIC
2460	**KIT C** *intermediate support*	**WASHER AND SPACERS**	PPO
3044		**SUPPORT WITH BUSH AND DISC**	PPO + PA
3420		**SUPPORT SLEEVE WITH SPACERS**	AISI 316L
1410	**KIT D** *stage*	**COMPLETE DIFFUSER**	PPO + AISI 304
2250		**IMPELLER**	PPO
2250	**KIT E** *first stage*	**FIRST IMPELLER**	PPO
3044		**SUPPORT WITH BUSH AND DISC**	PPO + PA
3420		**SUPPORT SLEEVE WITH SPACERS**	AISI 316L
6531		**GRID**	AISI 304
2110	**KIT F** *shaft with coupling*	**SHAFT WITH COUPLING**	AISI 431B + AISI 316
2910		**SCREW WITH WASHER**	AISI 304
2920	**KIT G** *cover cable*	**2× SCREW AND CLIP**	AISI 304
8361		**CABLE COVER**	AISI 304
1130	-	**BOTTOM CASING**	AISI 304
1414		**SPACER PIPE**	AISI 304
6310		**TOP CASING**	AISI 304
8210		**EXTERNAL PIPE**	AISI 304

6ES





Designed for 6” wells, the 6ES series is entirely constructed from stainless steel. Featuring suction and discharge ports in AISI 304 microfusion and impellers/diffusers in stamped 304L, these units offer superior corrosion resistance and durability.

Technical Highlights: designed for high pressures (up to 40 bar) via series-connected pump groups. Includes a 3” threaded discharge port with an integrated non-return valve. Standard coupling for 4” (NEMA) motors up to 7.5 HP and 6” motors from 10 HP.

Operation: max diameter: 140 mm (including cable guard). Rotation is counterclockwise from the discharge side. Suitable for continuous duty in vertical or horizontal positions. Minimum water level: 1m above suction.

Applications: deep well extraction (domestic/industrial), lifting systems, surface/sprinkler irrigation, water supply networks, firefighting, and pressure tank supply.

Construction features	
Suction and delivery outlet	stainless steel AISI 304
External jacket	stainless steel AISI 304
Impellers	stainless steel AISI 304
Diffusers	stainless steel AISI 304
Support bush with sleeves	EPDM + ceramic-coated stainless steel AISI 316L
Shaft	stainless steel AISI 431B
Coupling	stainless steel AISI 316L
Quantity of sand in the water	250 g/m³
Max liquid temperature	max 60 °C
Non-return valve	standard on all models

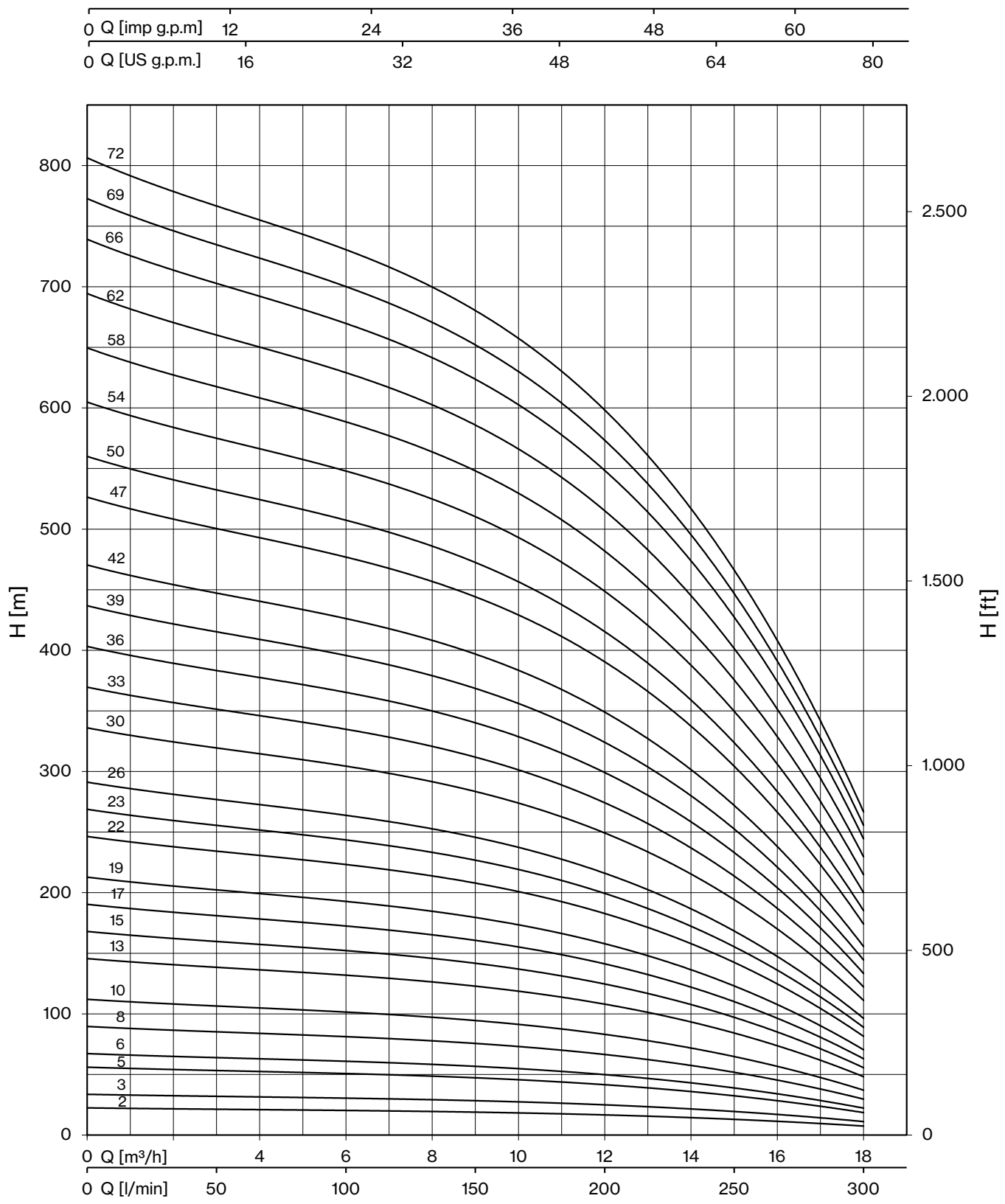
50 Hz - 2850 rpm							Q									
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	100	125	150	175	200	225	250	275	300
	P2		1~ 230V	3~ 400V		l/sec	0	1,67	2,08	2,5	2,92	3,33	3,75	4,17	4,58	5,0
	HP	kW	A		N	m³/h	0	6,0	7,5	9,0	10,5	12,0	13,5	15,0	16,5	18,0
6ES 200/02-015	1,5	1,1	8,2	3,4	358		22	20	20	19	18	17	15	13	10	7
6ES 200/03-020	2	1,5	11	4,6	538		34	30	30	28	27	25	23	20	16	11
6ES 200/05-030	3	2,2	14,8	6,2	896		56	51	49	47	45	41	38	33	26	19
6ES 200/06-040	4	3	-	7,8	1075		67	61	59	57	54	50	45	39	31	22
6ES 200/08-055	5,5	4	-	9,9	1434		90	81	79	76	72	66	60	52	42	30
6ES 200/10-075	7,5	5,5	-	13,8	1792		112	101	99	95	90	83	75	65	52	37
6ES 200/13-075	7,5	5,5	-	13,8	2330		146	132	128	123	116	108	98	85	68	48
6ES 200/15-100	10	7,5	-	16,9	2688		168	152	148	142	134	124	113	98	78	56
6ES 200/17-100	10	7,5	-	16,9	3046		190	172	167	161	152	141	128	111	88	63
6ES 200/19-125	12,5	9,3	-	21,5	3405		213	193	187	180	170	158	143	124	99	70
6ES 200/22-125	12,5	9,3	-	21,5	3942		246	223	217	208	197	182	165	143	114	82
6ES 200/24-150	15	11	-	23,7	4301		269	243	236	227	215	199	180	156	125	89
6ES 200/26-150	15	11	-	23,7	4659	H	291	264	256	246	233	216	195	169	135	96
6ES 200/30-175	17,5	13	-	27,8	5376	(m)	336	304	296	284	269	249	225	195	156	111
6ES 200/33-200	20	15	-	30,4	5914		370	335	325	312	295	274	248	215	172	122
6ES 200/36-200	20	15	-	30,4	6451		403	365	355	340	322	298	270	234	187	134
6ES 200/39-250	25	18,5	-	38,3	6989		437	395	384	369	349	323	293	254	203	145
6ES 200/42-250	25	18,5	-	38,3	7526		470	426	414	397	376	348	315	273	218	156
6ES 200/47-300	30	22	-	44	8422		526	477	463	444	421	390	353	306	244	174
6ES 200/50-300	30	22	-	44	8960		560	507	493	473	448	415	375	325	260	186
6ES 200/54-350	40	30	-	62	9677		605	548	532	510	483	448	405	351	281	200
6ES 200/58-400	40	30	-	62	10394		650	588	571	548	519	481	435	377	302	215
6ES 200/62-400	40	30	-	62	11110		694	629	611	586	555	514	465	403	322	230
6ES 200/66-500	50	37	-	72	11827		739	669	650	624	591	547	495	429	343	245
6ES 200/69-500	50	37	-	72	12365		773	700	680	652	618	572	518	449	359	256
6ES 200/72-500	50	37	-	72	12902		806	730	709	680	644	597	540	468	374	267

MEI ≥ 0,7 (regulation EU N. 547/2012)

Eff. max %	70
Max kW / St.	0,42

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,1	1,5	2	4,5

6ES 200


0 Q [imp g.p.m] 12 24 36 48 60
0 Q [US g.p.m.] 16 32 48 64 80
72
69
66
62
58
54
50
47
42
39
36
33
30
26
23
22
19
17
15
13
10
8
6
5
3
2
800
700
600
500
400
300
200
100
0
H [m]
2.500
2.000
1.500
1.000
500
0
H [ft]
0 Q [m³/h] 4 6 8 10 12 14 16 18
0 Q [l/min] 50 100 150 200 250 300

50 Hz - 2850 rpm							Q												
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	150	175	200	225	250	275	300	325	350	375	400	450
	P2		1~ 230V	3~ 400V		l/sec	0	2,5	2,92	3,33	3,75	4,17	4,58	5,0	5,42	5,83	6,25	6,67	7,5
	HP	kW	A		N	m³/h	0	9,0	10,5	12,0	13,5	15,0	16,5	18,0	19,5	21,0	22,5	24,0	27,0
6ES 300/02-020	2	1,5	11	4,6	420		23	21	21	21	20	19	18	17	16	14	13	11	7
6ES 300/03-030	3	2,2	14,8	6,2	630		35	32	32	31	30	29	27	26	24	22	19	16	10
6ES 300/04-040	4	3	-	7,8	840		47	43	42	41	40	38	37	34	32	29	25	22	14
6ES 300/06-055	5,5	4	-	9,9	1260		70	64	63	62	60	58	55	52	47	43	38	33	21
6ES 300/09-075	7,5	5,5	-	13,8	1891		105	97	95	93	90	86	82	77	71	65	57	49	31
6ES 300/12-100	10	7,5	-	16,9	2521		140	129	127	124	120	115	110	103	95	86	76	66	41
6ES 300/15-125	12,5	9,3	-	21,5	3151		175	161	158	155	150	144	137	129	119	108	95	82	51
6ES 300/18-150	15	11	-	23,7	3781		210	193	190	185	180	173	165	155	142	130	114	99	62
6ES 300/21-175	17,5	13	-	27,8	4411		245	225	222	216	210	202	192	181	166	151	133	115	72
6ES 300/24-200	20	15	-	30,4	5041		280	258	253	247	240	230	220	206	190	173	152	132	82
6ES 300/27-250	25	18,5	-	38,3	5672		315	290	285	278	270	259	247	232	213	194	171	148	92
6ES 300/30-250	25	18,5	-	38,3	6302		350	322	317	309	300	288	275	258	237	216	190	165	103
6ES 300/33-300	30	22	-	44	6932	H (m)	385	354	348	340	330	317	302	284	261	238	209	181	113
6ES 300/36-300	30	22	-	44	7562		420	386	380	371	360	346	329	310	284	259	228	198	123
6ES 300/38-350	40	30	-	62	7982		443	408	401	391	380	365	348	327	300	274	241	209	130
6ES 300/40-350	40	30	-	62	8402		467	429	422	412	400	384	366	344	316	288	254	220	137
6ES 300/42-350	40	30	-	62	8823		490	451	443	433	420	403	384	361	332	302	266	231	144
6ES 300/44-400	40	30	-	62	9243		513	472	464	453	440	422	403	378	348	317	279	242	150
6ES 300/46-400	40	30	-	62	9663		537	494	485	474	460	442	421	396	363	331	292	253	157
6ES 300/48-400	40	30	-	62	10083		560	515	506	494	480	461	439	413	379	346	305	264	164
6ES 300/52-500	50	37	-	72	10923		607	558	549	536	520	499	476	447	411	374	330	285	178
6ES 300/56-500	50	37	-	72	11763		654	601	591	577	560	538	512	482	442	403	355	307	192
6ES 300/60-500	50	37	-	72	12604		700	644	633	618	600	576	549	516	474	432	381	329	205
6ES 300/66-600*	60	45	-	-	13864		770	708	696	680	660	634	604	568	521	475	419	362	226
6ES 300/69-600*	60	45	-	-	14494		805	740	728	711	690	662	631	593	545	497	438	379	236
6ES 300/72-600*	60	45	-	-	15124		840	773	760	742	720	691	659	619	569	518	457	395	246

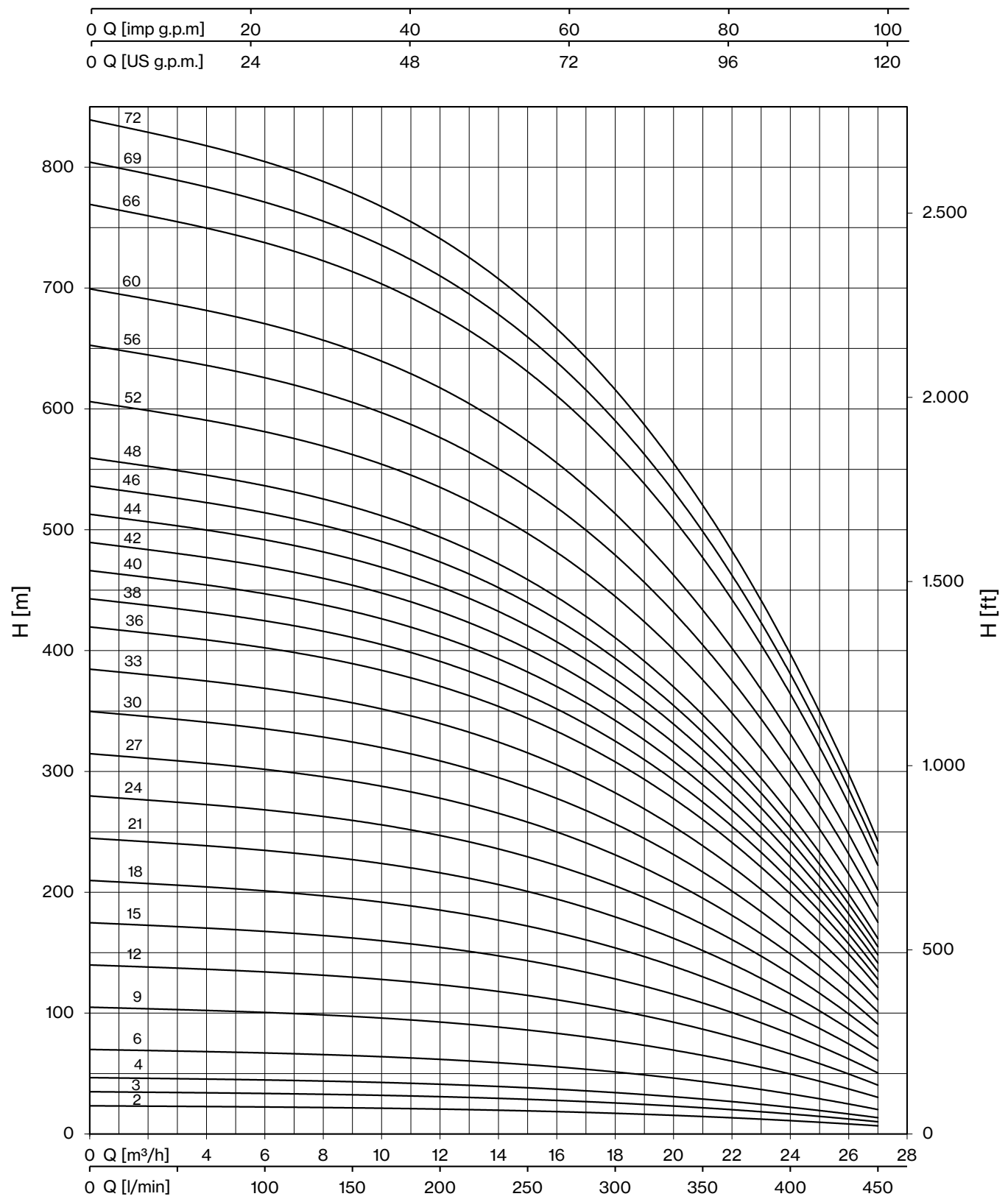
**motor available on request*

MEI ≥ 0,7 (regulation EU N. 547/2012)

Eff. max %	72
Max kW / St.	0,62

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,3	1,8	2,5	4,8

6ES 300


0 Q [imp g.p.m] 20 40 60 80 100
0 Q [US g.p.m.] 24 48 72 96 120
72
69
66
60
56
52
48
46
44
42
40
38
36
33
30
27
24
21
18
15
12
9
6
4
3
2
800
700
600
500
400
300
200
100
0
H [m]
2.500
2.000
1.500
1.000
500
0
H [ft]
0 Q [m³/h] 4 6 8 10 12 14 16 18 20 22 24 26 28
0 Q [l/min] 100 150 200 250 300 350 400 450

50 Hz - 2850 rpm							Q											
TYPE	SUITABLE MOTOR				AXIAL LOAD	l/min	0	250	275	300	325	350	375	400	450	500	550	600	650
	P2		1~ 230V	3~ 400V		l/sec	0	4,17	4,58	5,0	5,42	5,83	6,25	6,67	7,5	8,33	9,17	10,0	10,8
	HP	kW	A		N	m³/h	0	15,0	16,5	18,0	19,5	21,0	22,5	24,0	27,0	30,0	33,0	36,0	39,0
6ES 500/02-030	3	2,2	14,8	6,2	678		24	22	22	21	21	20	20	19	18	16	14	11	7
6ES 500/03-040	4	3	-	7,8	1016		36	33	33	32	31	30	29	29	26	24	21	17	11
6ES 500/04-055	5,5	4	-	9,9	1355		48	44	44	43	42	40	39	38	35	32	28	22	15
6ES 500/05-075	7,5	5,5	-	13,8	1694		61	56	54	53	52	51	49	48	44	40	35	28	19
6ES 500/07-100	10	7,5	-	16,9	2372		85	78	76	75	73	71	69	67	62	56	48	39	26
6ES 500/09-125	12,5	9,3	-	21,5	3049		109	100	98	96	94	91	88	86	79	72	62	50	33
6ES 500/11-150	15	11	-	23,7	3727		133	122	120	117	114	111	108	105	97	88	76	61	41
6ES 500/13-175	17,5	13	-	27,8	4404		157	144	142	139	135	132	128	124	114	104	90	72	48
6ES 500/15-200	20	15	-	30,4	5082		182	167	163	160	156	152	147	143	132	120	104	83	56
6ES 500/17-250	25	18,5	-	38,3	5760		206	189	185	181	177	172	167	162	150	136	118	94	63
6ES 500/19-250	25	18,5	-	38,3	6437		230	211	207	203	198	192	186	181	167	152	131	105	70
6ES 500/21-300	30	22	-	44	7115	H (m)	254	233	229	224	218	213	206	200	185	168	145	117	78
6ES 500/23-300	30	22	-	44	7792		278	255	250	245	239	233	226	219	202	184	159	128	85
6ES 500/26-350	40	30	-	62	8809		315	289	283	277	270	263	255	247	229	207	180	144	96
6ES 500/28-400	40	30	-	62	9486		339	311	305	299	291	283	275	266	246	223	194	155	104
6ES 500/30-400	40	30	-	62	10164		363	333	327	320	312	304	294	285	264	239	208	167	111
6ES 500/32-500	50	37	-	72	10842		387	355	348	341	333	324	314	304	282	255	221	178	118
6ES 500/34-500	50	37	-	72	11519		411	377	370	363	353	344	334	323	299	271	235	189	126
6ES 500/36-500	50	37	-	72	12197		436	400	392	384	374	364	353	342	317	287	249	200	133
6ES 500/38-500	50	37	-	72	12874		460	422	414	405	395	385	373	361	334	303	263	211	141
6ES 500/40-600*	60	45	-	-	13552		484	444	435	427	416	405	392	380	352	319	277	222	148
6ES 500/42-600*	60	45	-	-	14230		508	466	457	448	437	425	412	399	370	335	291	233	155
6ES 500/44-600*	60	45	-	-	14907		532	488	479	469	457	445	432	418	387	351	304	244	163
6ES 500/46-600*	60	45	-	-	15585		557	511	501	491	478	466	451	437	405	367	318	255	170

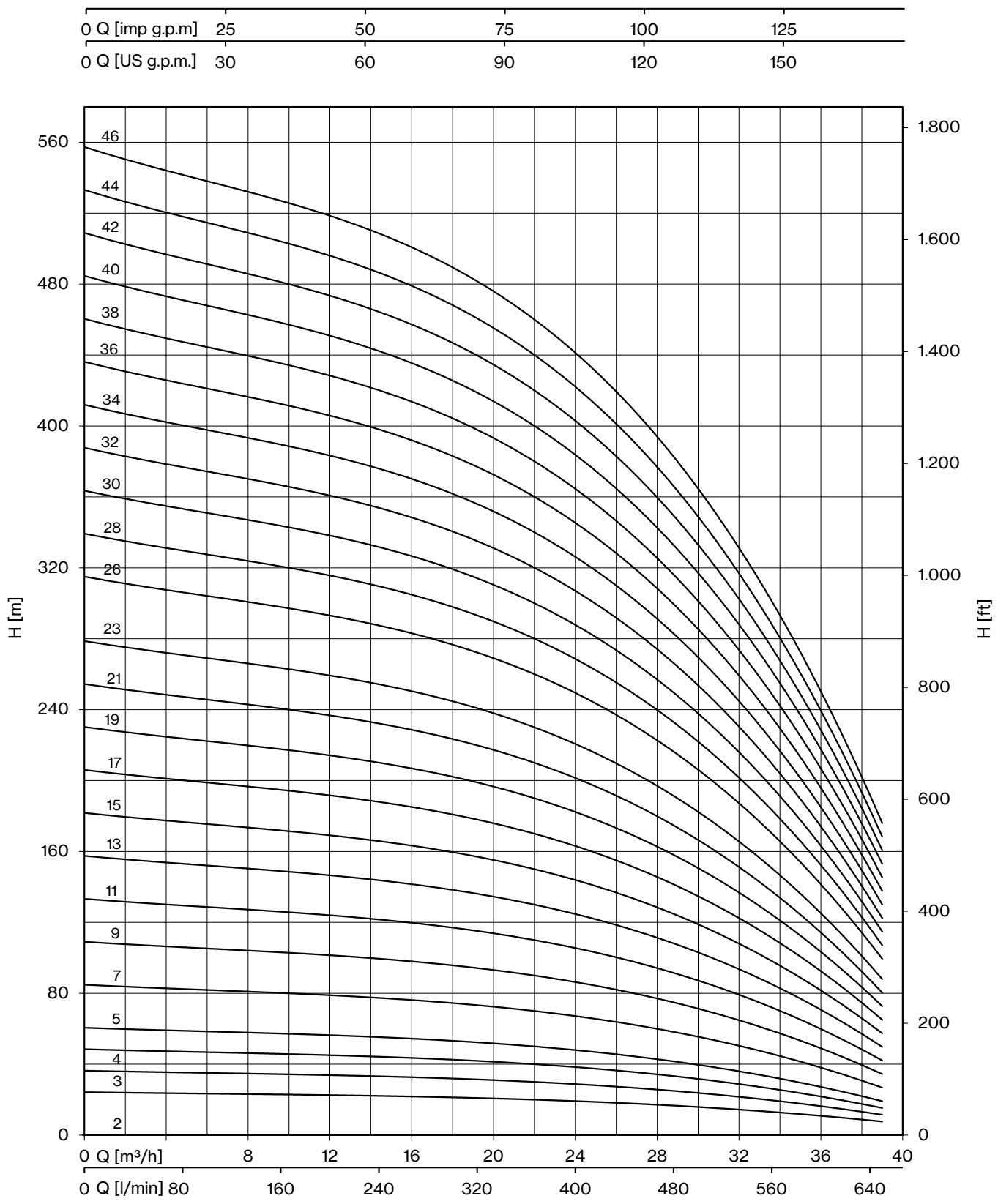
**motor available on request*

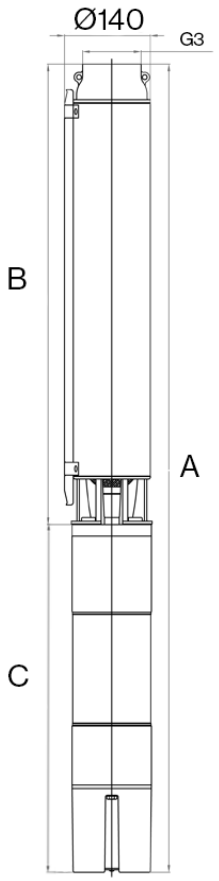
MEI ≥ 0,4 (regulation EU N. 547/2012)

Eff. max %	72,2
Max kW / St.	0,95

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	1,5	2	3	5

6ES 500


0 Q [imp g.p.m] 25 50 75 100 125
0 Q [US g.p.m.] 30 60 90 120 150
H [m]
H [ft]
560 480 400 320 240 160 80 0
1.800 1.600 1.400 1.200 1.000 800 600 400 200 0
46 44 42 40 38 36 34 32 30 28 26 23 21 19 17 15 13 11 9 7 5 4 3 2
0 Q [m³/h] 8 12 16 20 24 28 32 36 40
0 Q [l/min] 80 160 240 320 400 480 560 640



6ES 200

TYPE	MOTOR BRACKET	DIMENSIONS (mm)					WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6ES 200/02-015-4	4" NEMA	699	664	314	385	350	18,8	17,2	8,5	10,3	8,7
6ES 200/03-020-4		764	729	344	420	385	21,5	19,9	9,5	12	10,4
6ES 200/05-030-4		874	824	404	470	420	25,7	23,5	11,5	14,2	12
6ES 200/06-040-4		-	852	434	-	418	-	25,3	12,5	-	12,8
6ES 200/08-055-4		-	995	527	-	468	-	30,5	15,2	-	15,3
6ES 200/10-075-4		-	1125	587	-	538	-	35,8	17,2	-	18,6
6ES 200/13-075-4		-	1215	677	-	538	-	38,9	20,3	-	18,6
6ES 200/15-100	6" NEMA	-	1337	737	-	600	-	64,3	22,3	-	42
6ES 200/17-100		-	1397	797	-	600	-	66,3	24,3	-	42
6ES 200/19-125		-	1457	857	-	600	-	71,4	26,4	-	45
6ES 200/22-125		-	1547	947	-	600	-	74,4	29,4	-	45
6ES 200/24-150		-	1707	1007	-	700	-	79,4	31,4	-	48
6ES 200/26-150		-	1767	1067	-	700	-	82,9	34,9	-	48
6ES 200/30-175		-	1902	1202	-	700	-	88,9	38,9	-	50
6ES 200/33-200		-	2052	1292	-	760	-	96	42	-	54
6ES 200/36-200		-	2194	1434	-	760	-	100,6	46,6	-	54
6ES 200/39-250		-	2354	1524	-	830	-	114,7	49,7	-	65
6ES 200/42-250		-	2444	1614	-	830	-	117,7	52,7	-	65
6ES 200/47-300		-	2654	1764	-	890	-	127,8	57,8	-	70
6ES 200/50-300*		-	2838	1948	-	890	-	137,1	67,1	-	70
6ES 200/54-350*		-	3098	2068	-	1030	-	161,4	71,4	-	90
6ES 200/58-400*		-	3218	2188	-	1030	-	165,7	75,7	-	90
6ES 200/62-400*		-	3338	2308	-	1030	-	170	80	-	90
6ES 200/66-500*		-	4293	3123	-	1170	-	199,8	98,8	-	101
6ES 200/69-500*		-	4406	3236	-	1170	-	203,3	102,3	-	101
6ES 200/72-500*		-	4518	3348	-	1170	-	206,9	105,9	-	101

** High pressure pump supplied in blocks*

6ES

6ES 300

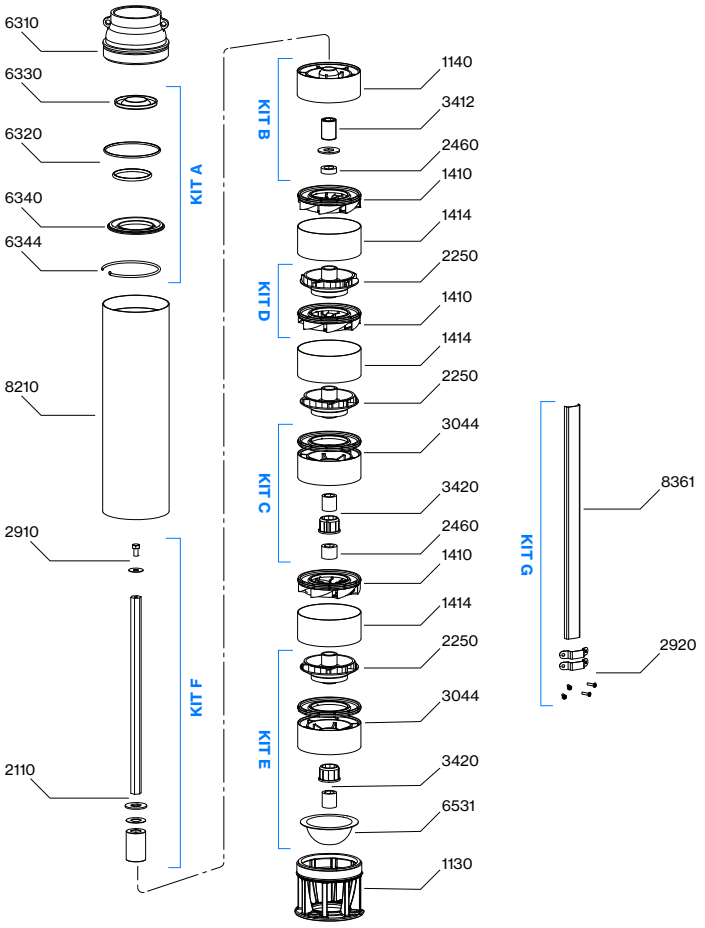
TYPE	MOTOR BRACKET	DIMENSIONS (mm)					WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6ES 300/02-020-4	4" NEMA	695	660	275	420	385	20,7	19,1	8,7	12	10,4
6ES 300/03-030-4		783	733	313	470	420	24	21,8	9,8	14,2	12
6ES 300/04-040-4		-	768	350	-	418	-	23,7	10,9	-	12,8
6ES 300/06-055-4		-	926	458	-	468	-	29,1	13,8	-	15,3
6ES 300/09-075-4		-	1109	571	-	538	-	35,8	17,2	-	18,6
6ES 300/12-100	6" NEMA	-	1283	683	-	600	-	62,5	20,5	-	42
6ES 300/15-125		-	1396	796	-	600	-	68,9	23,9	-	45
6ES 300/18-150		-	1608	908	-	700	-	75,2	27,2	-	48
6ES 300/21-175		-	1721	1021	-	700	-	80,6	30,6	-	50
6ES 300/24-200		-	1893	1133	-	760	-	88	34	-	54
6ES 300/27-250		-	2091	1261	-	830	-	103,7	38,7	-	65
6ES 300/30-250		-	2255	1425	-	830	-	108,7	43,7	-	65
6ES 300/33-300		-	2428	1538	-	890	-	117,1	47,1	-	70
6ES 300/36-300		-	2540	1650	-	890	-	120,4	50,4	-	70
6ES 300/38-350*		-	2903	1873	-	1030	-	148,8	58,8	-	90
6ES 300/40-350*		-	2978	1948	-	1030	-	151,2	61,2	-	90
6ES 300/42-350*		-	3053	2023	-	1030	-	153,6	63,6	-	90
6ES 300/44-400*		-	3128	2098	-	1030	-	155,9	65,9	-	90
6ES 300/46-400*		-	3203	2173	-	1030	-	158,3	68,3	-	90
6ES 300/48-400*		-	3278	2248	-	1030	-	160,7	70,7	-	90
6ES 300/52-500*		-	3568	2398	-	1170	-	176,5	75,5	-	101
6ES 300/56-500*		-	3718	2548	-	1170	-	181,2	80,2	-	101
6ES 300/60-500*		-	3868	2698	-	1170	-	186	85	-	101
6ES 300/66-600*		-	-	3123	-	-	-	-	98,8	-	-
6ES 300/69-600*		-	-	3236	-	-	-	-	102,3	-	-
6ES 300/72-600*		-	-	3348	-	-	-	-	105,9	-	-

** High pressure pump supplied in blocks*

6ES 500

TYPE	MOTOR BRACKET	DIMENSIONS (mm)					WEIGHT (kg)				
		A (1~)	A (3~)	B	C (1~)	C (3~)	A (1~)	A (3~)	B	C (1~)	C (3~)
6ES 500/02-030-4	4" NEMA	763	713	293	470	420	23,4	21,2	9,2	14,2	12
6ES 500/03-040-4		-	758	340	-	418	-	23,3	10,5	-	12,8
6ES 500/04-055-4		-	887	419	-	468	-	27,8	12,5	-	15,3
6ES 500/05-075-4		-	1004	466	-	538	-	32,5	13,9	-	18,6
6ES 500/07-100	6" NEMA	-	1159	559	-	600	-	58,6	16,6	-	42
6ES 500/09-125		-	1252	652	-	600	-	64,4	19,4	-	45
6ES 500/11-150		-	1445	745	-	700	-	70,1	22,1	-	48
6ES 500/13-175		-	1538	838	-	700	-	74,8	24,8	-	50
6ES 500/15-200		-	1691	931	-	760	-	81,6	27,6	-	54
6ES 500/17-250		-	1854	1024	-	830	-	95,3	30,3	-	65
6ES 500/19-250		-	1947	1117	-	830	-	98	33	-	65
6ES 500/21-300		-	2100	1210	-	890	-	105,7	35,7	-	70
6ES 500/23-300		-	2245	1355	-	890	-	111,5	41,5	-	70
6ES 500/26-350		-	2539	1509	-	1030	-	135,6	45,6	-	90
6ES 500/28-400		-	2632	1602	-	1030	-	138,3	48,3	-	90
6ES 500/30-400*		-	2873	1843	-	1030	-	147,1	57,1	-	90
6ES 500/32-500*		-	3106	1936	-	1170	-	161	60	-	101
6ES 500/34-500*		-	3199	2029	-	1170	-	163,9	62,9	-	101
6ES 500/36-500*		-	3292	2122	-	1170	-	166,8	65,8	-	101
6ES 500/38-500*		-	3385	2215	-	1170	-	169,7	68,7	-	101
6ES 500/40-600*		-	-	2308	-	-	-	-	71,6	-	-
6ES 500/42-600*		-	-	2401	-	-	-	-	74,5	-	-
6ES 500/44-600*		-	-	2494	-	-	-	-	77,5	-	-
6ES 500/46-600*		-	-	2587	-	-	-	-	80,4	-	-

** High pressure pump supplied in blocks*



N. CODE	KIT	DESCRIPTION	MATERIAL
6320	**KIT A** *check valve*	**O-RINGS**	STAINLESS STEEL AISI 304
6330		**PLUG/STOPPER**	STAINLESS STEEL AISI 304
6340		**PLUG SUPPORT**	STAINLESS STEEL AISI 304
6344		**SEEGER RING (CIRCLIP)**	STAINLESS STEEL AISI 304
1140	**KIT B** *upper support*	**UPPER SUPPORT**	STAINLESS STEEL AISI 304
2460		**SHIM/THICKNESS**	STAINLESS STEEL AISI 316L + CERAMIC
3412		**BEARING BUSHING**	STAINLESS STEEL AISI 304
2460	**KIT C** *intermediate support*	**SHIMS/SPACERS**	STAINLESS STEEL AISI 304
3044		**SUPPORT WITH BUSHING AND DISC**	STAINLESS STEEL AISI 316L
3420		**BEARING BUSHING**	STAINLESS STEEL AISI 304
1410	**KIT D** *stage*	**COMPLETE DIFFUSER**	STAINLESS STEEL AISI 304
2250		**IMPELLER**	STAINLESS STEEL AISI 304
2250	**KIT E** *first stage*	**FIRST IMPELLER**	STAINLESS STEEL AISI 304
3044		**SUPPORT WITH BUSHING AND DISC**	STAINLESS STEEL AISI 316L
3420		**BEARING BUSHING**	STAINLESS STEEL AISI 304
6531		**STRAINER/GRID**	STAINLESS STEEL AISI 431B + STAINLESS STEEL AISI 316
2110	**KIT F** *shaft with coupling*	**SHAFT WITH COUPLING**	STAINLESS STEEL AISI 304
2910		**SCREW WITH WASHER**	STAINLESS STEEL AISI 304
2920	**KIT G** *cover cable*	**SCREWS AND CLIPS**	STAINLESS STEEL AISI 304
8361		**CABLE COVER**	STAINLESS STEEL AISI 304
1130	-	**SUCTION BODY**	STAINLESS STEEL AISI 304
1414		**SPACER PIPE**	STAINLESS STEEL AISI 304
6310		**VALVE BODY**	STAINLESS STEEL AISI 304
8210		**EXTERNAL PIPE**	STAINLESS STEEL AISI 304

6-8-10LMG line

Submersible Well Pumps



Submersible multistage centrifugal pumps for 6”, 8”, 10” wells. Check valve built into the delivery outlet. The motor bracket and coupling are made according to NEMA standards. Most common applications are civil and agricultural.

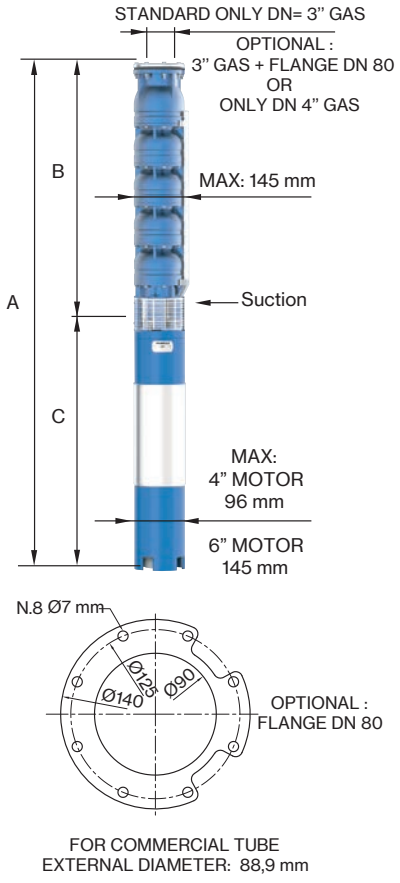
Construction features	
Suction and delivery outlet	cast iron GG25
Valve	stainless steel AISI 304
Impellers and diffusers	cast iron GG25; AISI 304 impeller on request
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304
Quantity of sand in the water	max 50 g/m³

Motor	
Asynchronous 2 pole	rewindable water cooled
Insulation class	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
Protection degree	IP68
Liquid temperature	max 30 °C (max 50 °C on request)
Depth of immersion	max 350 m

50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	500	600	700	800
	P2		CURRENT	l/sec	0	5,00	6,67	8,33	10,00	11,67	13,33
	HP	kW	A	m³/h	0	18	24	30	36	42	48
6LMG 38/03	5,5	4	9,9	H (m)	43	36	33	30	27	22	15
6LMG 38/04	7,5	5,5	13,8		57	48	44	40	37	30	20
6LMG 38/05	10	7,5	17,5		71	60	55	50	46	37	25
6LMG 38/06	10	7,5	17,5		86	72	66	60	55	45	30
6LMG 38/07	12,5	9,2	21		100	84	77	70	64	52	35
6LMG 38/08	15	11	24,5		114	96	88	80	73	59	40
6LMG 38/09	15	11	24,5		129	108	99	90	82	67	45
6LMG 38/10	17,5	13	28		143	120	110	100	91	74	50
6LMG 38/11	17,5	13	28		157	132	121	110	101	82	55
6LMG 38/12	20	15	32		171	144	132	120	110	89	60
6LMG 38/13	20	15	32		186	156	143	130	119	97	65
6LMG 38/14	25	18,5	40		200	168	154	140	128	104	70
6LMG 38/15	25	18,5	40		214	180	165	150	137	111	75

Max Eff. %	74
Max kW / St.	1,22

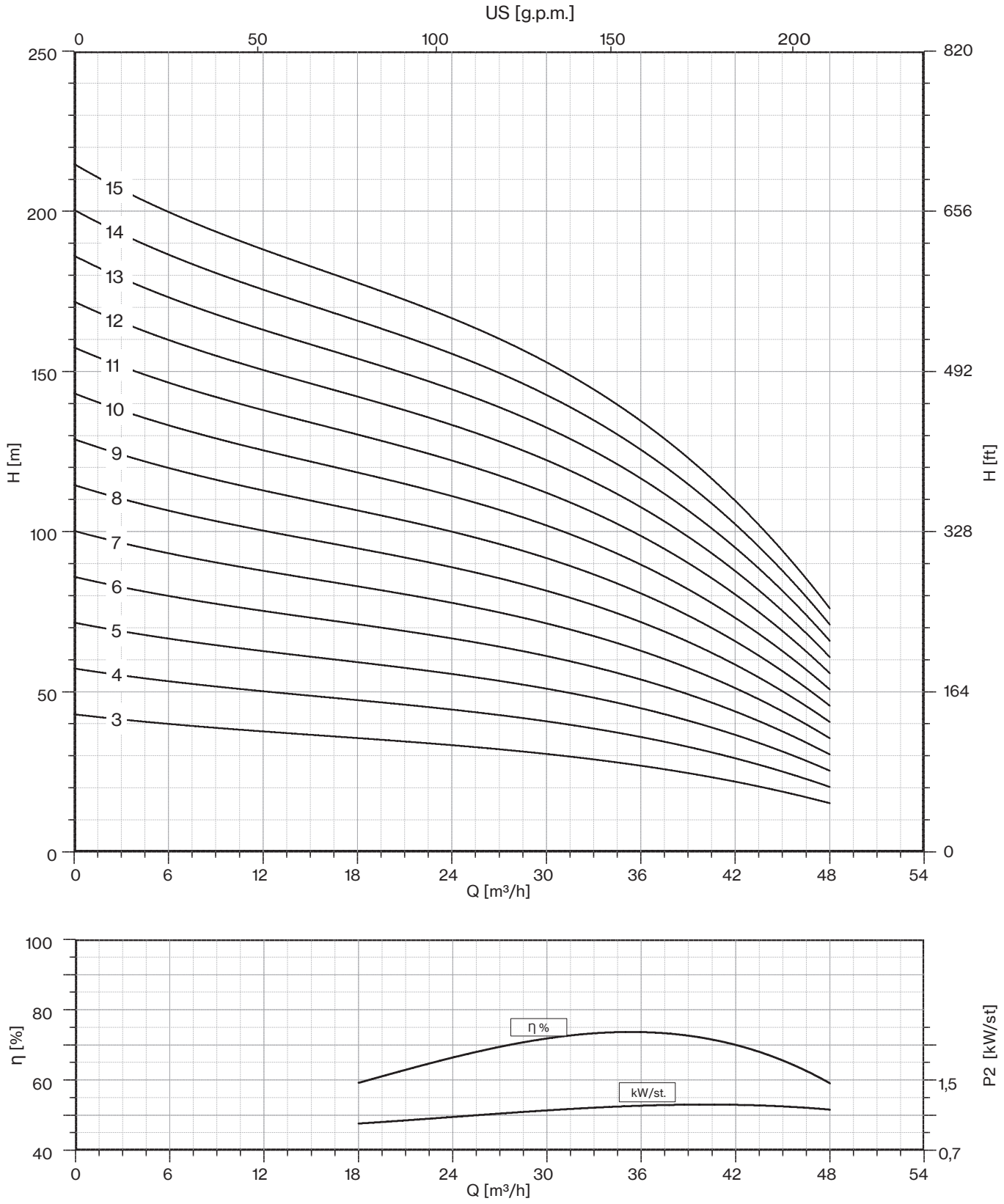
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,8	8



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 38/03-4	4" NEMA	1064	596	468	15,3	19
6LMG 38/04-4		1235	697	538	18,6	23
6LMG 38/05	6" NEMA	1499	798	701	55	28
6LMG 38/06		1600	899	701	55	32
6LMG 38/07		1751	1000	751	60	36
6LMG 38/08		1912	1101	811	65	40
6LMG 38/09		2013	1202	811	65	44
6LMG 38/10		2144	1303	841	70	48
6LMG 38/11		2245	1404	841	70	52
6LMG 38/12		2436	1505	931	75	56
6LMG 38/13		2537	1606	931	75	60
6LMG 38/14		2698	1707	991	83	64
6LMG 38/15		2799	1808	991	83	69

6LMG 38

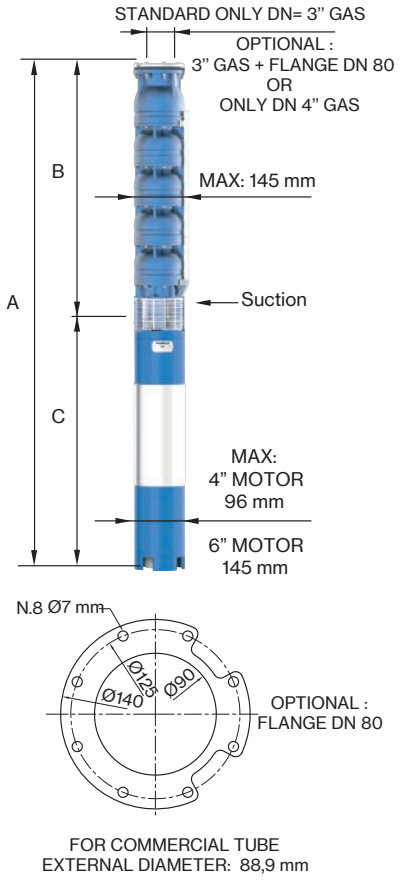


Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	500	600	700	800
	P2		CURRENT	l/sec	0	5,00	6,67	8,33	10,00	11,67	13,33
	HP	kW	A	m³/h	0	18	24	30	36	42	48
6LMG 38/16	30	22	47,5	H (m)	229	192	176	160	146	119	80
6LMG 38/17	30	22	47,5		243	204	187	170	155	126	85
6LMG 38/18	30	22	47,5		257	216	198	180	165	134	90
6LMG 38/19	35	26	55		271	228	209	190	174	141	95
6LMG 38/20	35	26	55		286	240	220	200	183	149	100
6LMG 38/21	35	26	55		300	252	231	210	192	156	105
6LMG 38/22	35	26	55		314	264	242	220	201	163	110
6LMG 38/23	40	30	62,5		329	276	253	230	210	171	115
6LMG 38/24	40	30	62,5		343	288	264	240	219	178	120
6LMG 38/25	40	30	62,5		357	300	275	250	229	186	125
6LMG 38/26	50	37	78		371	312	286	260	238	193	130
6LMG 38/27	50	37	78		386	324	297	270	247	201	135
6LMG 38/28	50	37	78		400	336	308	280	256	208	140
6LMG 38/29	50	37	78		414	348	319	290	265	215	145
6LMG 38/30	50	37	78		429	360	330	300	274	223	150

Max Eff. %	74
Max kW / St.	1,22

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,8	8

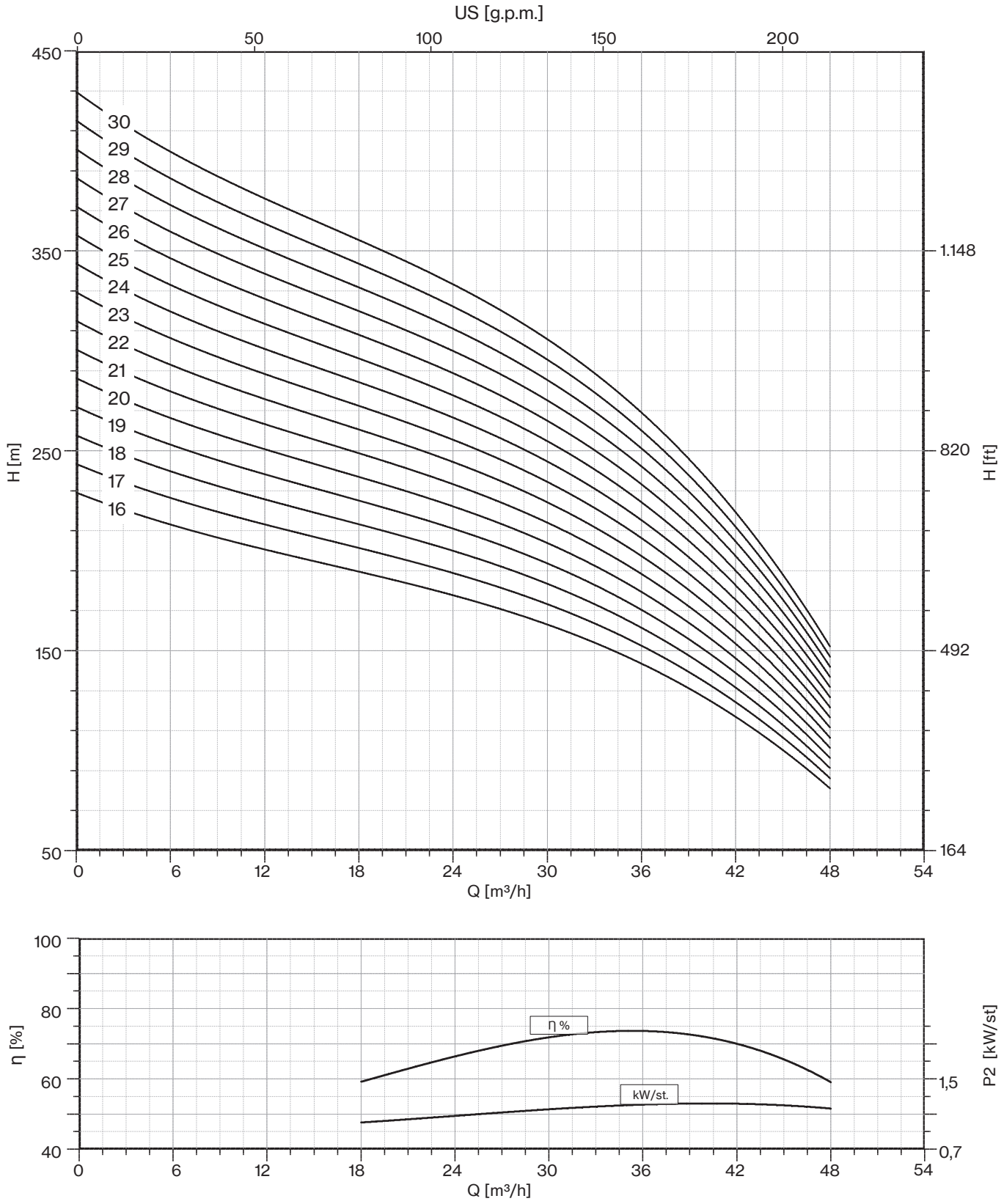


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 38/16	6" NEMA	2980	1909	1071	92	73
6LMG 38/17		3081	2010	1071	92	77
6LMG 38/18		3182	2111	1071	92	81
6LMG 38/19		3393	2212	1181	100	85
6LMG 38/20		3494	2313	1181	100	89
6LMG 38/21		3595	2414	1181	100	93
6LMG 38/22		3696	2515	1181	100	97
6LMG 38/23		3867	2616	1251	108	101
6LMG 38/24		3968	2717	1251	108	105
6LMG 38/25		4069	2818	1251	108	110
6LMG 38/26		4260	2919	1341	118	114
6LMG 38/27		4361	3020	1341	118	118
6LMG 38/28		4462	3121	1341	118	122
6LMG 38/29		4563	3222	1341	118	126
6LMG 38/30		4664	3323	1341	118	130

Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

6LMG 38

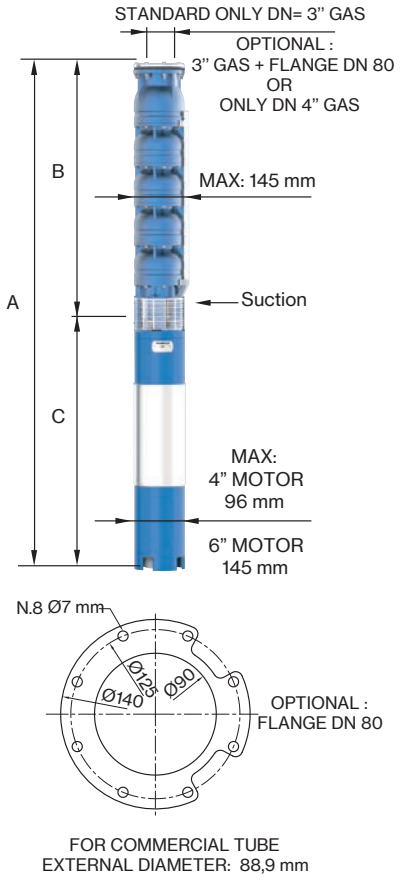


Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	400	500	600	700	800	900	1000
	P2		CURRENT	l/sec	0	6,67	8,33	10,00	11,67	13,33	15,00	16,67
	HP	kW	A	m³/h	0	24	30	36	42	48	54	60
6LMG 48/03	5,5	4	9,9		40	32	31	29	26	22	17	10
6LMG 48/04	7,5	5,5	13,8		53	43	41	38	34	29	22	13
6LMG 48/05	10	7,5	17,5		67	53	51	48	43	36	28	17
6LMG 48/06	12,5	9,2	21		80	64	61	57	51	43	33	20
6LMG 48/07	12,5	9,2	21		93	75	71	67	60	50	39	23
6LMG 48/08	15	11	24,5		107	85	81	76	68	57	44	27
6LMG 48/09	17,5	13	28	H (m)	120	96	92	86	77	65	50	30
6LMG 48/10	17,5	13	28		133	107	102	95	85	72	55	33
6LMG 48/11	20	15	32		147	117	112	105	94	79	61	37
6LMG 48/12	20	15	32		160	128	122	114	102	86	66	40
6LMG 48/13	25	18,5	40		173	139	132	124	111	93	72	43
6LMG 48/14	25	18,5	40		187	149	142	133	119	100	77	47
6LMG 48/15	30	22	47,5		200	160	153	143	128	108	83	50

Max Eff. %	74
Max kW / St.	1,32

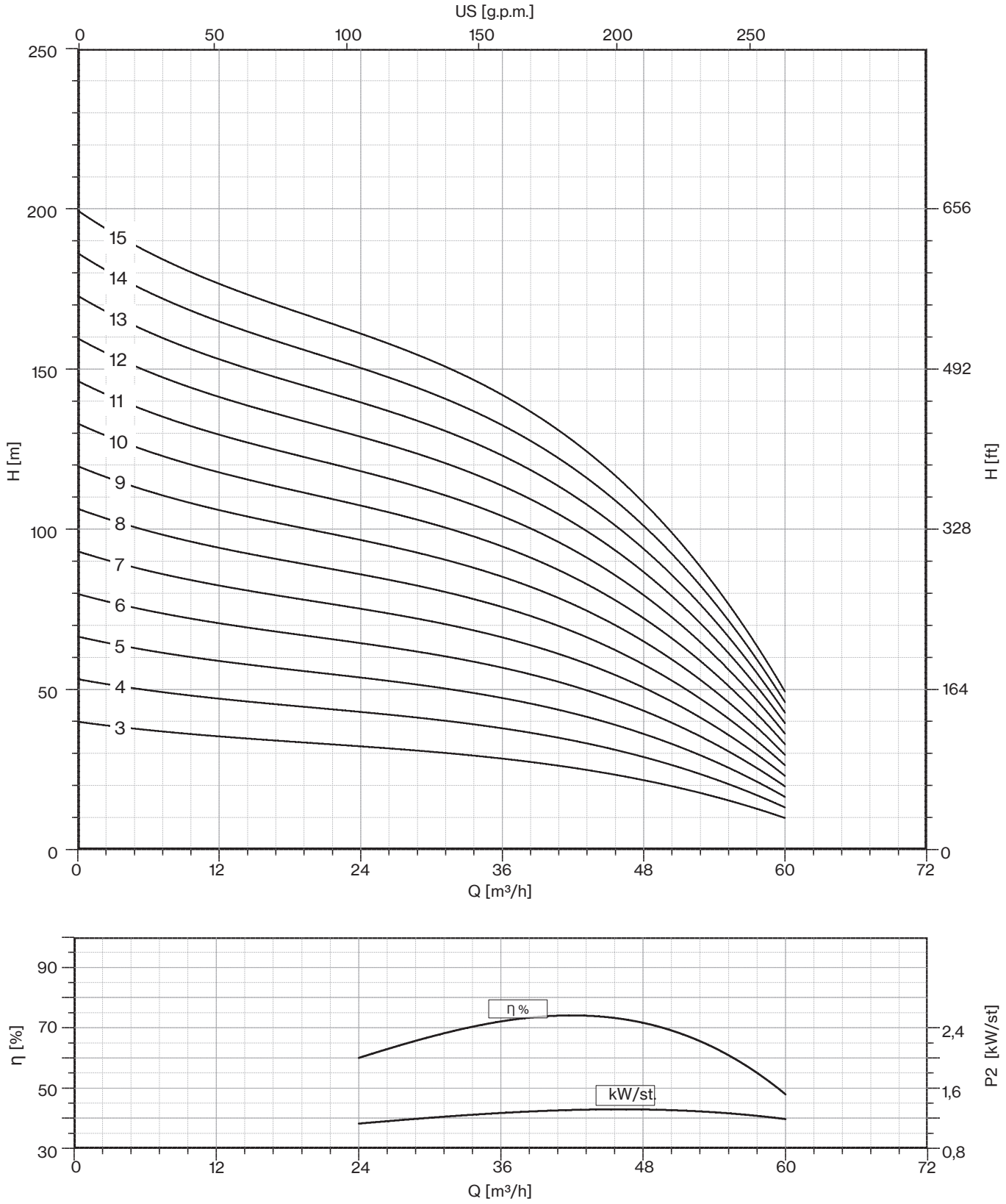
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,45	3,5	3,8	5



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 48/03-4	4" NEMA	1064	596	468	15,3	19
6LMG 48/04-4		1235	697	538	18,6	23
6LMG 48/05	6" NEMA	1499	798	701	55	28
6LMG 48/06		1650	899	751	60	32
6LMG 48/07		1751	1000	751	60	36
6LMG 48/08		1912	1101	811	65	40
6LMG 48/09		2043	1202	841	70	44
6LMG 48/10		2144	1303	841	70	48
6LMG 48/11		2335	1404	931	75	52
6LMG 48/12		2436	1505	931	75	56
6LMG 48/13		2597	1606	991	83	60
6LMG 48/14		2698	1707	991	83	64
6LMG 48/15		2879	1808	1071	92	69

6LMG 48



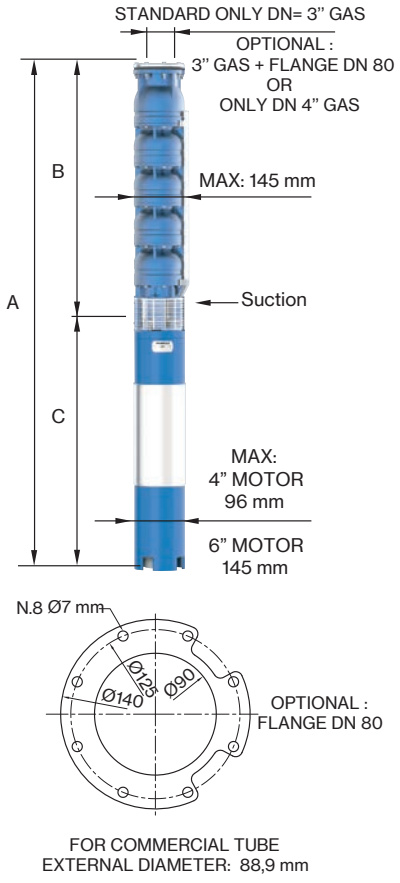
Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

6LMG 48

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	400	500	600	700	800	900	1000
	P2		CURRENT	l/sec	0	6,67	8,33	10,00	11,67	13,33	15,00	16,67
	HP	kW	A	m³/h	0	24	30	36	42	48	54	60
6LMG 48/16	30	22	47,5		213	171	163	152	136	115	88	53
6LMG 48/17	30	22	47,5		227	181	173	162	145	122	94	57
6LMG 48/18	35	26	55		240	192	183	171	153	129	99	60
6LMG 48/19	35	26	55		253	203	193	181	162	136	105	63
6LMG 48/20	35	26	55		267	213	203	190	170	143	110	67
6LMG 48/21	40	30	62,5		280	224	214	200	179	151	116	70
6LMG 48/22	40	30	62,5	H (m)	293	235	224	209	187	158	121	73
6LMG 48/23	40	30	62,5		307	245	234	219	196	165	127	77
6LMG 48/24	50	37	78		320	256	244	228	204	172	132	80
6LMG 48/25	50	37	78		333	267	254	238	213	179	138	83
6LMG 48/26	50	37	78		347	277	264	247	221	186	143	87
6LMG 48/27	50	37	78		360	288	275	257	230	194	149	90
6LMG 48/28	50	37	78		373	299	285	266	238	201	154	93

Max Eff. %	74
Max kW / St.	1,32

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,45	3,5	3,8	5

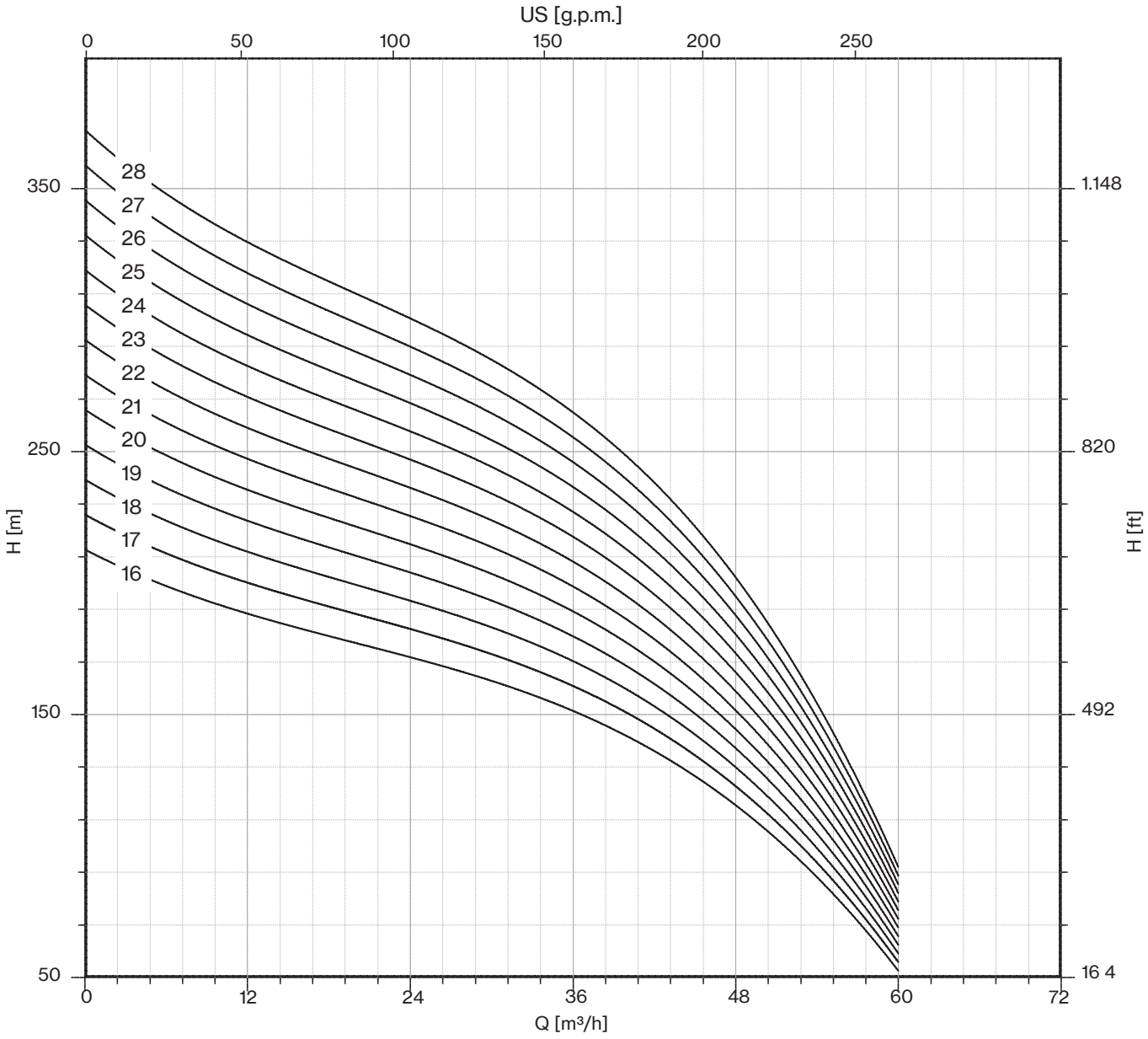


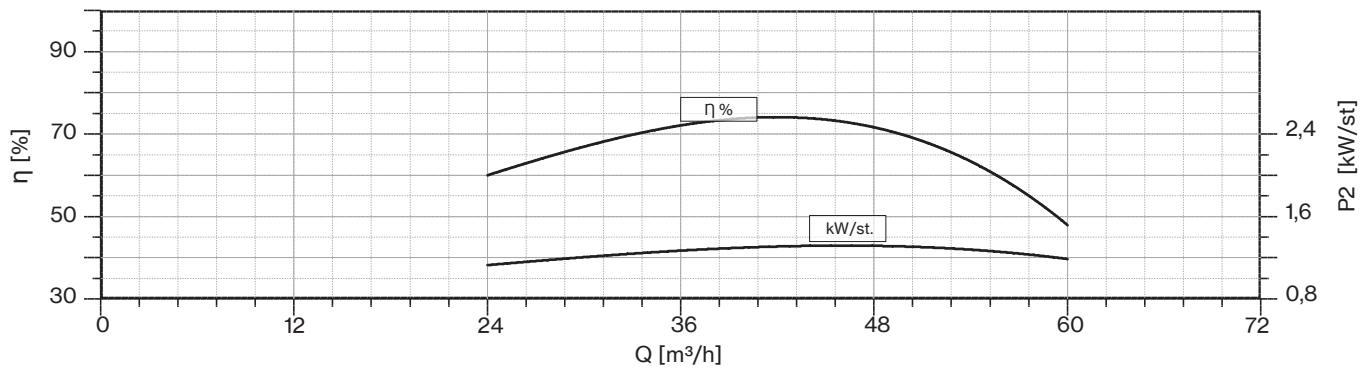
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 48/16		2980	1909	1071	92	73
6LMG 48/17		3081	2010	1071	92	77
6LMG 48/18		3292	2111	1181	100	81
6LMG 48/19		3393	2212	1181	100	85
6LMG 48/20		3494	2313	1181	100	89
6LMG 48/21		3665	2414	1251	108	93
6LMG 48/22	6" NEMA	3766	2515	1251	108	97
6LMG 48/23		3867	2616	1251	108	101
6LMG 48/24		4058	2717	1341	118	105
6LMG 48/25		4159	2818	1341	118	110
6LMG 48/26		4260	2919	1341	118	114
6LMG 48/27		4361	3020	1341	118	118
6LMG 48/28		4462	3121	1341	118	122

Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

6LMG 48



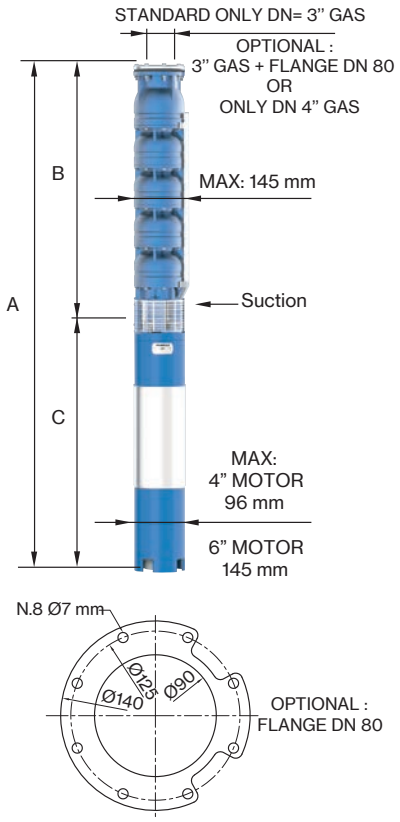


Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q					
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	500	600	800	1000	1200
	P2		CURRENT	l/sec	0	8,33	10,00	13,33	16,67	20,00
	HP	kW	A	m³/h	0	30	36	48	60	72
6LMG 60/03	7,5	5,5	13,8		39	30	28	24	18	8
6LMG 60/04	10	7,5	17,5		52	40	38	32	24	10
6LMG 60/05	10	7,5	17,5		65	50	47	40	30	13
6LMG 60/06	12,5	9,2	21		78	60	56	48	35	16
6LMG 60/07	15	11	24,5		91	70	66	56	41	18
6LMG 60/08	17,5	13	28		104	80	75	64	47	21
6LMG 60/09	17,5	13	28		117	90	85	72	53	23
6LMG 60/10	20	15	32		130	100	94	80	59	26
6LMG 60/11	25	18,5	40		143	110	103	87	65	29
6LMG 60/12	25	18,5	40		156	120	113	95	71	31
6LMG 60/13	25	18,5	40		169	130	122	103	77	34
6LMG 60/14	30	22	47,5	H	182	140	132	111	83	36
6LMG 60/15	30	22	47,5	(m)	195	150	141	119	89	39
6LMG 60/16	35	26	55		208	160	150	127	94	42
6LMG 60/17	35	26	55		221	170	160	135	100	44
6LMG 60/18	35	26	55		234	180	169	143	106	47
6LMG 60/19	40	30	62,5		247	190	179	151	112	49
6LMG 60/20	40	30	62,5		260	200	188	159	118	52
6LMG 60/21	40	30	62,5		273	210	197	167	124	55
6LMG 60/22	50	37	78		286	220	207	175	130	57
6LMG 60/23	50	37	78		299	230	216	183	136	60
6LMG 60/24	50	37	78		312	240	226	191	142	62
6LMG 60/25	50	37	78		325	250	235	199	148	65

Max Eff. %	73,6
Max kW / St.	1,44

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

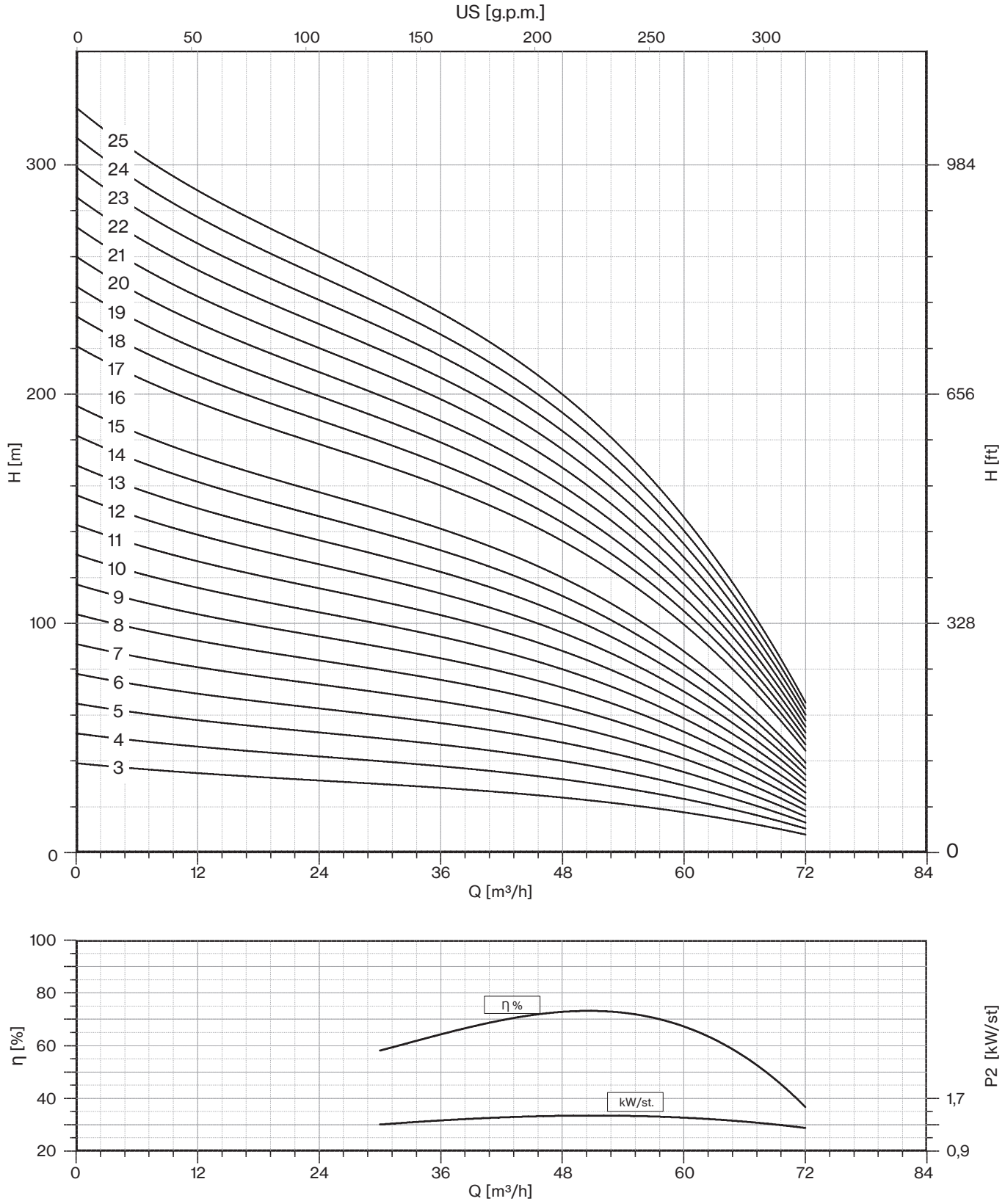


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 60/03-4	4" NEMA	1152	614	538	18,6	21
6LMG 60/04	6" NEMA	1422	721	701	55	25
6LMG 60/05		1529	828	701	55	30
6LMG 60/06		1686	935	751	60	34
6LMG 60/07		1853	1042	811	65	39
6LMG 60/08		1990	1149	841	70	43
6LMG 60/09		2097	1256	841	70	48
6LMG 60/10		2294	1363	931	75	52
6LMG 60/11		2461	1470	991	83	57
6LMG 60/12		2568	1577	991	83	61
6LMG 60/13		2675	1684	991	83	66
6LMG 60/14		2862	1791	1071	92	70
6LMG 60/15		2969	1898	1071	92	75
6LMG 60/16		3186	2005	1181	100	79
6LMG 60/17		3293	2112	1181	100	84
6LMG 60/18		3400	2219	1181	100	88
6LMG 60/19		3577	2326	1251	108	93
6LMG 60/20		3684	2433	1251	108	97
6LMG 60/21		3791	2540	1251	108	102
6LMG 60/22		3988	2647	1341	118	106
6LMG 60/23		4095	2754	1341	118	111
6LMG 60/24		4202	2861	1341	118	115
6LMG 60/25		4309	2968	1341	118	120

Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

6LMG 60

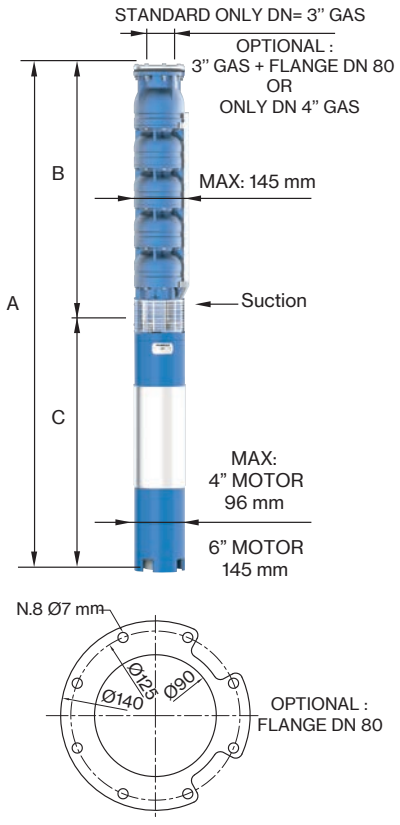


Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q					
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	800	1000	1200	1400
	P2		CURRENT	l/sec	0	10,00	13,33	16,67	20,00	23,33
	HP	kW	A	m³/h	0	36	48	60	72	84
6LMG 70/03	7,5	5,5	13,8		39	29	26	23	17	6
6LMG 70/04	10	7,5	17,5		52	39	35	31	23	8
6LMG 70/05	12,5	9,2	21		65	49	44	39	29	10
6LMG 70/06	15	11	24,5		78	59	53	47	34	12
6LMG 70/07	17,5	13	28		91	69	62	55	40	14
6LMG 70/08	20	15	32		104	78	70	62	46	16
6LMG 70/09	20	15	32		117	88	79	70	51	18
6LMG 70/10	25	18,5	40		130	98	88	78	57	20
6LMG 70/11	30	22	47,5		143	108	97	86	63	22
6LMG 70/12	30	22	47,5	H (m)	156	118	106	94	68	24
6LMG 70/13	30	22	47,5		169	127	114	101	74	26
6LMG 70/14	35	26	55		182	137	123	109	80	28
6LMG 70/15	35	26	55		195	147	132	117	86	30
6LMG 70/16	40	30	62,5		208	157	141	125	91	32
6LMG 70/17	40	30	62,5		221	167	150	133	97	34
6LMG 70/18	50	37	78		234	176	158	140	103	36
6LMG 70/19	50	37	78		247	186	167	148	108	38
6LMG 70/20	50	37	78		260	196	176	156	114	40
6LMG 70/21	50	37	78		273	206	185	164	120	42

Max Eff. %	74
Max kW / St.	1,74

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

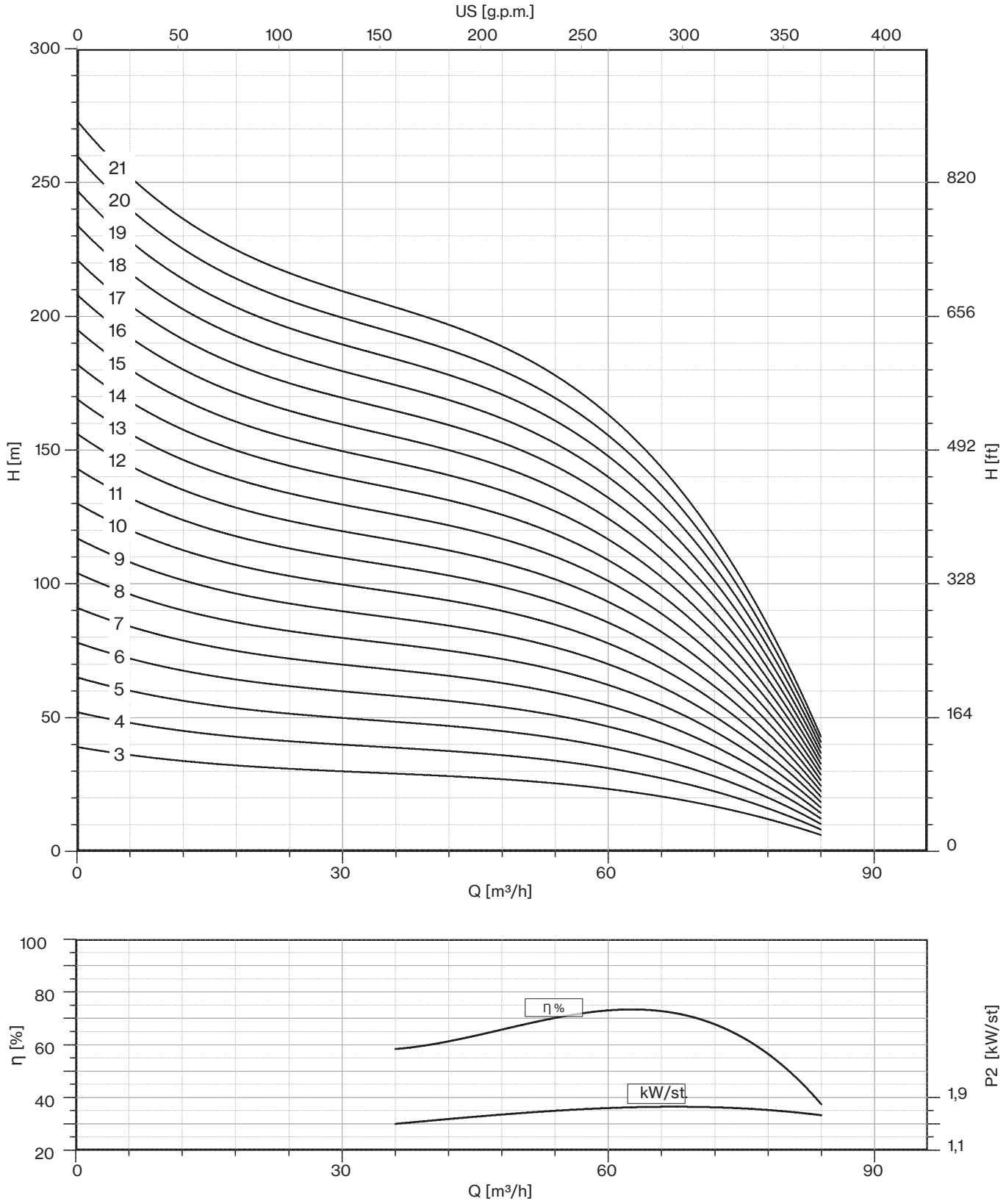


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LMG 70/03-4	4" NEMA	1152	614	538	18,6	21
6LMG 70/04	6" NEMA	1422	721	701	55	25
6LMG 70/05		1579	828	751	60	30
6LMG 70/06		1746	935	811	65	34
6LMG 70/07		1883	1042	841	70	39
6LMG 70/08		2080	1149	931	75	43
6LMG 70/09		2187	1256	931	75	48
6LMG 70/10		2354	1363	991	83	52
6LMG 70/11		2541	1470	1071	92	57
6LMG 70/12		2648	1577	1071	92	61
6LMG 70/13		2755	1684	1071	92	66
6LMG 70/14		2972	1791	1181	100	70
6LMG 70/15		3079	1898	1181	100	75
6LMG 70/16		3256	2005	1251	108	79
6LMG 70/17		3363	2112	1251	108	84
6LMG 70/18		3560	2219	1341	118	88
6LMG 70/19		3667	2326	1341	118	93
6LMG 70/20		3774	2433	1341	118	97
6LMG 70/21		3881	2540	1341	118	102

Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

6LMG 70

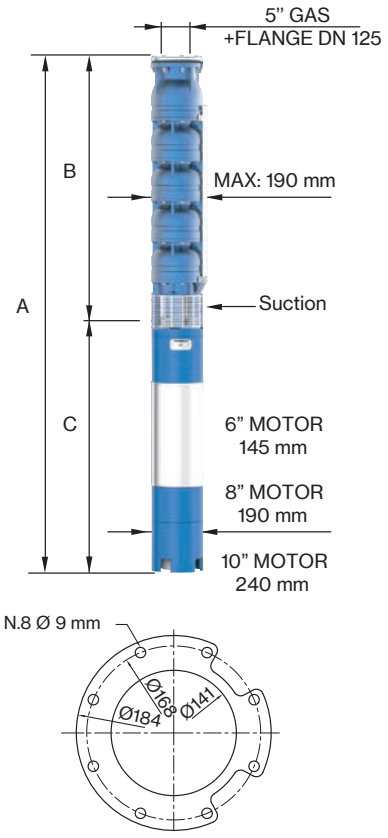


Sand tolerance 50 g/m³
MEI ≥ 0,4 (regulation EU N. 547/2012)
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	800	1000	1200	1400	1600
	P2		CURRENT	l/sec	0	10,00	13,33	16,67	20,00	23,33	26,67
	HP	kW	A	m³/h	0	36	48	60	72	84	96
8LMG 80/01	7,5	5,5	12,5	H (m)	26	22	21	19	18	15	11
8LMG 80/02	15	11	24,5		53	45	42	39	35	30	23
8LMG 80/03	20	15	32		79	67	63	58	53	44	34
8LMG 80/04	30	22	47,5		105	89	84	78	70	59	45
8LMG 80/05	35	26	55		131	111	105	97	88	74	56
8LMG 80/06	40	30	62,5		158	134	126	116	105	89	68
8LMG 80/07	50	37	78		184	156	147	136	123	103	79
8LMG 80/08	60	45	92		210	178	168	155	140	118	90
8LMG 80/09	60	45	92		236	200	189	174	158	133	101
8LMG 80/10	75	55	113,5		263	223	210	194	175	148	113
8LMG 80/11	75	55	113,5		289	245	231	213	193	162	124
8LMG 80/12	90	66	134,5		315	267	252	233	210	177	135
8LMG 80/13	90	66	134,5		341	289	273	252	228	192	146
8LMG 80/14	100	75	149,5		368	312	294	271	245	207	158
8LMG 80/15	100	75	149,5		394	334	315	291	263	221	169

Max Eff. %	70
Max kW / St.	5,1

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	3,5	4,5

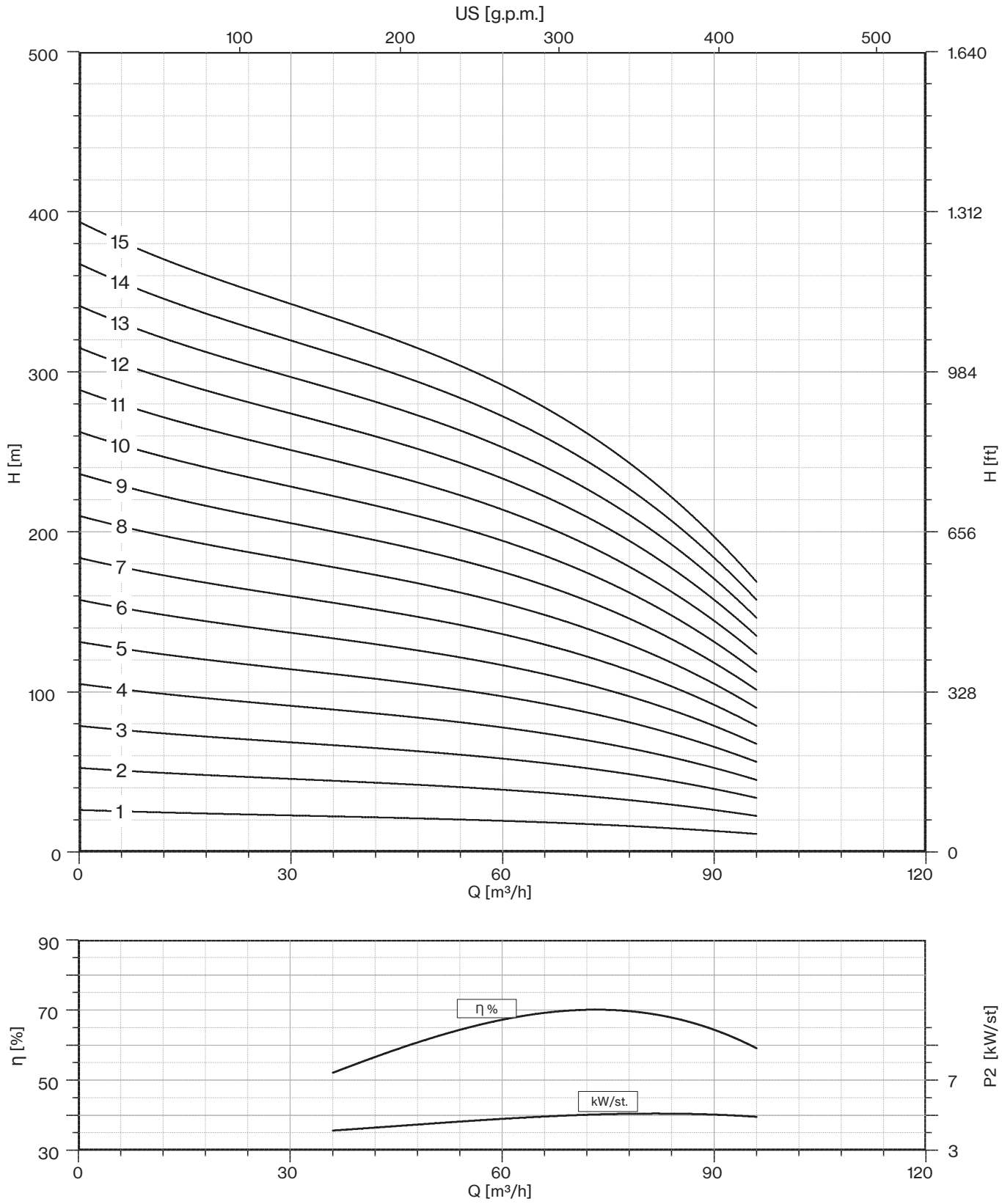


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LMG 80/01-6	6" NEMA	1198	527	671	45	23
8LMG 80/02-6		1463	652	811	65	31
8LMG 80/03-6		1708	777	931	75	39
8LMG 80/04-6		1973	902	1071	92	48
8LMG 80/05-6		2208	1027	1181	100	56
8LMG 80/06-6		2403	1152	1251	108	64
8LMG 80/07-6		2618	1277	1341	118	73
8LMG 80/08	8" NEMA	2525	1402	1123	178	81
8LMG 80/09		2650	1527	1123	178	89
8LMG 80/10		2885	1652	1233	200	98
8LMG 80/11		3010	1777	1233	200	106
8LMG 80/12		3205	1902	1303	214	114
8LMG 80/13		3330	2027	1303	214	122
8LMG 80/14		3535	2152	1383	230	131
8LMG 80/15		3660	2277	1383	230	139

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

8LMG 80

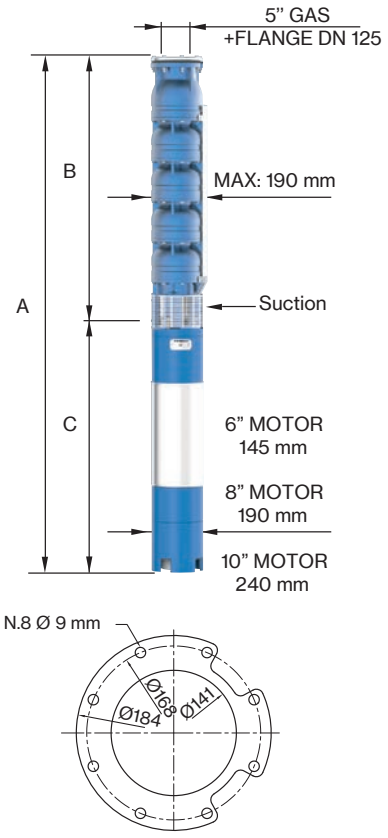


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	800	1000	1200	1400	1600	1800	2000
	P2		CURRENT	l/sec	0	13,33	16,67	20,00	23,33	26,67	30,00	33,33
	HP	kW	A	m³/h	0	48	60	72	84	96	108	120
8LMG 92/01	10	7,5	17,5	H (m)	26	22	21	20	18	15	13	10
8LMG 92/02	17,5	13	28		53	44	42	39	35	31	25	20
8LMG 92/03	25	18,5	40		79	66	63	59	53	46	38	29
8LMG 92/04	35	26	55		105	89	84	78	70	61	50	39
8LMG 92/05	40	30	62,5		131	111	104	98	88	76	63	49
8LMG 92/06	50	37	78		158	133	125	117	105	92	75	59
8LMG 92/07	60	45	92		184	155	146	137	123	107	88	68
8LMG 92/08	75	55	113,5		210	177	167	156	140	122	100	78
8LMG 92/09	75	55	113,5		236	199	188	176	158	137	113	88
8LMG 92/10	90	66	134,5		263	221	209	195	175	153	125	98
8LMG 92/11	90	66	134,5		289	243	230	215	193	168	138	107
8LMG 92/12	100	75	149,5		315	266	251	234	210	183	150	117
8LMG 92/13	100	75	149,5		341	288	271	254	228	198	163	127
8LMG 92/14	125	92	185		368	310	292	273	245	214	175	137
8LMG 92/15	125	92	185		394	332	313	293	263	229	188	146

Max Eff. %	70
Max kW / St.	5,9

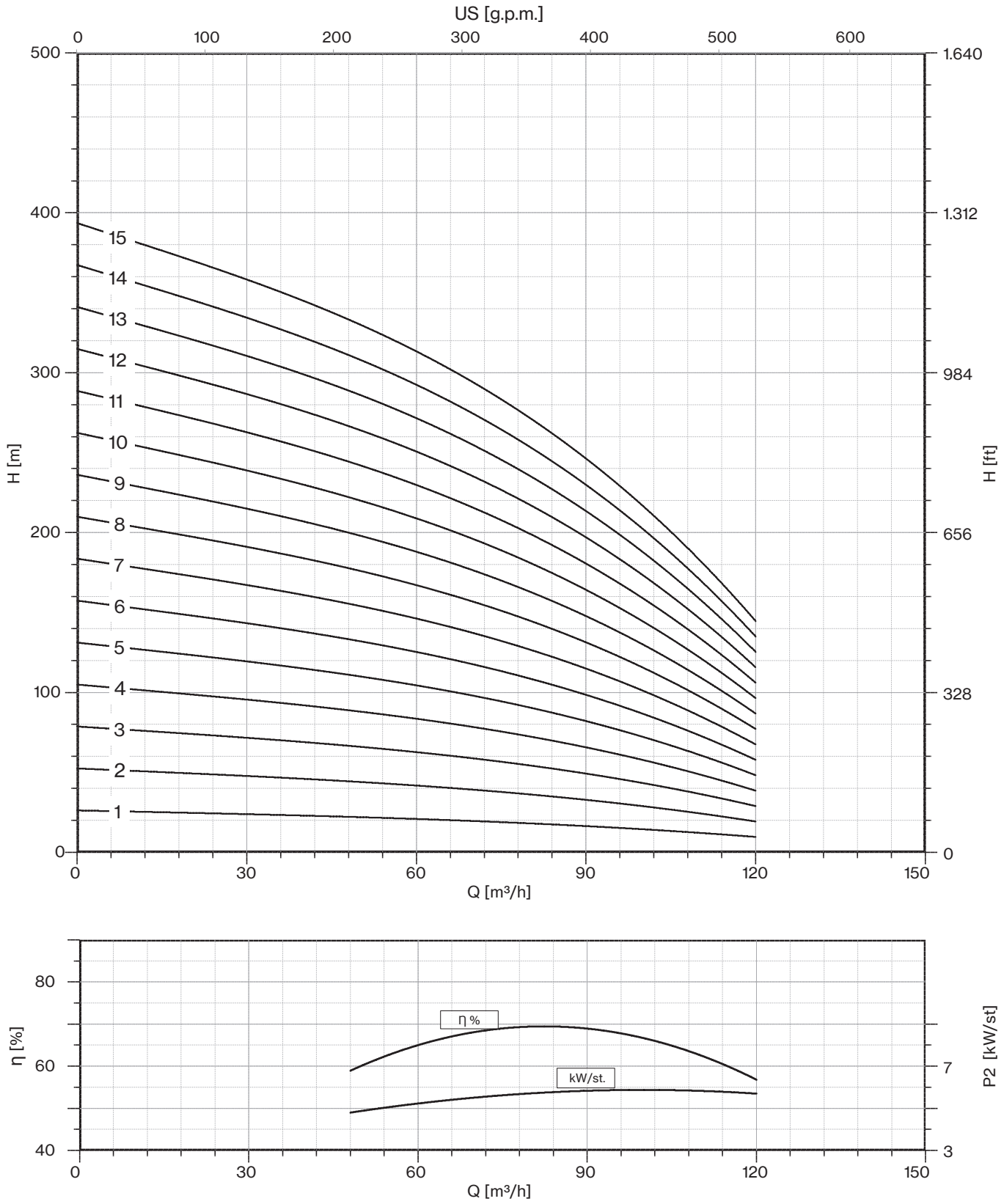
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	4	5	8



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LMG 92/01-6	6" NEMA	1228	527	701	55	23
8LMG 92/02-6		1493	652	841	70	31
8LMG 92/03-6		1768	777	991	83	39
8LMG 92/04-6		2083	902	1181	100	48
8LMG 92/05-6		2278	1027	1251	108	56
8LMG 92/06-6		2493	1152	1341	118	64
8LMG 92/07	8" NEMA	2400	1277	1123	178	73
8LMG 92/08		2635	1402	1233	200	81
8LMG 92/09		2760	1527	1233	200	89
8LMG 92/10		2955	1652	1303	214	98
8LMG 92/11		3080	1777	1303	214	106
8LMG 92/12		3285	1902	1383	230	114
8LMG 92/13		3410	2027	1383	230	122
8LMG 92/14		3735	2152	1583	270	131
8LMG 92/15		3860	2277	1583	270	139

8LMG 92

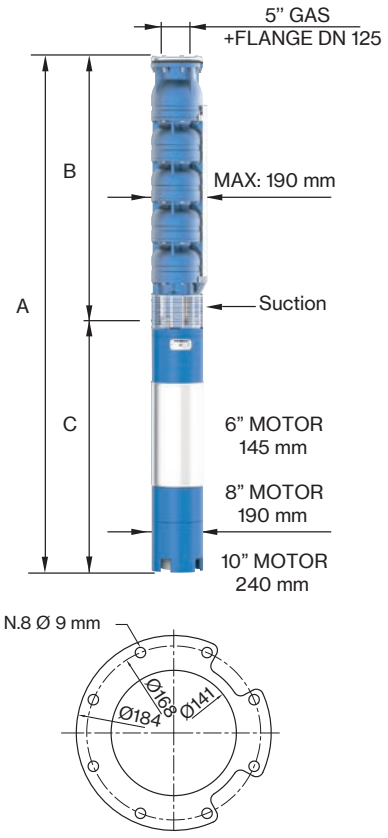


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1000	1200	1400	1600	1800	2000	2200	2400
	P2		CURRENT	l/sec	0	16,67	20,00	23,33	26,67	30,00	33,33	36,67	40,00
	HP	kW	A	m³/h	0	60	72	84	96	108	120	132	144
8LMG 110/01	10	7,5	17,5	H (m)	26	22	21	20	19	18	16	14	11
8LMG 110/02	20	15	32		53	44	42	40	38	35	32	28	22
8LMG 110/03	30	22	47,5		79	66	63	60	57	53	48	42	33
8LMG 110/04	40	30	62,5		105	87	84	80	76	71	65	55	45
8LMG 110/05	50	37	78		131	109	105	100	95	89	81	69	56
8LMG 110/06	60	45	92		158	131	126	120	114	106	97	83	67
8LMG 110/07	75	55	113,5		184	153	147	140	133	124	113	97	78
8LMG 110/08	90	66	134,5		210	175	168	160	152	142	129	111	89
8LMG 110/09	90	66	134,5		237	197	189	180	171	159	145	125	100
8LMG 110/10	100	75	149,5		263	219	210	200	190	177	161	139	111
8LMG 110/11	125	92	185		289	240	231	220	209	195	178	152	123
8LMG 110/12	125	92	185		315	262	252	240	228	213	194	166	134
8LMG 110/13	125	92	185		342	284	273	260	247	230	210	180	145

Max Eff. %	74
Max kW / St.	7,3

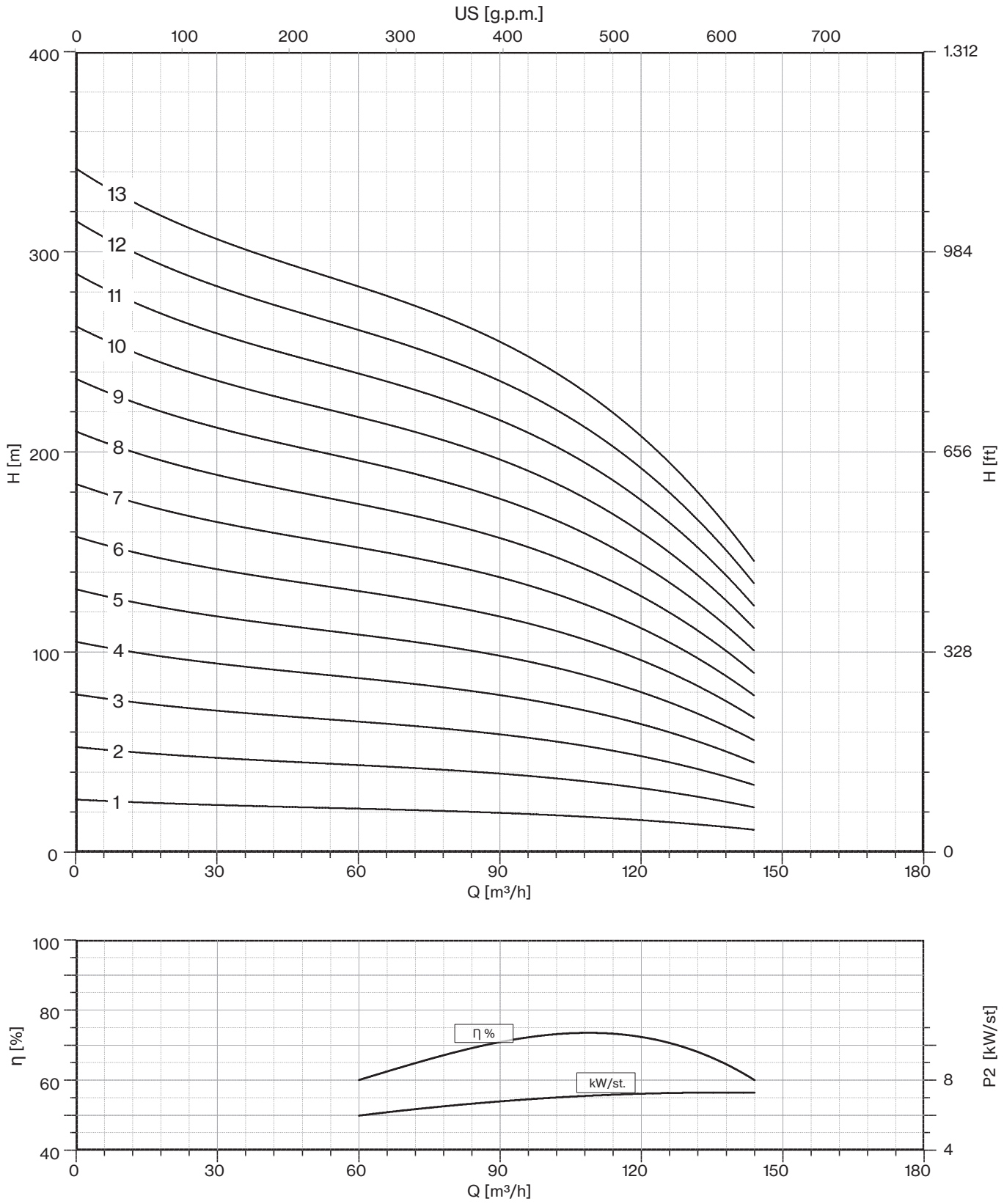
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3,5	4,5	8



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LMG 110/01-6	6" NEMA	1228	527	701	55	23
8LMG 110/02-6		1583	652	931	75	32
8LMG 110/03-6		1848	777	1071	92	40
8LMG 110/04-6		2153	902	1251	108	49
8LMG 110/05-6		2368	1027	1341	118	58
8LMG 110/06	8" NEMA	2275	1152	1123	178	66
8LMG 110/07		2510	1277	1233	200	75
8LMG 110/08		2705	1402	1303	214	83
8LMG 110/09		2830	1527	1303	214	92
8LMG 110/10		3035	1652	1383	230	101
8LMG 110/11		3360	1777	1583	270	109
8LMG 110/12		3485	1902	1583	270	118
8LMG 110/13		3610	2027	1583	270	126

8LMG 110

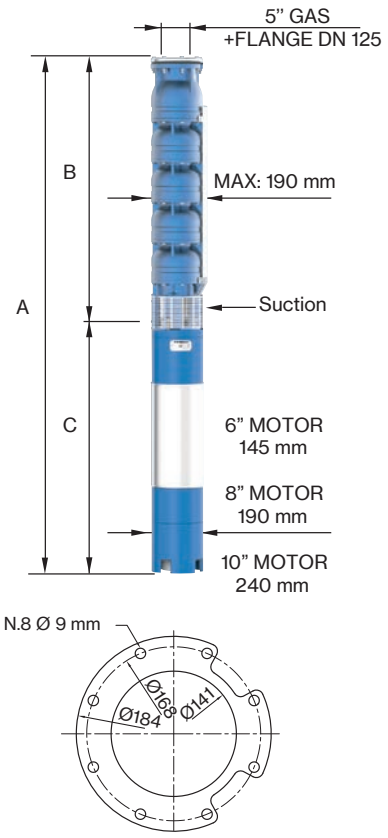


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q									
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1200	1400	1600	1800	2000	2200	2400	2600	2800
	P2		CURRENT	l/sec	0	20,00	23,33	26,67	30,00	33,33	36,67	40,00	43,33	46,67
	HP	kW	A	m³/h	0	72	84	96	108	120	132	144	156	168
8LMG 130/01	10	7,5	17,5		26	21	20	19	18	17	15	13	11	8
8LMG 130/02	20	15	32		53	42	41	38	36	34	31	27	21	15
8LMG 130/03	35	26	55		79	63	61	57	54	51	46	40	32	23
8LMG 130/04	40	30	62,5		106	85	81	77	73	67	62	54	43	30
8LMG 130/05	60	45	92		132	106	101	96	91	84	77	67	54	38
8LMG 130/06	75	55	113,5		159	127	122	115	109	101	93	81	64	45
8LMG 130/07	75	55	113,5	H	185	148	142	134	127	118	108	94	75	53
8LMG 130/08	90	66	134,5	(m)	211	169	162	153	145	135	123	107	86	61
8LMG 130/09	100	75	149,5		238	190	183	172	163	152	139	121	96	68
8LMG 130/10	100	75	149,5		264	211	203	191	181	169	154	134	107	76
8LMG 130/11	125	92	185		291	233	223	211	200	185	170	148	118	83
8LMG 130/12	125	92	185		317	254	243	230	218	202	185	161	129	91
8LMG 130/13	150	110	219		344	275	264	249	236	219	201	175	139	98
8LMG 130/14	150	110	220		370	296	284	268	254	236	216	188	150	106

Max Eff. %	75
Max kW / St.	7,7

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3	5	9

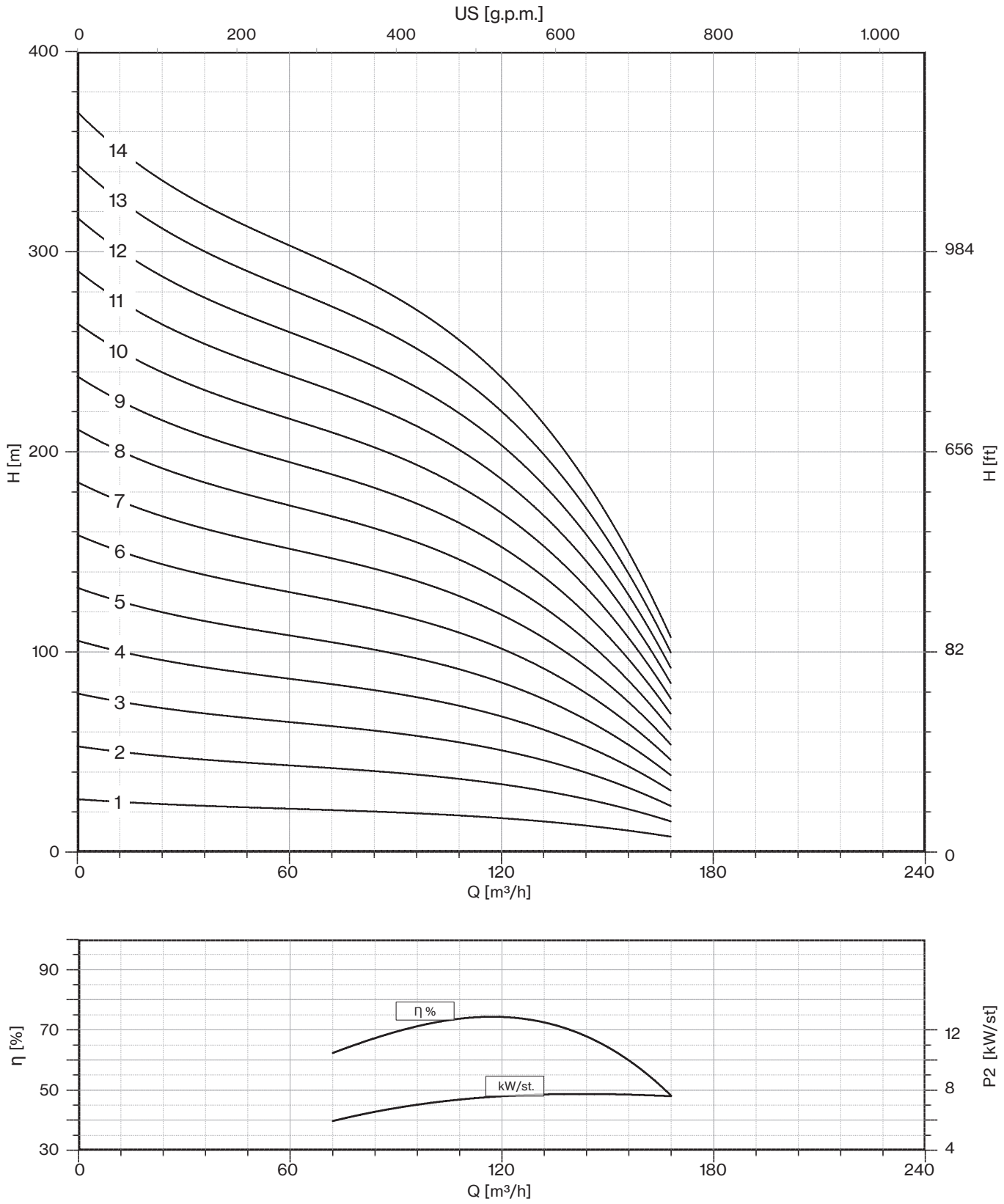


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LMG 130/01-6	6" NEMA	1228	527	701	55	23
8LMG 130/02-6		1583	652	931	75	32
8LMG 130/03-6		1958	777	1181	100	41
8LMG 130/04-6		2153	902	1251	108	49
8LMG 130/05	8" NEMA	2150	1027	1123	178	58
8LMG 130/06		2385	1152	1233	200	67
8LMG 130/07		2510	1277	1233	200	75
8LMG 130/08		2705	1402	1303	214	84
8LMG 130/09		2910	1527	1383	230	93
8LMG 130/10		3035	1652	1383	230	102
8LMG 130/11		3360	1777	1583	270	110
8LMG 130/12		3485	1902	1583	270	119
8LMG 130/13		3760	2027	1733	300	128
8LMG 130/14		3885	2152	1733	300	136

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

8LMG 130

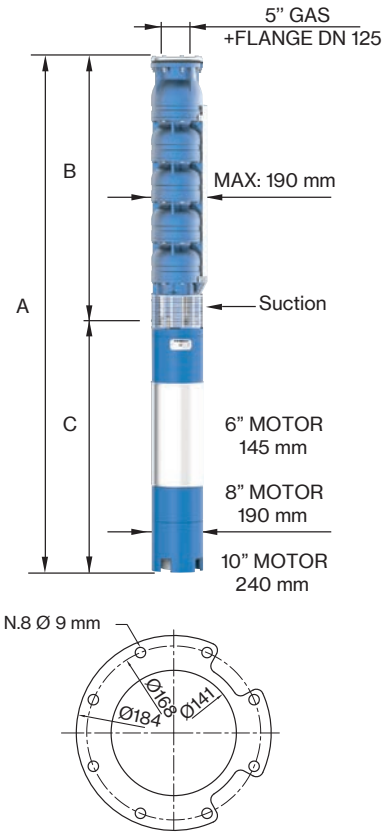


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q									
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1600	1800	2000	2200	2400	2600	2800	3000	3200
	P2		CURRENT	l/sec	0	26,67	30,00	33,33	36,67	40,00	43,33	46,67	50,00	53,33
	HP	kW	A	m³/h	0	96	108	120	132	144	156	168	180	192
8LMG 160/01	12,5	9,2	21	H (m)	24	19	18	17	16	16	15	13	12	10
8LMG 160/02	25	18,5	40		49	38	36	35	33	31	30	27	24	20
8LMG 160/03	35	26	55		73	57	54	52	49	47	45	40	36	30
8LMG 160/04	50	37	78		97	76	72	69	66	63	59	54	48	40
8LMG 160/05	60	45	92		121	95	90	86	82	79	74	67	60	50
8LMG 160/06	75	55	113,5		146	114	108	104	99	94	89	81	72	60
8LMG 160/07	90	66	134,5		170	133	126	121	115	110	104	94	84	70
8LMG 160/08	100	75	149,5		194	152	144	138	131	126	119	107	96	80
8LMG 160/09	100	75	149,5		219	171	162	156	148	141	134	121	108	90
8LMG 160/10	125	92	185		243	190	180	173	164	157	149	134	120	100
8LMG 160/11	125	92	185		267	209	198	190	181	173	163	148	132	110
8LMG 160/12	150	110	219		291	228	216	207	197	189	178	161	144	120
8LMG 160/13	150	110	219		316	247	234	225	214	204	193	175	156	130

Max Eff. %	74
Max kW / St.	8,6

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3	5	9

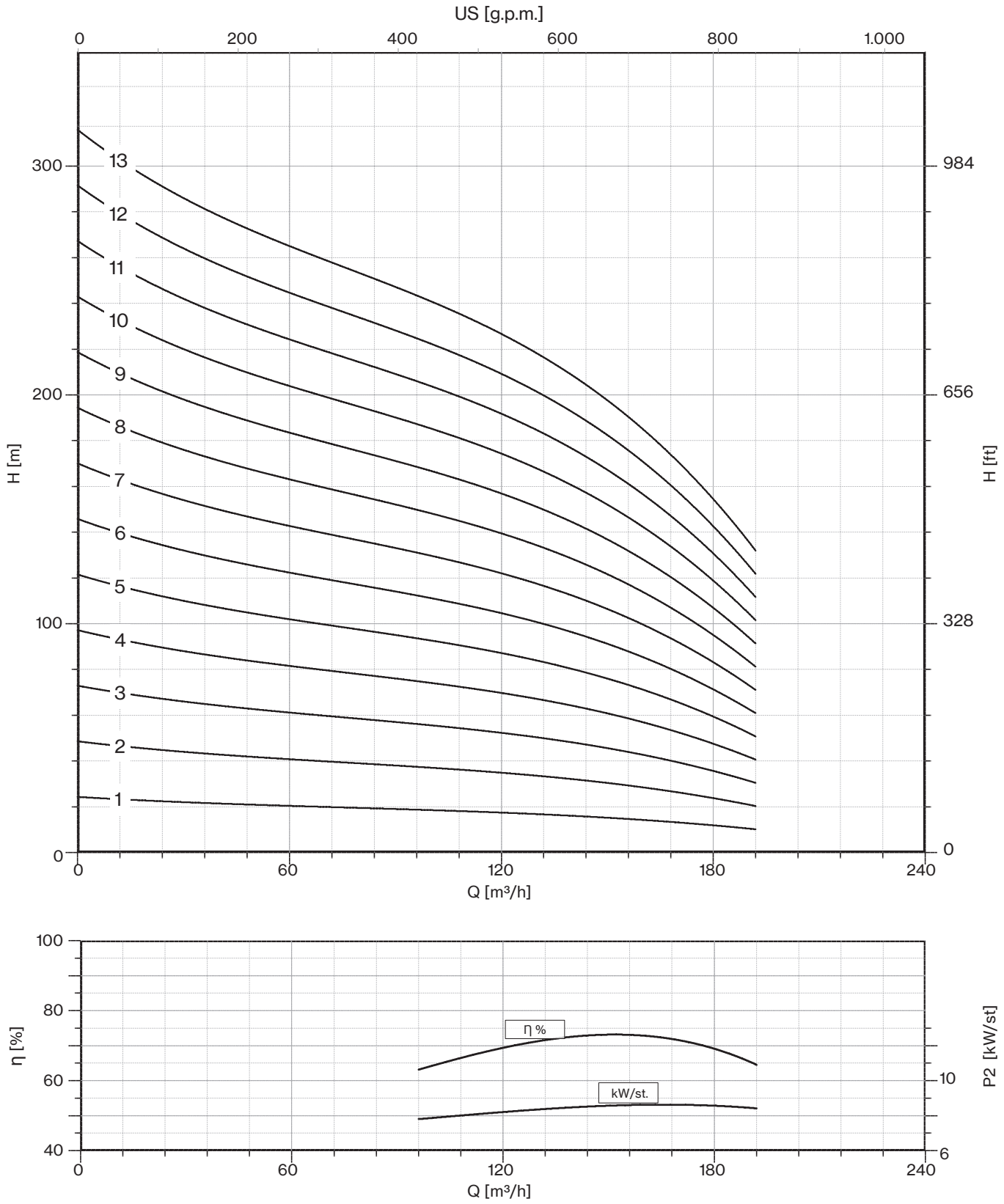


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LMG 160/01-6	6" NEMA	1303	552	751	60	24
8LMG 160/02-6		1693	702	991	83	33
8LMG 160/03-6		2033	852	1181	100	42
8LMG 160/04-6		2343	1002	1341	118	51
8LMG 160/05	8" NEMA	2275	1152	1123	178	60
8LMG 160/06		2535	1302	1233	200	69
8LMG 160/07		2755	1452	1303	214	78
8LMG 160/08		2985	1602	1383	230	87
8LMG 160/09		3135	1752	1383	230	96
8LMG 160/10		3485	1902	1583	270	105
8LMG 160/11		3635	2052	1583	270	114
8LMG 160/12		3935	2202	1733	300	123
8LMG 160/13		4085	2352	1733	300	132

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

8LMG 160

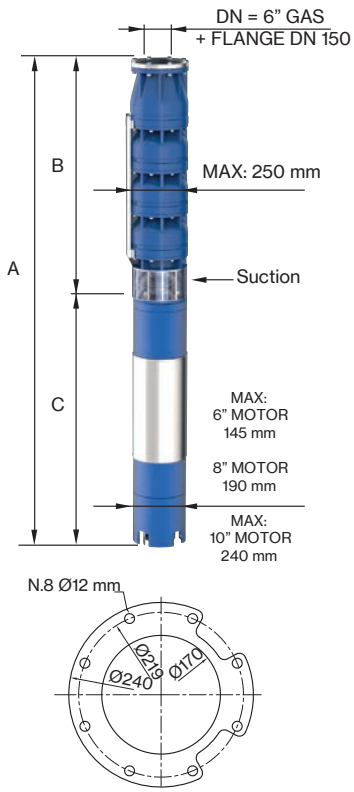


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1800	2200	2600	3000	3400	3800
	P2		CURRENT	l/sec	0	30,00	36,67	43,33	50,00	56,67	63,33
	HP	kW	A	m³/h	0	108	132	156	180	204	228
10LMG 190/01DR20	20	15	32		32	29	28	25	24	20	16
10LMG 190/01DR10	25	18,5	40		37	33	31	29	27	22	18
10LMG 190/01	30	22	47,5		42	37	35	32	30	25	20
10LMG 190/02DR20	40	30	62,5		65	58	55	50	48	40	32
10LMG 190/02DR10	50	37	78		73	66	62	57	54	45	36
10LMG 190/02	60	45	92		83	74	70	64	60	50	40
10LMG 190/03DR20	75	55	113,5		97	88	83	76	71	59	47
10LMG 190/03DR10	75	55	113,5		110	99	94	86	80	67	53
10LMG 190/03	90	66	134,5		125	111	105	96	90	75	60
10LMG 190/04DR20	90	66	134,5		130	117	110	101	95	79	63
10LMG 190/04DR10	100	75	149,5		146	132	125	114	107	90	71
10LMG 190/04	100	75	149,5	H	166	148	140	128	120	100	80
10LMG 190/05DR20	100	75	149,5	(m)	162	146	138	126	119	99	79
10LMG 190/05DR10	125	92	185		183	165	156	143	134	112	89
10LMG 190/05	150	110	219		208	185	175	160	150	125	100
10LMG 190/06DR20	125	92	185		194	175	166	151	143	119	95
10LMG 190/06DR10	150	110	219		220	198	187	172	161	134	107
10LMG 190/06	175	130	254,5		250	222	210	192	180	150	120
10LMG 190/07DR20	150	110	219		227	204	193	176	167	139	111
10LMG 190/07DR10	175	130	254,5		256	231	218	200	188	157	125
10LMG 190/07	200	150	290		291	259	245	224	210	175	140
10LMG 190/08DR20	175	130	254,5		259	234	221	202	190	158	126
10LMG 190/08DR10	200	150	290		293	264	250	229	214	179	142
10LMG 190/08	225	165	330		333	296	280	256	240	200	160

Max Eff. % DR20 =	74
Max Eff. % DR10 =	75
Max Eff. %	75,5
Max kW / St. DR20 =	15,7
Max kW / St. DR10 =	17,5
Max kW / St.	19,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,6	5,3	8,1	14



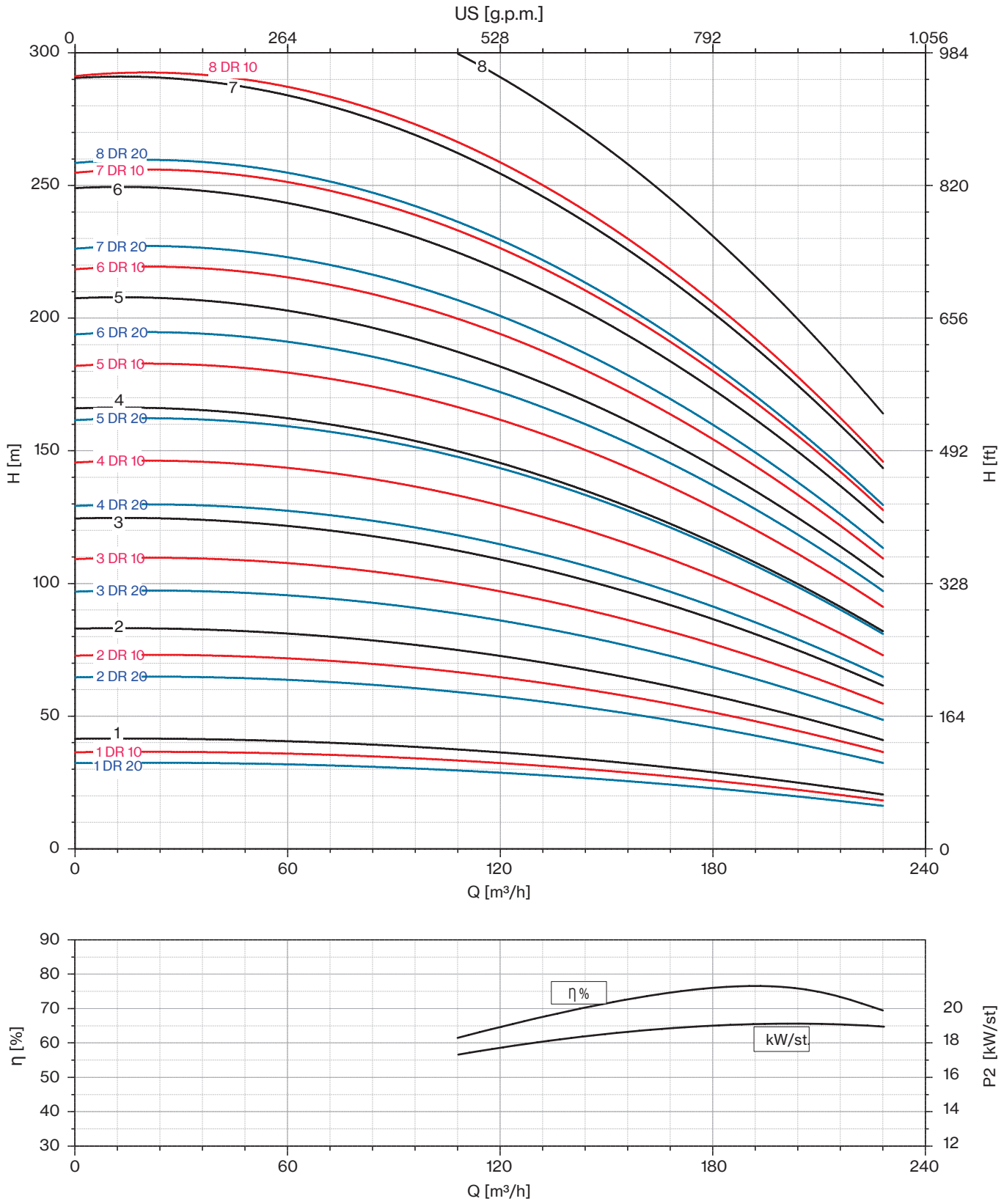
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LMG 190/01DR20-6	6" NEMA	1556	625	931	75	50
10LMG 190/01DR10-6		1616	625	991	83	50
10LMG 190/01-6		1696	625	1071	92	50
10LMG 190/02DR20-6		2056	805	1251	108	68
10LMG 190/02DR10-6		2146	805	1341	118	68
10LMG 190/02-8	8" NEMA	1928	805	1123	178	68
10LMG 190/03DR20-8		2218	985	1233	200	87
10LMG 190/03DR10-8		2218	985	1233	200	87
10LMG 190/03-8		2288	985	1303	214	87
10LMG 190/04DR20-8		2468	1165	1303	214	105
10LMG 190/04DR10-8		2548	1165	1383	230	105
10LMG 190/04-8		2548	1165	1383	230	105
10LMG 190/05DR20-8		2728	1345	1383	230	124
10LMG 190/05DR10-8		2928	1345	1583	270	124
10LMG 190/05-8		3078	1345	1733	300	124
10LMG 190/06DR20	10"	3108	1525	1583	270	142
10LMG 190/06DR10		3258	1525	1733	300	142
10LMG 190/06		3159	1525	1634	385	142
10LMG 190/07DR20		3438	1705	1733	300	161
10LMG 190/07DR10		3339	1705	1634	385	161
10LMG 190/07		3439	1705	1734	415	161
10LMG 190/08DR20		3519	1885	1634	385	179
10LMG 190/08DR10		3619	1885	1734	415	179
10LMG 190/08		3739	1885	1854	444	179

"DR" : reduced-diameter impellers

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

10LMG 190

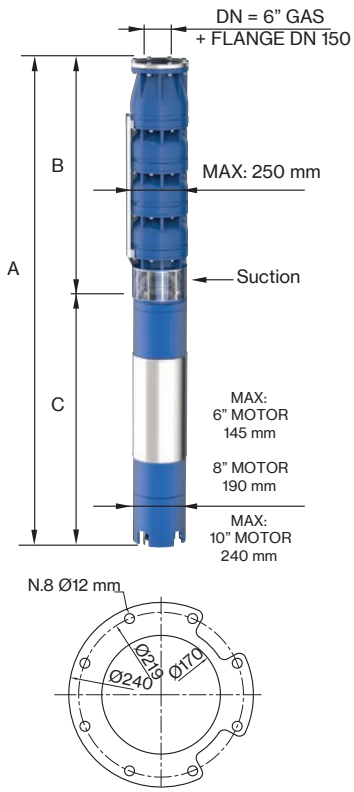


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	2200	2600	3000	3400	3800	4200	4400
	P2		CURRENT	l/sec	0	36,67	43,33	50,00	56,67	63,33	70,00	73,33
	HP	kW	A	m³/h	0	132	156	180	204	228	252	264
10LMG 230/01DR20	25	18,5	40	H (m)	34	29	28	26	24	22	19	16
10LMG 230/01DR10	30	22	47,5		38	33	31	29	27	25	21	17
10LMG 230/01	30	22	47,5		43	37	35	33	30	28	24	22
10LMG 230/02DR20	50	37	78		68	58	55	52	48	44	38	33
10LMG 230/02DR10	60	45	92		77	66	62	59	54	50	43	35
10LMG 230/02	60	45	92		86	74	70	66	60	56	48	44
10LMG 230/03DR20	75	55	113,5		102	88	83	78	71	67	57	49
10LMG 230/03DR10	90	66	134,5		115	99	94	88	80	75	64	52
10LMG 230/03	100	75	149,5		129	111	105	99	90	84	72	66
10LMG 230/04DR20	100	75	149,5		136	117	110	104	95	89	76	66
10LMG 230/04DR10	125	92	185		154	132	125	118	107	100	86	70
10LMG 230/04	125	92	185		172	148	140	132	120	112	96	88
10LMG 230/05DR20	125	92	185		170	146	138	130	119	111	95	82
10LMG 230/05DR10	150	110	219		192	165	156	147	134	125	107	87
10LMG 230/05	175	130	254,5		215	185	175	165	150	140	120	110
10LMG 230/06DR20	150	110	219		204	175	166	156	143	133	114	98
10LMG 230/06DR10	175	130	254,5		230	198	187	176	161	150	128	104
10LMG 230/06	200	150	290		258	222	210	198	180	168	144	132
10LMG 230/07DR20	175	130	254,5		238	204	193	182	167	155	133	115
10LMG 230/07DR10	200	150	290		269	231	218	206	188	175	150	122
10LMG 230/07	225	165	330		301	259	245	231	210	196	168	154

Max Eff. % DR20 =	75,5
Max Eff. % DR10 =	76
Max Eff. %	76,5
Max kW / St. DR20 =	18,3
Max kW / St. DR10 =	20,5
Max kW / St.	23

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,7	5,4	8,3	14,2



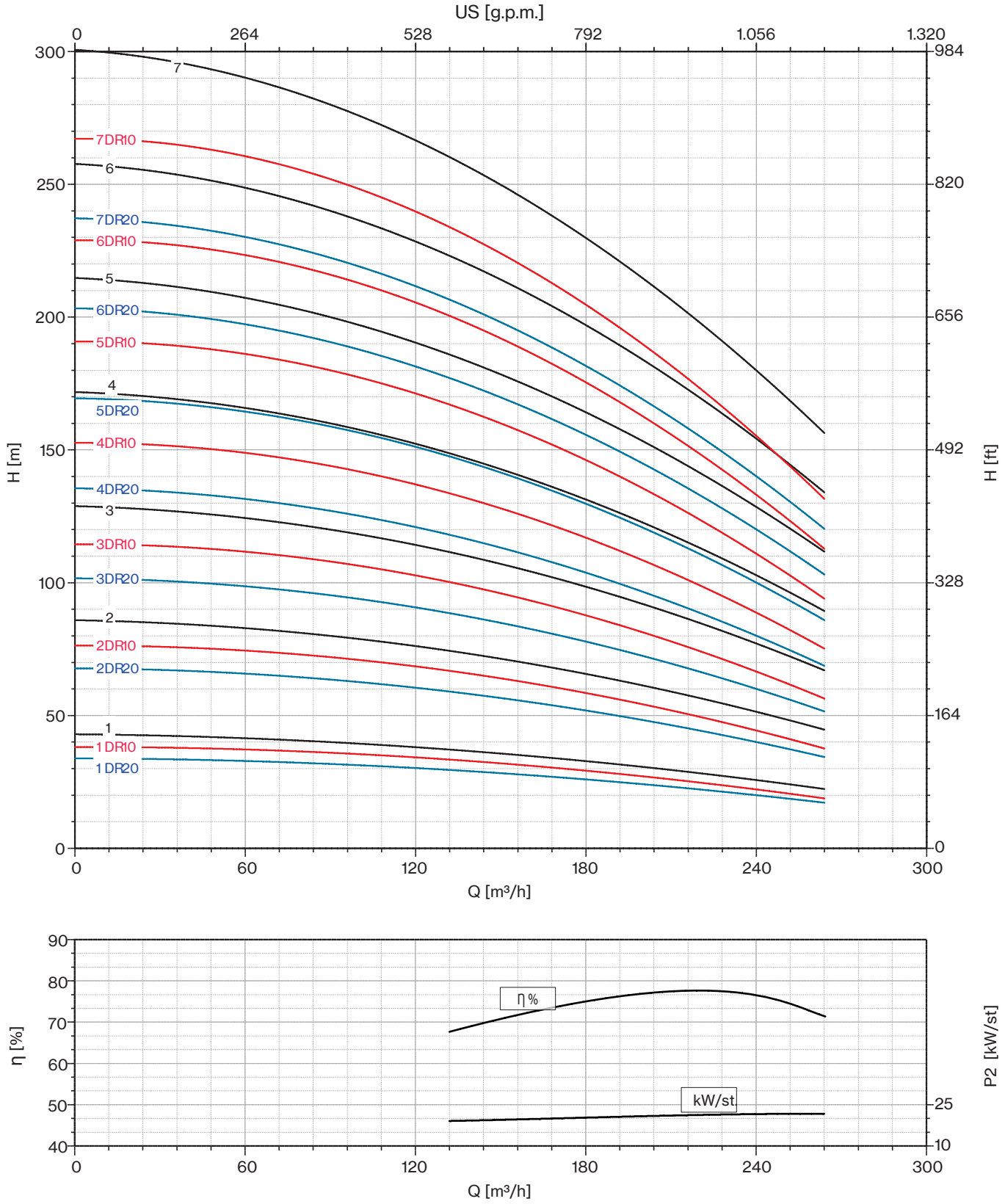
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LMG 230/01DR20-6	6" NEMA	1616	625	991	83	50
10LMG 230/01DR10-6		1696	625	1071	92	50
10LMG 230/01-6		1696	625	1071	92	50
10LMG 230/02DR20-6		2146	805	1341	118	68
10LMG 230/02DR10-8	8" NEMA	1928	805	1123	178	68
10LMG 230/02-8		1928	805	1123	178	68
10LMG 230/03DR20-8		2218	985	1233	200	87
10LMG 230/03DR10-8		2288	985	1303	214	87
10LMG 230/03-8		2368	985	1383	230	87
10LMG 230/04DR20-8		2548	1165	1383	230	105
10LMG 230/04DR10-8		2748	1165	1583	270	105
10LMG 230/04-8		2748	1165	1583	270	105
10LMG 230/05DR20-8		2928	1345	1583	270	124
10LMG 230/05DR10-8		3078	1345	1733	300	124
10LMG 230/05-8		2979	1345	1634	385	124
10LMG 230/06DR20-8		3258	1525	1733	300	142
10LMG 230/06DR10	10"	3159	1525	1634	385	142
10LMG 230/06		3259	1525	1734	415	142
10LMG 230/07DR20		3339	1705	1634	385	161
10LMG 230/07DR10		3439	1705	1734	415	161
10LMG 230/07		3559	1705	1854	444	161

"DR" : reduced-diameter impellers

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

10LMG 230

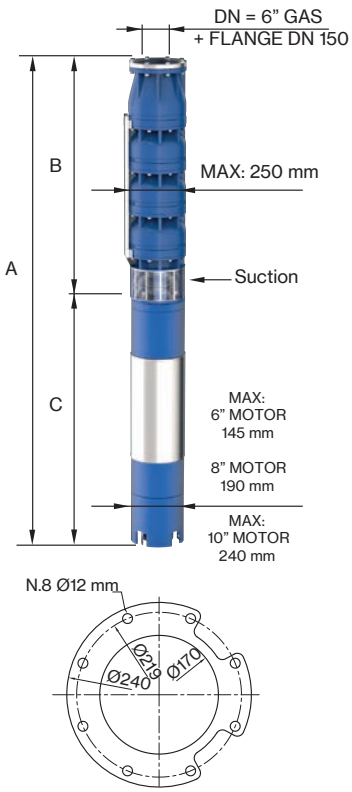


Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	2400	2800	3200	3600	4000	4400	4800	5000
	P2		CURRENT	l/sec	0	40,00	46,67	53,33	60,00	66,67	73,33	80,00	83,33
	HP	kW	A	m³/h	0	144	168	192	216	240	264	288	300
10LMG 250/01DR20	30	22	47,5		34	28	27	26	25	22	21	18	17
10LMG 250/01DR10	35	26	55		38	32	30	29	28	25	23	20	20
10LMG 250/01	35	26	55		43	36	34	33	31	28	26	23	22
10LMG 250/02DR20	60	45	92		68	57	54	52	49	44	41	36	35
10LMG 250/02DR10	75	55	113,5		77	64	61	59	55	50	46	41	39
10LMG 250/02	75	55	113,5		86	72	68	66	62	56	52	46	44
10LMG 250/03DR20	90	66	134,5		102	85	81	79	74	67	62	55	52
10LMG 250/03DR10	100	75	149,5		115	96	91	88	83	75	70	61	59
10LMG 250/03	125	92	185		129	108	102	99	93	84	78	69	66
10LMG 250/04DR20	125	92	185	H	136	114	108	105	98	89	82	73	70
10LMG 250/04DR10	125	92	185	(m)	154	128	122	118	110	100	93	82	78
10LMG 250/04	150	110	219		172	144	136	132	124	112	104	92	88
10LMG 250/05DR20	150	110	219		170	142	135	131	123	111	103	91	87
10LMG 250/05DR10	175	130	254,5		192	160	152	147	138	125	116	102	98
10LMG 250/05	175	130	254,5		215	180	170	165	155	140	130	115	110
10LMG 250/06DR20	175	130	254,5		204	170	162	157	148	133	124	109	104
10LMG 250/06DR10	200	150	290		230	192	182	176	166	150	139	122	118
10LMG 250/06	225	165	330		258	216	204	198	186	168	156	138	132
10LMG 250/07DR20	225	165	330		238	199	189	183	172	155	144	127	122
10LMG 250/07DR10	225	165	330		269	224	213	206	193	175	162	143	137

Max Eff. % DR20 =	75,5
Max Eff. % DR10 =	76
Max Eff. %	76,5
Max kW / St. DR20 =	21,9
Max kW / St. DR10 =	23,5
Max kW / St.	26,3

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,9	5,5	8,5	14,4



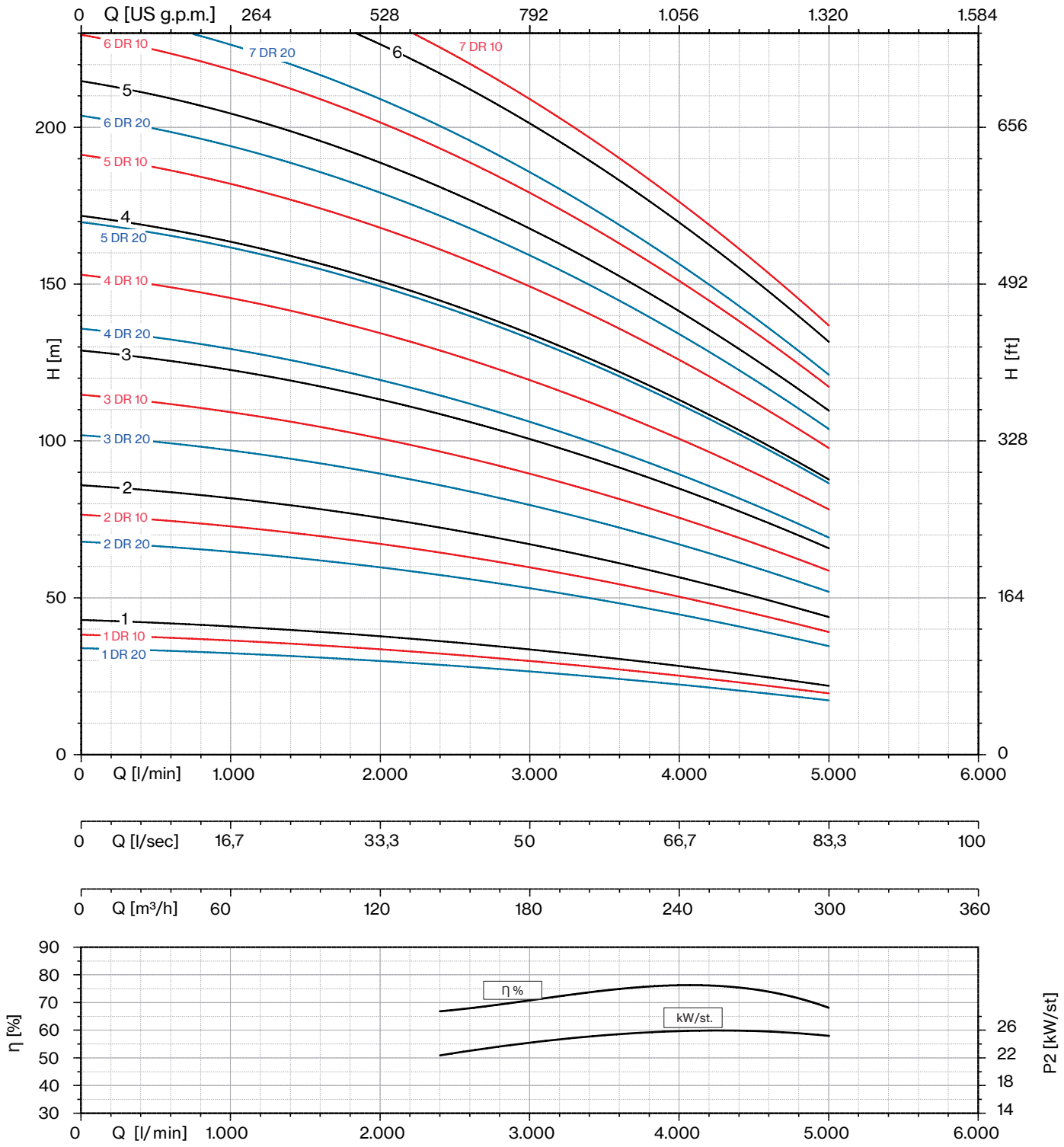
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LMG 250/01DR20-6	6" NEMA	1696	625	1071	92	50
10LMG 250/01DR10-6		1806	625	1181	100	50
10LMG 250/01-6		1806	625	1181	100	50
10LMG 250/02DR20-8	8" NEMA	1928	805	1123	178	68
10LMG 250/02DR10-8		2038	805	1233	200	68
10LMG 250/02-8		2038	805	1233	200	68
10LMG 250/03DR20-8		2288	985	1303	214	87
10LMG 250/03DR10-8		2368	985	1383	230	87
10LMG 250/03-8		2568	985	1583	270	87
10LMG 250/04DR20-8		2748	1165	1583	270	105
10LMG 250/04DR10-8		2748	1165	1583	270	105
10LMG 250/04-8		2898	1165	1733	300	105
10LMG 250/05DR20	10"	3078	1345	1733	300	124
10LMG 250/05DR10		2979	1345	1634	385	124
10LMG 250/05		2979	1345	1634	385	124
10LMG 250/06DR20		3159	1525	1634	385	142
10LMG 250/06DR10		3259	1525	1734	415	142
10LMG 250/06		3379	1525	1854	444	142
10LMG 250/07DR20		3559	1705	1854	444	161
10LMG 250/07DR10		3559	1705	1854	444	161

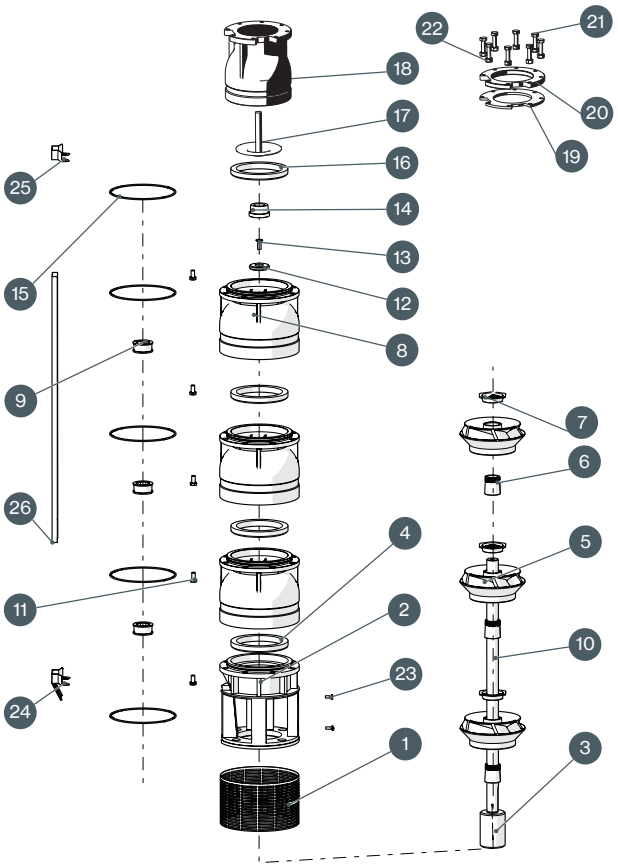
"DR" : reduced-diameter impellers

Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B

10LMG 250



Sand tolerance 50 g/m³
Tolerances according to UNI ISO 9906 grade 3B



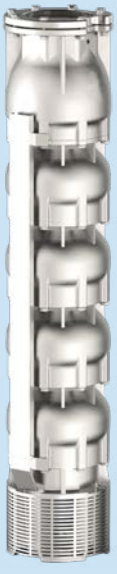
N. CODE	DESCRIPTION	MATERIAL
1	**SUCTION STRAINER**	AISI 304
2	**SUCTION CAGE**	CAST IRON
3	**JOINT**	AISI 304
4	**USURY RING**	NBR
5	**IMPELLER**	CAST IRON
6	**CONE**	AISI 304
7	**HEXAGONAL RING**	AISI 304
8	**DIFFUSEUR**	AISI 304
9	**BEARING BUSH**	NBR
10	**PUMP SHAFT**	AISI 304
11	**N.8 SCREW FOR DIFFUSEUR**	AISI 304
12	**RING**	AISI 304
13	**SCREW FOR DISK**	AISI 304
14	**COUNTERTHRUST**	PTFE + 25% CARBON
15	**O-RING**	NBR
16	**GASKET VALVE**	NBR
17	**CAP VALVE**	AISI 304
18	**BODY VALVE**	CAST IRON
19	**SEAL COUNTERFLANGE**	NBR
20	**COUNTERFLANGE**	IRON
21	**N.8 SCREW FOR COUNTERFLANGE**	AISI 304
22	**N.8 NUT FOR COUNTERFLANGE**	AISI 304
23	**N.2 SCREW FOR SUCTION STRAINER**	AISI 304
24	**LOWER FLANGE**	AISI 304
25	**UPPER FLANGE**	AISI 304
26	**COVER CABLE**	AISI 304

6LRH & 6LM line

Submersible Well Pumps



6LRH line



6LM line

Submersible Multistage Centrifugal Pumps for 6” Wells.
The 6LRH line is a radial type execution, while the 6LM one is a semi-axial type. These pumps feature a check valve integrated into the delivery outlet. The pump motor bracket is designed in compliance with NEMA standards. All components are constructed from stainless steel using lost wax microfusion technology.
The standard material is AISI 304 stainless steel. Alternatively, the following materials are available upon request: AISI 316 stainless steel and Duplex steel (EN 1.4462). The bushing bearings and wear rings are made from sand abrasion-resistant rubber, while the reverse-thrust ring is crafted from PTFE/Graphite.
These pumps are ideal for a variety of applications, including civil and agricultural use.

General operating data:

- Capacity up to 90 m³/h
- Pressure up to 540 m
- Hydraulic efficiency 6”, up to 78,5%
- Powers up to 37 kW
- Rotation speed 2.900 rpm
- Maximum depth: 350 m
- Maximum quantity of sand: 100 gr/m³
- Drinking water compatibility according to DM174
- MEI ≥ 0,4 (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B

Construction features	
Suction and delivery outlet	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Valve	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Impellers and diffusers	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Quantity of sand in the water	max 100 g/m³

Motor	
Asynchronous 2 pole	rewindable water cooled
Insulation class	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
Protection degree	IP68
Liquid temperature	max 30 °C (max 50 °C on request)
Depth of immersion	max 350 m

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	100	150	200	250	300	350	400
	P2		CURRENT	l/sec	0,0	1,7	2,5	3,3	4,2	5,0	5,8	6,7
	HP	kW	A	m³/h	0	6	9	12	15	18	21	24
6LRH 14/01	1	0,75	2,6		15	14	13	13	12	11	9	7
6LRH 14/02	2	1,5	4,6		29	28	26	25	23	21	18	14
6LRH 14/03	3	2,2	6,4		44	41	40	38	35	32	26	20
6LRH 14/04	4	3	8,3		58	55	53	50	46	42	35	27
6LRH 14/05	5,5	4	9,6		73	69	66	63	58	53	44	34
6LRH 14/06	7,5	5,5	13,6		88	83	79	75	70	63	53	41
6LRH 14/07	7,5	5,5	13,6		102	97	92	88	81	74	62	48
6LRH 14/08	7,5	5,5	13,6		117	110	106	100	93	84	70	54
6LRH 14/09	10	7,5	16,3	H	131	124	119	113	104	95	79	61
6LRH 14/10	10	7,5	16,3	(m)	146	138	132	125	116	105	88	68
6LRH 14/11	12,5	9,2	19,9		161	152	145	138	128	116	97	75
6LRH 14/12	12,5	9,2	19,9		175	166	158	150	139	126	106	82
6LRH 14/13	12,5	9,2	19,9		190	179	172	163	151	137	114	88
6LRH 14/14	15	11	23,4		204	193	185	175	162	147	123	95
6LRH 14/15	15	11	23,4		219	207	198	188	174	158	132	102
6LRH 14/16	15	11	23,4		234	221	211	200	186	168	141	109
6LRH 14/17	17,5	13	27,3		248	235	224	213	197	179	150	116
6LRH 14/18	17,5	13	27,3		263	248	238	225	209	189	158	122

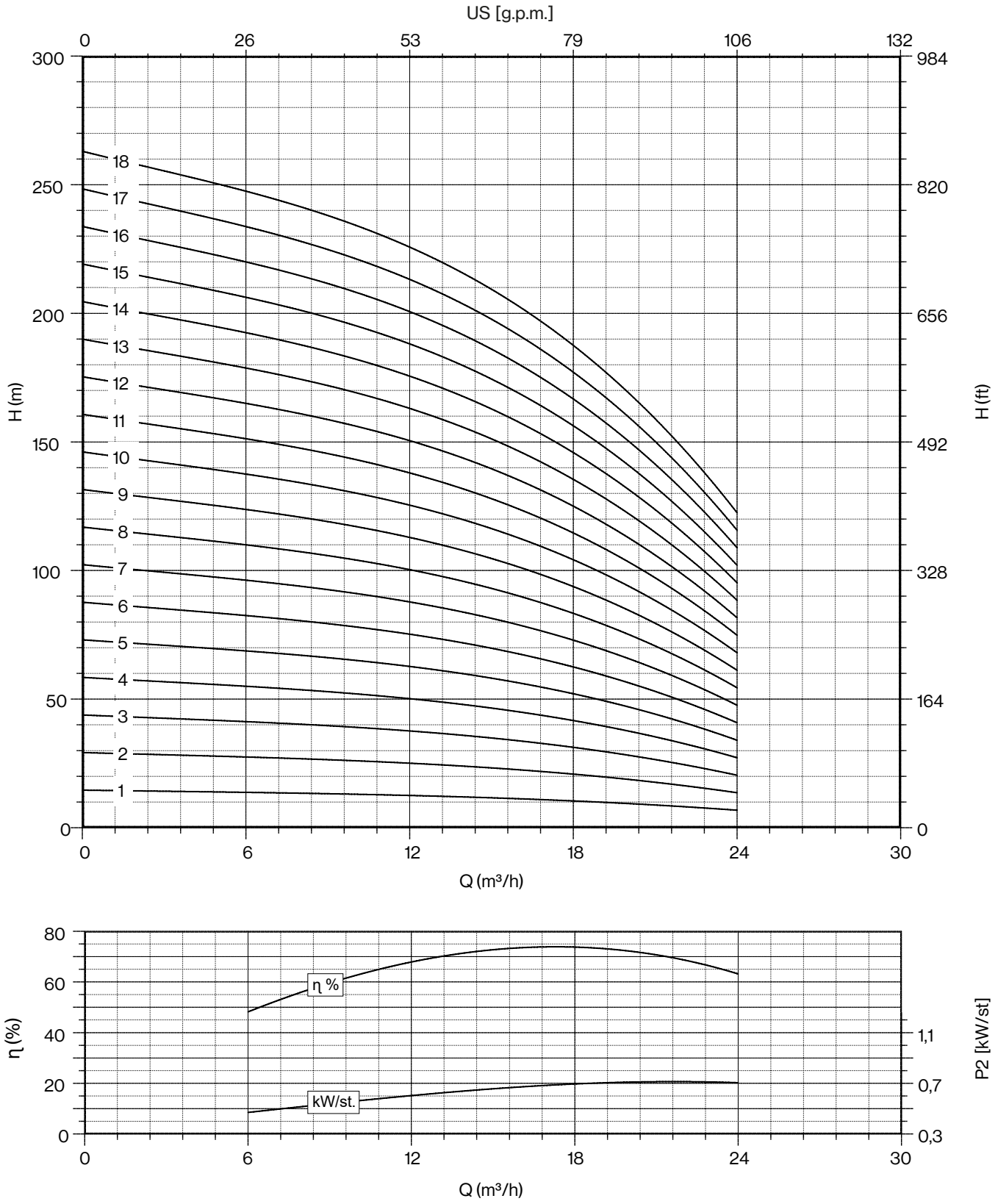
Max Eff. %	74
Max kW / St.	0,71

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4	6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 14/01-4	4" NEMA	627	302	325	7,6	11
6LRH 14/02-4		754	369	385	10,4	15
6LRH 14/03-4		856	436	420	12	20
6LRH 14/04-4		921	503	418	12,8	24
6LRH 14/05-4		1038	570	468	15,3	28
6LRH 14/06-4		1175	637	538	18,6	32
6LRH 14/07-4		1242	704	538	18,6	36
6LRH 14/08-4		1309	771	538	18,6	40
6LRH 14/09	6" NEMA	1539	838	701	55	44
6LRH 14/10		1606	905	701	55	49
6LRH 14/11		1723	972	751	60	53
6LRH 14/12		1790	1039	751	60	57
6LRH 14/13		1857	1106	751	60	61
6LRH 14/14		1984	1173	811	65	65
6LRH 14/15		2051	1240	811	65	69
6LRH 14/16		2118	1307	811	65	74
6LRH 14/17		2215	1374	841	70	78
6LRH 14/18		2282	1441	841	70	82

6LRH 14



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	100	150	200	250	300	350	400
	P2		CURRENT	l/sec	0,0	1,7	2,5	3,3	4,2	5,0	5,8	6,7
	HP	kW	A	m³/h	0	6	9	12	15	18	21	24
6LRH 14/19	20	15	31,5	H (m)	277	262	251	238	220	200	167	129
6LRH 14/20	20	15	31,5		292	276	264	250	232	210	176	136
6LRH 14/21	20	15	31,5		307	290	277	263	244	221	185	143
6LRH 14/22	25	18,5	38,3		321	304	290	275	255	231	194	150
6LRH 14/23	25	18,5	38,3		336	317	304	288	267	242	202	156
6LRH 14/24	25	18,5	38,3		350	331	317	300	278	252	211	163
6LRH 14/25	25	18,5	38,3		365	345	330	313	290	263	220	170
6LRH 14/26	25	18,5	38,3		380	359	343	325	302	273	229	177
6LRH 14/27	30	22	45,1		394	373	356	338	313	284	238	184
6LRH 14/28	30	22	45,1		409	386	370	350	325	294	246	190
6LRH 14/29	30	22	45,1		423	400	383	363	336	305	255	197
6LRH 14/30	30	22	45,1		438	414	396	375	348	315	264	204
6LRH 14/31	30	22	45,1		453	428	409	388	360	326	273	211
6LRH 14/32	35	26	52,9		467	442	422	400	371	336	282	218
6LRH 14/33	35	26	52,9		482	455	436	413	383	347	290	224
6LRH 14/34	35	26	52,9		496	469	449	425	394	357	299	231
6LRH 14/35	35	26	52,9		511	483	462	438	406	368	308	238
6LRH 14/36	35	26	52,9		526	497	475	450	418	378	317	245
6LRH 14/37	35	26	52,9		540	511	488	463	429	389	326	252

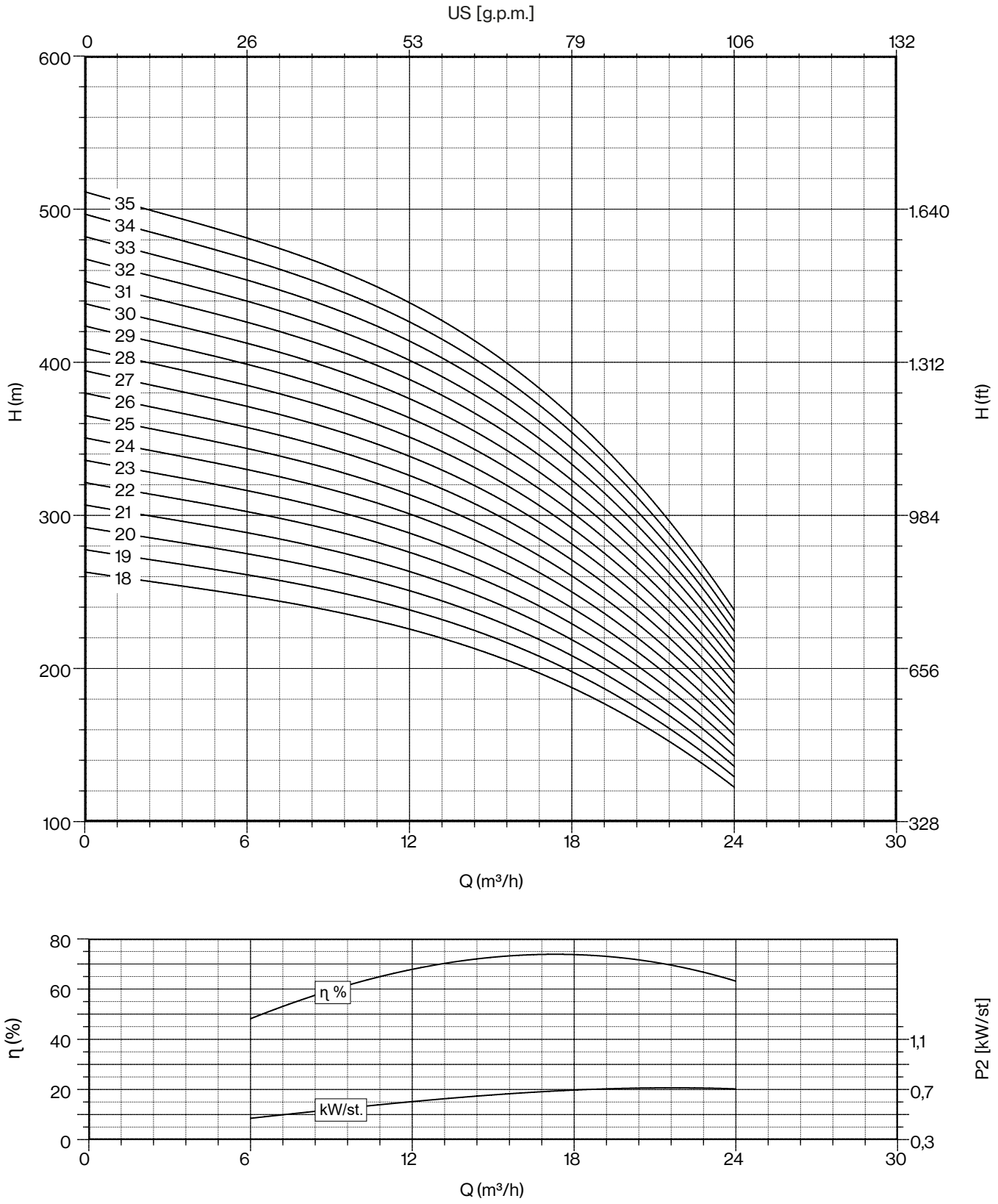
Max Eff. %	74
Max kW / St.	0,71

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4	6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 14/19	6" NEMA	2439	1508	931	75	86
6LRH 14/20		2506	1575	931	75	90
6LRH 14/21		2573	1642	931	75	94
6LRH 14/22		2700	1709	991	83	98
6LRH 14/23		2767	1776	991	83	103
6LRH 14/24		2834	1843	991	83	107
6LRH 14/25		2901	1910	991	83	111
6LRH 14/26		2968	1977	991	83	115
6LRH 14/27		3115	2044	1071	92	119
6LRH 14/28		3182	2111	1071	92	123
6LRH 14/29		3249	2178	1071	92	127
6LRH 14/30		3316	2245	1071	92	132
6LRH 14/31		3383	2312	1071	92	136
6LRH 14/32		3560	2379	1181	100	140
6LRH 14/33		3627	2446	1181	100	144
6LRH 14/34		3694	2513	1181	100	148
6LRH 14/35		3761	2580	1181	100	152
6LRH 14/36		3828	2647	1181	100	157
6LRH 14/37		3895	2714	1181	100	161

6LRH 14



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	150	200	250	300	350	400	450	500
	P2		CURRENT	l/sec	0,0	2,5	3,3	4,2	5,0	5,8	6,7	7,5	8,3
	HP	kW	A	m³/h	0	9	12	15	18	21	24	27	30
6LRH 20/01	1,5	1,1	3,4		15	14	14	13	12	11	10	9	7
6LRH 20/02	3	2,2	6,4		29	28	27	26	25	23	20	17	14
6LRH 20/03	4	3	8,3		44	42	41	40	37	34	30	26	21
6LRH 20/04	5,5	4	9,6		58	56	54	53	50	45	40	35	28
6LRH 20/05	7,5	5,5	13,6		73	71	68	66	62	57	51	44	35
6LRH 20/06	7,5	5,5	13,6		87	85	82	79	74	68	61	52	42
6LRH 20/07	10	7,5	16,3		102	99	95	92	87	79	71	61	49
6LRH 20/08	10	7,5	16,3		116	113	109	106	99	90	81	70	56
6LRH 20/09	12,5	9,2	19,9	H	131	127	122	119	112	102	91	78	63
6LRH 20/10	12,5	9,2	19,9	(m)	145	141	136	132	124	113	101	87	70
6LRH 20/11	15	11	23,4		160	155	150	145	136	124	111	96	77
6LRH 20/12	15	11	23,4		174	169	163	158	149	136	121	104	84
6LRH 20/13	17,5	13	27,3		189	183	177	172	161	147	131	113	91
6LRH 20/14	17,5	13	27,3		203	197	190	185	174	158	141	122	98
6LRH 20/15	20	15	31,5		218	212	204	198	186	170	152	131	105
6LRH 20/16	20	15	31,5		232	226	218	211	198	181	162	139	112
6LRH 20/17	25	18,5	38,3		247	240	231	224	211	192	172	148	119
6LRH 20/18	25	18,5	38,3		261	254	245	238	223	203	182	157	126

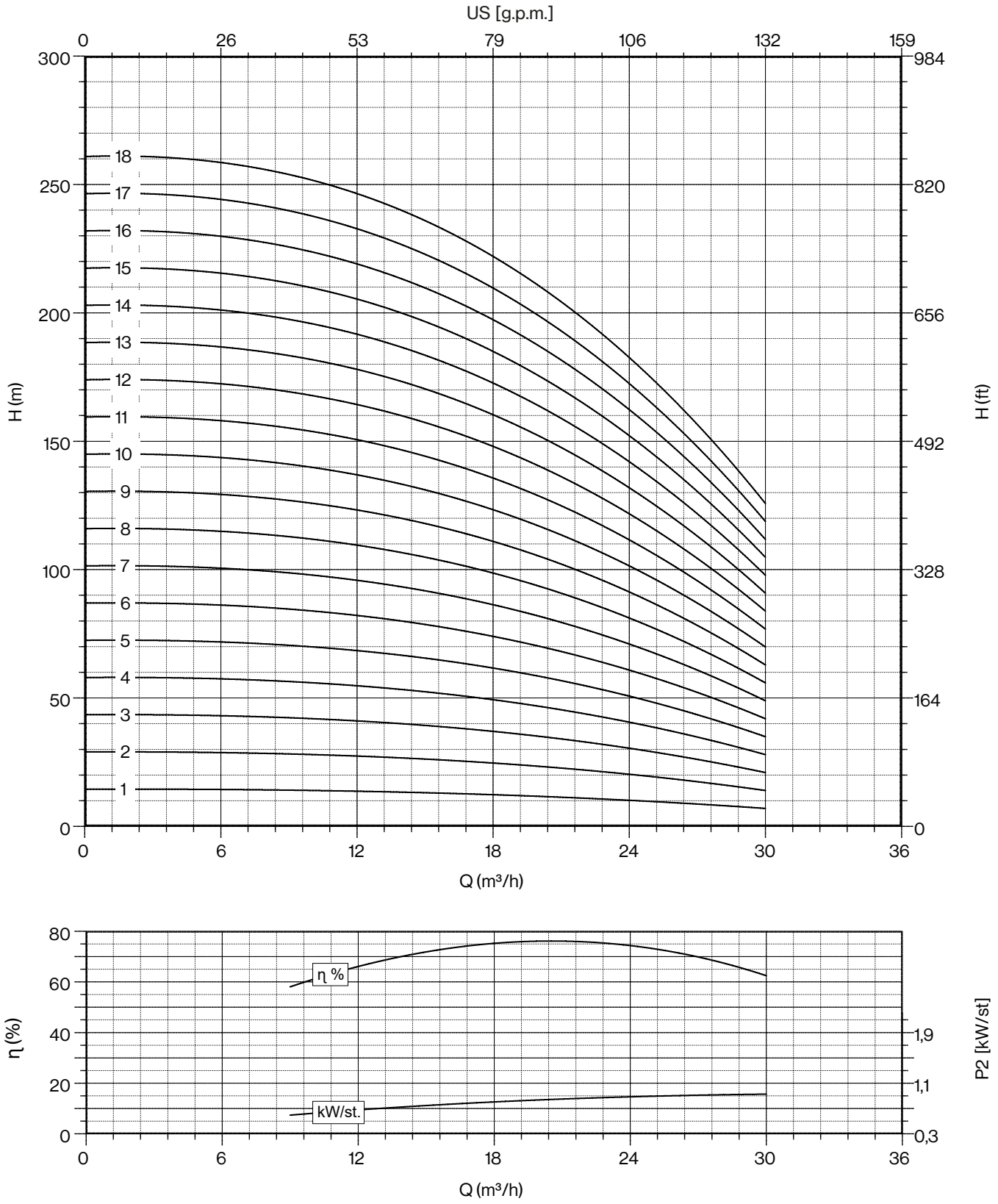
Max Eff. %	76
Max kW / St.	0,93

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4	6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 20/01-4	4" NEMA	652	302	350	8,7	11
6LRH 20/02-4		789	369	420	12	15
6LRH 20/03-4		854	436	418	12,8	20
6LRH 20/04-4		971	503	468	15,3	24
6LRH 20/05-4		1108	570	538	18,6	28
6LRH 20/06-4		1175	637	538	18,6	32
6LRH 20/07	6" NEMA	1405	704	701	55	36
6LRH 20/08		1472	771	701	55	40
6LRH 20/09		1589	838	751	60	44
6LRH 20/10		1656	905	751	60	49
6LRH 20/11		1783	972	811	65	53
6LRH 20/12		1850	1039	811	65	57
6LRH 20/13		1947	1106	841	70	61
6LRH 20/14		2014	1173	841	70	65
6LRH 20/15		2171	1240	931	75	69
6LRH 20/16		2238	1307	931	75	74
6LRH 20/17		2365	1374	991	83	78
6LRH 20/18		2432	1441	991	83	82

6LRH 20



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	150	200	250	300	350	400	450	500
	P2		CURRENT	l/sec	0,0	2,5	3,3	4,2	5,0	5,8	6,7	7,5	8,3
	HP	kW	A	m³/h	0	9	12	15	18	21	24	27	30
6LRH 20/19	25	18,5	38,3		276	268	258	251	236	215	192	165	133
6LRH 20/20	25	18,5	38,3		290	282	272	264	248	226	202	174	140
6LRH 20/21	30	22	45,1		305	296	286	277	260	237	212	183	147
6LRH 20/22	30	22	45,1		319	310	299	290	273	249	222	191	154
6LRH 20/23	30	22	45,1		334	324	313	304	285	260	232	200	161
6LRH 20/24	30	22	45,1		348	338	326	317	298	271	242	209	168
6LRH 20/25	35	26	52,9		363	353	340	330	310	283	253	218	175
6LRH 20/26	35	26	52,9		377	367	354	343	322	294	263	226	182
6LRH 20/27	35	26	52,9	H (m)	392	381	367	356	335	305	273	235	189
6LRH 20/28	35	26	52,9		406	395	381	370	347	316	283	244	196
6LRH 20/29	40	30	61,1		421	409	394	383	360	328	293	252	203
6LRH 20/30	40	30	61,1		435	423	408	396	372	339	303	261	210
6LRH 20/31	40	30	61,1		450	437	422	409	384	350	313	270	217
6LRH 20/32	40	30	61,1		464	451	435	422	397	362	323	278	224
6LRH 20/33	50	37	75,8		479	465	449	436	409	373	333	287	231
6LRH 20/34	50	37	75,8		493	479	462	449	422	384	343	296	238
6LRH 20/35	50	37	75,8		508	494	476	462	434	396	354	305	245

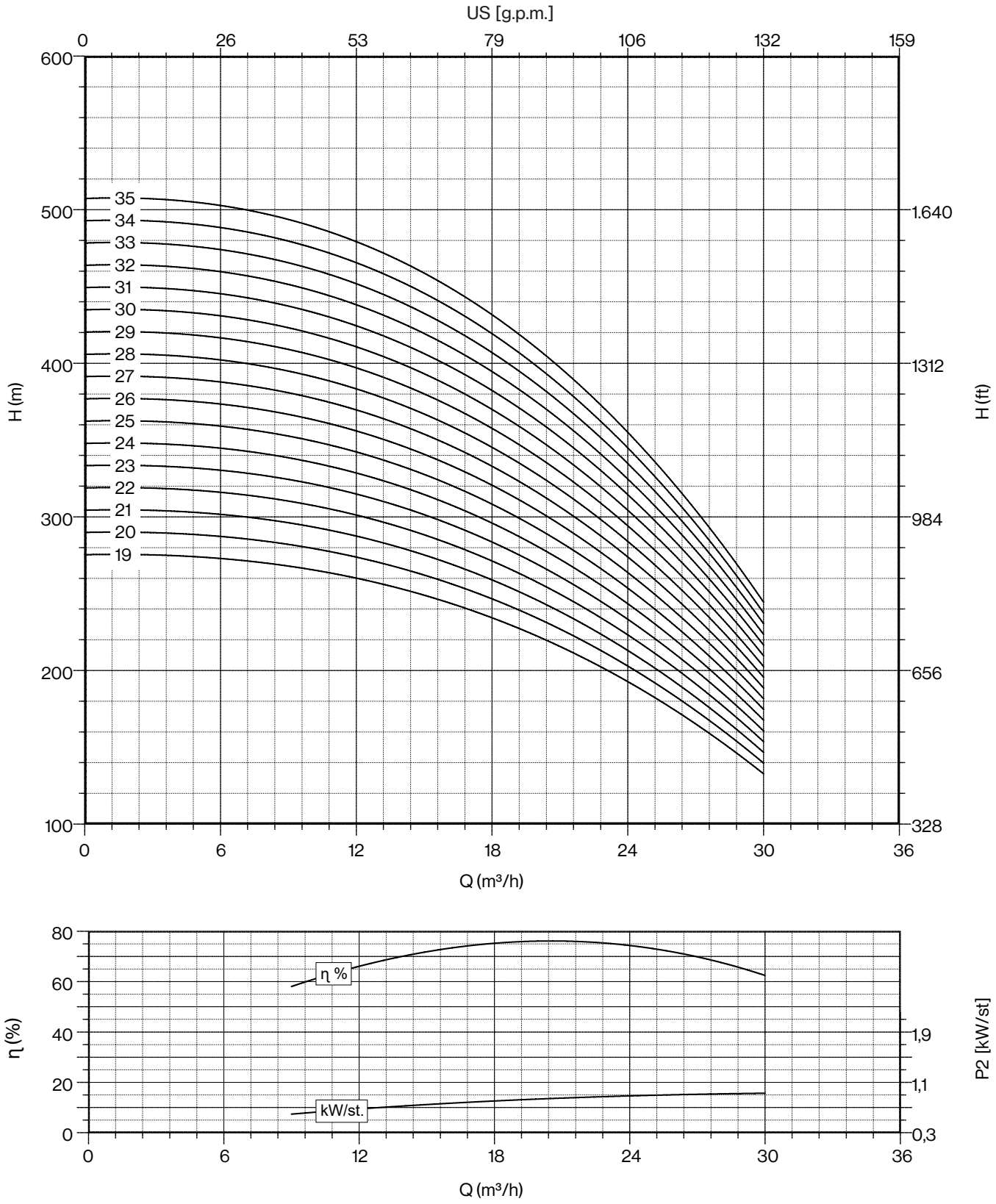
Max Eff. %	76
Max kW / St.	0,93

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4	6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 20/19		2499	1508	991	83	86
6LRH 20/20		2566	1575	991	83	90
6LRH 20/21		2713	1642	1071	92	94
6LRH 20/22		2780	1709	1071	92	98
6LRH 20/23		2847	1776	1071	92	103
6LRH 20/24		2914	1843	1071	92	107
6LRH 20/25		3091	1910	1181	100	111
6LRH 20/26		3158	1977	1181	100	115
6LRH 20/27	6" NEMA	3225	2044	1181	100	119
6LRH 20/28		3292	2111	1181	100	123
6LRH 20/29		3429	2178	1251	108	127
6LRH 20/30		3496	2245	1251	108	132
6LRH 20/31		3563	2312	1251	108	136
6LRH 20/32		3630	2379	1251	108	140
6LRH 20/33		3787	2446	1341	118	144
6LRH 20/34		3854	2513	1341	118	148
6LRH 20/35		3921	2580	1341	118	152

6LRH 20

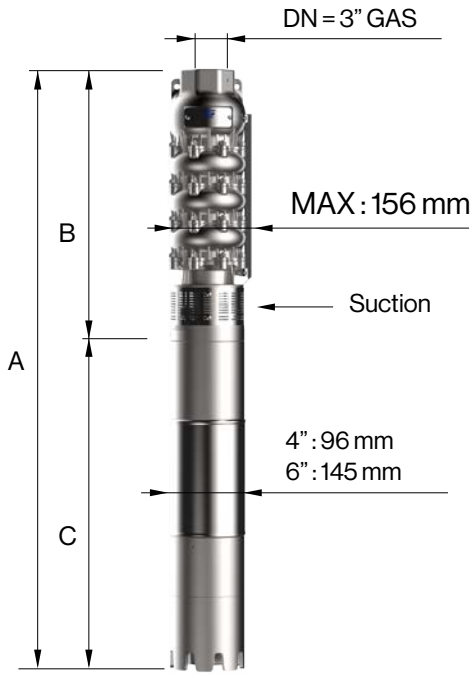


Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q									
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	250	300	350	400	450	500	550	600
	P2		CURRENT	l/sec	0,0	3,3	4,2	5,0	5,8	6,7	7,5	8,3	9,2	10,0
	HP	kW	A	m³/h	0	12	15	18	21	24	27	30	33	36
6LRH 25/01	1,5	1,1	3,4		15	15	14	14	13	12	11	10	9	8
6LRH 25/02	3	2,2	6,4		30	29	28	27	26	24	23	21	18	16
6LRH 25/03	5,5	4	9,6		44	44	42	41	39	37	34	31	28	24
6LRH 25/04	7,5	5,5	13,6		59	58	56	54	52	49	45	41	37	32
6LRH 25/05	10	7,5	16,3		74	73	71	68	65	61	57	52	46	41
6LRH 25/06	10	7,5	16,3		89	87	85	82	78	73	68	62	55	49
6LRH 25/07	12,5	9,2	19,9		104	102	99	95	91	85	79	72	64	57
6LRH 25/08	12,5	9,2	19,9	H	118	116	113	109	104	98	90	82	74	65
6LRH 25/09	15	11	23,4	(m)	133	131	127	122	117	110	102	93	83	73
6LRH 25/10	17,5	13	27,3		148	145	141	136	130	122	113	103	92	81
6LRH 25/11	17,5	13	27,3		163	160	155	150	143	134	124	113	101	89
6LRH 25/12	20	15	31,5		178	174	169	163	156	146	136	124	110	97
6LRH 25/13	20	15	31,5		192	189	183	177	169	159	147	134	120	105
6LRH 25/14	25	18,5	38,3		207	203	197	190	182	171	158	144	129	113
6LRH 25/15	25	18,5	38,3		222	218	212	204	195	183	170	155	138	122
6LRH 25/16	25	18,5	38,3		237	232	226	218	208	195	181	165	147	130

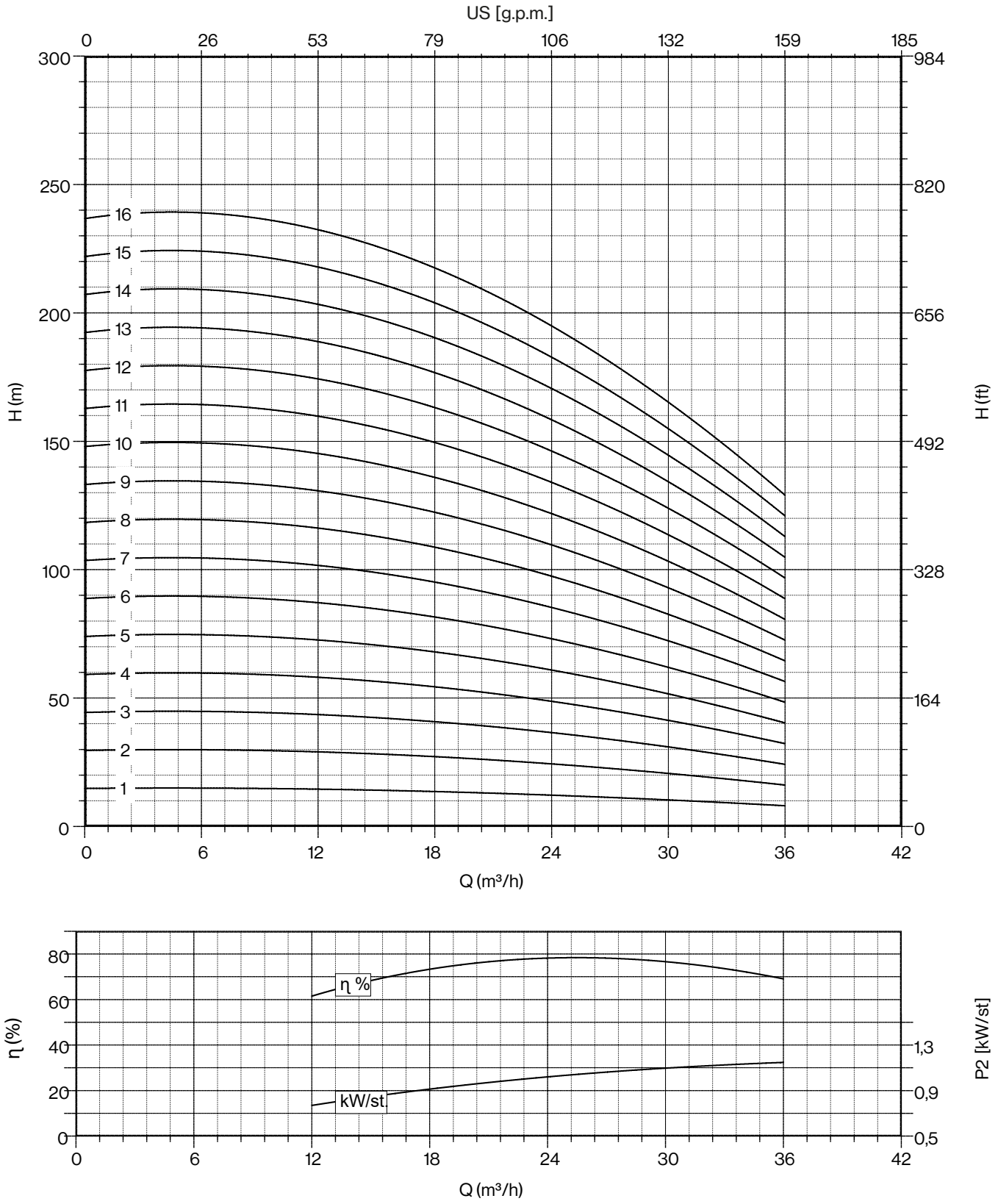
Max Eff. %	78,5
Max kW / St.	1,15

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4,5	6,6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 25/01-4	4" NEMA	652	302	350	8,7	11
6LRH 25/02-4		789	369	420	12	15
6LRH 25/03-4		904	436	468	15,3	20
6LRH 25/04-4		1041	503	538	18,6	24
6LRH 25/05	6" NEMA	1271	570	701	55	28
6LRH 25/06		1338	637	701	55	32
6LRH 25/07		1455	704	751	60	36
6LRH 25/08		1522	771	751	60	40
6LRH 25/09		1649	838	811	65	44
6LRH 25/10		1746	905	841	70	49
6LRH 25/11		1813	972	841	70	53
6LRH 25/12		1970	1039	931	75	57
6LRH 25/13		2037	1106	931	75	61
6LRH 25/14		2164	1173	991	83	65
6LRH 25/15		2231	1240	991	83	69
6LRH 25/16		2298	1307	991	83	74

6LRH 25

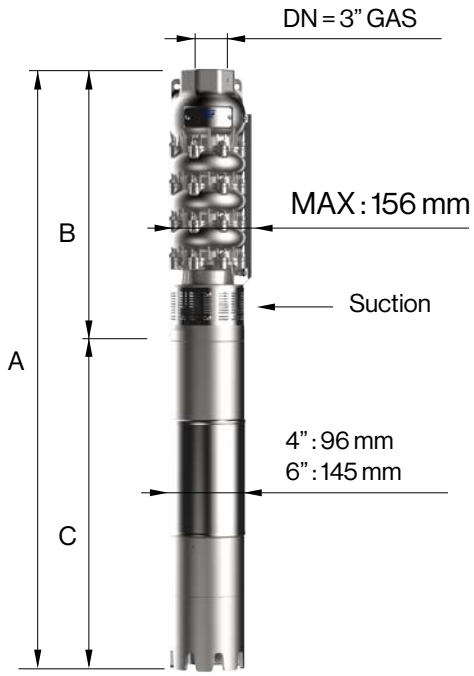


Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q									
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	250	300	350	400	450	500	550	600
	P2		CURRENT	l/sec	0,0	3,3	4,2	5,0	5,8	6,7	7,5	8,3	9,2	10,0
	HP	kW	A	m³/h	0	12	15	18	21	24	27	30	33	36
6LRH 25/17	30	22	45,1		252	247	240	231	221	207	192	175	156	138
6LRH 25/18	30	22	45,1		266	261	254	245	234	220	203	185	166	146
6LRH 25/19	30	22	45,1		281	276	268	258	247	232	215	196	175	154
6LRH 25/20	35	26	52,9		296	290	282	272	260	244	226	206	184	162
6LRH 25/21	35	26	52,9		311	305	296	286	273	256	237	216	193	170
6LRH 25/22	35	26	52,9		326	319	310	299	286	268	249	227	202	178
6LRH 25/23	35	26	52,9		340	334	324	313	299	281	260	237	212	186
6LRH 25/24	40	30	61,1		355	348	338	326	312	293	271	247	221	194
6LRH 25/25	40	30	61,1	H (m)	370	363	353	340	325	305	283	258	230	203
6LRH 25/26	40	30	61,1		385	377	367	354	338	317	294	268	239	211
6LRH 25/27	50	37	75,8		400	392	381	367	351	329	305	278	248	219
6LRH 25/28	50	37	75,8		414	406	395	381	364	342	316	288	258	227
6LRH 25/29	50	37	75,8		429	421	409	394	377	354	328	299	267	235
6LRH 25/30	50	37	75,8		444	435	423	408	390	366	339	309	276	243
6LRH 25/31	50	37	75,8		459	450	437	422	403	378	350	319	285	251
6LRH 25/32	50	37	75,8		474	464	451	435	416	390	362	330	294	259
6LRH 25/33	50	37	75,8		488	479	465	449	429	403	373	340	304	267

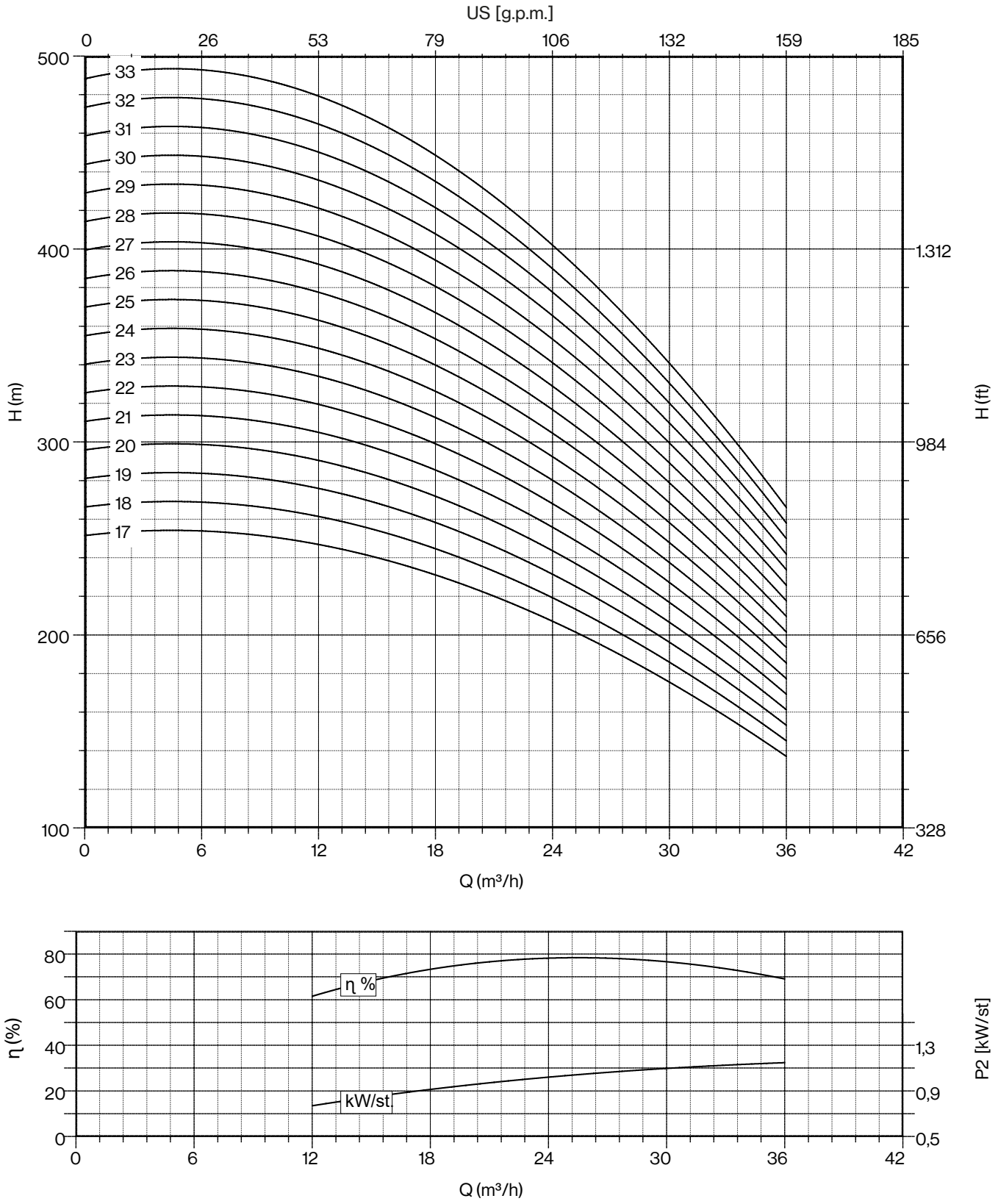
Max Eff. %	78,5
Max kW / St.	1,15

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	4,5	6,6



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 25/17		2445	1374	1071	92	78
6LRH 25/18		2512	1441	1071	92	82
6LRH 25/19		2579	1508	1071	92	86
6LRH 25/20		2756	1575	1181	100	90
6LRH 25/21		2823	1642	1181	100	94
6LRH 25/22		2890	1709	1181	100	98
6LRH 25/23		2957	1776	1181	100	103
6LRH 25/24		3094	1843	1251	108	107
6LRH 25/25	6" NEMA	3161	1910	1251	108	111
6LRH 25/26		3228	1977	1251	108	115
6LRH 25/27		3385	2044	1341	118	119
6LRH 25/28		3452	2111	1341	118	123
6LRH 25/29		3519	2178	1341	118	127
6LRH 25/30		3586	2245	1341	118	132
6LRH 25/31		3653	2312	1341	118	136
6LRH 25/32		3720	2379	1341	118	140
6LRH 25/33		3787	2446	1341	118	144

6LRH 25



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q										
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	250	300	350	400	450	500	550	600	650	700
	P2		CURRENT	l/sec	0,0	4,2	5,0	5,8	6,7	7,5	8,3	9,2	10,0	10,8	11,7
	HP	kW	A	m³/h	0	15	18	21	24	27	30	33	36	39	42
6LRH 32/01	2	1,5	4,6		15	15	15	14	14	13	12	11	10	9	8
6LRH 32/02	4	3	8,3		31	30	29	28	27	26	24	22	20	18	15
6LRH 32/03	5,5	4	9,6		46	45	44	42	41	38	36	33	30	26	23
6LRH 32/04	7,5	5,5	13,6		61	60	59	56	54	51	48	44	40	35	30
6LRH 32/05	10	7,5	16,3		77	76	74	71	68	64	60	56	50	44	38
6LRH 32/06	12,5	9,2	19,9		92	91	88	85	81	77	72	67	60	53	45
6LRH 32/07	12,5	9,2	19,9	H	107	106	103	99	95	90	84	78	70	62	53
6LRH 32/08	15	11	23,4	(m)	122	121	118	113	108	102	96	89	80	70	60
6LRH 32/09	17,5	13	27,3		138	136	132	127	122	115	108	100	90	79	68
6LRH 32/10	20	15	31,5		153	151	147	141	135	128	120	111	100	88	75
6LRH 32/11	20	15	31,5		168	166	162	155	149	141	132	122	110	97	83
6LRH 32/12	25	18,5	38,3		184	181	176	169	162	154	144	133	120	106	90
6LRH 32/13	25	18,5	38,3		199	196	191	183	176	166	156	144	130	114	98
6LRH 32/14	25	18,5	38,3		214	211	206	197	189	179	168	155	140	123	105

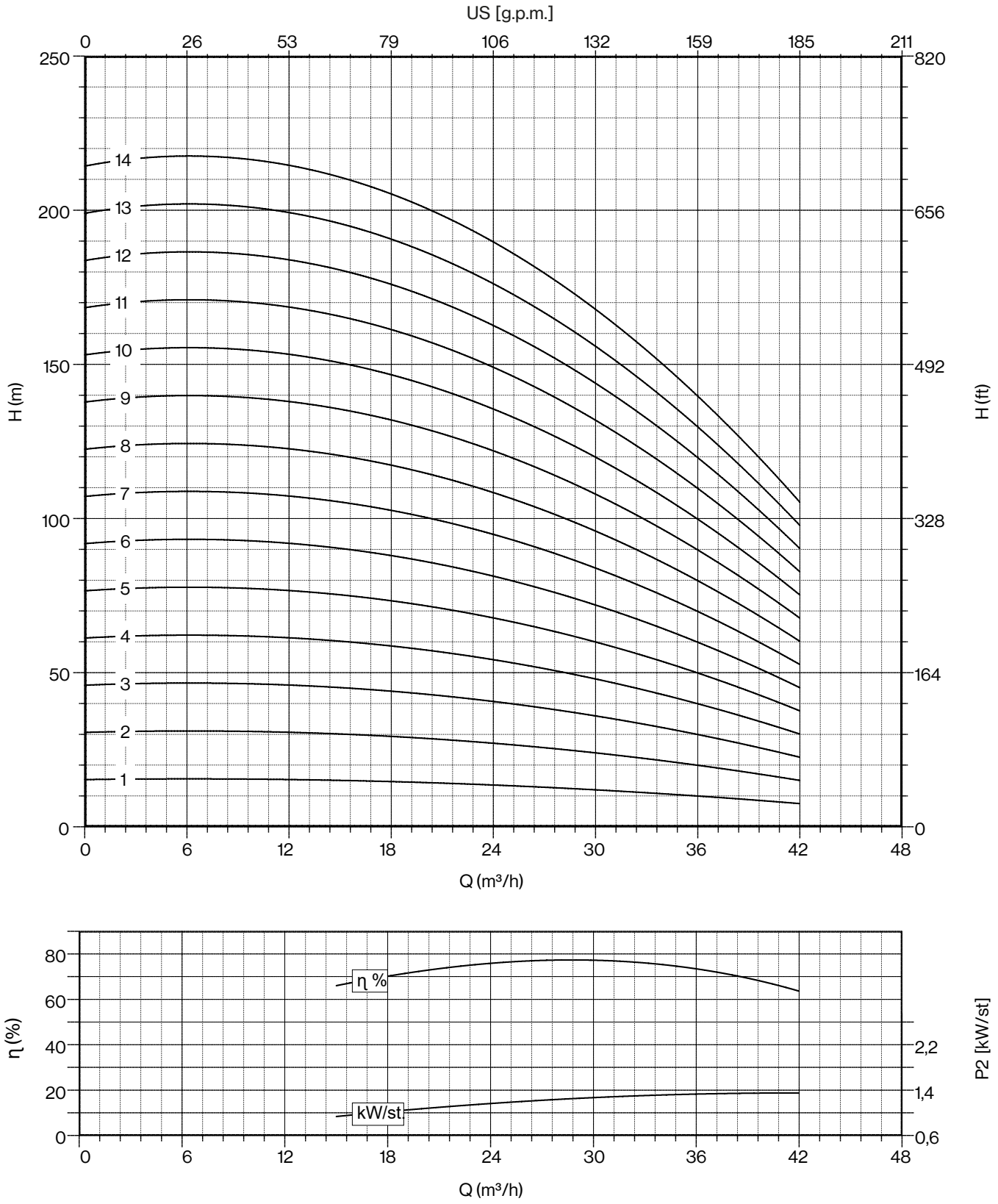
Max Eff. %	77,5
Max kW / St.	1,35

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,9	7,5



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 32/01-4	4" NEMA	687	302	385	10,4	11
6LRH 32/02-4		787	369	418	12,8	15
6LRH 32/03-4		904	436	468	15,3	20
6LRH 32/04-4		1041	503	538	18,6	24
6LRH 32/05	6" NEMA	1271	570	701	55	28
6LRH 32/06		1388	637	751	60	32
6LRH 32/07		1455	704	751	60	36
6LRH 32/08		1582	771	811	65	40
6LRH 32/09		1679	838	841	70	44
6LRH 32/10		1836	905	931	75	49
6LRH 32/11		1903	972	931	75	53
6LRH 32/12		2030	1039	991	83	57
6LRH 32/13		2097	1106	991	83	61
6LRH 32/14		2164	1173	991	83	65

6LRH 32



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q										
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	250	300	350	400	450	500	550	600	650	700
	P2		CURRENT	l/sec	0,0	4,2	5,0	5,8	6,7	7,5	8,3	9,2	10,0	10,8	11,7
	HP	kW	A	m³/h	0	15	18	21	24	27	30	33	36	39	42
6LRH 32/15	30	22	45,1		230	227	221	212	203	192	180	167	150	132	113
6LRH 32/16	30	22	45,1		245	242	235	226	216	205	192	178	160	141	120
6LRH 32/17	35	26	52,9		260	257	250	240	230	218	204	189	170	150	128
6LRH 32/18	35	26	52,9		275	272	265	254	243	230	216	200	180	158	135
6LRH 32/19	35	26	52,9		291	287	279	268	257	243	228	211	190	167	143
6LRH 32/20	40	30	61,1		306	302	294	282	270	256	240	222	200	176	150
6LRH 32/21	40	30	61,1	H	321	317	309	296	284	269	252	233	210	185	158
6LRH 32/22	40	30	61,1	(m)	337	332	323	310	297	282	264	244	220	194	165
6LRH 32/23	50	37	75,8		352	347	338	324	311	294	276	255	230	202	173
6LRH 32/24	50	37	75,8		367	362	353	338	324	307	288	266	240	211	180
6LRH 32/25	50	37	75,8		383	378	368	353	338	320	300	278	250	220	188
6LRH 32/26	50	37	75,8		398	393	382	367	351	333	312	289	260	229	195
6LRH 32/27	50	37	75,8		413	408	397	381	365	346	324	300	270	238	203
6LRH 32/28	50	37	75,8		428	423	412	395	378	358	336	311	280	246	210

Max Eff. %	77,5
Max kW / St.	1,35

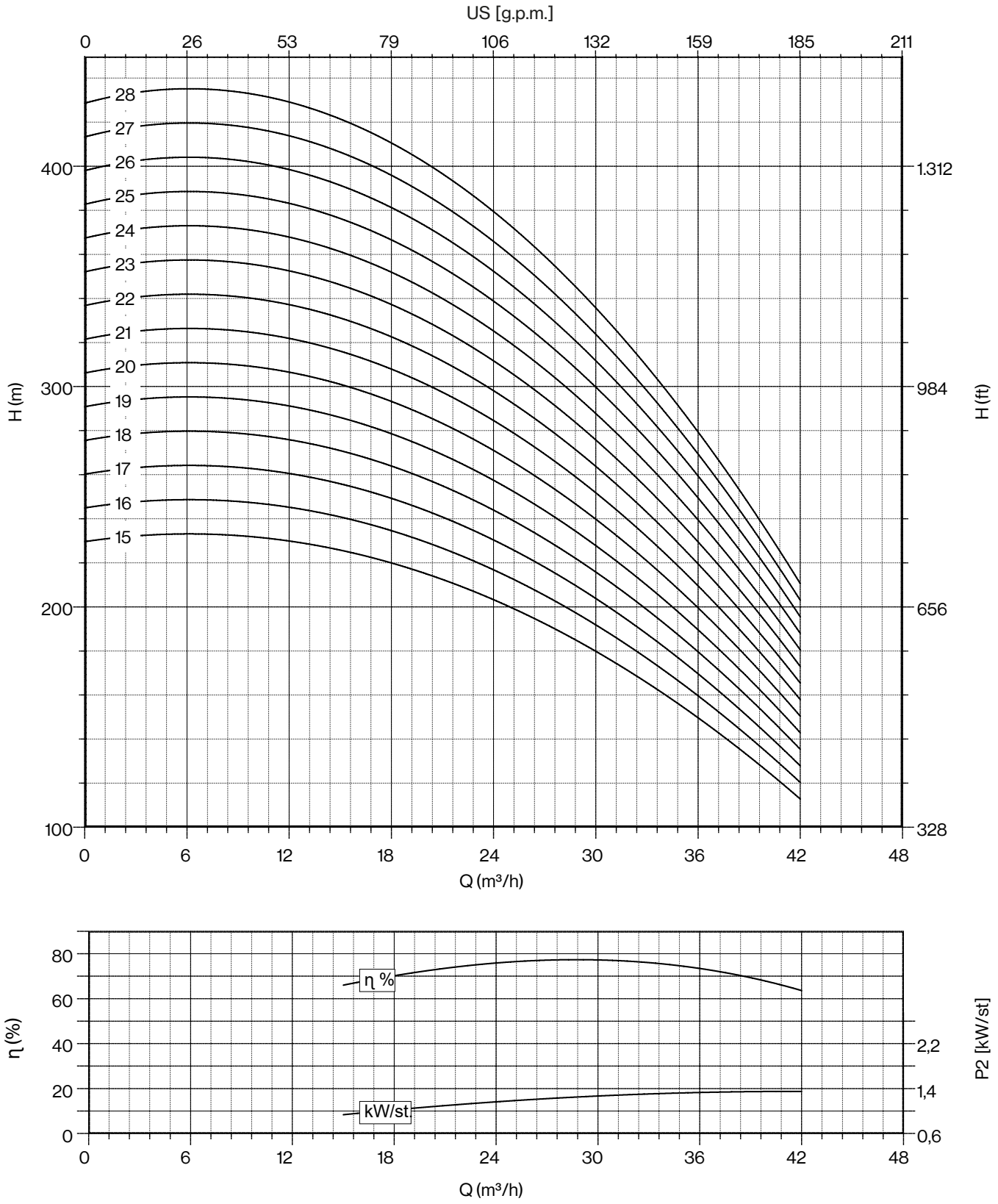
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,9	7,5



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LRH 32/15	6" NEMA	2311	1240	1071	92	69
6LRH 32/16		2378	1307	1071	92	74
6LRH 32/17		2555	1374	1181	100	78
6LRH 32/18		2622	1441	1181	100	82
6LRH 32/19		2689	1508	1181	100	86
6LRH 32/20		2826	1575	1251	108	90
6LRH 32/21		2893	1642	1251	108	94
6LRH 32/22		2960	1709	1251	108	98
6LRH 32/23		3117	1776	1341	118	103
6LRH 32/24		3184	1843	1341	118	107
6LRH 32/25		3251	1910	1341	118	111
6LRH 32/26		3318	1977	1341	118	115
6LRH 32/27		3385	2044	1341	118	119
6LRH 32/28		3452	2111	1341	118	123

** Coupled pump shaft*

6LRH 32

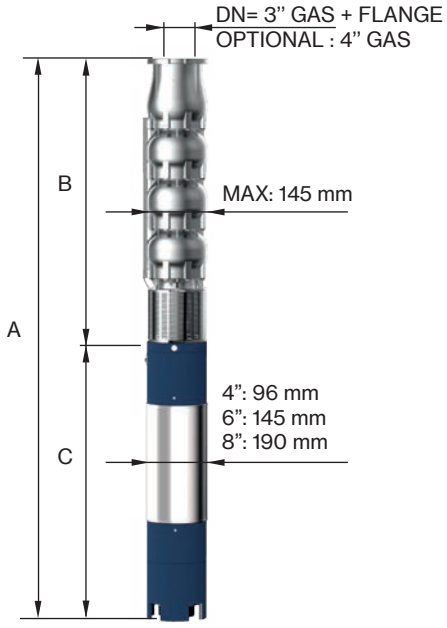


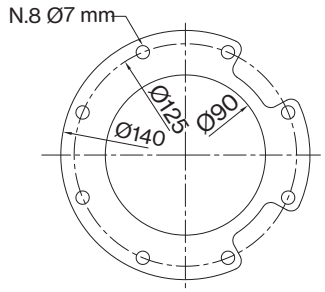
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	100	200	300	400	500	600	700	800
	P2		CURRENT	l/sec	0	1,7	3,3	5,0	6,7	8,3	10,0	11,7	13,3
	HP	kW	A	m³/h	0	6	12	18	24	30	36	42	48
6LM 38/01	2	1,5	4,0		14	14	13	13	12	11	10	9	7
6LM 38/02	4	3	7,5		29	27	26	25	24	23	20	17	14
6LM 38/03	5,5	4	10,0		43	41	39	38	36	34	31	26	20
6LM 38/04	7,5	5,5	12,5		57	55	52	51	48	45	41	35	27
6LM 38/05	10	7,5	16,3		71	69	65	64	60	56	51	44	34
6LM 38/06	12,5	9,2	19,9		86	82	78	76	72	68	61	52	41
6LM 38/07	15	11	23,4		100	96	91	89	84	79	71	61	48
6LM 38/08	15	11	23,4	H	114	110	104	102	96	90	81	70	55
6LM 38/09	17,5	13	27,3	(m)	129	123	117	114	108	102	92	78	61
6LM 38/10	20	15	31,5		143	137	130	127	120	113	102	87	68
6LM 38/11	20	15	31,5		157	151	143	140	132	124	112	96	75
6LM 38/12	25	18,5	38,3		172	164	156	152	144	136	122	104	82
6LM 38/13	25	18,5	38,3		186	178	169	165	156	147	132	113	89
6LM 38/14	30	22	45,1		200	192	182	178	168	158	143	122	95
6LM 38/15	30	22	45,1		214	206	195	191	180	169	153	131	102
6LM 38/16	30	22	45,1		229	219	208	203	192	181	163	139	109

Max Eff. %	76
Max kW / St.	1,33

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,8	8

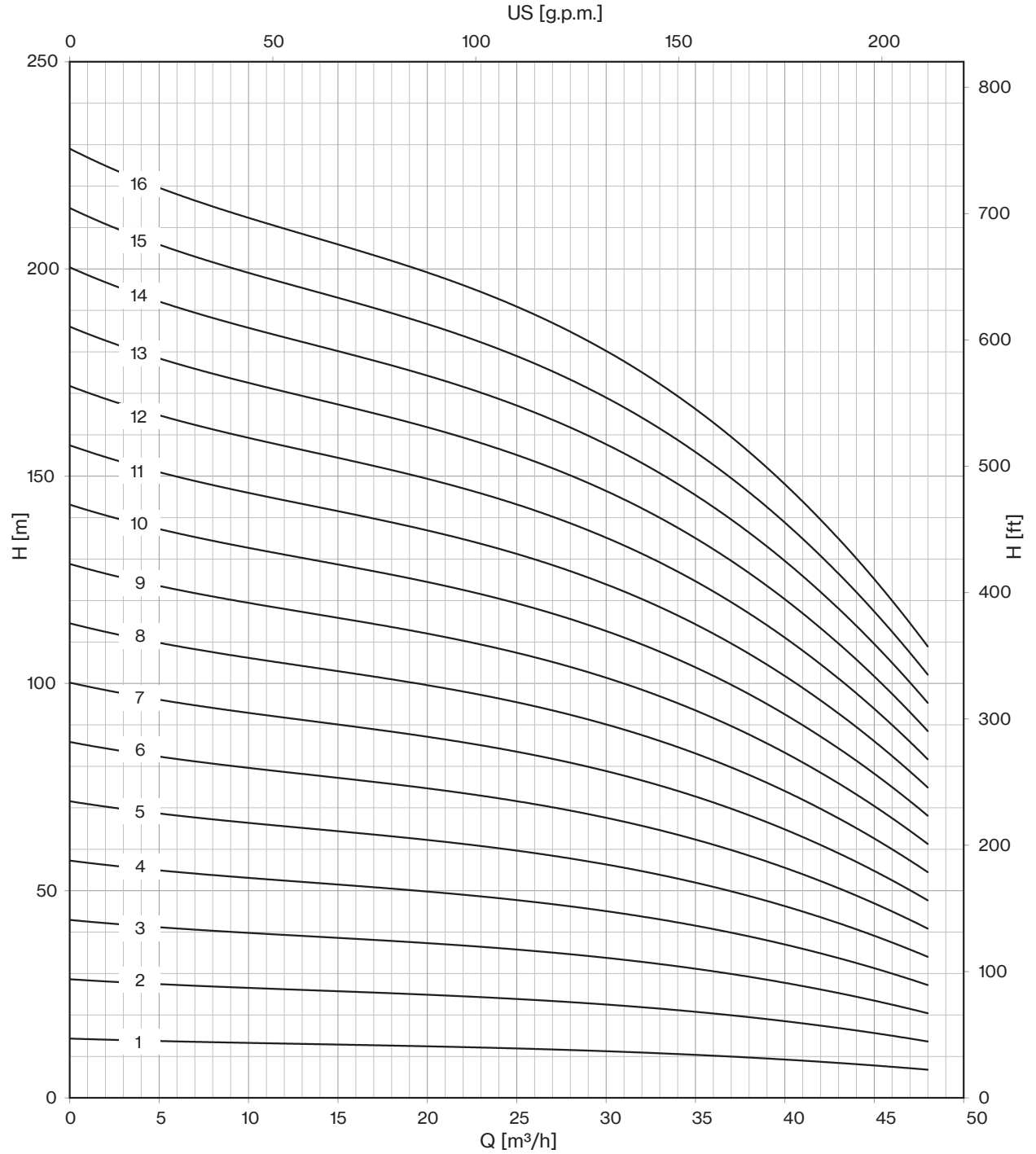


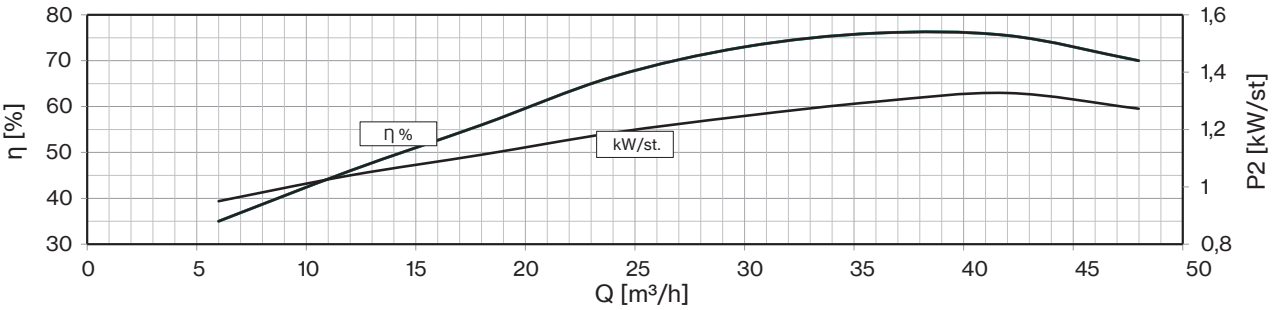


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 38/01-4		746	354	392	13	8
6LM 38/02-4		1012	455	557	19	12
6LM 38/03-4	4" NEMA	1153	556	597	22	15
6LM 38/04-4		1355	657	698	27	19
6LM 38/05-4		1499	798	701	55	23
6LM 38/06		1650	899	751	60	26
6LM 38/07		1811	1000	811	65	30
6LM 38/08		1912	1101	811	65	33
6LM 38/09		2043	1202	841	70	37
6LM 38/10		2234	1303	931	75	41
6LM 38/11	6" NEMA	2335	1404	931	75	44
6LM 38/12		2496	1505	991	83	48
6LM 38/13		2597	1606	991	83	51
6LM 38/14		2778	1707	1071	92	55
6LM 38/15		2879	1808	1071	92	59
6LM 38/16		2980	1909	1071	92	62

6LM 38



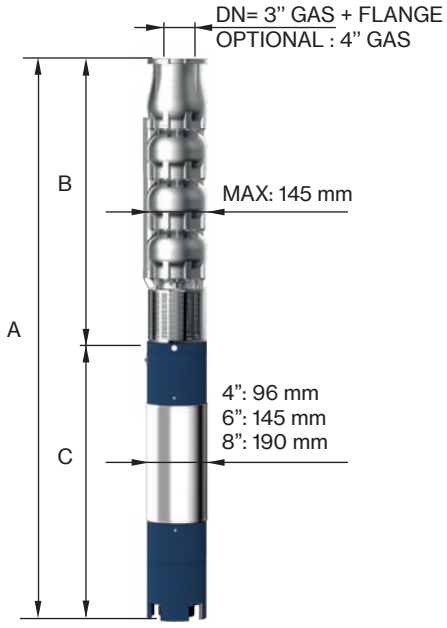


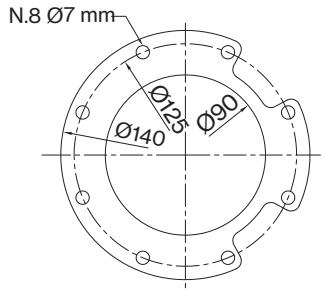
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	100	200	300	400	500	600	700	800
	P2		CURRENT	l/sec	0	1,7	3,3	5,0	6,7	8,3	10,0	11,7	13,3
	HP	kW	A	m³/h	0	6	12	18	24	30	36	42	48
6LM 38/17	35	26	52,9		243	233	221	216	204	192	173	148	116
6LM 38/18	35	26	52,9		257	247	234	229	216	203	183	157	123
6LM 38/19	35	26	52,9		272	260	247	241	228	215	194	165	129
6LM 38/20	40	30	61,1		286	274	260	254	240	226	204	174	136
6LM 38/21	40	30	61,1		300	288	273	267	252	237	214	183	143
6LM 38/22	40	30	61,1		315	301	286	279	264	249	224	191	150
6LM 38/23	50	37	75,8		329	315	299	292	276	260	234	200	157
6LM 38/24	50	37	75,8		343	329	312	305	288	271	244	209	164
6LM 38/25	50	37	75,8	H (m)	357	343	325	318	300	282	255	218	170
6LM 38/26	50	37	75,8		372	356	338	330	312	294	265	226	177
6LM 38/27	50	37	75,8		386	370	351	343	324	305	275	235	184
6LM 38/28	60	45	86,3		400	384	364	356	336	316	285	244	191
6LM 38/29	60	45	86,3		415	397	377	368	348	328	295	252	198
6LM 38/30	60	45	86,3		429	411	390	381	360	339	306	261	204
6LM 38/31	60	45	86,3		443	425	403	394	372	350	316	270	211
6LM 38/32	60	45	86,3		457	438	416	407	384	361	326	279	218
6LM 38/33	60	45	86,3		472	452	429	419	396	373	336	287	225

Max Eff. %	76
Max kW / St.	1,33

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	3,8	8

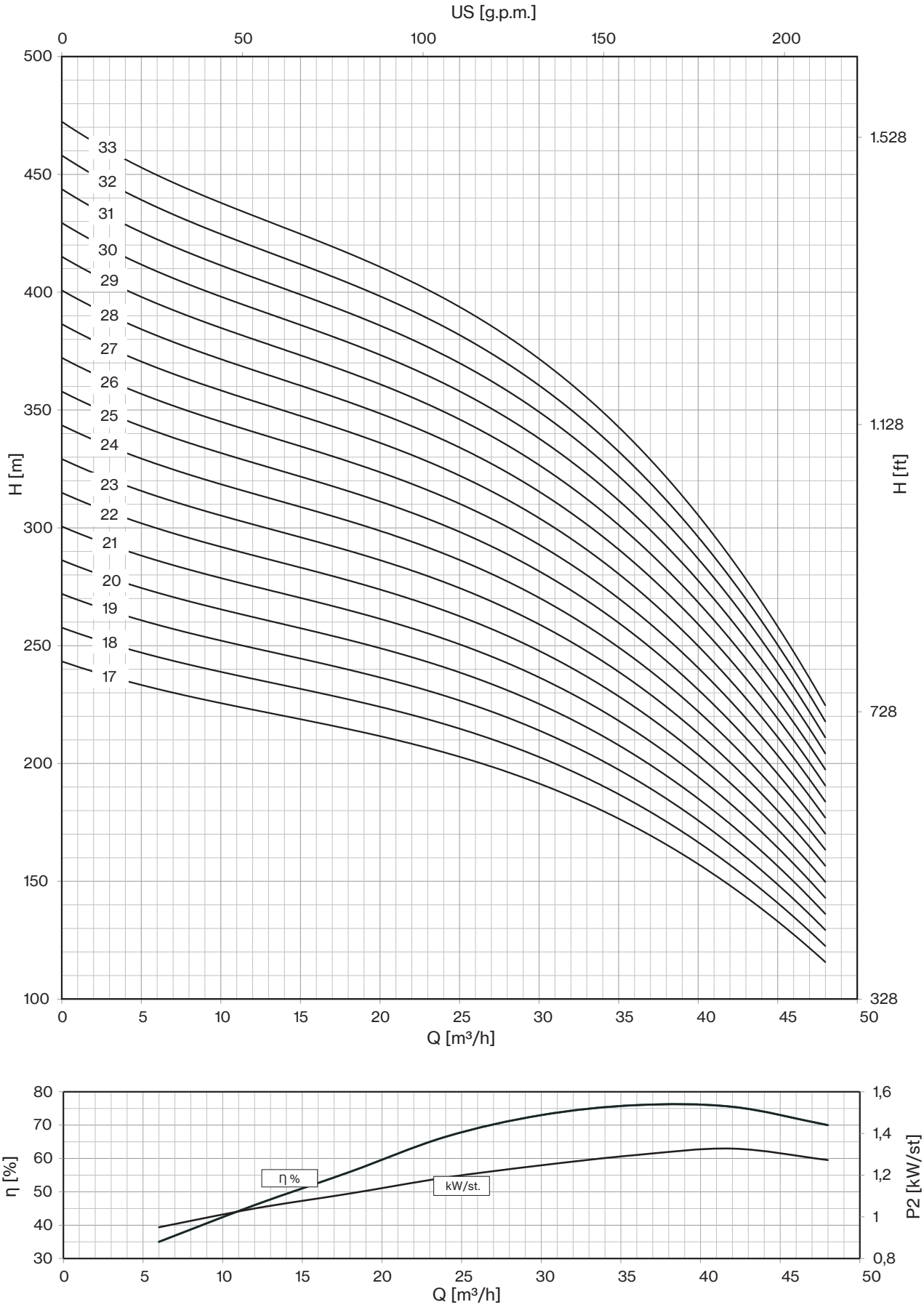




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 38/17	6" NEMA	3191	2010	1181	100	66
6LM 38/18		3292	2111	1181	100	69
6LM 38/19		3393	2212	1181	100	73
6LM 38/20		3564	2313	1251	108	77
6LM 38/21		3665	2414	1251	108	80
6LM 38/22		3766	2515	1251	108	84
6LM 38/23		3957	2616	1341	118	87
6LM 38/24		4058	2717	1341	118	91
6LM 38/25		4159	2818	1341	118	95
6LM 38/26		4260	2919	1341	118	98
6LM 38/27		4361	3020	1341	118	102
6LM 38/28		4311	3188	1123	178	109
6LM 38/29		4412	3289	1123	178	113
6LM 38/30		4513	3390	1123	178	116
6LM 38/31		4614	3491	1123	178	120
6LM 38/32		4715	3592	1123	178	124
6LM 38/33		4816	3693	1123	178	127

6LM 38

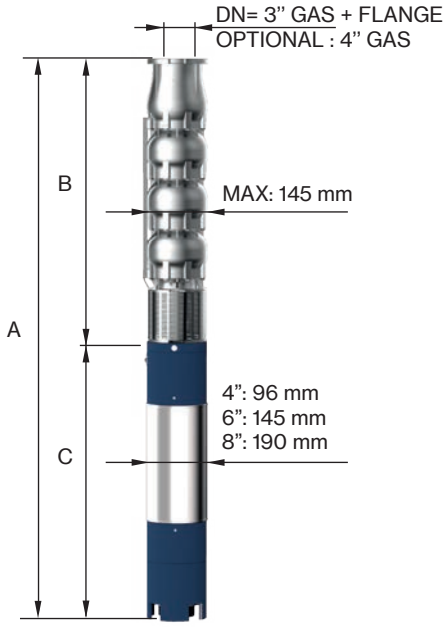


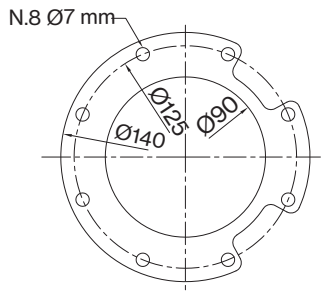
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	400	500	600	700	800	900	1000
	P2		CURRENT	l/sec	0	3,3	6,7	8,3	10,0	11,7	13,3	15,0	16,7
	HP	kW	A	m³/h	0	12	24	30	36	42	48	54	60
6LM 48/01	2	1,5	4,0		14	14	11	11	11	10	9	7	6
6LM 48/02	4	3	7,5		28	27	23	22	21	20	18	15	13
6LM 48/03	7,5	5,5	12,5		42	41	34	33	32	29	26	22	19
6LM 48/04	10	7,5	16,3		56	54	46	44	42	39	35	30	26
6LM 48/05	10	7,5	16,3		70	68	57	56	53	49	44	37	32
6LM 48/06	12,5	9,2	19,9		84	81	68	67	64	59	53	44	38
6LM 48/07	15	11	23,4		98	95	80	78	74	69	62	52	45
6LM 48/08	17,5	13	27,3	H	112	108	91	89	85	78	70	59	51
6LM 48/09	17,5	13	27,3	(m)	126	122	103	100	95	88	79	67	58
6LM 48/10	20	15	31,5		140	135	114	111	106	98	88	74	64
6LM 48/11	25	18,5	38,3		154	149	125	122	117	108	97	81	70
6LM 48/12	25	18,5	38,3		168	162	137	133	127	118	106	89	77
6LM 48/13	30	22	45,1		182	176	148	144	138	127	114	96	83
6LM 48/14	30	22	45,1		196	189	160	155	148	137	123	104	90
6LM 48/15	30	22	45,1		210	203	171	167	159	147	132	111	96
6LM 48/16	35	26	52,9		224	216	182	178	170	157	141	118	102

Max Eff. %	78,5
Max kW / St.	1,44

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,45	3,5	3,8	5

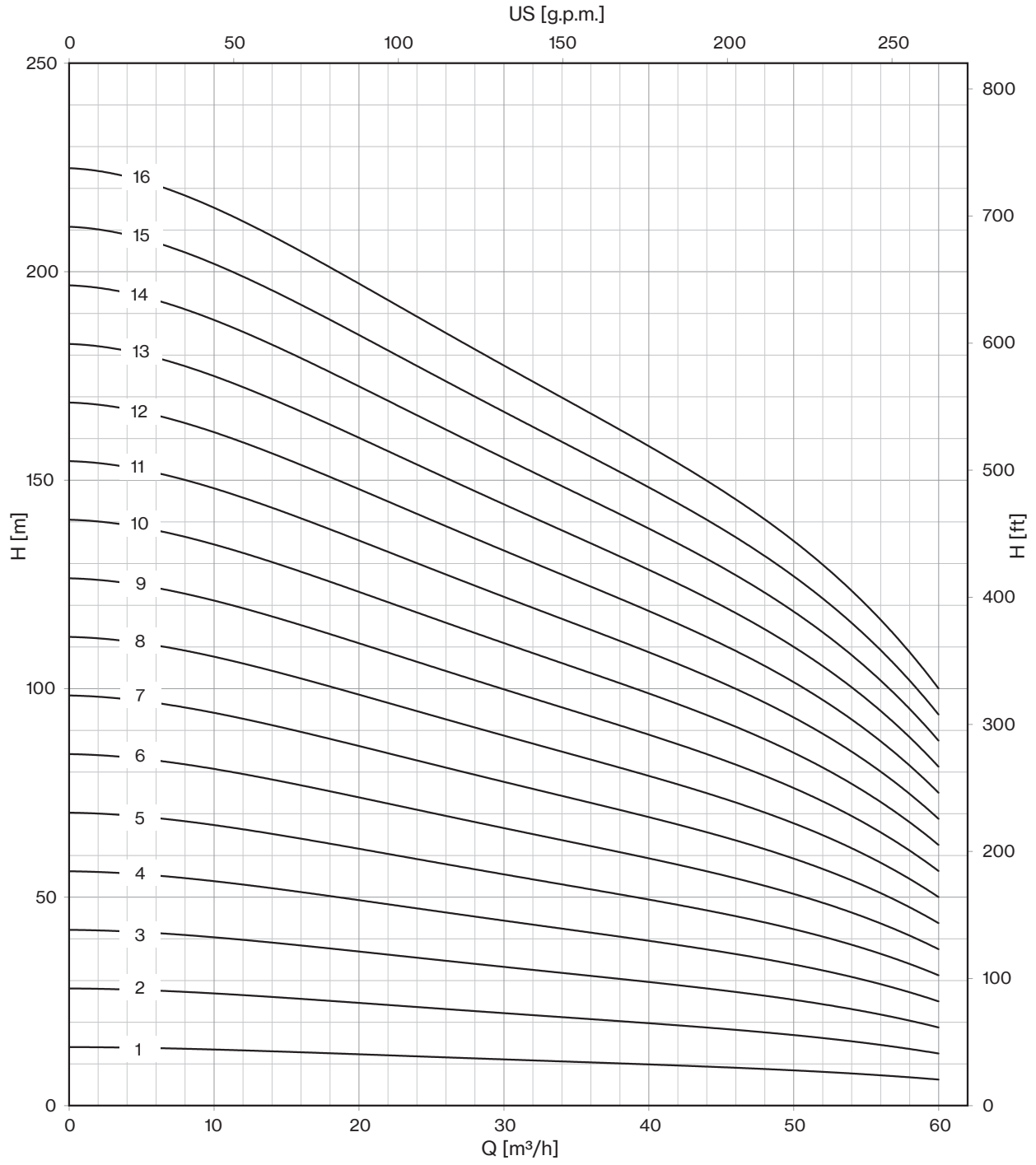


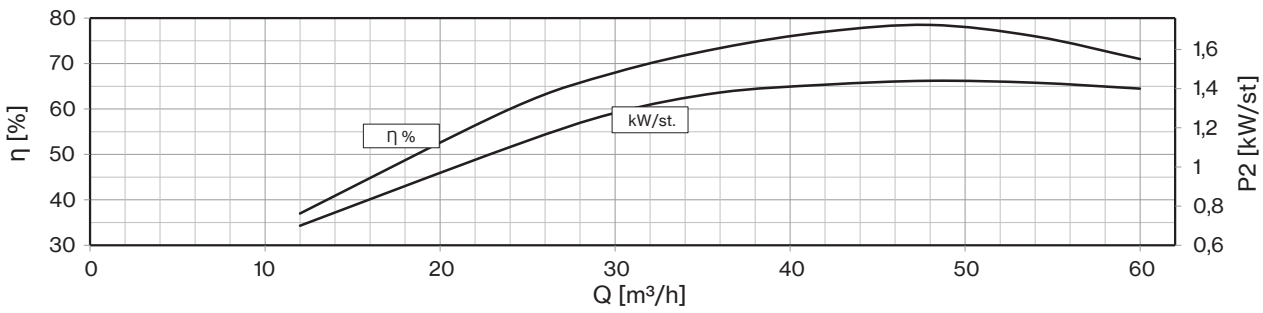


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 48/01-4	4" NEMA	746	354	392	13	8
6LM 48/02-4		1012	455	557	19	12
6LM 48/03-4		1254	556	698	27	15
6LM 48/04	6" NEMA	1358	657	701	55	19
6LM 48/05		1499	798	701	55	23
6LM 48/06		1650	899	751	60	26
6LM 48/07		1811	1000	811	65	30
6LM 48/08		1942	1101	841	70	33
6LM 48/09		2043	1202	841	70	37
6LM 48/10		2234	1303	931	75	41
6LM 48/11		2395	1404	991	83	44
6LM 48/12		2496	1505	991	83	48
6LM 48/13		2677	1606	1071	92	51
6LM 48/14		2778	1707	1071	92	55
6LM 48/15		2879	1808	1071	92	59
6LM 48/16		3090	1909	1181	100	62

6LM 48



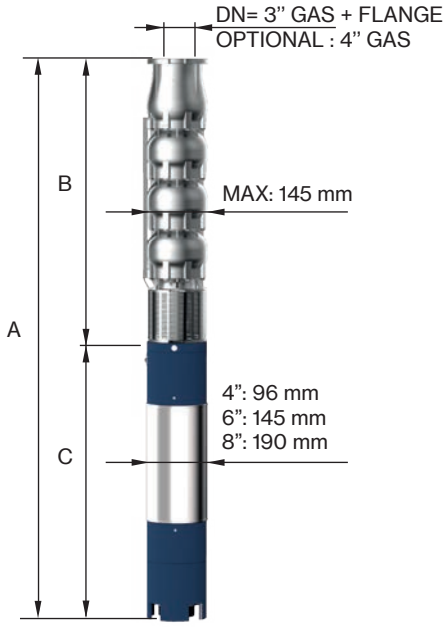


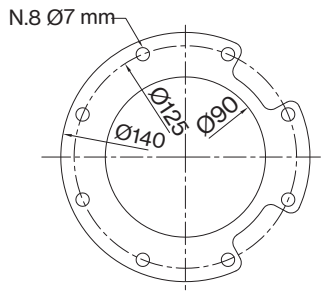
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	400	500	600	700	800	900	1000
	P2		CURRENT	l/sec	0	3,3	6,7	8,3	10,0	11,7	13,3	15,0	16,7
	HP	kW	A	m³/h	0	12	24	30	36	42	48	54	60
6LM 48/17	35	26	52,9		238	230	194	189	180	167	150	126	109
6LM 48/18	35	26	52,9		252	243	205	200	191	176	158	133	115
6LM 48/19	40	30	61,1		266	257	217	211	201	186	167	141	122
6LM 48/20	40	30	61,1		280	270	228	222	212	196	176	148	128
6LM 48/21	50	37	75,8		294	284	239	233	223	206	185	155	134
6LM 48/22	50	37	75,8		308	297	251	244	233	216	194	163	141
6LM 48/23	50	37	75,8	H	322	311	262	255	244	225	202	170	147
6LM 48/24	50	37	75,8	(m)	336	324	274	266	254	235	211	178	154
6LM 48/25	50	37	75,8		350	338	285	278	265	245	220	185	160
6LM 48/26	60	45	86,3		364	351	296	289	276	255	229	192	166
6LM 48/27	60	45	86,3		378	365	308	300	286	265	238	200	173
6LM 48/28	60	45	86,3		392	378	319	311	297	274	246	207	179
6LM 48/29	60	45	86,3		406	392	331	322	307	284	255	215	186
6LM 48/30	60	45	86,3		420	405	342	333	318	294	264	222	192

Max Eff. %	78,5
Max kW / St.	1,44

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,45	3,5	3,8	5

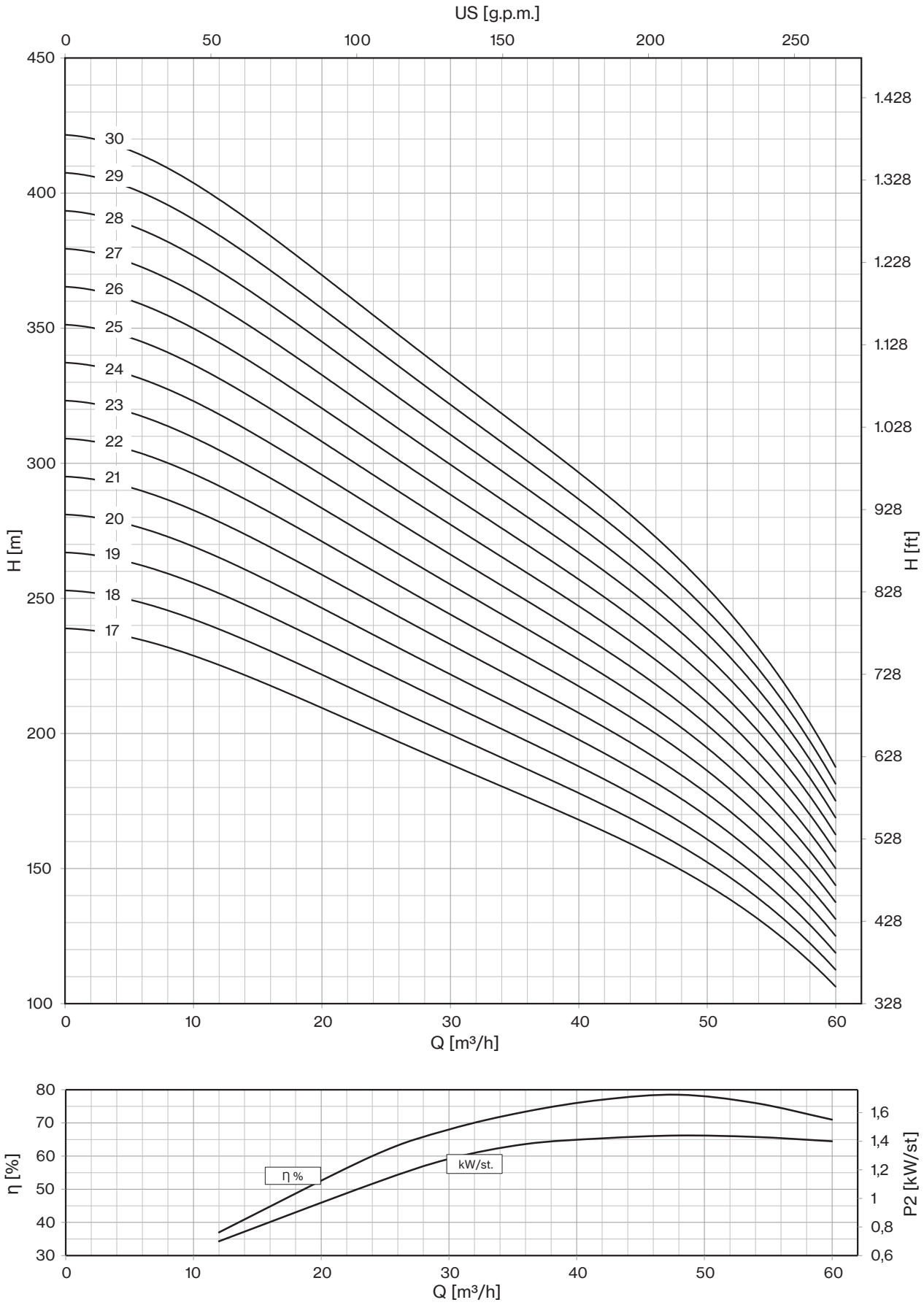




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 48/17	6" NEMA	3191	2010	1181	100	66
6LM 48/18		3292	2111	1181	100	69
6LM 48/19		3463	2212	1251	108	73
6LM 48/20		3564	2313	1251	108	77
6LM 48/21		3755	2414	1341	118	80
6LM 48/22		3856	2515	1341	118	84
6LM 48/23		3957	2616	1341	118	87
6LM 48/24		4058	2717	1341	118	91
6LM 48/25		4159	2818	1341	118	95
6LM 48/26		4109	2986	1123	178	102
6LM 48/27		4210	3087	1123	178	106
6LM 48/28		4311	3188	1123	178	109
6LM 48/29		4412	3289	1123	178	113
6LM 48/30		4513	3390	1123	178	116

6LM 48

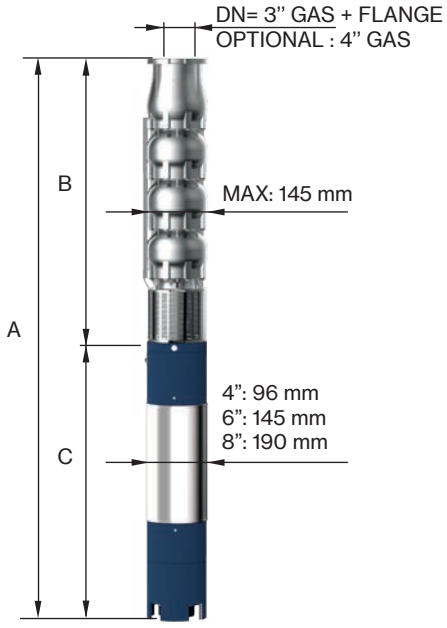


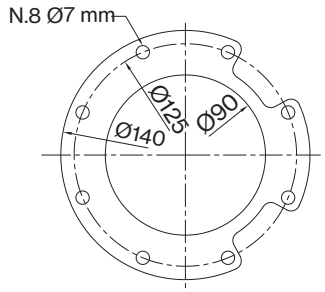
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	600	700	800	900	1000	1100	1200
	P2		CURRENT	l/sec	0	5,0	10,0	11,7	13,3	15,0	16,7	18,3	20,0
	HP	kW	A	m³/h	0	18	36	42	48	54	60	66	72
6LM 60/01	3	2	5,50		14	12	10	10	9	9	8	7	6
6LM 60/02	5,5	4	10,00		27	25	21	19	18	17	16	14	12
6LM 60/03	7,5	5,5	12,50		41	37	31	29	27	26	23	21	18
6LM 60/04	10	7,5	16,30		55	49	41	38	36	34	31	28	24
6LM 60/05	12,5	9,2	19,90		69	62	52	48	46	43	39	35	30
6LM 60/06	15	11	23,40		82	74	62	58	55	51	47	41	36
6LM 60/07	17,5	13	27,30		96	86	72	67	64	60	55	48	42
6LM 60/08	20	15	31,50	H	110	98	82	77	73	68	62	55	48
6LM 60/09	20	15	31,50	(m)	123	111	93	86	82	77	70	62	54
6LM 60/10	25	18,5	38,30		137	123	103	96	91	85	78	69	60
6LM 60/11	25	18,5	38,30		151	135	113	106	100	94	86	76	66
6LM 60/12	30	22	45,10		164	148	124	115	109	102	94	83	72
6LM 60/13	30	22	45,10		178	160	134	125	118	111	101	90	78
6LM 60/14	35	26	52,90		192	172	144	134	127	119	109	97	84
6LM 60/15	35	26	52,90		206	185	155	144	137	128	117	104	90
6LM 60/16	40	30	61,10		219	197	165	154	146	136	125	110	96

Max Eff. %	77
Max kW / St.	1,65

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

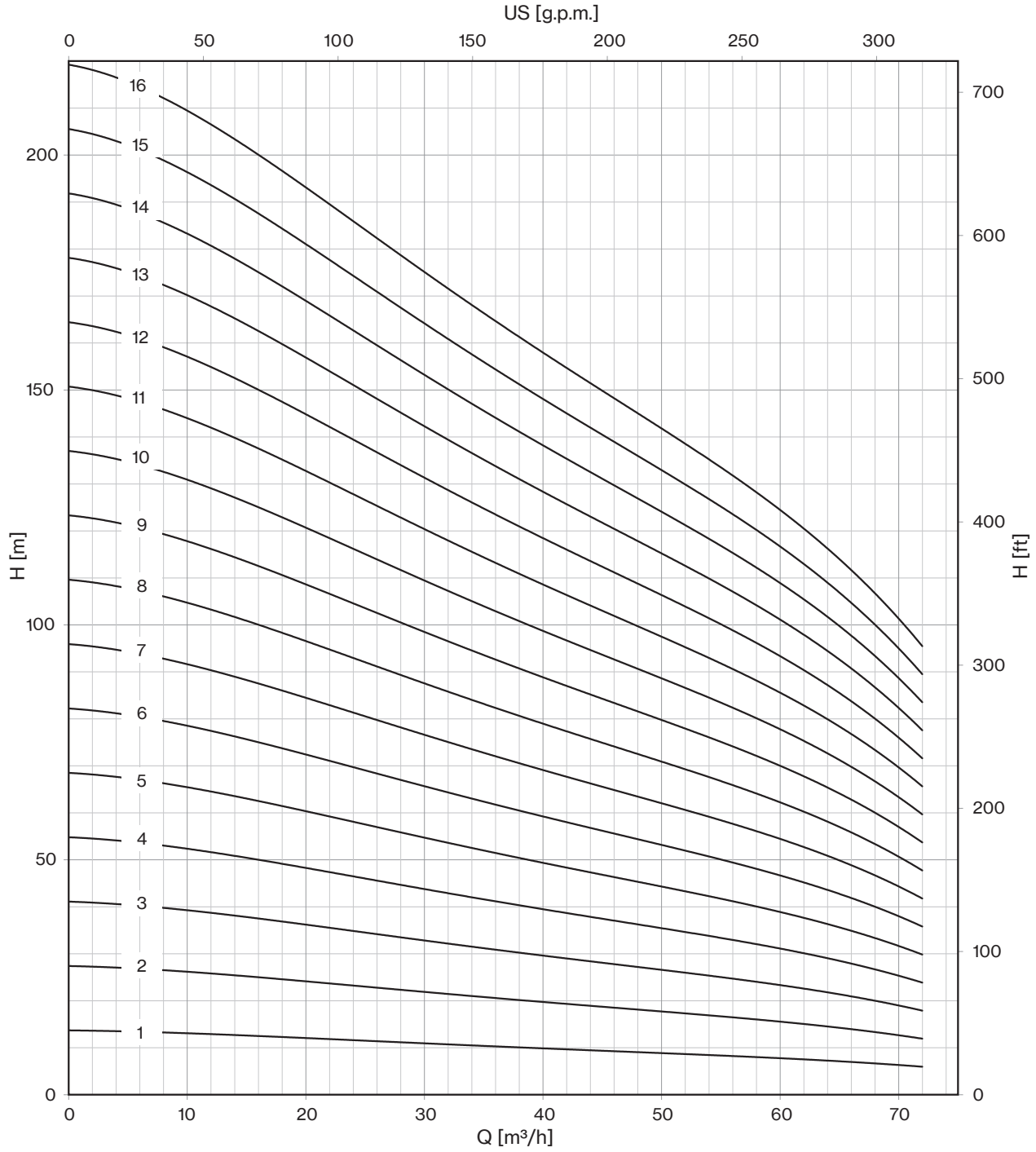


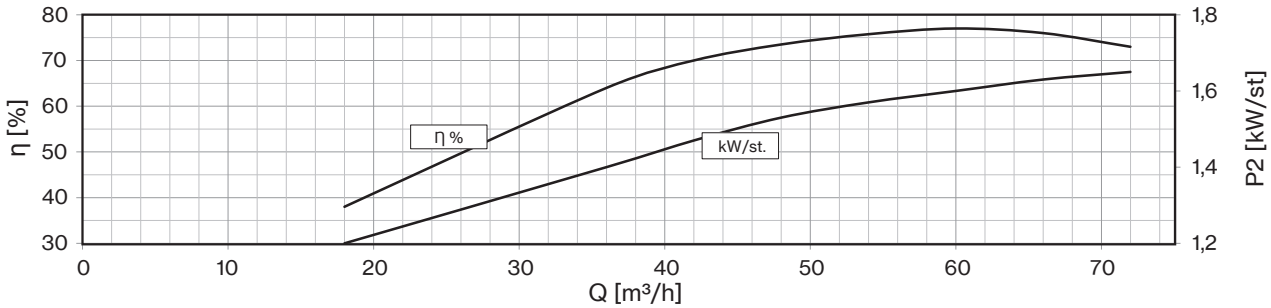


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 60/01-4	4" NEMA	812	360	452	15	8
6LM 60/02-4		1064	467	597	22	12
6LM 60/03-4		1272	574	698	27	16
6LM 60/04	6" NEMA	1422	721	701	55	20
6LM 60/05		1579	828	751	60	24
6LM 60/06		1746	935	811	65	27
6LM 60/07		1883	1042	841	70	31
6LM 60/08		2080	1149	931	75	35
6LM 60/09		2187	1256	931	75	39
6LM 60/10		2354	1363	991	83	43
6LM 60/11		2461	1470	991	83	46
6LM 60/12		2648	1577	1071	92	50
6LM 60/13		2755	1684	1071	92	54
6LM 60/14		2972	1791	1181	100	58
6LM 60/15		3079	1898	1181	100	62
6LM 60/16		3256	2005	1251	108	65

6LM 60



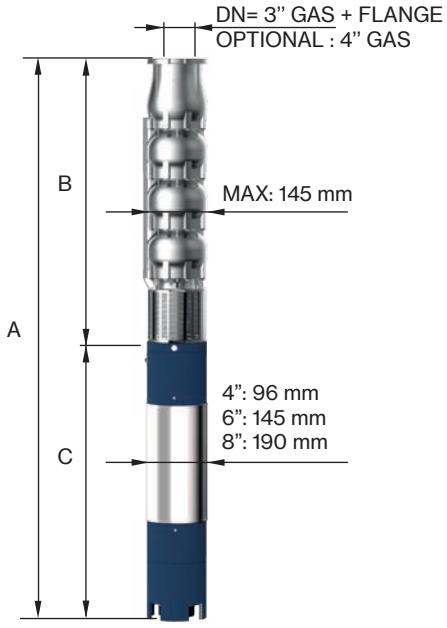


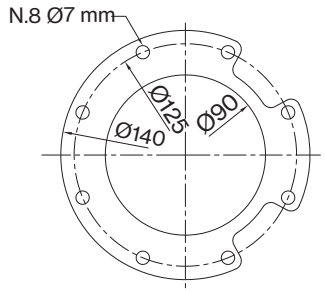
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	600	700	800	900	1000	1100	1200
	P2		CURRENT	l/sec	0	5,0	10,0	11,7	13,3	15,0	16,7	18,3	20,0
	HP	kW	A	m³/h	0	18	36	42	48	54	60	66	72
6LM 60/17	40	30	61,1	H (m)	233	209	175	163	155	145	133	117	102
6LM 60/18	40	30	61,1		247	221	185	173	164	153	140	124	108
6LM 60/19	50	37	75,8		260	234	196	182	173	162	148	131	114
6LM 60/20	50	37	75,8		274	246	206	192	182	170	156	138	120
6LM 60/21	50	37	75,8		288	258	216	202	191	179	164	145	126
6LM 60/22	50	37	75,8		301	271	227	211	200	187	172	152	132
6LM 60/23	60	45	86,3		315	283	237	221	209	196	179	159	138
6LM 60/24	60	45	86,3		329	295	247	230	218	204	187	166	144
6LM 60/25	60	45	86,3		343	308	258	240	228	213	195	173	150
6LM 60/26	60	45	86,3		356	320	268	250	237	221	203	179	156
6LM 60/27	60	45	86,3		370	332	278	259	246	230	211	186	162
6LM 60/28	75	55	106,2		384	344	288	269	255	238	218	193	168
6LM 60/29	75	55	106,2		397	357	299	278	264	247	226	200	174
6LM 60/30	75	55	106,2		411	369	309	288	273	255	234	207	180
6LM 60/31	75	55	106,2		425	381	319	298	282	264	242	214	186
6LM 60/32	75	55	106,2		438	394	330	307	291	272	250	221	192
6LM 60/33	75	55	106,2		452	406	340	317	300	281	257	228	198

Max Eff. %	77
Max kW / St.	1,65

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

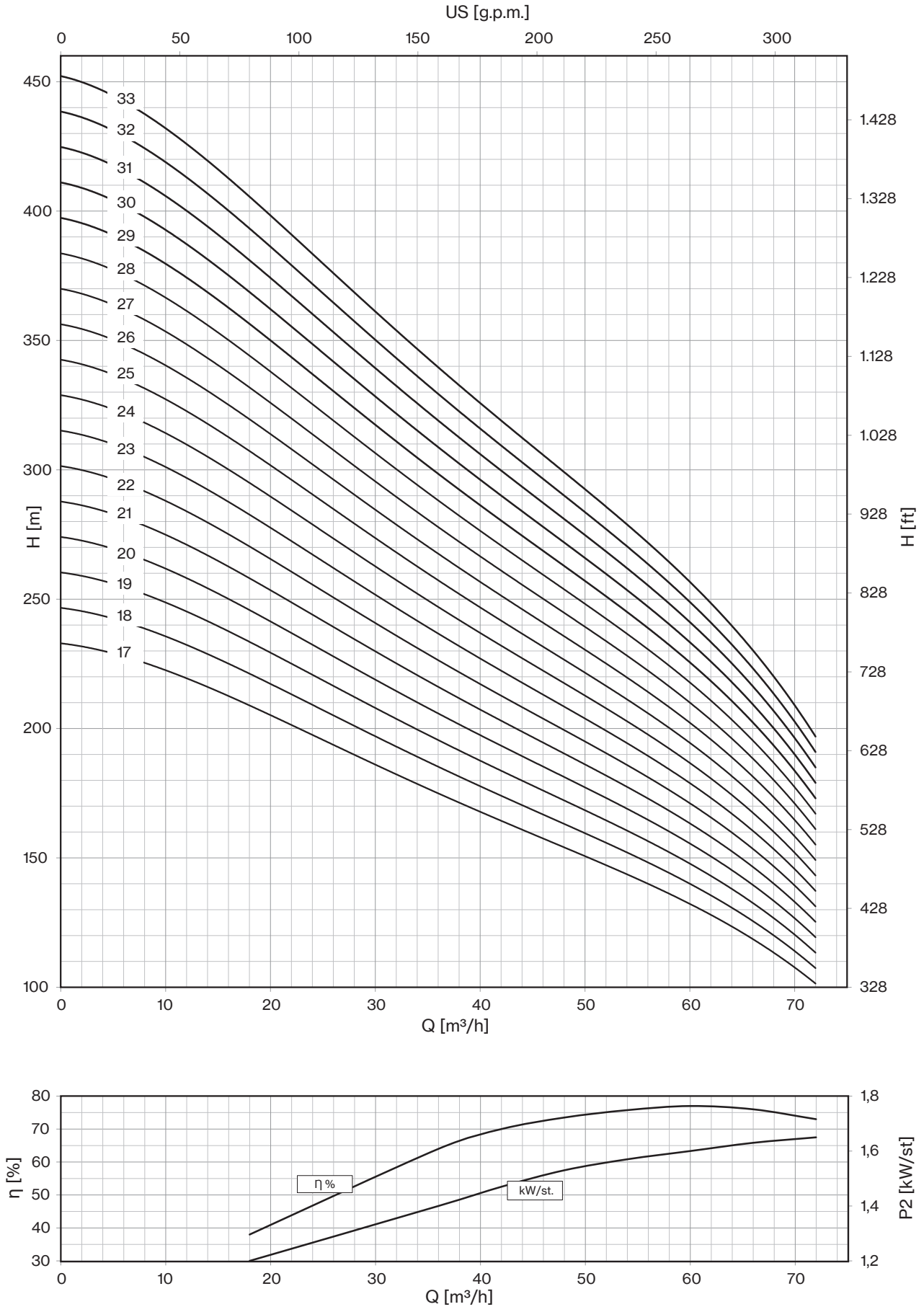




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 60/17	6" NEMA	3363	2112	1251	108	69
6LM 60/18		3470	2219	1251	108	73
6LM 60/19		3667	2326	1341	118	77
6LM 60/20		3774	2433	1341	118	81
6LM 60/21		3881	2540	1341	118	84
6LM 60/22		3988	2647	1341	118	88
6LM 60/23		3944	2821	1123	178	96
6LM 60/24		4051	2928	1123	178	100
6LM 60/25		4158	3035	1123	178	103
6LM 60/26		4265	3142	1123	178	107
6LM 60/27		4372	3249	1123	178	111
6LM 60/28		4589	3356	1233	200	115
6LM 60/29		4696	3463	1233	200	119
6LM 60/30		4803	3570	1233	200	122
6LM 60/31		4910	3677	1233	200	126
6LM 60/32		5017	3784	1233	200	130
6LM 60/33		5124	3891	1233	200	134

6LM 60

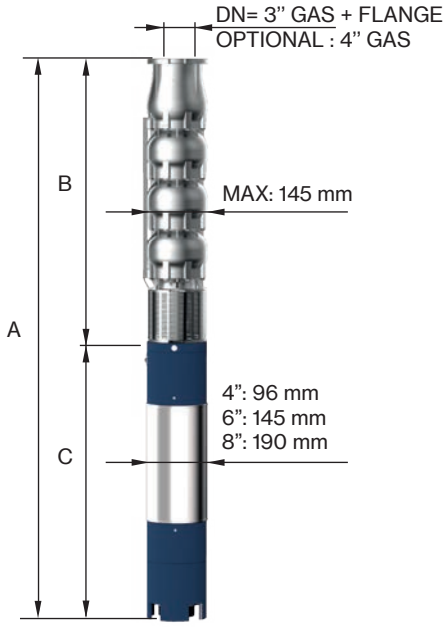


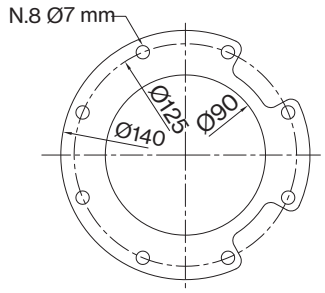
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	900	1000	1100	1200	1300	1400	1500
	P2		CURRENT	l/sec	0	5,0	15,0	16,7	18,3	20,0	21,7	23,3	25,0
	HP	kW	A	m³/h	0	18	54	60	66	72	78	84	90
6LM 70/01	3	2,2	5,5	H (m)	13	12	10	9	9	9	8	7	6
6LM 70/02	7,5	5,5	12,5		26	24	19	19	18	17	15	13	11
6LM 70/03	10	7,5	16,3		39	36	29	28	27	26	23	20	17
6LM 70/04	12,5	9,2	19,9		52	48	38	38	36	34	30	26	22
6LM 70/05	15	11	23,4		66	61	48	47	46	43	38	33	28
6LM 70/06	20	15	31,5		79	73	57	56	55	51	46	40	34
6LM 70/07	25	18,5	38,3		92	85	67	66	64	60	53	46	39
6LM 70/08	25	18,5	38,3		105	97	76	75	73	68	61	53	45
6LM 70/09	30	22	45,1		118	109	86	85	82	77	68	59	50
6LM 70/10	30	22	45,1		131	121	96	94	91	85	76	66	56
6LM 70/11	35	26	52,9		144	133	105	103	100	94	84	73	62
6LM 70/12	40	30	61,1		157	145	115	113	109	102	91	79	67
6LM 70/13	40	30	61,1		170	157	124	122	118	111	99	86	73

Max Eff. %	76
Max kW / St.	2,18

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

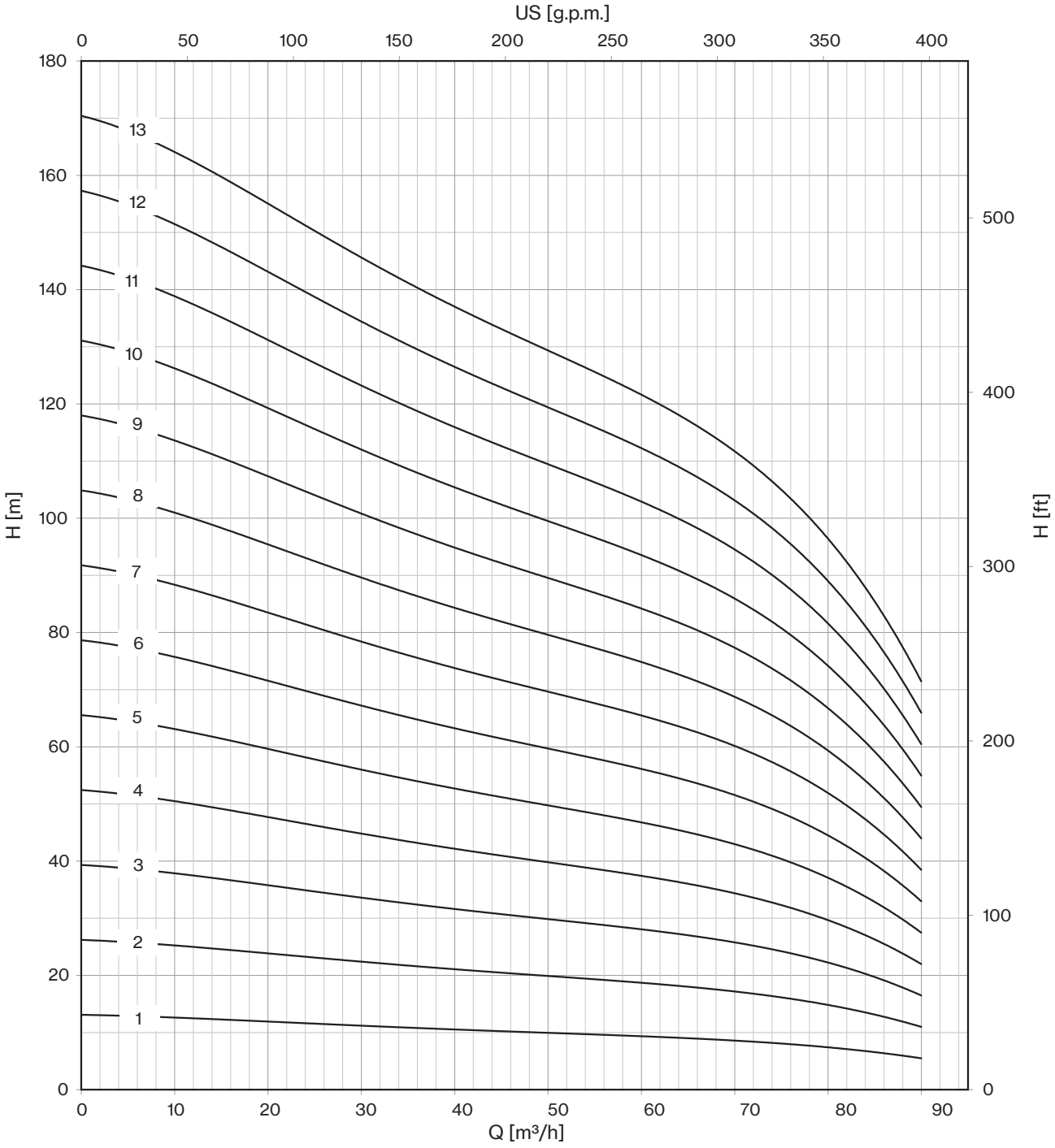


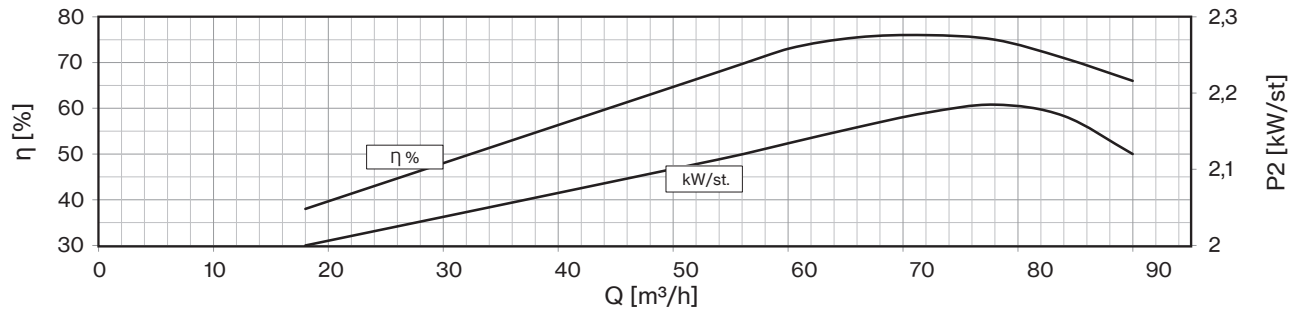


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 70/01-4	4" NEMA	812	360	452	15	8
6LM 70/02-4		1165	467	698	27	12
6LM 70/03	6" NEMA	1315	614	701	55	16
6LM 70/04		1472	721	751	60	20
6LM 70/05		1639	828	811	65	24
6LM 70/06		1866	935	931	75	27
6LM 70/07		2033	1042	991	83	31
6LM 70/08		2140	1149	991	83	35
6LM 70/09		2327	1256	1071	92	39
6LM 70/10		2434	1363	1071	92	43
6LM 70/11		2651	1470	1181	100	46
6LM 70/12		2828	1577	1251	108	50
6LM 70/13		2935	1684	1251	108	54

6LM 70



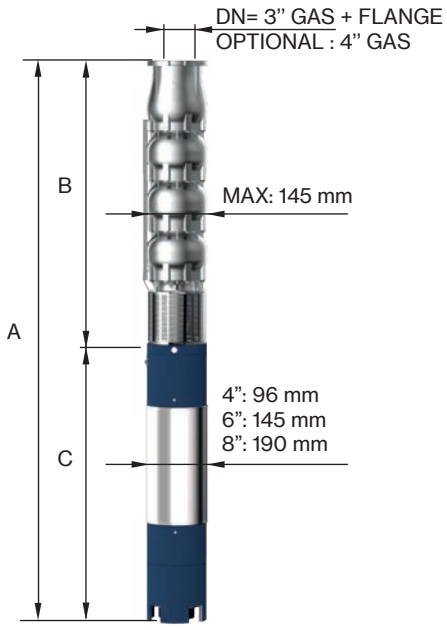


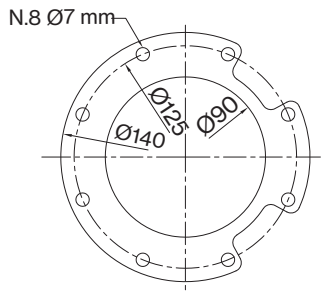
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	900	1000	1100	1200	1300	1400	1500
	P2		CURRENT	l/sec	0	5,0	15,0	16,7	18,3	20,0	21,7	23,3	25,0
	HP	kW	A	m³/h	0	18	54	60	66	72	78	84	90
6LM 70/14	50	37	75,8		183	169	134	132	127	119	106	92	78
6LM 70/15	50	37	75,8		197	182	143	141	137	128	114	99	84
6LM 70/16	50	37	75,8		210	194	153	150	146	136	122	106	90
6LM 70/17	60	45	86,3		223	206	162	160	155	145	129	112	95
6LM 70/18	60	45	86,3		236	218	172	169	164	153	137	119	101
6LM 70/19	60	45	86,3	H	249	230	181	179	173	162	144	125	106
6LM 70/20	60	45	86,3	(m)	262	242	191	188	182	170	152	132	112
6LM 70/21	75	55	106,2		275	254	201	197	191	179	160	139	118
6LM 70/22	75	55	106,2		288	266	210	207	200	187	167	145	123
6LM 70/23	75	55	106,2		301	278	220	216	209	196	175	152	129
6LM 70/24	75	55	106,2		314	290	229	226	218	204	182	158	134
6LM 70/25	75	55	106,2		328	303	239	235	228	213	190	165	140

Max Eff. %	76
Max kW / St.	2,18

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,8	3,8	5,1	7,1

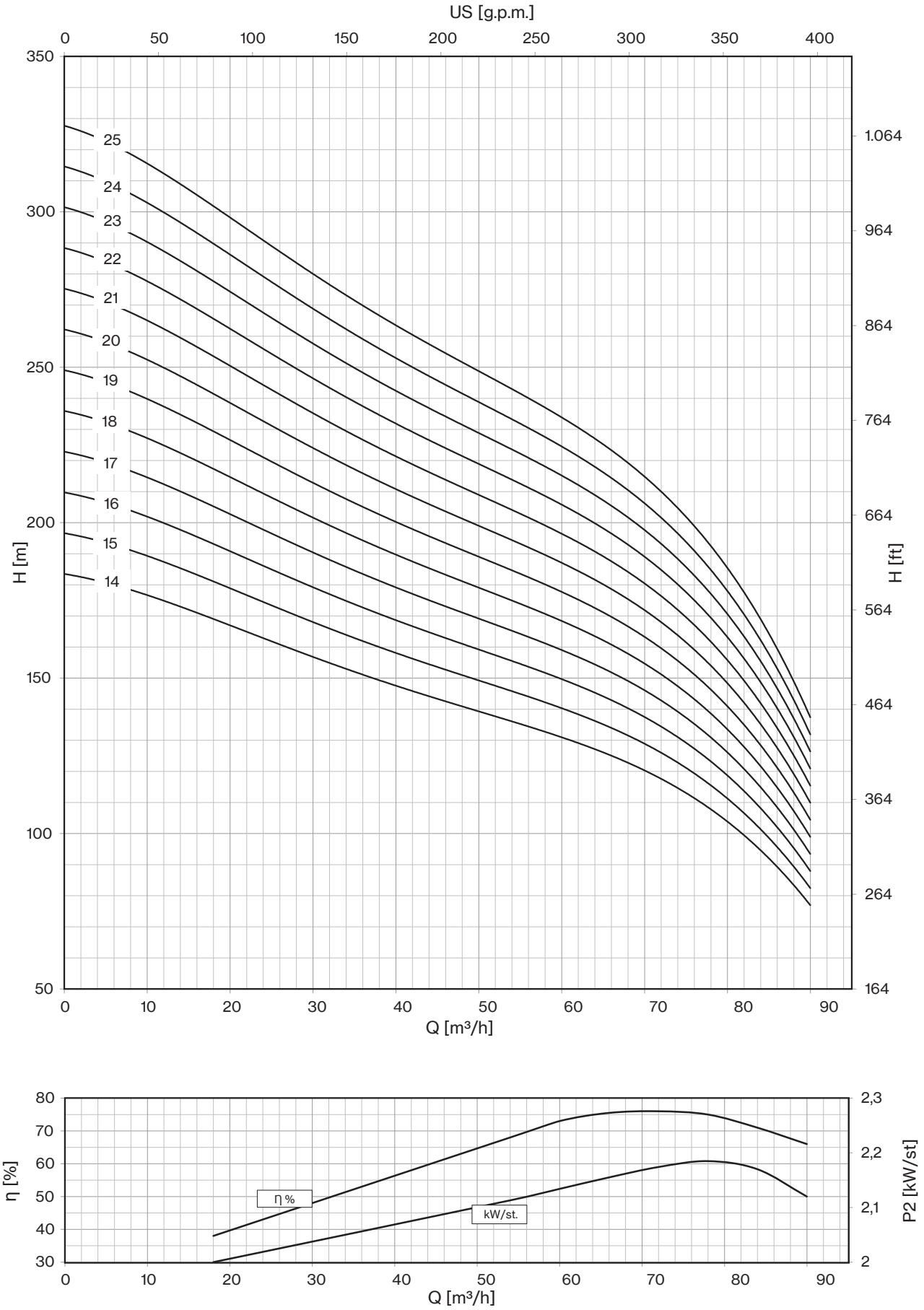




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
6LM 70/14	6" NEMA	3132	1791	1341	118	58
6LM 70/15		3239	1898	1341	118	62
6LM 70/16		3346	2005	1341	118	65
6LM 70/17		3235	2112	1123	178	69
6LM 70/18		3342	2219	1123	178	73
6LM 70/19		3516	2393	1123	178	81
6LM 70/20		3623	2500	1123	178	84
6LM 70/21		3840	2607	1233	200	88
6LM 70/22		3947	2714	1233	200	92
6LM 70/23		4054	2821	1233	200	96
6LM 70/24		4161	2928	1233	200	100
6LM 70/25		4268	3035	1233	200	103

6LM 70



Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LR & 8LM line

Submersible Multistage Centrifugal Pumps for 8” Wells.
The 8LRH line is a radial type execution, while the 8LM one is a semi-axial type. These pumps feature a check valve integrated into the delivery outlet. The pump motor bracket and coupling are manufactured in compliance with NEMA standards. All components are constructed from stainless steel using lost wax microfusion technology. The standard material is AISI 304 stainless steel. Alternatively, the following materials are available upon request: AISI 316 stainless steel and Duplex steel (EN 1.4462).
The bushing bearings and wear rings are made from sand abrasion-resistant rubber, while the reverse-thrust ring is made of PTFE/Graphite.
These pumps are suitable for a wide range of applications, including civil and agricultural uses.

General operating data:

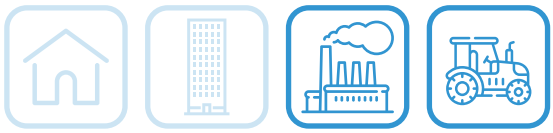
- Capacity up to 192 m³/h
- Pressure up to 719 m
- Hydraulic efficiency 8”, up to 78,5%
- Powers up to 185 kW
- Rotation speed 2.900 rpm
- Maximum depth: 350 m
- Maximum quantity of sand: 100 gr/m³
- Drinking water compatibility according to DM174
- MEI ≥ 0,4 (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

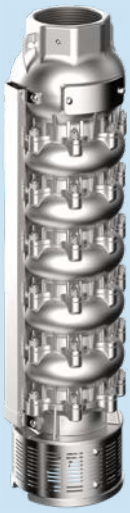
Construction features

Suction and delivery outlet	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Valve	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Impellers and diffusers	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex EN 1.4462 (LRD-LMD)
Quantity of sand in the water	max 100 gr/m³

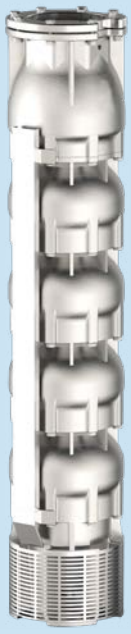
Motor

Asynchronous 2 pole	rewindable water cooled
Insulation class	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
Protection degree	IP68
Liquid temperature	max 30 °C (max 50 °C on request)
Depth of immersion	max 350 m





8LRH line



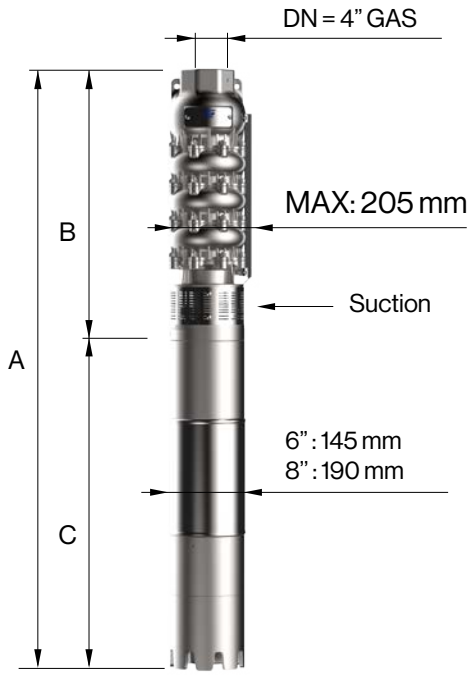
8LM line

8LRH 34

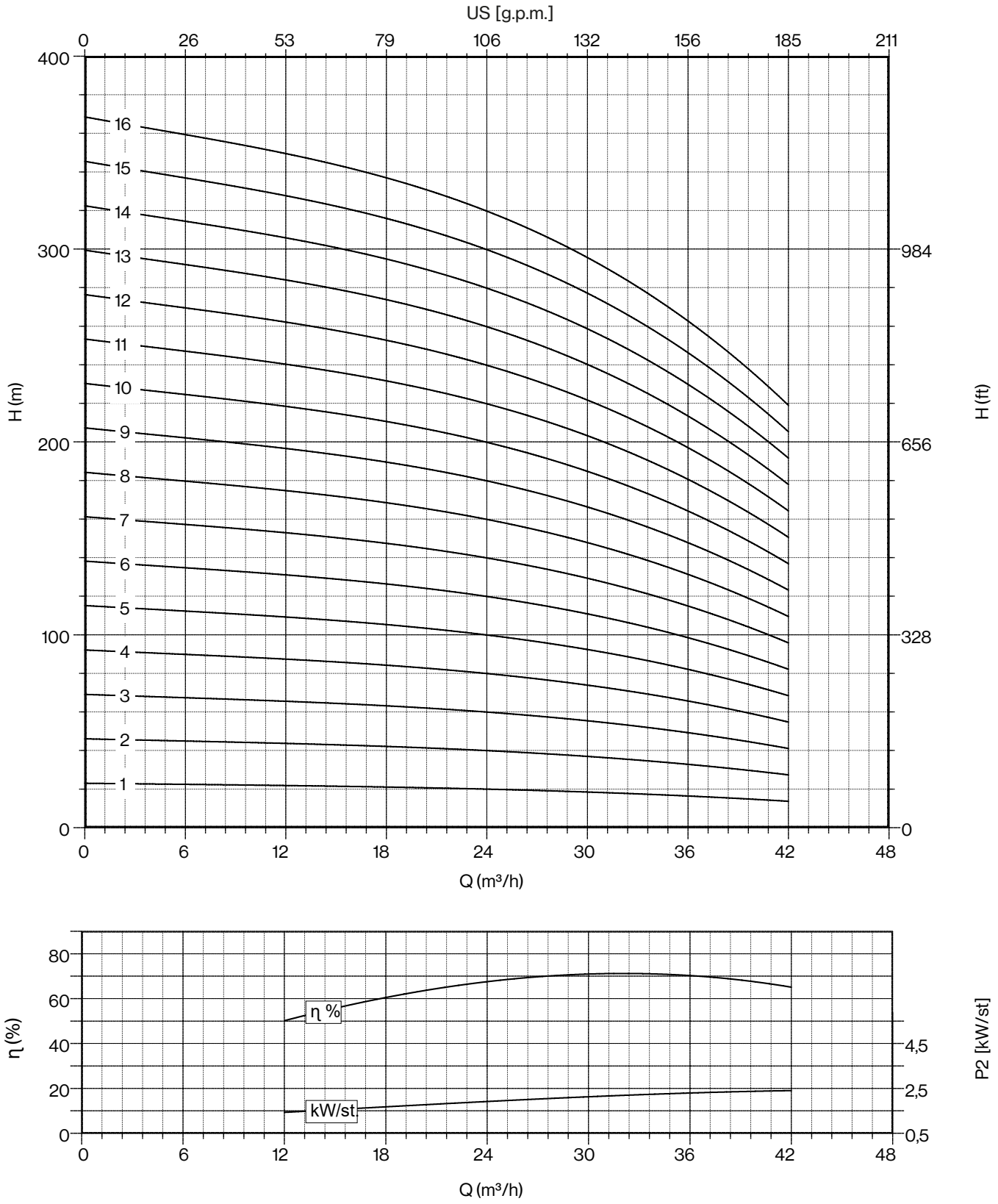
50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	300	400	500	600	700
	P2		CURRENT	l/sec	0,0	3,3	5,0	6,7	8,3	10,0	11,7
	HP	kW	A	m³/h	0	12	18	24	30	36	42
8LRH 34/01	5,5	4	9,1		23	22	21	20	19	17	14
8LRH 34/02	7,5	5,5	12,3		46	44	42	40	37	33	27
8LRH 34/03	10	7,5	16,3		69	66	63	59	56	50	41
8LRH 34/04	15	11	23,4		92	88	84	79	74	66	54
8LRH 34/05	17,5	13	27,3		115	110	105	99	93	83	68
8LRH 34/06	20	15	31,5		138	132	126	119	111	100	82
8LRH 34/07	25	18,5	38,3		161	154	147	139	130	116	95
8LRH 34/08	30	22	45,1	H	184	176	168	158	148	133	109
8LRH 34/09	30	22	45,1	(m)	207	198	189	178	167	149	122
8LRH 34/10	35	26	52,9		230	220	210	198	185	166	136
8LRH 34/11	35	26	52,9		253	242	231	218	204	183	150
8LRH 34/12	40	30	61,1		276	264	252	238	222	199	163
8LRH 34/13	50	37	75,8		299	286	273	257	241	216	177
8LRH 34/14	50	37	75,8		322	308	294	277	259	232	190
8LRH 34/15	50	37	75,8		345	330	315	297	278	249	204
8LRH 34/16	60	44	86,3		368	352	336	317	296	266	218

Max Eff. %	71
Max kW / St.	2,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,3	3,3	4,5	6,7



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 34/01-6		1106	460	646	40	21
8LRH 34/02-6		1211	540	671	45	27
8LRH 34/03-6		1321	620	701	55	33
8LRH 34/04-6		1511	700	811	65	40
8LRH 34/05-6		1621	780	841	70	46
8LRH 34/06-6		1791	860	931	75	52
8LRH 34/07-6		1931	940	991	83	58
8LRH 34/08-6	6" NEMA	2091	1020	1071	92	64
8LRH 34/09-6		2171	1100	1071	92	70
8LRH 34/10-6		2361	1180	1181	100	77
8LRH 34/11-6		2441	1260	1181	100	83
8LRH 34/12-6		2591	1340	1251	108	89
8LRH 34/13-6		2761	1420	1341	118	95
8LRH 34/14-6		2841	1500	1341	118	101
8LRH 34/15-6		2921	1580	1341	118	107
8LRH 34/16	8" NEMA	2783	1660	1123	178	113



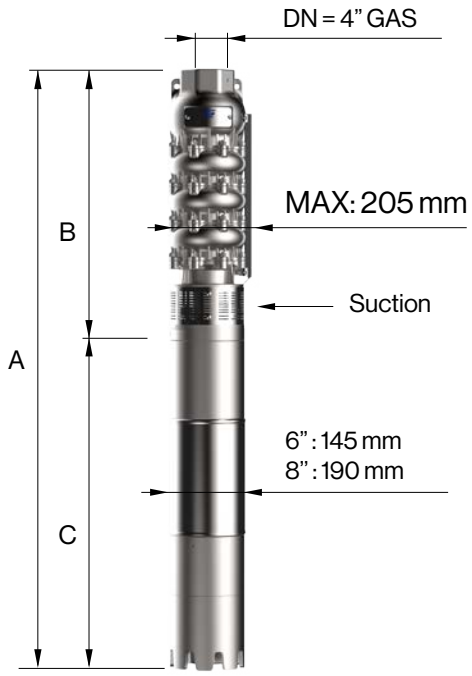
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 34

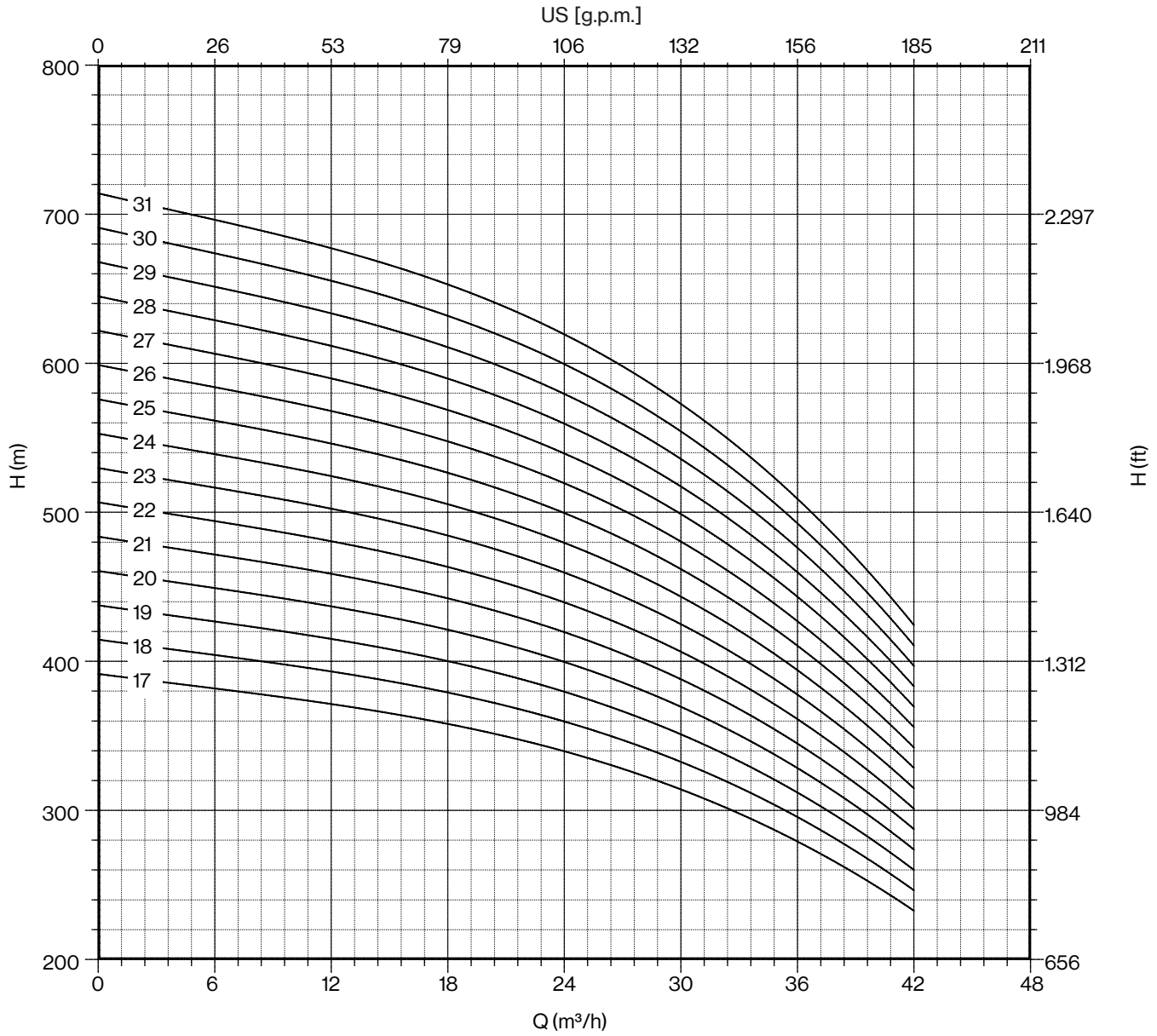
50 Hz - 2900 rpm					Q						
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	200	300	400	500	600	700
	P2		CURRENT	l/sec	0,0	3,3	5,0	6,7	8,3	10,0	11,7
	HP	kW	A	m³/h	0	12	18	24	30	36	42
8LRH 34/17	60	44	86,3	H (m)	391	374	357	337	315	282	231
8LRH 34/18	60	44	86,3		414	396	378	356	333	299	245
8LRH 34/19	75	55	106,2		437	418	399	376	352	315	258
8LRH 34/20	75	55	106,2		460	440	420	396	370	332	272
8LRH 34/21	75	55	106,2		483	462	441	416	389	349	286
8LRH 34/22	75	55	106,2		506	484	462	436	407	365	299
8LRH 34/23	75	55	106,2		529	506	483	455	426	382	313
8LRH 34/24	90	66	126		552	528	504	475	444	398	326
8LRH 34/25	90	66	126		575	550	525	495	463	415	340
8LRH 34/26	90	66	126		598	572	546	515	481	432	354
8LRH 34/27	90	66	126		621	594	567	535	500	448	367
8LRH 34/28	90	66	126		644	616	588	554	518	465	381
8LRH 34/29	100	75	143,2		667	638	609	574	537	481	394
8LRH 34/30	100	75	143,2		690	660	630	594	555	498	408
8LRH 34/31	100	75	143,2		713	682	651	614	574	515	422

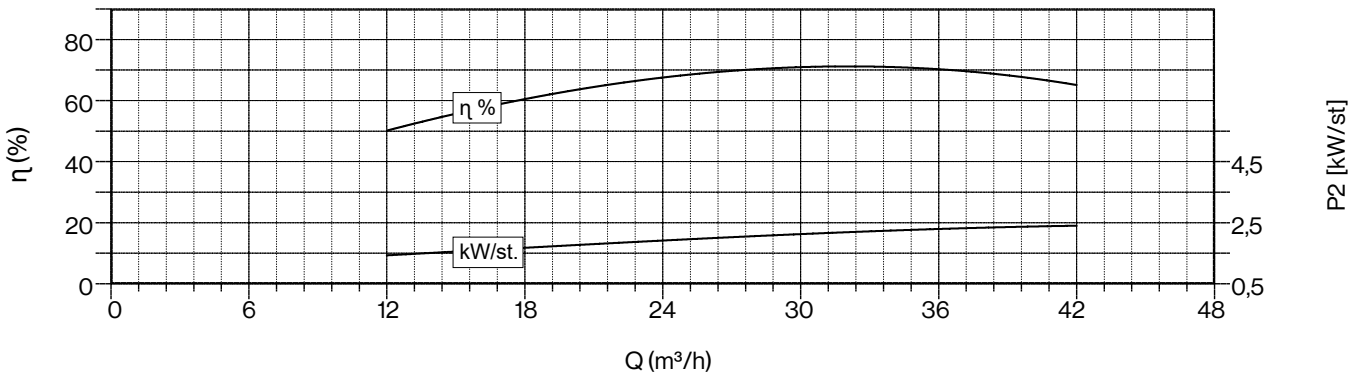
Max Eff. %	71
Max kW / St.	2,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,3	3,3	4,5	6,7



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 34/17	8" NEMA	2863	1740	1123	178	120
8LRH 34/18		2943	1820	1123	178	126
8LRH 34/19		3133	1900	1233	200	132
8LRH 34/20		3213	1980	1233	200	138
8LRH 34/21		3293	2060	1233	200	144
8LRH 34/22		3373	2140	1233	200	150
8LRH 34/23		3453	2220	1233	200	156
8LRH 34/24		3603	2300	1303	214	163
8LRH 34/25		3683	2380	1303	214	169
8LRH 34/26		3763	2460	1303	214	175
8LRH 34/27		3843	2540	1303	214	181
8LRH 34/28		3923	2620	1303	214	187
8LRH 34/29		4083	2700	1383	230	193
8LRH 34/30		4163	2780	1383	230	200
8LRH 34/31		4243	2860	1383	230	206





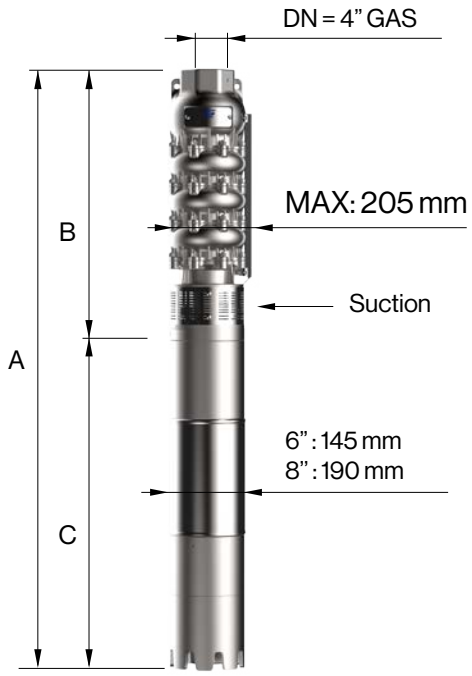
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 42

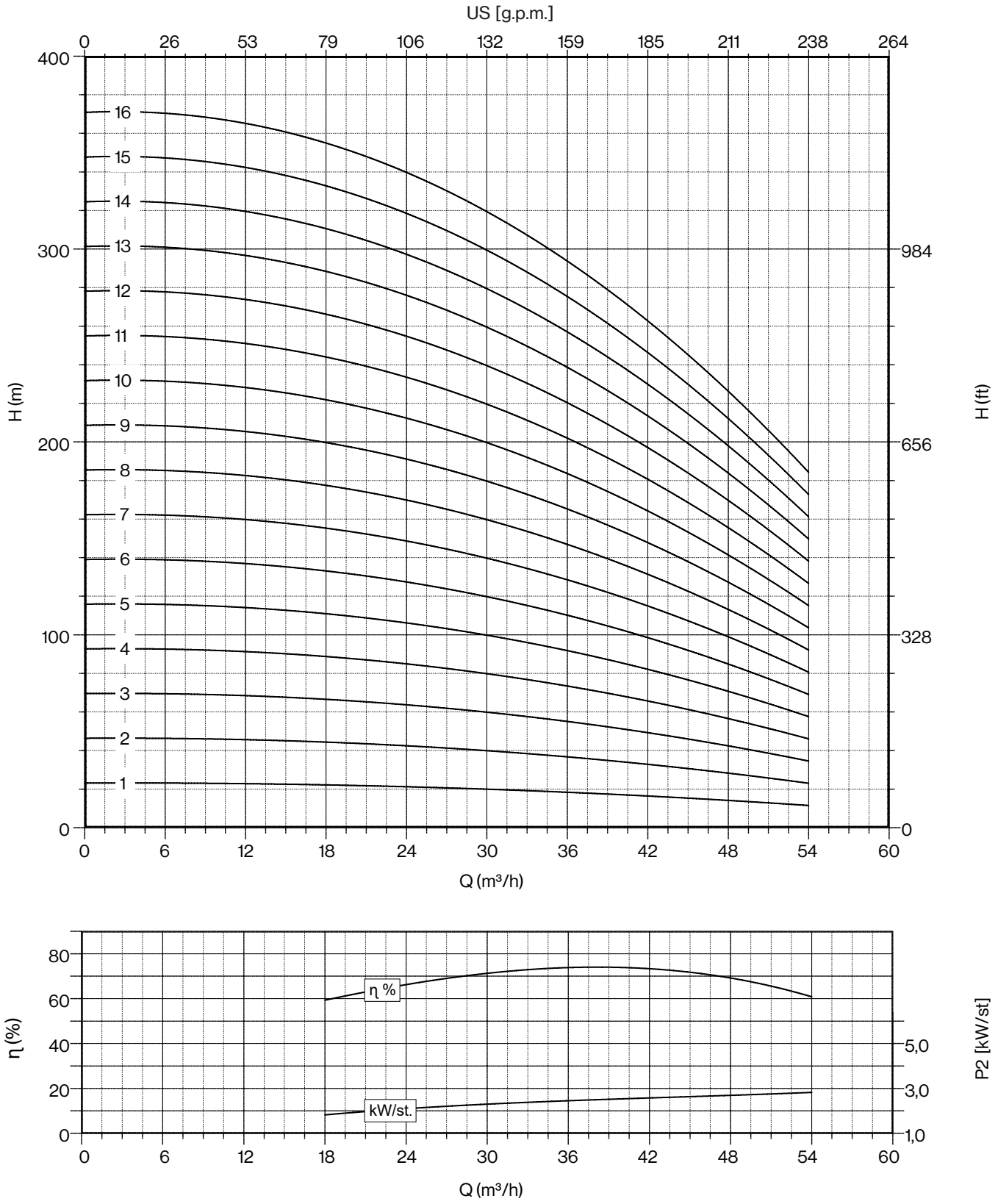
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	500	600	700	800	900
	P2		CURRENT	l/sec	0,0	5,0	6,7	8,3	10,0	11,7	13,3	15,0
	HP	kW	A	m³/h	0	18	24	30	36	42	48	54
8LRH 42/01	5,5	4	9,1		23	22	21	20	18	16	14	12
8LRH 42/02	7,5	5,5	12,3		46	44	43	40	37	33	28	23
8LRH 42/03	12,5	9,2	19,9		70	66	64	60	55	49	42	35
8LRH 42/04	15	11	23,4		93	88	86	80	74	66	56	46
8LRH 42/05	20	15	31,5		116	110	107	100	92	82	70	58
8LRH 42/06	25	18,5	38,3		139	132	128	120	110	98	84	70
8LRH 42/07	30	22	45,1		162	154	150	140	129	115	98	81
8LRH 42/08	30	22	45,1	H (m)	186	176	171	160	147	131	112	93
8LRH 42/09	35	26	52,9		209	198	193	180	166	148	126	104
8LRH 42/10	40	30	61,1		232	220	214	200	184	164	140	116
8LRH 42/11	50	37	75,8		255	242	235	220	202	180	154	128
8LRH 42/12	50	37	75,8		278	264	257	240	221	197	168	139
8LRH 42/13	50	37	75,8		302	286	278	260	239	213	182	151
8LRH 42/14	60	44	86,3		325	308	300	280	258	230	196	162
8LRH 42/15	60	44	86,3		348	330	321	300	276	246	210	174
8LRH 42/16	60	44	86,3		371	352	342	320	294	262	224	186

Max Eff. %	74
Max kW / St.	2,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	4,8	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 42/01-6	6" NEMA	1106	460	646	40	21
8LRH 42/02-6		1211	540	671	45	27
8LRH 42/03-6		1371	620	751	60	33
8LRH 42/04-6		1511	700	811	65	40
8LRH 42/05-6		1711	780	931	75	46
8LRH 42/06-6		1851	860	991	83	52
8LRH 42/07-6		2011	940	1071	92	58
8LRH 42/08-6		2091	1020	1071	92	64
8LRH 42/09-6		2281	1100	1181	100	70
8LRH 42/10-6		2431	1180	1251	108	77
8LRH 42/11-6		2601	1260	1341	118	83
8LRH 42/12-6		2681	1340	1341	118	89
8LRH 42/13-6		2761	1420	1341	118	95
8LRH 42/14	8" NEMA	2623	1500	1123	178	101
8LRH 42/15		2703	1580	1123	178	107
8LRH 42/16		2783	1660	1123	178	113



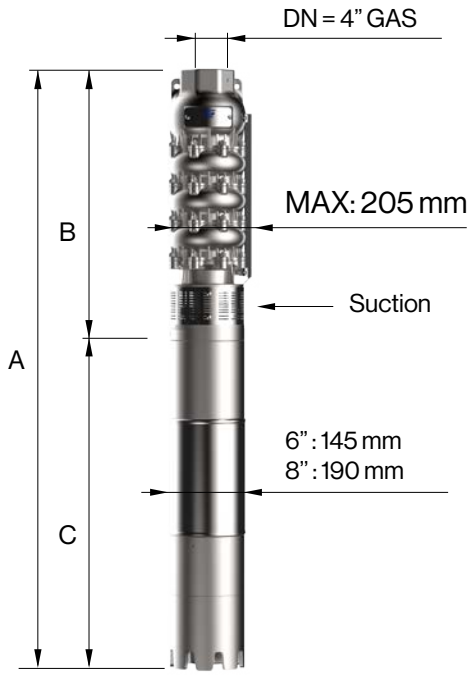
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 42

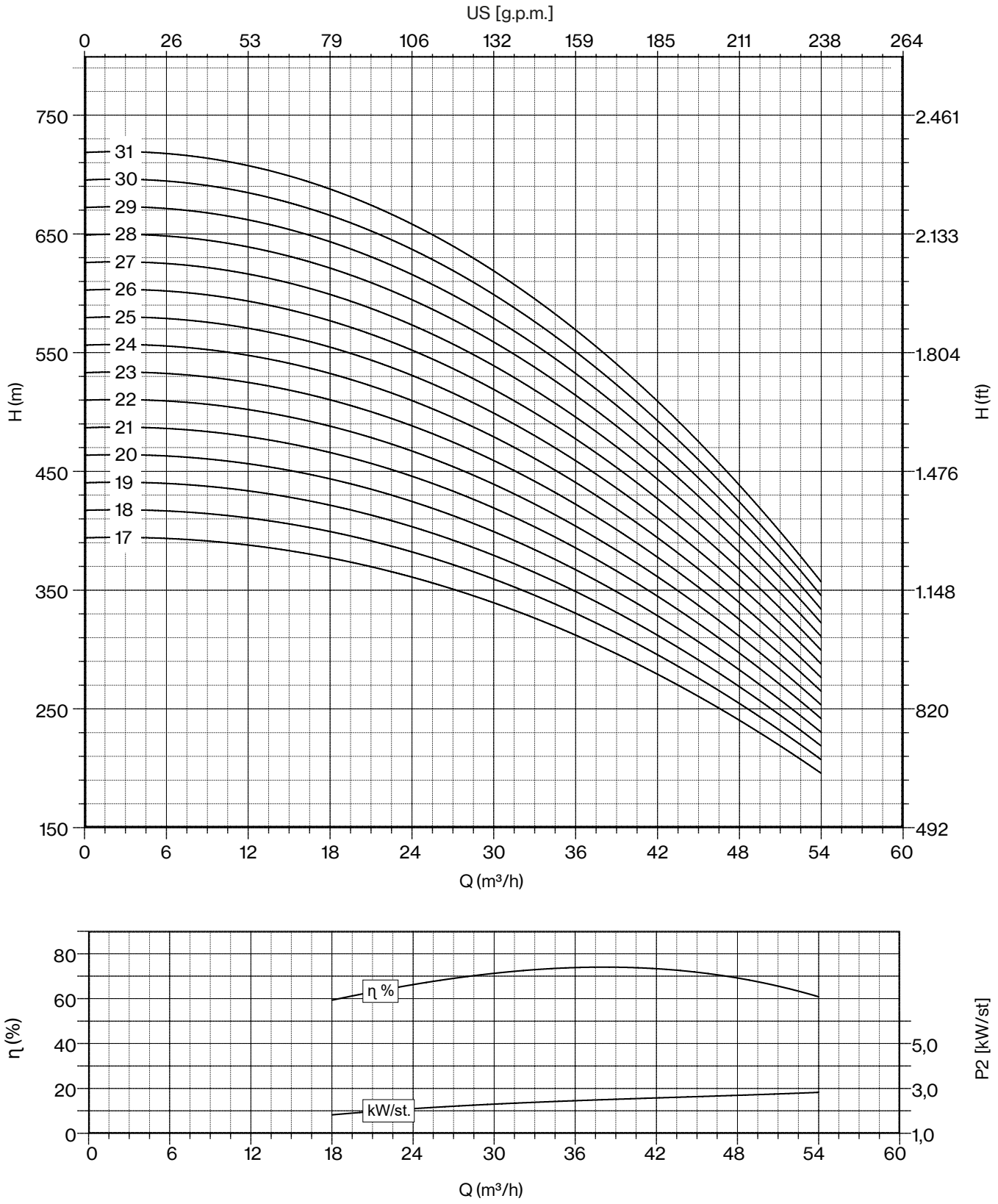
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	500	600	700	800	900
	P2		CURRENT	l/sec	0,0	5,0	6,7	8,3	10,0	11,7	13,3	15,0
	HP	kW	A	m³/h	0	18	24	30	36	42	48	54
8LRH 42/17	75	55	106,2	H (m)	394	374	364	340	313	279	238	197
8LRH 42/18	75	55	106,2		418	396	385	360	331	295	252	209
8LRH 42/19	75	55	106,2		441	418	407	380	350	312	266	220
8LRH 42/20	90	66	126		464	440	428	400	368	328	280	232
8LRH 42/21	90	66	126		487	462	449	420	386	344	294	244
8LRH 42/22	90	66	126		510	484	471	440	405	361	308	255
8LRH 42/23	90	66	126		534	506	492	460	423	377	322	267
8LRH 42/24	100	75	143,2		557	528	514	480	442	394	336	278
8LRH 42/25	100	75	143,2		580	550	535	500	460	410	350	290
8LRH 42/26	100	75	143,2		603	572	556	520	478	426	364	302
8LRH 42/27	125	92	175,1		626	594	578	540	497	443	378	313
8LRH 42/28	125	92	175,1		650	616	599	560	515	459	392	325
8LRH 42/29	125	92	175,1		673	638	621	580	534	476	406	336
8LRH 42/30	125	92	175,1		696	660	642	600	552	492	420	348
8LRH 42/31	125	92	175,1		719	682	663	620	570	508	434	360

Max Eff. %	74
Max kW / St.	2,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	3,4	4,8	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 42/17	8" NEMA	2973	1740	1233	200	120
8LRH 42/18		3053	1820	1233	200	126
8LRH 42/19		3133	1900	1233	200	132
8LRH 42/20		3283	1980	1303	214	138
8LRH 42/21		3363	2060	1303	214	144
8LRH 42/22		3443	2140	1303	214	150
8LRH 42/23		3523	2220	1303	214	156
8LRH 42/24		3683	2300	1383	230	163
8LRH 42/25		3763	2380	1383	230	169
8LRH 42/26		3843	2460	1383	230	175
8LRH 42/27		4123	2540	1583	270	181
8LRH 42/28		4203	2620	1583	270	187
8LRH 42/29		4283	2700	1583	270	193
8LRH 42/30		4363	2780	1583	270	200
8LRH 42/31		4443	2860	1583	270	206

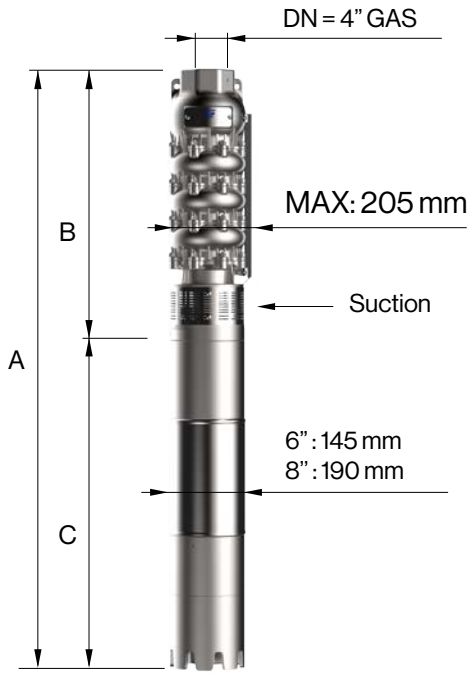

US [g.p.m.]
0 26 53 79 106 132 159 185 211 238 264
750 650 550 450 350 250 150
2.461 2.133 1.804 1.476 1.148 820 492
H (m)
H (ft)
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
0 6 12 18 24 30 36 42 48 54 60
Q (m³/h)
80 60 40 20 0
η (%)
η %
kW/st.
5,0 3,0 1,0
P2 [kW/st]
0 6 12 18 24 30 36 42 48 54 60
Q (m³/h)

8LRH 52

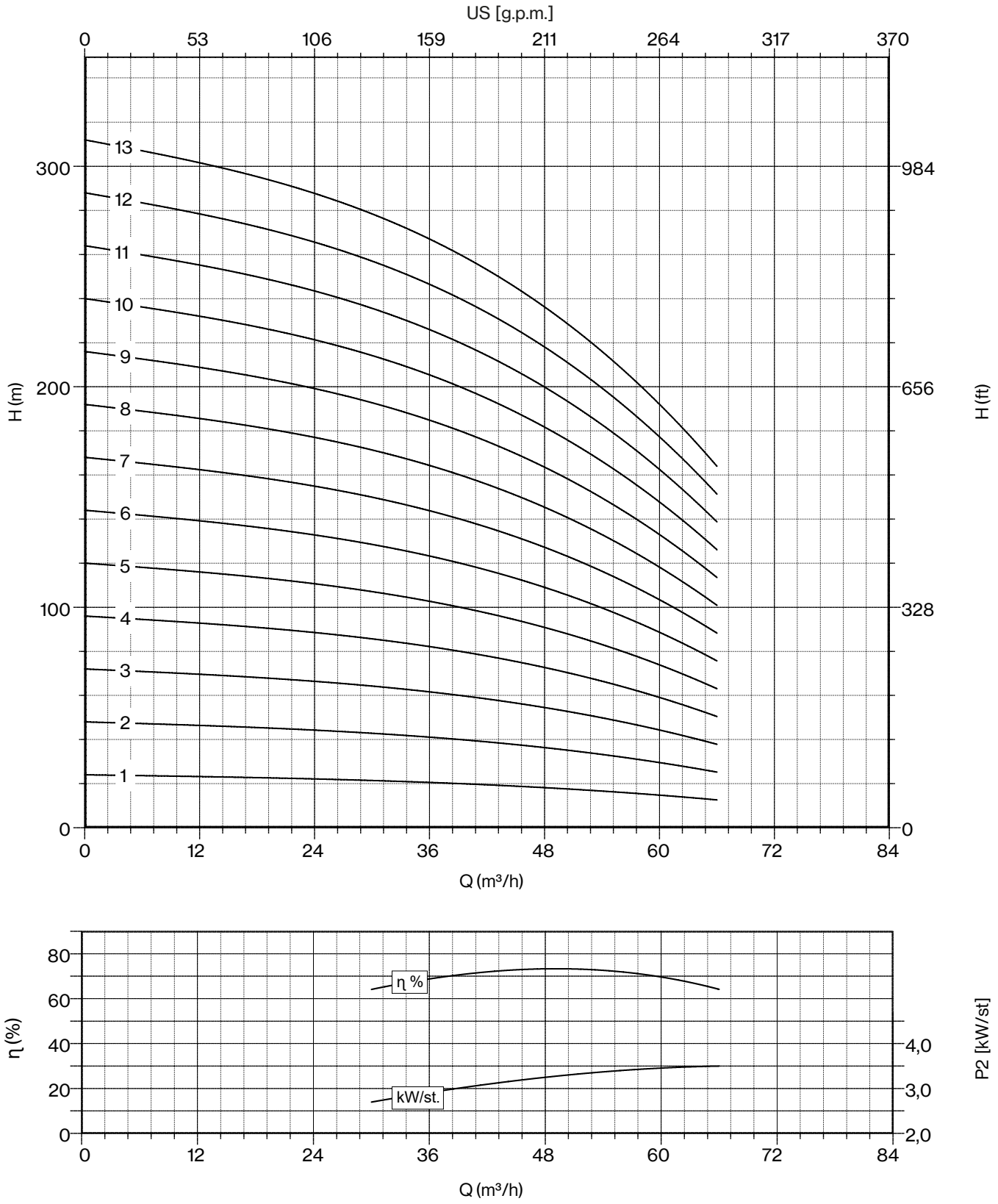
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	500	600	700	800	900	1000	1100
	P2		CURRENT	l/sec	0,0	8,3	10,0	11,7	13,3	15,0	16,7	18,3
	HP	kW	A	m³/h	0	30	36	42	48	54	60	66
8LRH 52/01	5,5	4	9,1	H (m)	24	21	21	19	18	17	15	13
8LRH 52/02	10	7,5	16,3		48	43	41	39	36	33	30	25
8LRH 52/03	15	11	23,4		72	64	62	58	55	50	44	38
8LRH 52/04	20	15	31,5		96	86	82	78	73	66	59	50
8LRH 52/05	25	18,5	38,3		120	107	103	97	91	83	74	63
8LRH 52/06	30	22	45,1		144	128	124	116	109	100	89	76
8LRH 52/07	35	26	52,9		168	150	144	136	127	116	104	88
8LRH 52/08	40	30	61,1		192	171	165	155	146	133	118	101
8LRH 52/09	50	37	75,8		216	193	185	175	164	149	133	113
8LRH 52/10	50	37	75,8		240	214	206	194	182	166	148	126
8LRH 52/11	60	44	86,3		264	235	227	213	200	183	163	139
8LRH 52/12	60	44	86,3		288	257	247	233	218	199	178	151
8LRH 52/13	75	55	106,2		312	278	268	252	237	216	192	164

Max Eff. %	73
Max kW / St.	3,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,5	3,5	6	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 52/01-6	6" NEMA	1114	468	646	40	22
8LRH 52/02-6		1257	556	701	55	29
8LRH 52/03-6		1455	644	811	65	36
8LRH 52/04-6		1663	732	931	75	44
8LRH 52/05-6		1811	820	991	83	51
8LRH 52/06-6		1979	908	1071	92	58
8LRH 52/07-6		2177	996	1181	100	65
8LRH 52/08-6		2335	1084	1251	108	72
8LRH 52/09-6		2513	1172	1341	118	79
8LRH 52/10-6		2601	1260	1341	118	87
8LRH 52/11	8" NEMA	2471	1348	1123	178	94
8LRH 52/12		2559	1436	1123	178	101
8LRH 52/13		2757	1524	1233	200	108



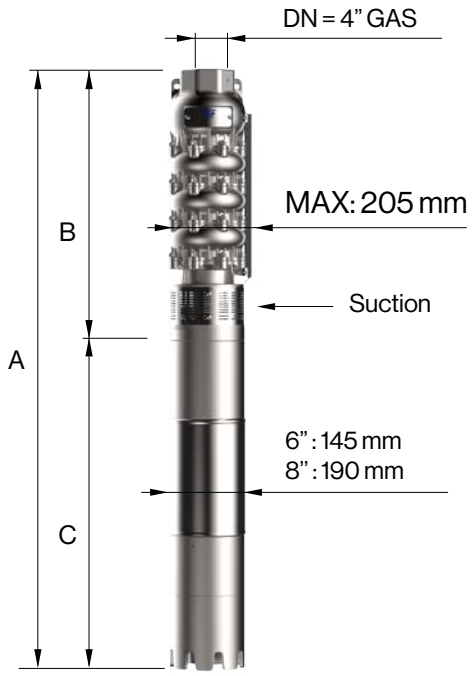
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 52

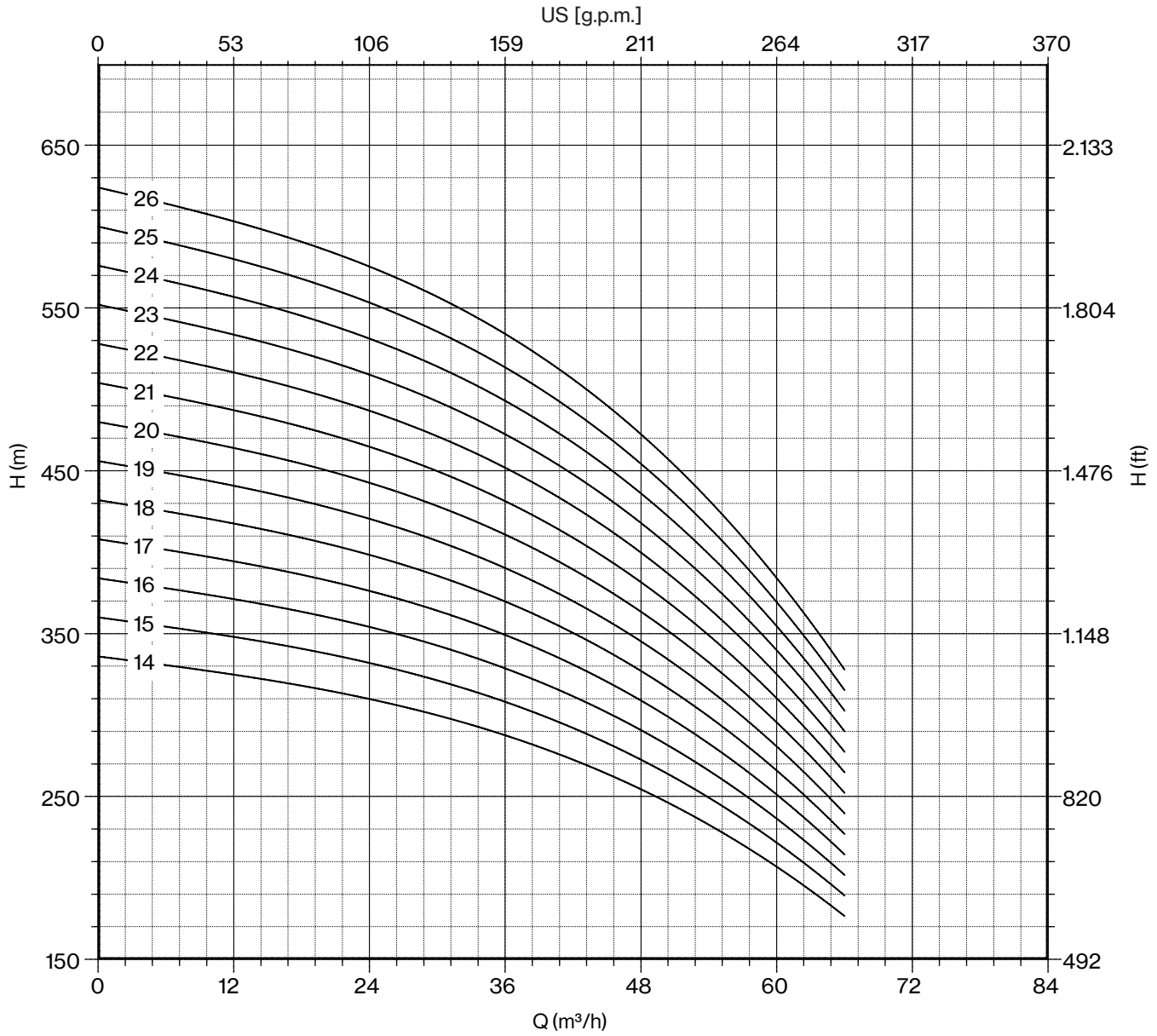
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	500	600	700	800	900	1000	1100
	P2		CURRENT	l/sec	0,0	8,3	10,0	11,7	13,3	15,0	16,7	18,3
	HP	kW	A	m³/h	0	30	36	42	48	54	60	66
8LRH 52/14	75	55	106,2	H (m)	336	300	288	272	255	232	207	176
8LRH 52/15	75	55	106,2		360	321	309	291	273	249	222	189
8LRH 52/16	75	55	106,2		384	342	330	310	291	266	237	202
8LRH 52/17	90	66	126		408	364	350	330	309	282	252	214
8LRH 52/18	90	66	126		432	385	371	349	328	299	266	227
8LRH 52/19	90	66	126		456	407	391	369	346	315	281	239
8LRH 52/20	100	75	143,2		480	428	412	388	364	332	296	252
8LRH 52/21	100	75	143,2		504	449	433	407	382	349	311	265
8LRH 52/22	125	92	175,1		528	471	453	427	400	365	326	277
8LRH 52/23	125	92	175,1		552	492	474	446	419	382	340	290
8LRH 52/24	125	92	175,1		576	514	494	466	437	398	355	302
8LRH 52/25	125	92	175,1		600	535	515	485	455	415	370	315
8LRH 52/26	125	92	175,1		624	556	536	504	473	432	385	328

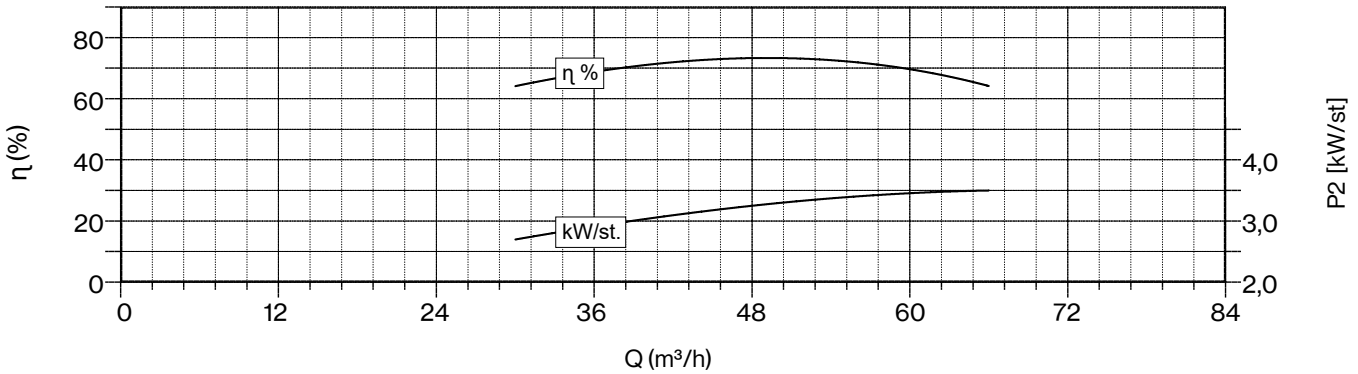
Max Eff. %	73
Max kW / St.	3,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,5	3,5	6	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 52/14	8" NEMA	2845	1612	1233	200	115
8LRH 52/15		2933	1700	1233	200	122
8LRH 52/16		3021	1788	1233	200	129
8LRH 52/17		3179	1876	1303	214	137
8LRH 52/18		3267	1964	1303	214	144
8LRH 52/19		3355	2052	1303	214	151
8LRH 52/20		3523	2140	1383	230	158
8LRH 52/21		3611	2228	1383	230	165
8LRH 52/22		3899	2316	1583	270	172
8LRH 52/23		3987	2404	1583	270	179
8LRH 52/24		4075	2492	1583	270	187
8LRH 52/25		4163	2580	1583	270	194
8LRH 52/26		4251	2668	1583	270	201





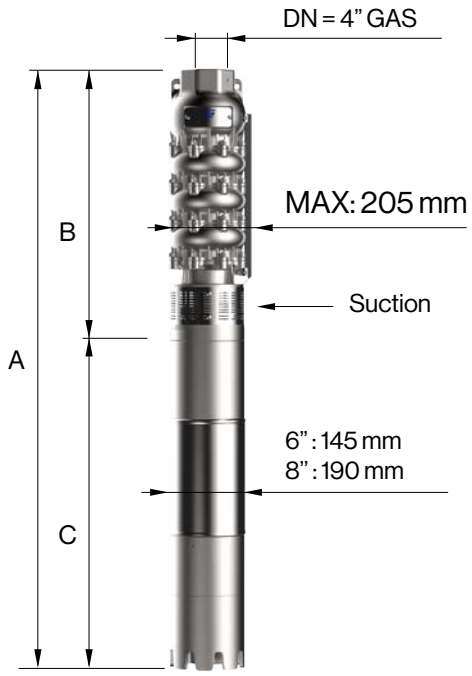
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 62

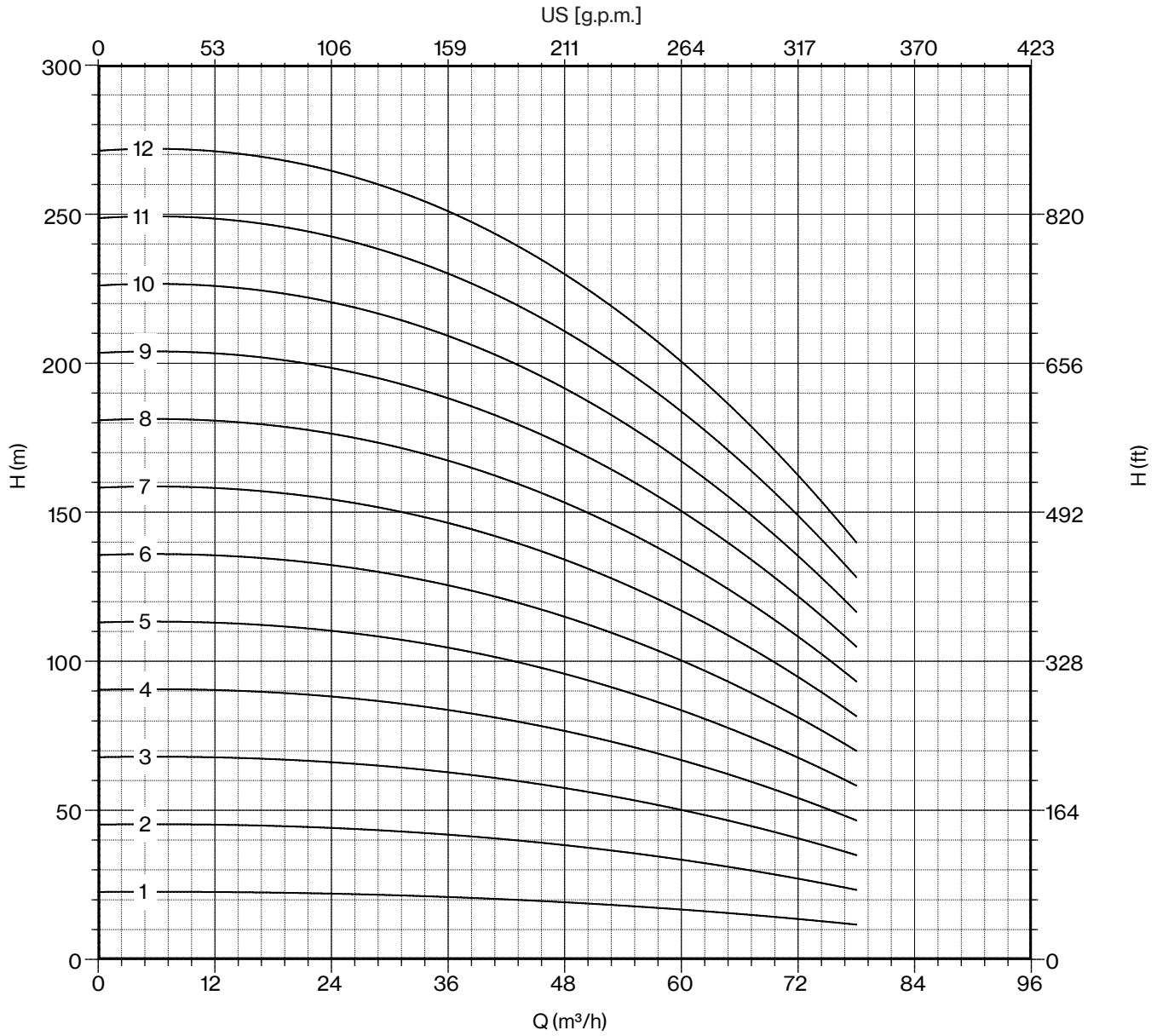
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	800	900	1000	1100	1200	1300
	P2		CURRENT	l/sec	0,0	10,0	13,3	15,0	16,7	18,3	20,0	21,7
	HP	kW	A	m³/h	0	36	48	54	60	66	72	78
8LRH 62/01	5,5	4	9,1	H (m)	23	21	19	18	17	15	14	12
8LRH 62/02	10	7,5	16,3		45	42	38	36	34	30	27	23
8LRH 62/03	15	11	23,4		68	63	57	54	50	46	41	35
8LRH 62/04	20	15	31,5		90	84	76	72	67	61	54	46
8LRH 62/05	25	18,5	38,3		113	105	95	90	84	76	68	58
8LRH 62/06	30	22	45,1		136	126	114	108	101	91	82	70
8LRH 62/07	35	26	52,9		158	147	133	126	118	106	95	81
8LRH 62/08	40	30	61,1		181	168	152	144	134	122	109	93
8LRH 62/09	50	37	75,8		203	189	171	162	151	137	122	104
8LRH 62/10	50	37	75,8		226	210	190	180	168	152	136	116
8LRH 62/11	60	44	86,3		249	231	209	198	185	167	150	128
8LRH 62/12	60	44	86,3		271	252	228	216	202	182	163	139

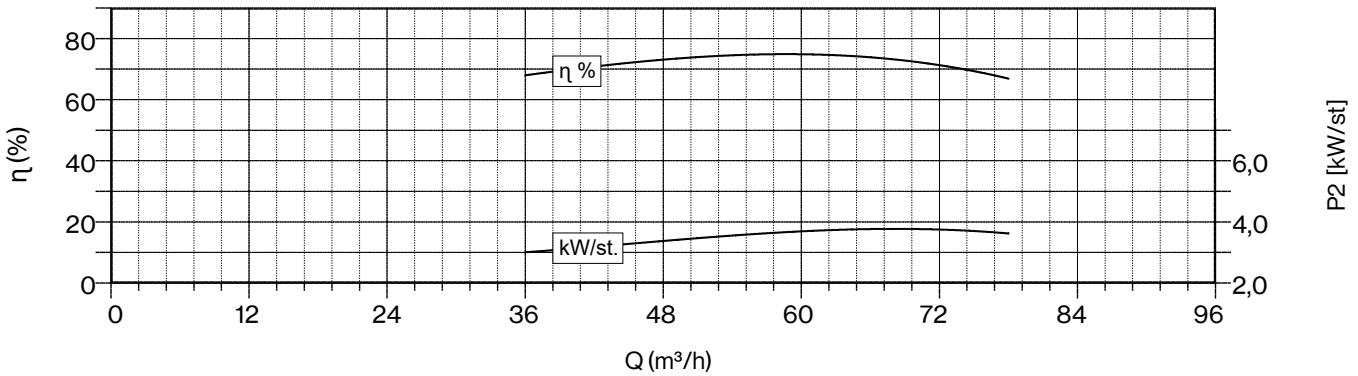
Max Eff. %	75
Max kW / St.	3,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,6	3,6	6	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 62/01-6	6" NEMA	1114	468	646	40	22
8LRH 62/02-6		1257	556	701	55	29
8LRH 62/03-6		1455	644	811	65	36
8LRH 62/04-6		1663	732	931	75	44
8LRH 62/05-6		1811	820	991	83	51
8LRH 62/06-6		1979	908	1071	92	58
8LRH 62/07-6		2177	996	1181	100	65
8LRH 62/08-6		2335	1084	1251	108	72
8LRH 62/09-6		2513	1172	1341	118	79
8LRH 62/10-6		2601	1260	1341	118	87
8LRH 62/11	8" NEMA	2471	1348	1123	178	94
8LRH 62/12		2559	1436	1123	178	101





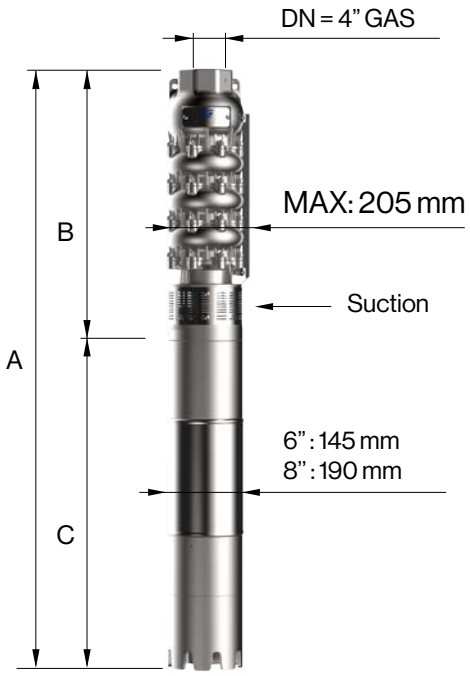
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

8LRH 62

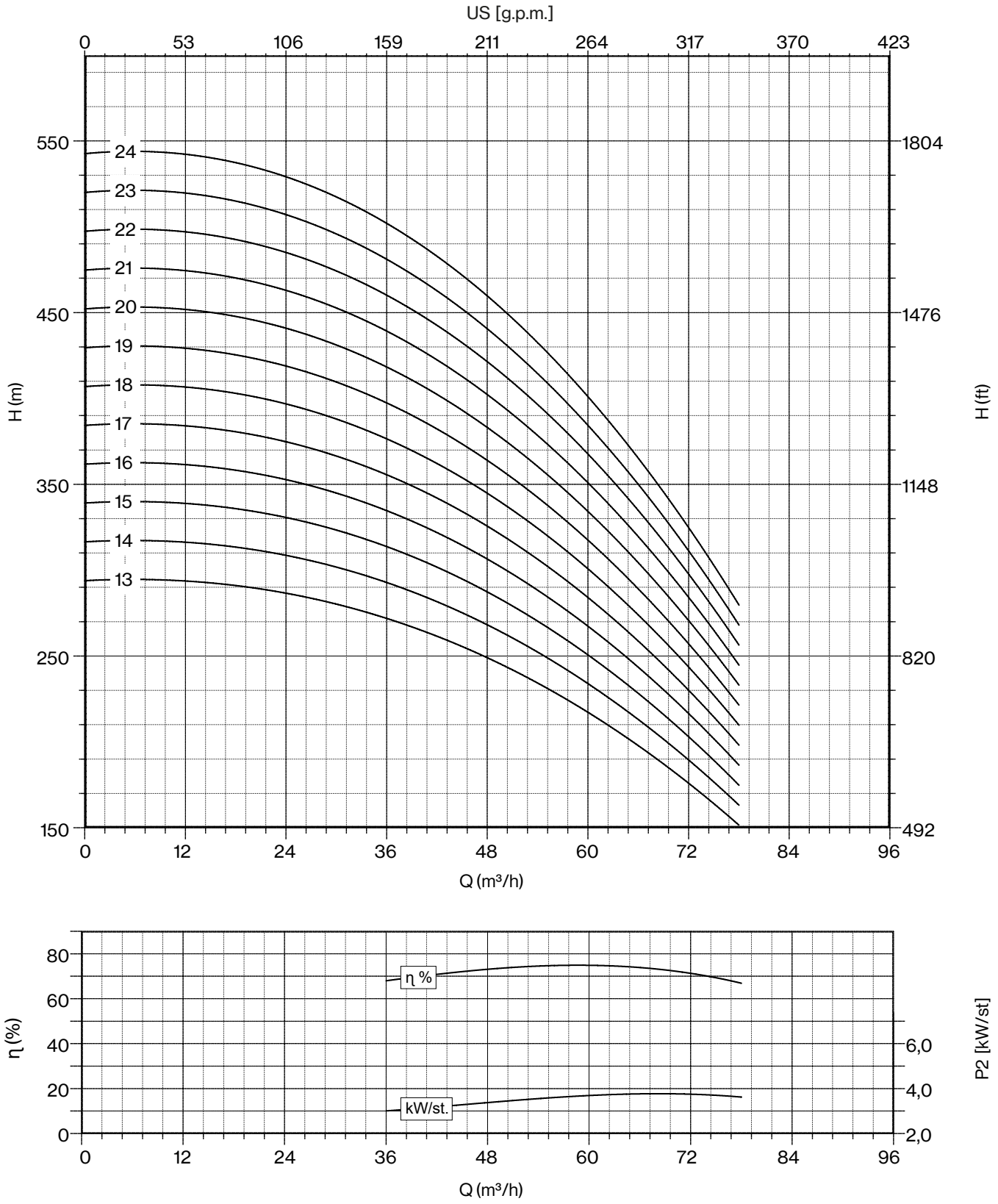
50 Hz - 2900 rpm					Q							
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	800	900	1000	1100	1200	1300
	P2		CURRENT	l/sec	0,0	10,0	13,3	15,0	16,7	18,3	20,0	21,7
	HP	kW	A	m³/h	0	36	48	54	60	66	72	78
8LRH 62/13	75	55	106,2		294	273	247	234	218	198	177	151
8LRH 62/14	75	55	106,2		316	294	266	252	235	213	190	162
8LRH 62/15	90	66	126		339	315	285	270	252	228	204	174
8LRH 62/16	90	66	126		362	336	304	288	269	243	218	186
8LRH 62/17	90	66	126		384	357	323	306	286	258	231	197
8LRH 62/18	100	75	143,2	H	407	378	342	324	302	274	245	209
8LRH 62/19	100	75	143,2	(m)	429	399	361	342	319	289	258	220
8LRH 62/20	100	75	143,2		452	420	380	360	336	304	272	232
8LRH 62/21	125	92	175,1		475	441	399	378	353	319	286	244
8LRH 62/22	125	92	175,1		497	462	418	396	370	334	299	255
8LRH 62/23	125	92	175,1		520	483	437	414	386	350	313	267
8LRH 62/24	125	92	175,1		542	504	456	432	403	365	326	278

Max Eff. %	75
Max kW / St.	3,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,6	3,6	6	8



TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 62/13	8" NEMA	2757	1524	1233	200	108
8LRH 62/14		2845	1612	1233	200	115
8LRH 62/15		3003	1700	1303	214	122
8LRH 62/16		3091	1788	1303	214	129
8LRH 62/17		3179	1876	1303	214	137
8LRH 62/18		3347	1964	1383	230	144
8LRH 62/19		3435	2052	1383	230	151
8LRH 62/20		3523	2140	1383	230	158
8LRH 62/21		3811	2228	1583	270	165
8LRH 62/22		3899	2316	1583	270	172
8LRH 62/23		3987	2404	1583	270	179
8LRH 62/24		4075	2492	1583	270	187

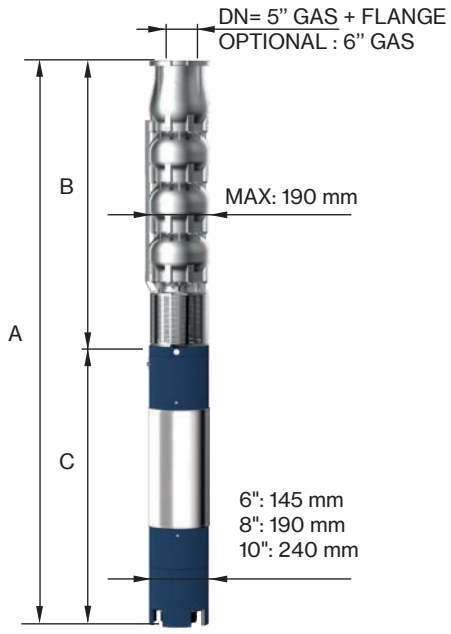

US [g.p.m.]
0
53
106
159
211
264
317
370
423
550
450
350
250
150
H (m)
1804
1476
1148
820
492
H (ft)
24
23
22
21
20
19
18
17
16
15
14
13
0
12
24
36
48
60
72
84
96
Q (m³/h)
80
60
40
20
0
η (%)
η %
kW/st.
6,0
4,0
2,0
P2 [kW/st]
0
12
24
36
48
60
72
84
96
Q (m³/h)

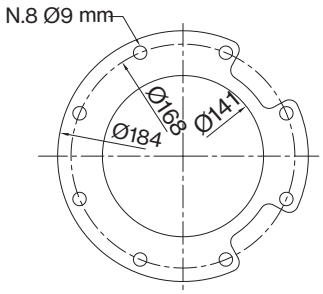
8LM 80

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	600	800	1000	1200	1400	1600
	P2		CURRENT	l/sec	0	5,0	6,7	10,0	13,3	16,7	20,0	23,3	26,7
	HP	kW	A	m³/h	0	18	24	36	48	60	72	84	96
8LM 80/01	10	7,5	16,3		27	26	26	24	23	22	20	18	15
8LM 80/02	17,5	13	27,3		54	53	51	49	47	44	40	35	30
8LM 80/03	25	18,5	38,3		81	79	77	73	70	65	60	53	44
8LM 80/04	35	26	52,9		108	105	103	97	93	87	80	70	59
8LM 80/05	40	30	61,1	H (m)	135	132	129	122	117	109	100	88	74
8LM 80/06	50	37	75,8		162	158	154	146	140	131	120	105	89
8LM 80/07	60	45	86,3		189	184	180	170	163	153	140	123	104
8LM 80/08	75	55	106,2		216	210	206	194	186	174	160	140	118
8LM 80/09	75	55	106,2		243	237	231	219	210	196	180	158	133
8LM 80/10	90	66	126,0		270	263	257	243	233	218	200	175	148

Max Eff. %	74
Max kW / St.	5,75

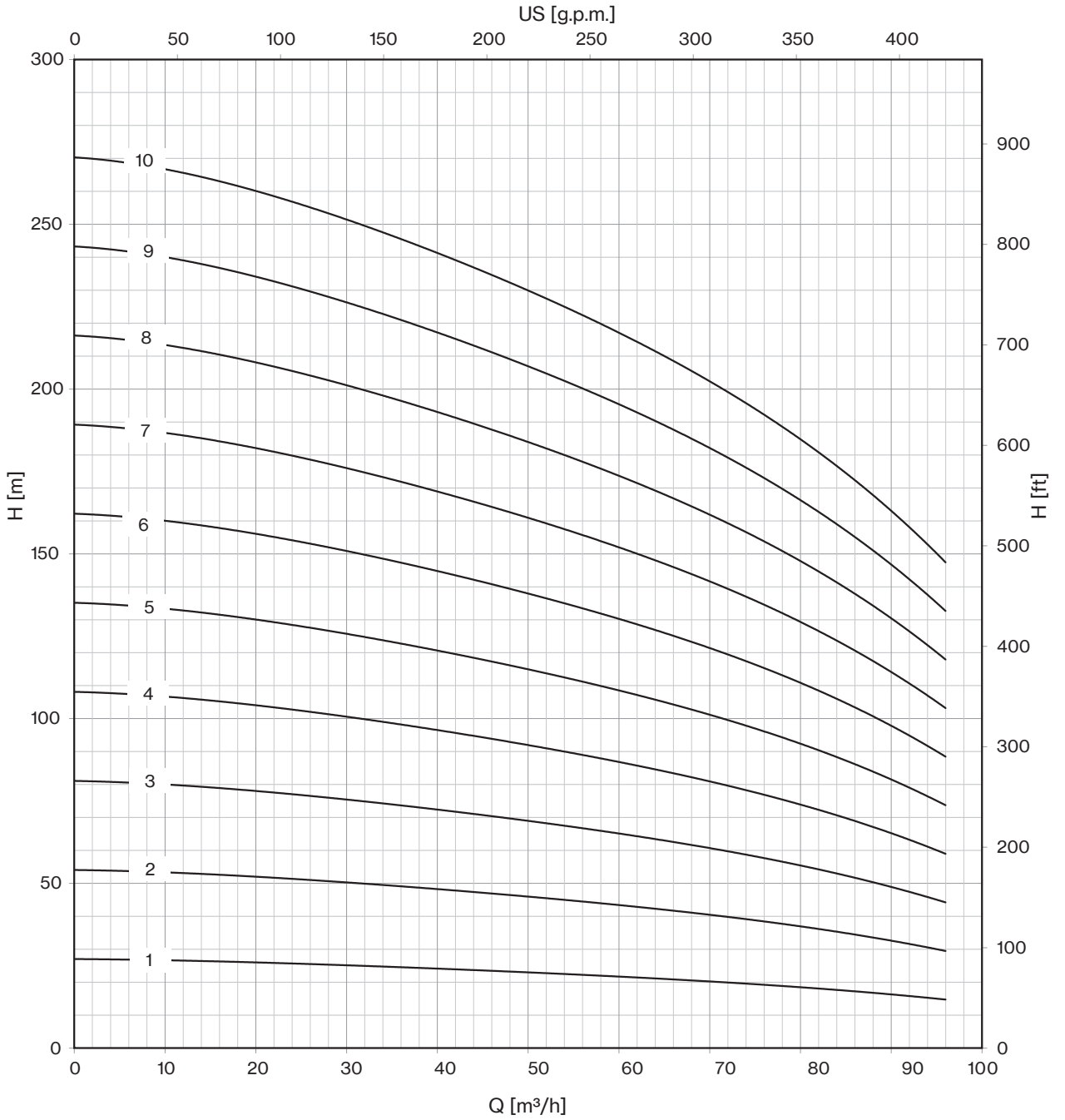
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	3,5	4,5

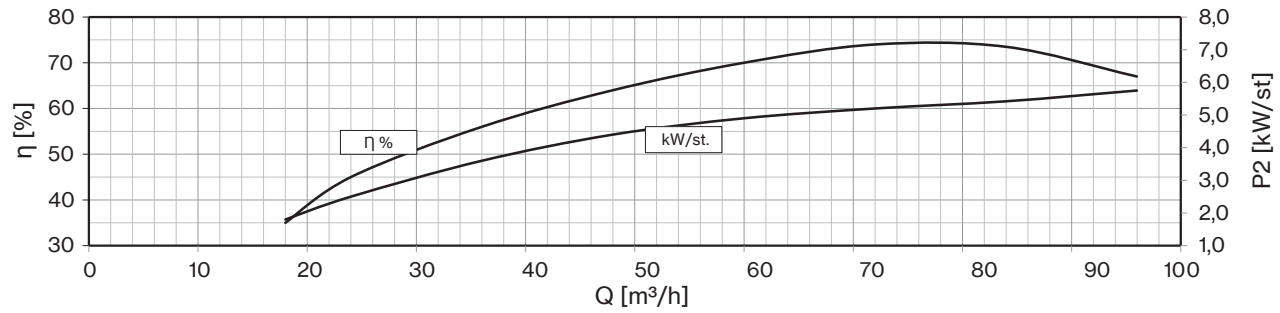




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 80/01-6	6" NEMA	1164	463	701	55	19
8LM 80/02-6		1429	588	841	70	25
8LM 80/03-6		1704	713	991	83	32
8LM 80/04-6		2019	838	1181	100	38
8LM 80/05-6		2214	963	1251	108	45
8LM 80/06-6		2429	1088	1341	118	51
8LM 80/07	8" NEMA	2336	1213	1123	178	58
8LM 80/08		2633	1400	1233	200	65
8LM 80/09		2758	1525	1233	200	71
8LM 80/10		2952	1650	1302	214	78





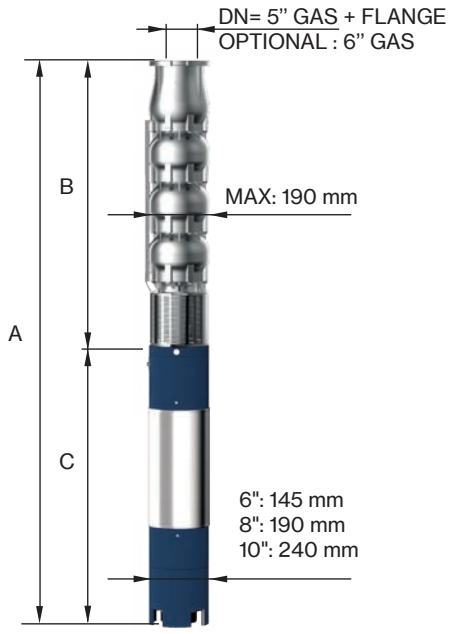
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

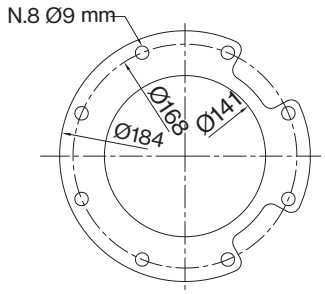
8LM 80

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	400	600	800	1000	1200	1400	1600
	P2		CURRENT	l/sec	0	5,0	6,7	10,0	13,3	16,7	20,0	23,3	26,7
	HP	kW	A	m³/h	0	18	24	36	48	60	72	84	96
8LM 80/11	90	66	126,0	H (m)	297	289	283	267	256	240	220	193	163
8LM 80/12	100	75	143,2		324	316	308	292	280	262	240	210	178
8LM 80/13	100	75	143,2		351	342	334	316	303	283	260	228	192
8LM 80/14	125	92	175,1		378	368	360	340	326	305	280	245	207
8LM 80/15	125	92	175,1		405	395	386	365	350	327	300	263	222
8LM 80/16	125	92	175,1		432	421	411	389	373	349	320	280	237
8LM 80/17D	150	110	211,0		459	447	437	413	396	371	340	298	252
8LM 80/18D	150	110	211,0		486	473	463	437	419	392	360	315	266
8LM 80/19D	150	110	211,0		513	500	488	462	443	414	380	333	281
8LM 80/20D	175	130	245,3		540	526	514	486	466	436	400	350	296

Max Eff. %	74
Max kW / St.	5,75

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3	3	3,5	4,5

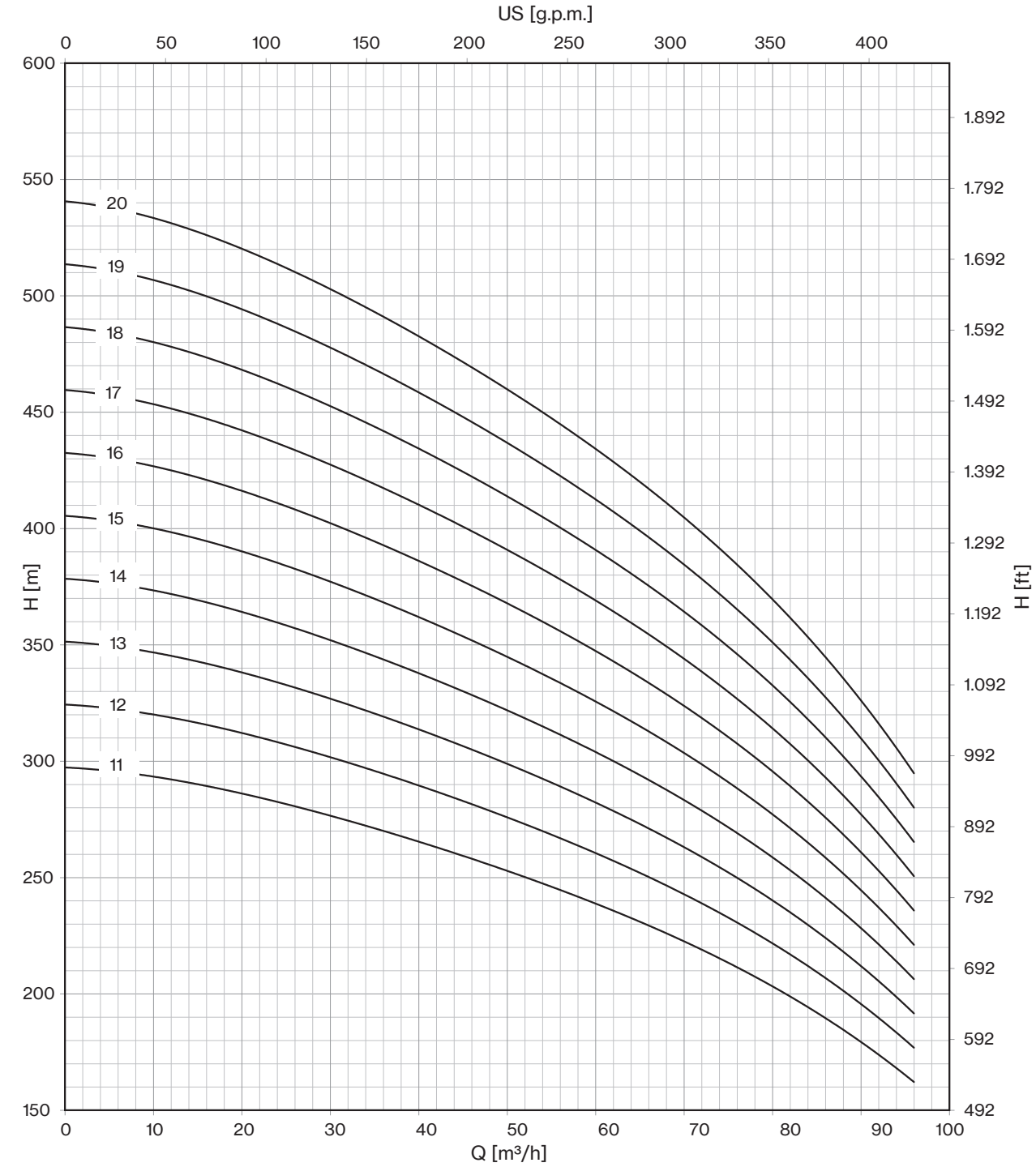


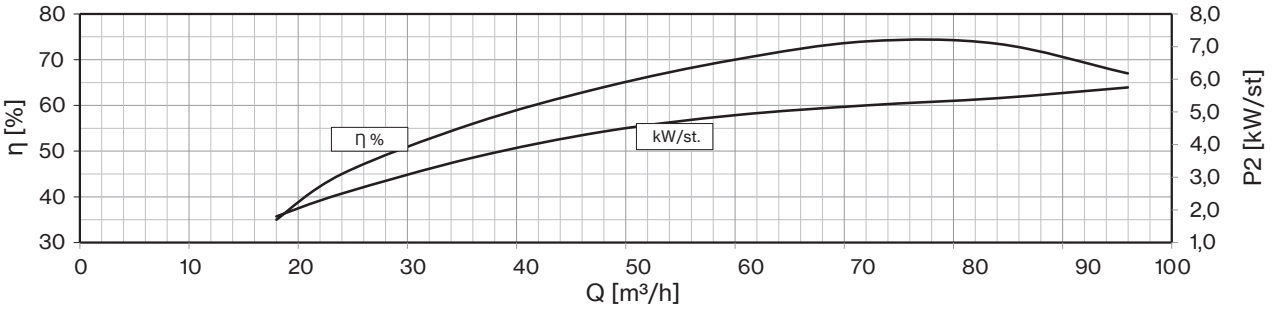


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 80/11	8" NEMA	3077	1775	1302	214	84
8LM 80/12		3283	1900	1383	230	90
8LM 80/13		3408	2025	1383	230	97
8LM 80/14		3733	2150	1583	270	103
8LM 80/15		3858	2275	1583	270	110
8LM 80/16		3983	2400	1583	270	116
8LM 80/17D		4258	2525	1733	300	123
8LM 80/18D		4383	2650	1733	300	129
8LM 80/19D		4508	2775	1733	300	136
8LM 80/20D-10	10"	4534	2900	1634	385	142

"D" Pump shaft in Duplex EN 1.4462


US [g.p.m.]
0
50
100
150
200
250
300
350
400
600
550
500
450
400
350
300
250
200
150
H [m]
1.892
1.792
1.692
1.592
1.492
1.392
1.292
1.192
1.092
992
892
792
692
592
492
H [ft]
20
19
18
17
16
15
14
13
12
11
0
10
20
30
40
50
60
70
80
90
100
Q [m³/h]

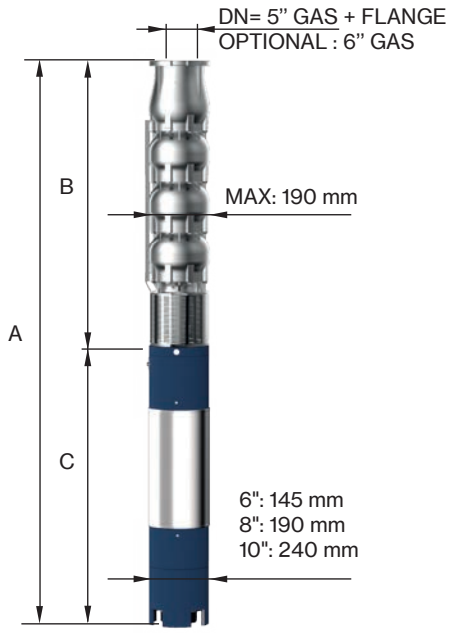

80
70
60
50
40
30
η [%]
8,0
7,0
6,0
5,0
4,0
3,0
2,0
1,0
P2 [kW/st]
η %
kW/st.
0
10
20
30
40
50
60
70
80
90
100
Q [m³/h]

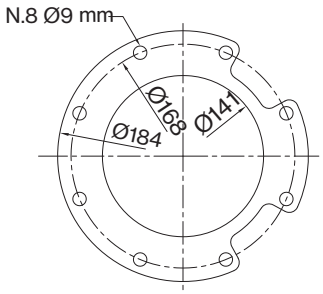
8LM 92

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	800	1000	1200	1400	1600	1800	2000
	P2		CURRENT	l/sec	0	5,0	13,3	16,7	20,0	23,3	26,7	30,0	33,3
	HP	kW	A	m³/h	0	18	48	60	72	84	96	108	120
8LM 92/01	10	7,5	16,3	H (m)	27	26	24	23	22	20	18	16	13
8LM 92/02	17,5	13	27,3		54	53	49	47	44	40	36	31	25
8LM 92/03	30	22	45,1		81	79	73	70	65	60	54	47	38
8LM 92/04	35	26	52,9		108	105	97	93	87	80	72	62	50
8LM 92/05	50	37	75,8		135	132	122	117	109	101	90	78	63
8LM 92/06	60	45	86,3		162	158	146	140	131	121	107	93	76
8LM 92/07	75	55	106,2		189	184	170	163	153	141	125	109	88
8LM 92/08	75	55	106,2		216	210	194	186	174	161	143	124	101
8LM 92/09	90	66	126,0		243	237	219	210	196	181	161	140	113
8LM 92/10	90	66	126,0		270	263	243	233	218	201	179	155	126

Max Eff. %	75
Max kW / St.	6,47

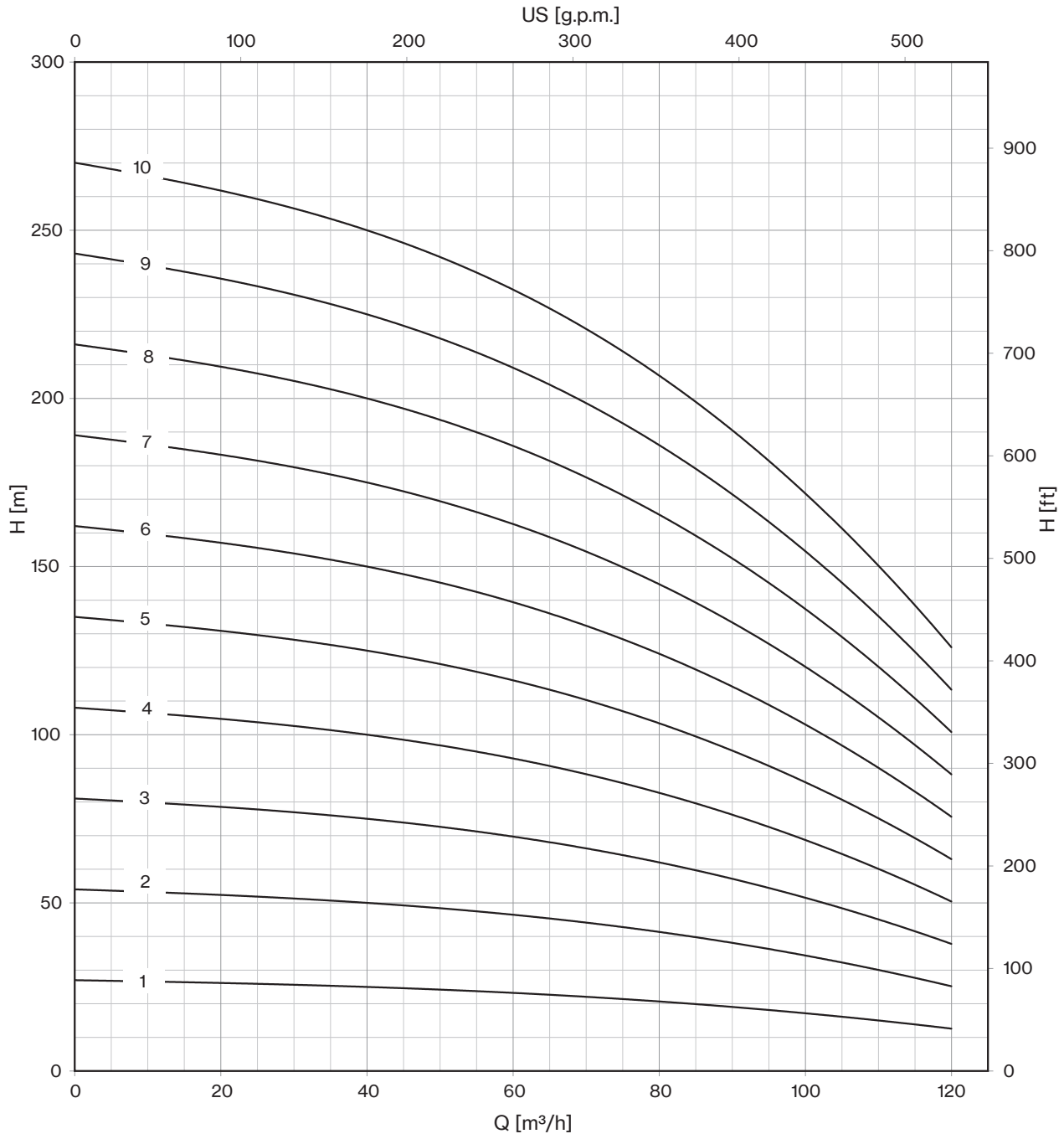
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

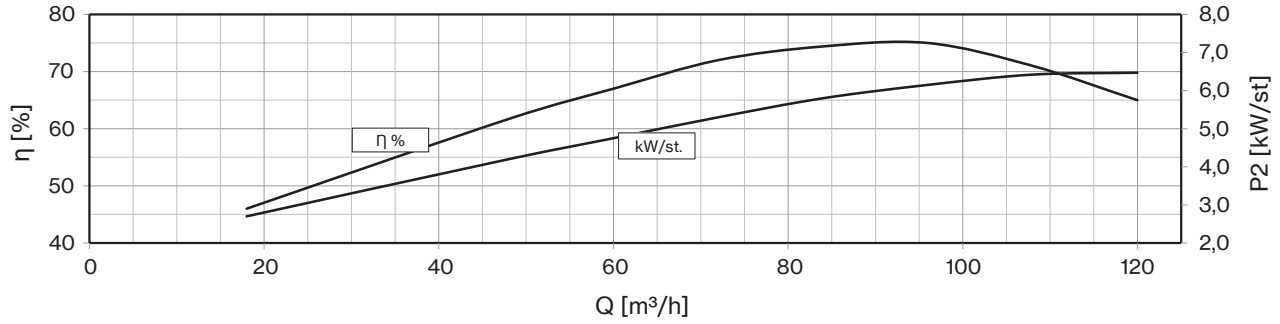




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 92/01-6	6" NEMA	1164	463	701	55	19
8LM 92/02-6		1429	588	841	70	26
8LM 92/03-6		1784	713	1071	92	32
8LM 92/04-6		2019	838	1181	100	39
8LM 92/05-6		2304	963	1341	118	46
8LM 92/06	8" NEMA	2211	1088	1123	178	53
8LM 92/07		2508	1275	1233	200	60
8LM 92/08		2633	1400	1233	200	67
8LM 92/09		2827	1525	1302	214	74
8LM 92/10		2952	1650	1302	214	81





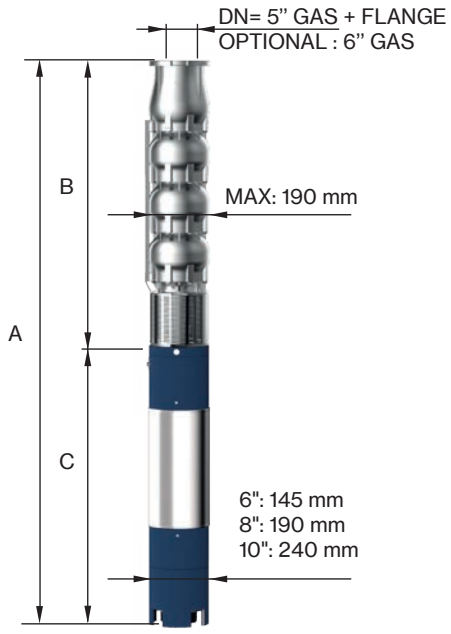
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

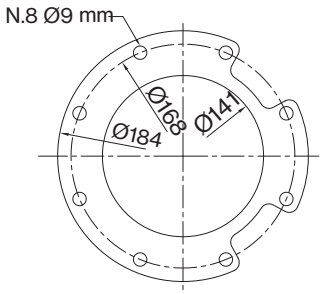
8LM 92

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	300	800	1000	1200	1400	1600	1800	2000
	P2		CURRENT	l/sec	0	5,0	13,3	16,7	20,0	23,3	26,7	30,0	33,3
	HP	kW	A	m³/h	0	18	48	60	72	84	96	108	120
8LM 92/11	100	75	143,2		297	289	267	256	240	221	197	171	139
8LM 92/12	125	92	175,1		324	316	292	280	262	241	215	186	151
8LM 92/13	125	92	175,1		351	342	316	303	283	261	233	202	164
8LM 92/14	125	92	175,1		378	368	340	326	305	281	251	217	176
8LM 92/15D	150	110	211,0	H	405	395	365	350	327	302	269	233	189
8LM 92/16D	150	110	211,0	(m)	432	421	389	373	349	322	286	248	202
8LM 92/17D	150	110	211,0		459	447	413	396	371	342	304	264	214
8LM 92/18D	175	130	245,3		486	473	437	419	392	362	322	279	227
8LM 92/19D	175	130	245,3		513	500	462	443	414	382	340	295	239
8LM 92/20D	175	130	245,3		540	526	486	466	436	402	358	310	252

Max Eff. %	75
Max kW / St.	6,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

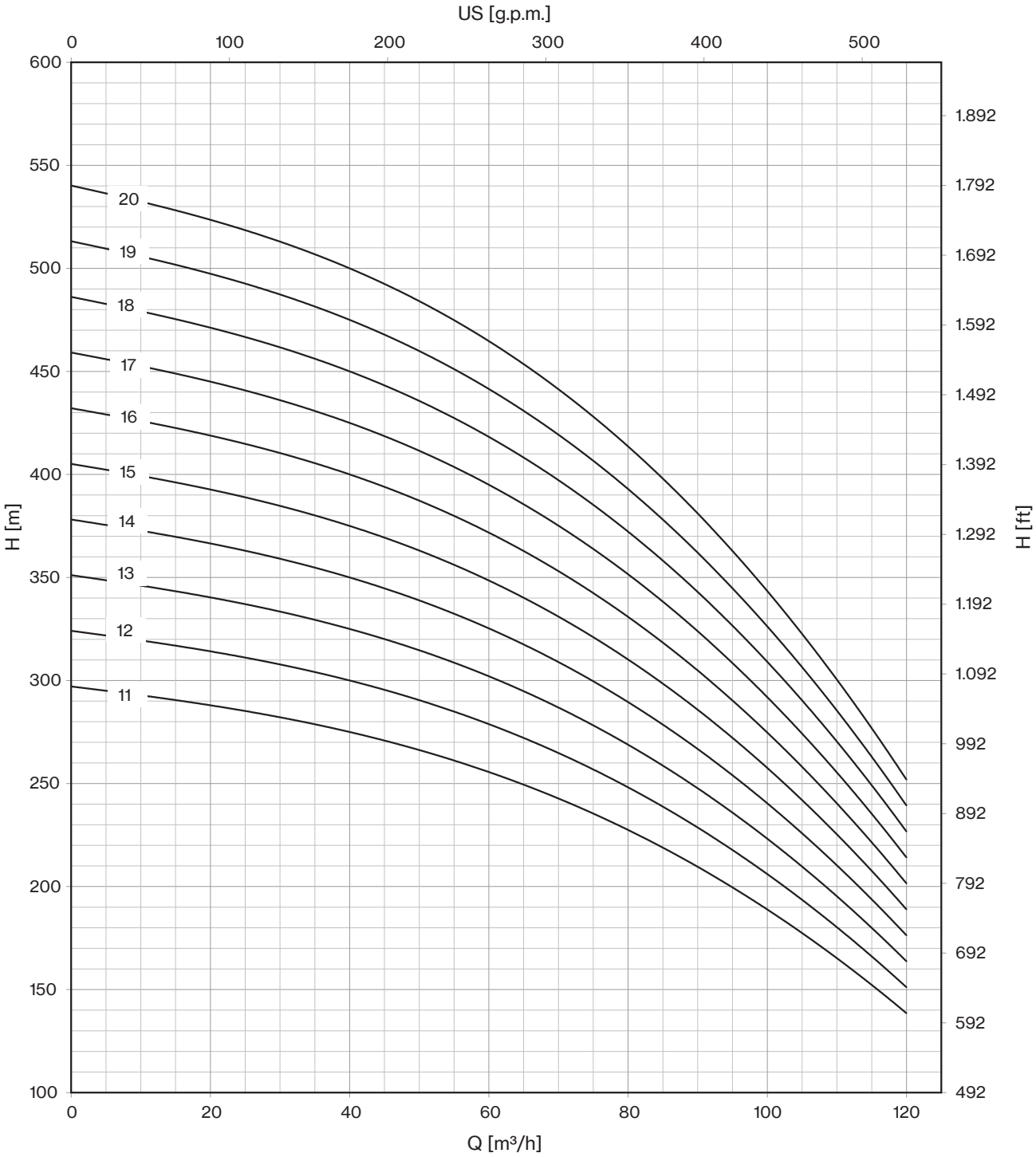


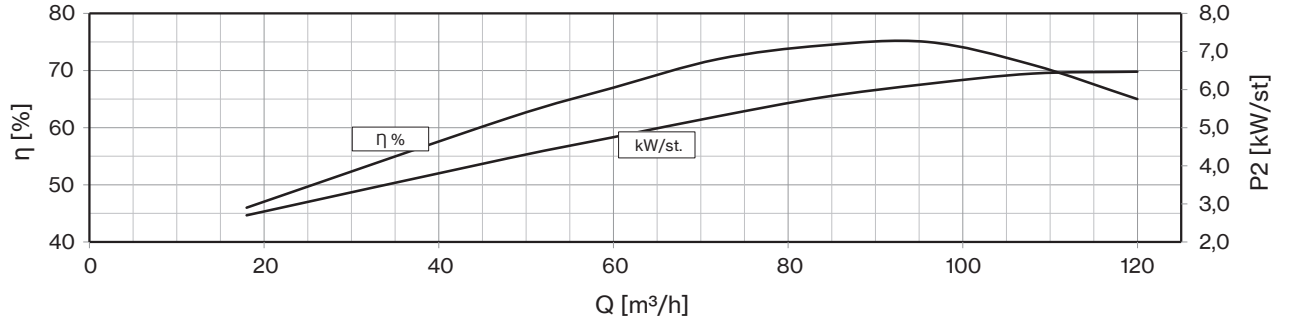


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 92/11	8" NEMA	3158	1775	1383	230	88
8LM 92/12		3483	1900	1583	270	94
8LM 92/13		3608	2025	1583	270	101
8LM 92/14		3733	2150	1583	270	108
8LM 92/15D		4008	2275	1733	300	115
8LM 92/16D		4133	2400	1733	300	122
8LM 92/17D		4258	2525	1733	300	128
8LM 92/18D-10	10"	4284	2650	1634	385	138
8LM 92/19D-10		4409	2775	1634	385	145
8LM 92/20D-10		4534	2900	1634	385	152

"D" Pump shaft in Duplex EN 1.4462





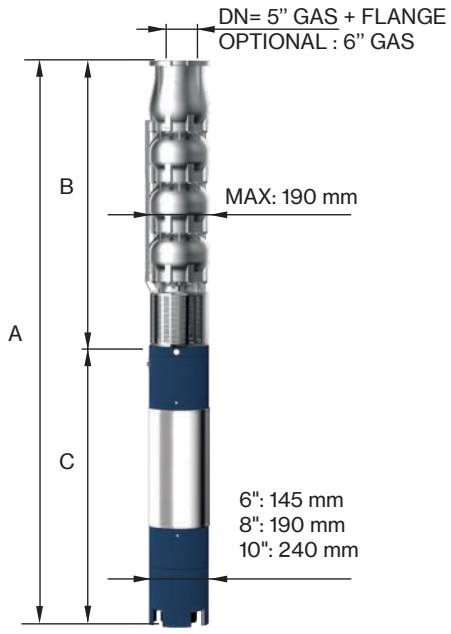
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

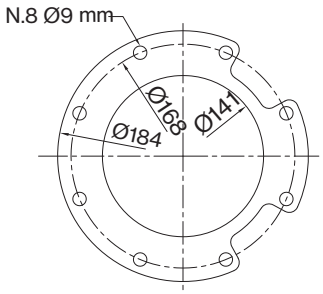
8LM 110

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	1200	1400	1600	1800	2000	2200	2400
	P2		CURRENT	l/sec	0	10,0	20,0	23,3	26,7	30,0	33,3	36,7	40,0
	HP	kW	A	m³/h	0	36	72	84	96	108	120	132	144
8LM 110/01	10	7,5	16,3	H (m)	28	25	22	21	20	19	17	15	13
8LM 110/02	20	15	31,5		55	51	44	42	41	38	35	31	26
8LM 110/03	30	22	45,1		83	76	65	63	61	57	52	46	38
8LM 110/04	40	30	61,1		110	101	87	84	82	76	69	62	51
8LM 110/05	50	37	75,8		138	127	109	106	102	96	87	77	64
8LM 110/06	60	45	86,3		165	152	131	127	122	115	104	92	77
8LM 110/07	75	55	106,2		193	177	153	148	143	134	121	108	90

Max Eff. %	77
Max kW / St.	7,2

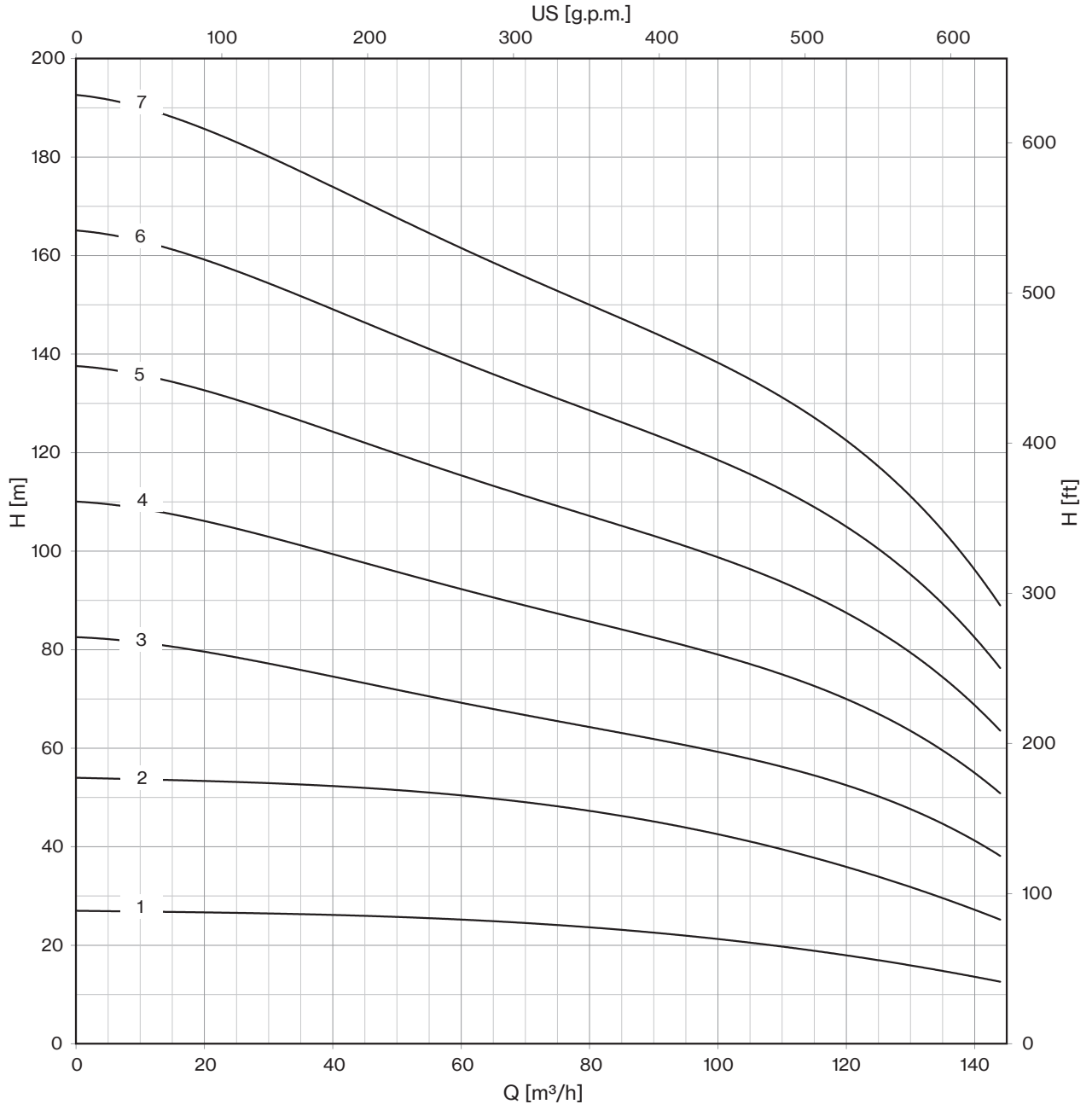
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

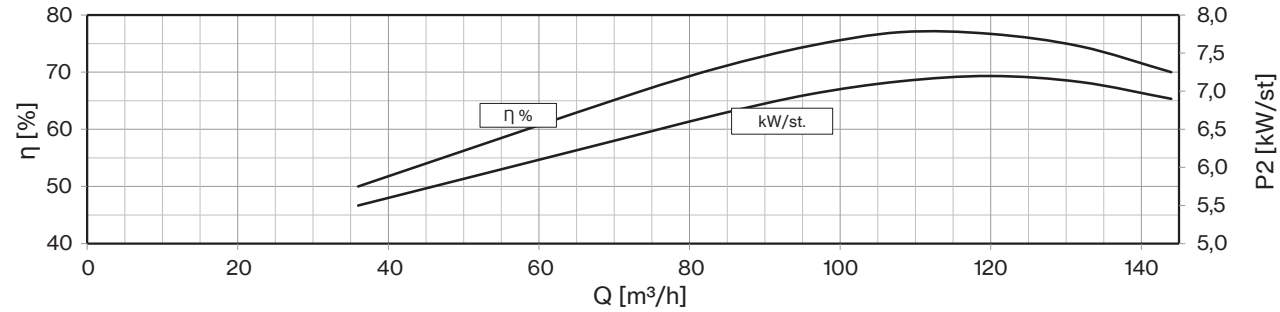




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 110/01-6	6" NEMA	1164	463	701	55	19
8LM 110/02-6		1519	588	931	75	26
8LM 110/03-6		1784	713	1071	92	32
8LM 110/04-6		2089	838	1251	108	39
8LM 110/05-6		2304	963	1341	118	46
8LM 110/06	8" NEMA	2273	1150	1123	178	54
8LM 110/07		2508	1275	1233	200	60





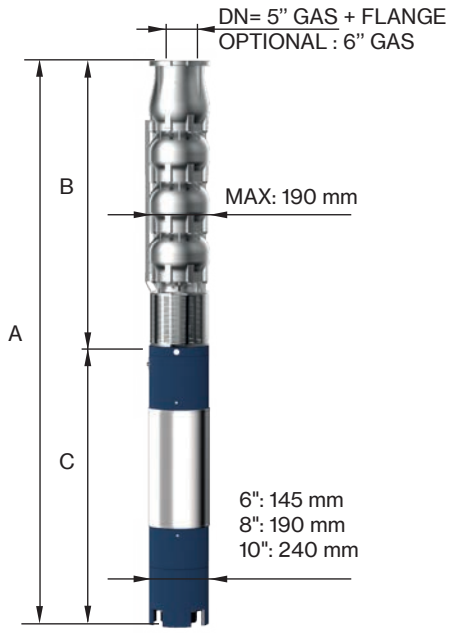
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

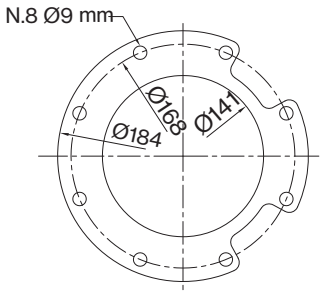
8LM 110

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	1200	1400	1600	1800	2000	2200	2400
	P2		CURRENT	l/sec	0	10,0	20,0	23,3	26,7	30,0	33,3	36,7	40,0
	HP	kW	A	m³/h	0	36	72	84	96	108	120	132	144
8LM 110/08	90	66	126,0	H (m)	220	202	174	169	163	153	138	123	102
8LM 110/09	90	66	126,0		248	228	196	190	184	172	156	139	115
8LM 110/10	100	75	143,2		275	253	218	211	204	191	173	154	128
8LM 110/11	125	92	175,1		303	278	240	232	224	210	190	169	141
8LM 110/12	125	92	175,1		330	304	262	253	245	229	208	185	154
8LM 110/13D	150	110	211,0		358	329	283	274	265	248	225	200	166
8LM 110/14D	150	110	211,0		385	354	305	295	286	267	242	216	179
8LM 110/15D	150	110	211,0		413	380	327	317	306	287	260	231	192
8LM 110/16D	175	130	245,3		440	405	349	338	326	306	277	246	205
8LM 110/17D	175	130	245,3		468	430	371	359	347	325	294	262	218
8LM 110/18D	175	130	245,3		495	455	392	380	367	344	311	277	230

Max Eff. %	77
Max kW / St.	7,2

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

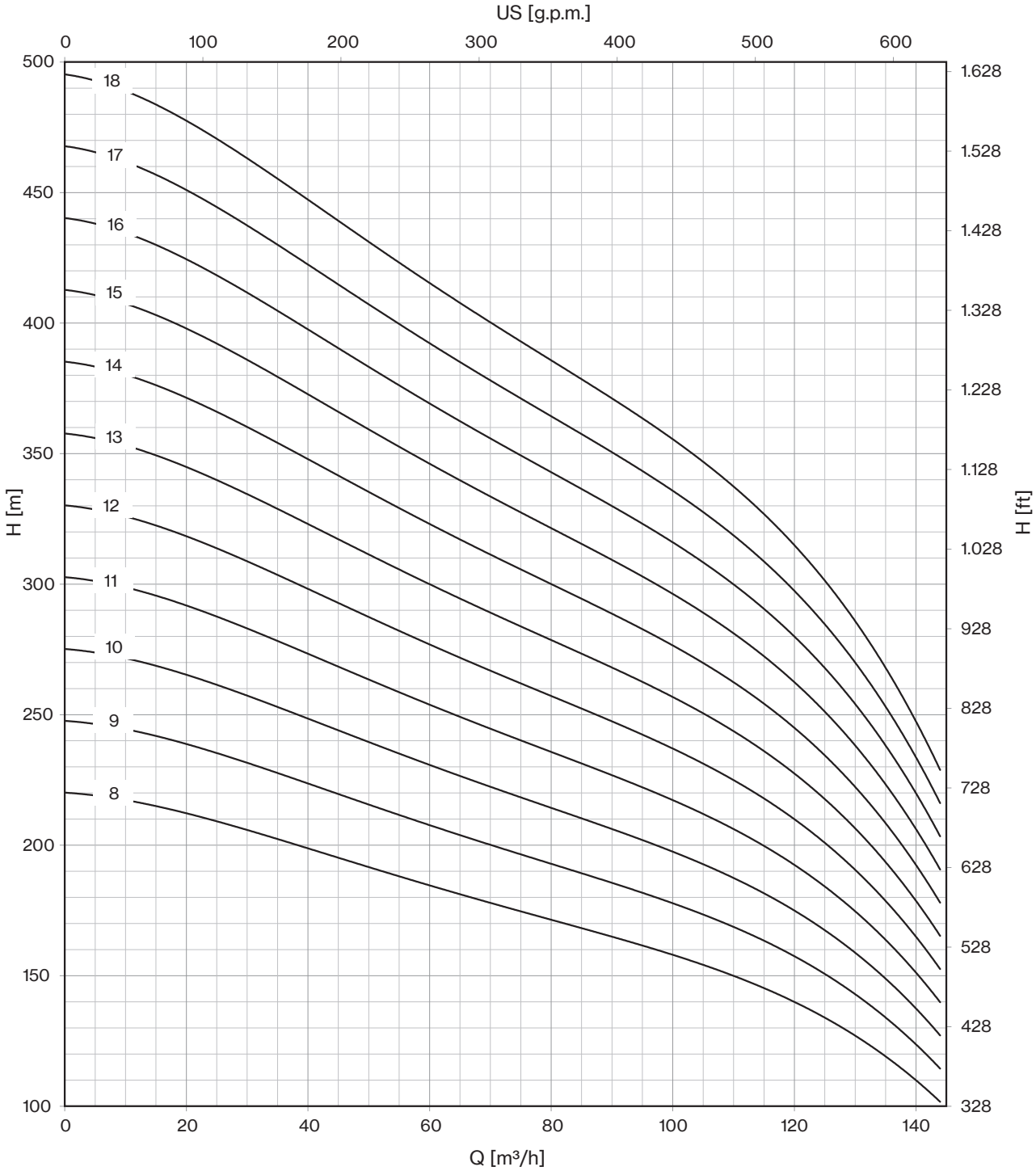


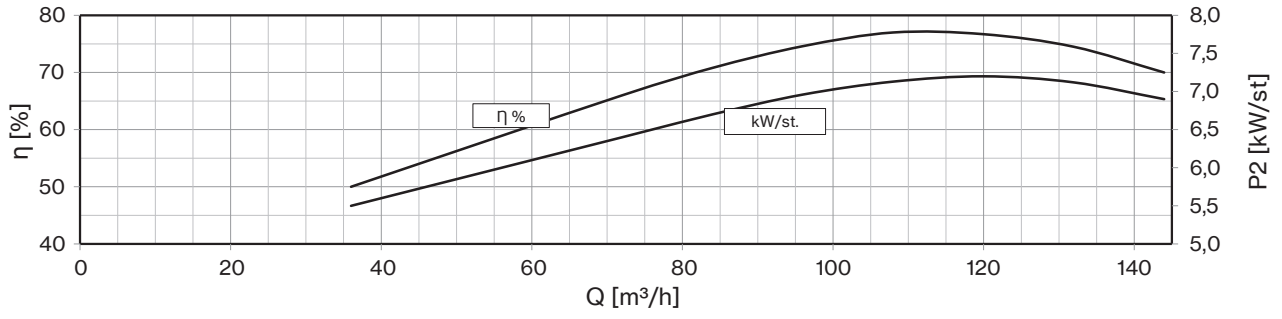


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 110/08	8" NEMA	2702	1400	1302	214	67
8LM 110/09		2827	1525	1302	214	74
8LM 110/10		3033	1650	1383	230	81
8LM 110/11		3358	1775	1583	270	88
8LM 110/12		3483	1900	1583	270	94
8LM 110/13D		3758	2025	1733	300	101
8LM 110/14D		3883	2150	1733	300	108
8LM 110/15D		4008	2275	1733	300	115
8LM 110/16D-10	10"	4034	2400	1634	385	125
8LM 110/17D-10		4159	2525	1634	385	132
8LM 110/18D-10		4284	2650	1634	385	138

"D" Pump shaft in Duplex EN 1.4462





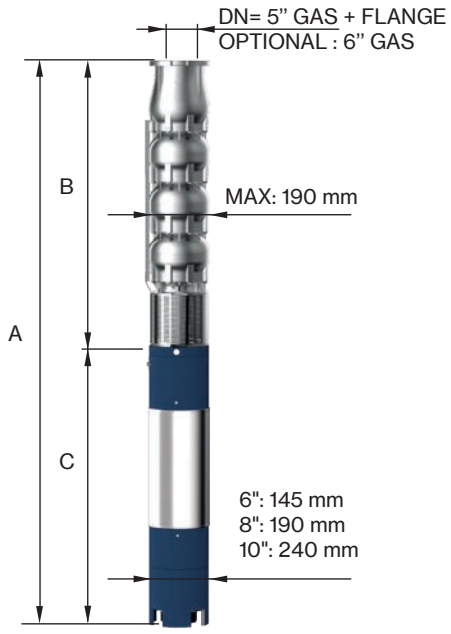
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

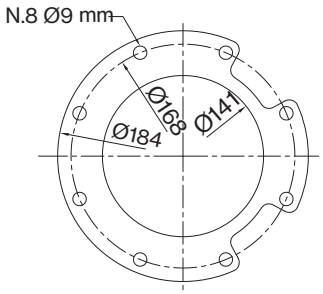
8LM 130

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	1600	1800	2000	2200	2400	2600	2800
	P2		CURRENT	l/sec	0	10,0	26,7	30,0	33,3	36,7	40,0	43,3	46,7
	HP	kW	A	m³/h	0	36	96	108	120	132	144	156	168
8LM 130/01	12,5	9,2	19,9		27	25	21	20	19	18	16	15	12
8LM 130/02	25	18,5	38,3		54	49	41	40	38	36	33	29	24
8LM 130/03	35	26	52,9		81	74	62	59	57	54	49	44	36
8LM 130/04	50	37	75,8	H	108	98	83	79	76	72	66	58	48
8LM 130/05	60	45	86,3	(m)	135	123	104	99	95	90	82	73	60
8LM 130/06	75	55	106,2		162	147	124	119	114	108	98	87	72
8LM 130/07	90	66	126,0		189	172	145	139	133	126	115	102	84
8LM 130/08	100	75	143,2		216	196	166	158	152	144	131	116	96

Max Eff. %	78
Max kW / St.	8,4

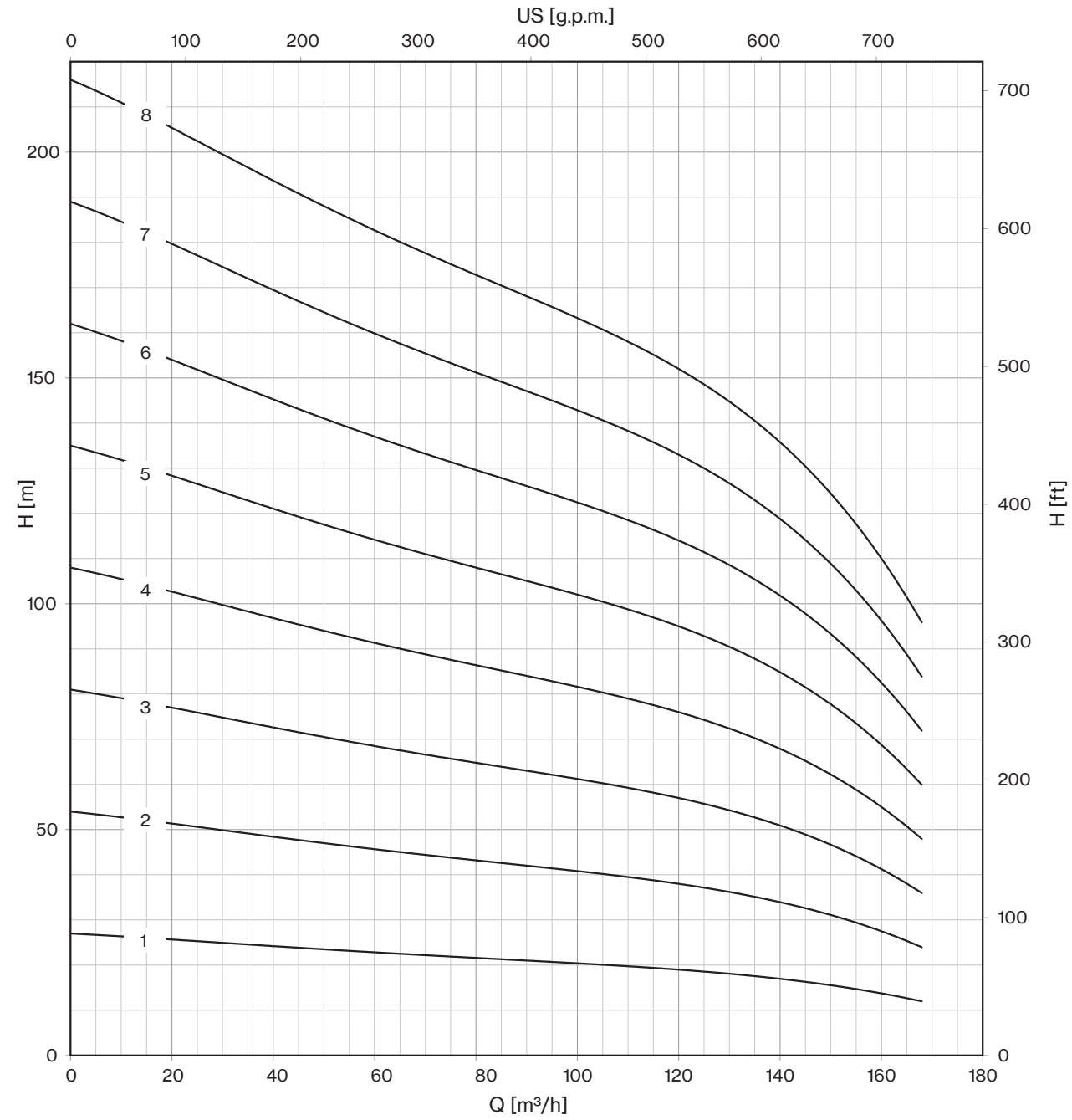
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3	3,5	8,7

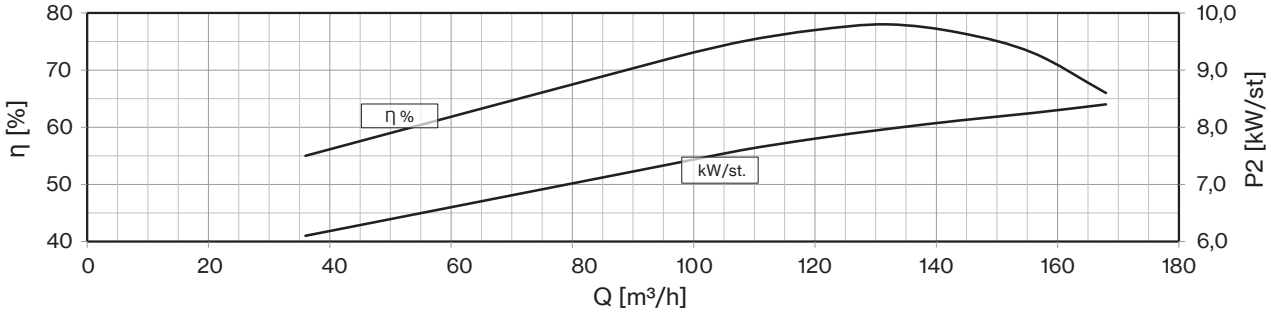




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 130/01-6	6" NEMA	1214	463	751	60	19
8LM 130/02-6		1579	588	991	83	26
8LM 130/03-6		1894	713	1181	100	33
8LM 130/04-6		2179	838	1341	118	40
8LM 130/05	8" NEMA	2148	1025	1123	178	48
8LM 130/06		2383	1150	1233	200	55
8LM 130/07		2577	1275	1302	214	62
8LM 130/08		2783	1400	1383	230	69





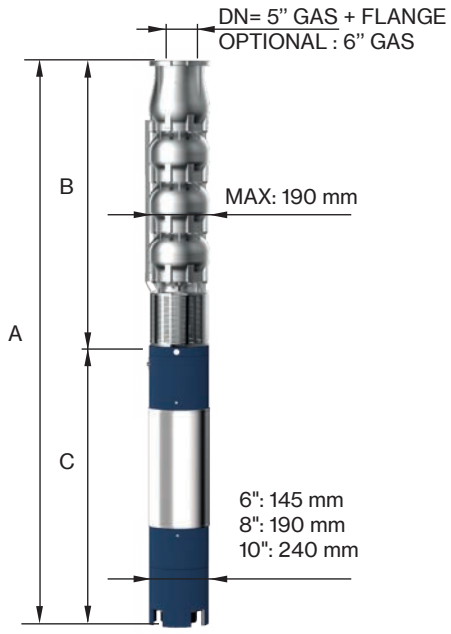
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

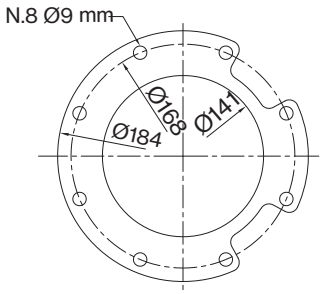
8LM 130

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	1600	1800	2000	2200	2400	2600	2800
	P2		CURRENT	l/sec	0	10,0	26,7	30,0	33,3	36,7	40,0	43,3	46,7
	HP	kW	A	m³/h	0	36	96	108	120	132	144	156	168
8LM 130/09	125	92	175,1		243	221	186	178	171	162	148	131	108
8LM 130/10	125	92	175,1		270	245	207	198	190	180	164	145	120
8LM 130/11	150	110	211,0		297	270	228	218	209	198	180	160	132
8LM 130/12D	150	110	211,0		324	294	248	238	228	216	197	174	144
8LM 130/13D	150	110	211,0	H (m)	351	319	269	257	247	234	213	189	156
8LM 130/14D	175	130	245,3		378	343	290	277	266	252	230	203	168
8LM 130/15D	175	130	245,3		405	368	311	297	285	270	246	218	180
8LM 130/16D	200	150	277,2		432	392	331	317	304	288	262	232	192
8LM 130/17D	200	150	277,2		459	417	352	337	323	306	279	247	204
8LM 130/18D	225	165	313,3		486	441	373	356	342	324	295	261	216

Max Eff. %	78
Max kW / St.	8,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3	3,5	8,7

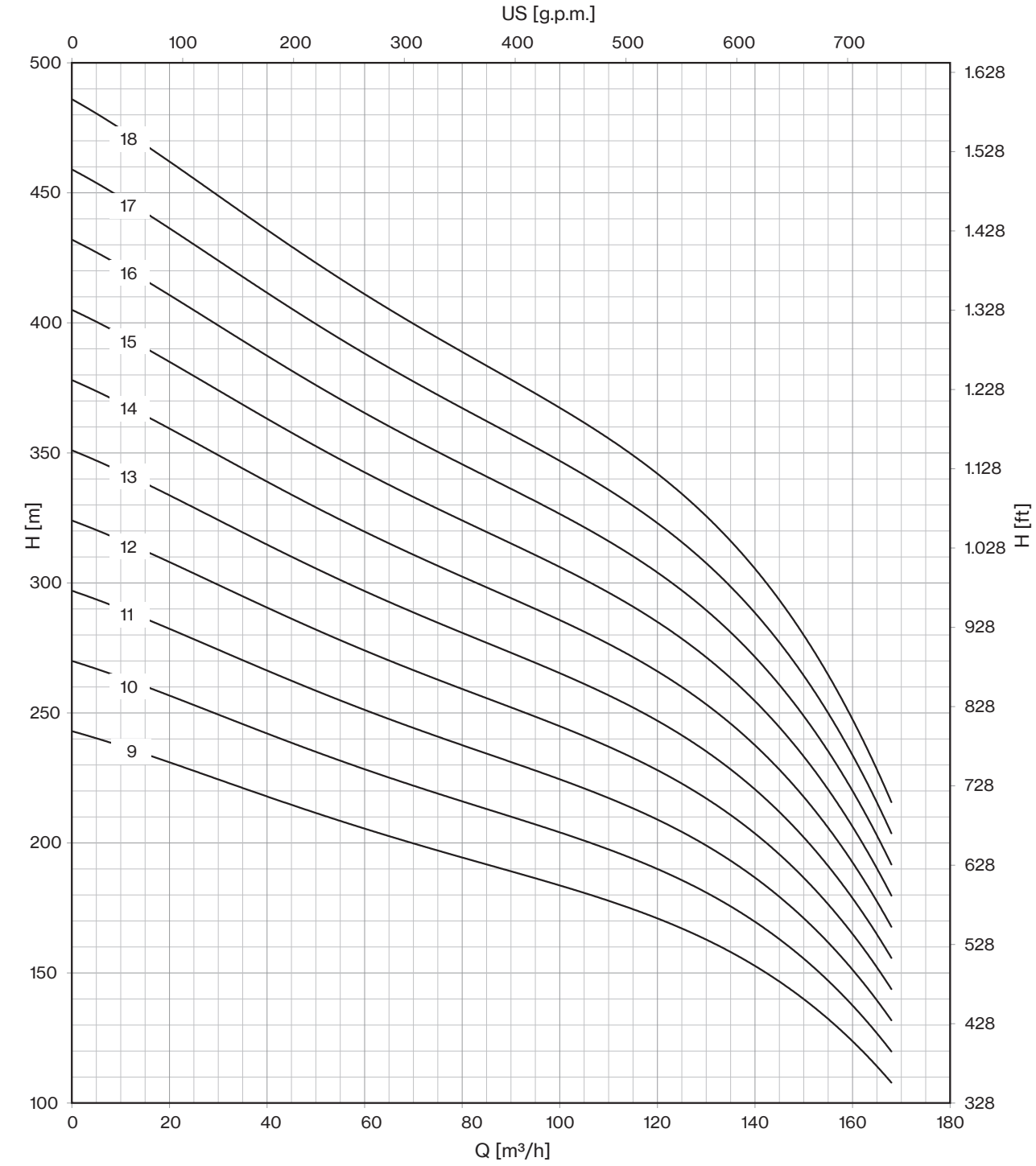


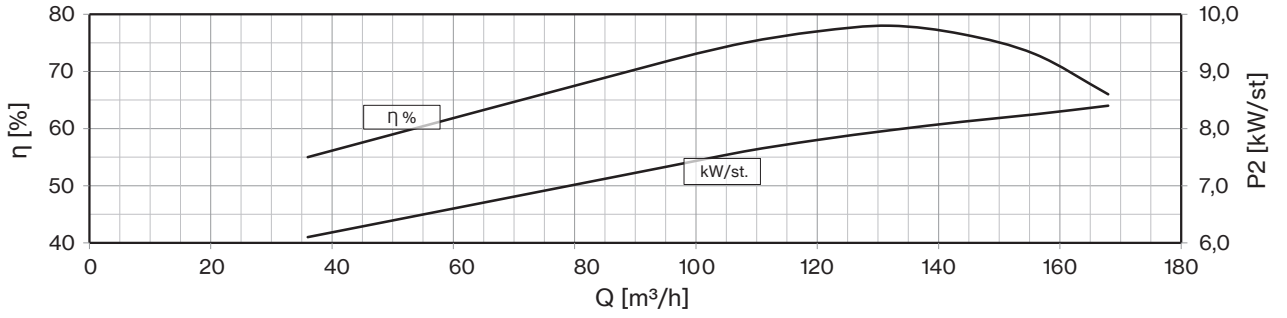


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 130/09	8" NEMA	3108	1525	1583	270	76
8LM 130/10		3233	1650	1583	270	83
8LM 130/11		3508	1775	1733	300	90
8LM 130/12D		3633	1900	1733	300	97
8LM 130/13D		3758	2025	1733	300	104
8LM 130/14D-10	10"	3784	2150	1634	385	114
8LM 130/15D-10		3909	2275	1634	385	121
8LM 130/16D-10		4134	2400	1734	415	128
8LM 130/17D-10		4259	2525	1734	415	135
8LM 130/18D-10		4504	2650	1854	444	142

"D" Pump shaft in Duplex EN 1.4462





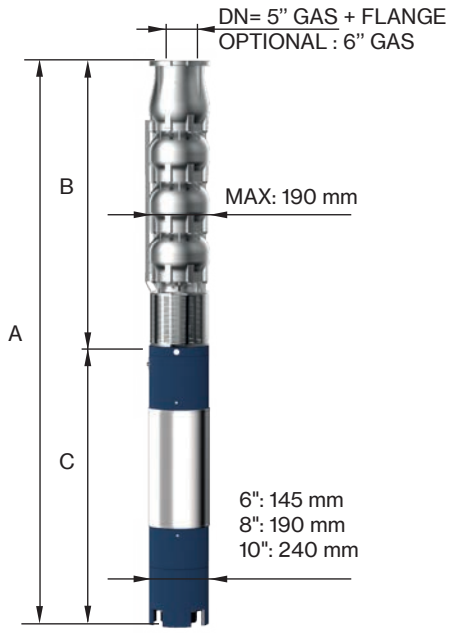
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

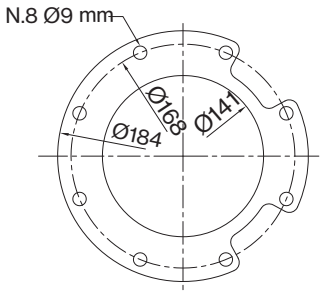
8LM 160

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	2000	2200	2400	2600	2800	3000	3200
	P2		CURRENT	l/sec	0	10,0	33,3	36,7	40,0	43,3	46,7	50,0	53,3
	HP	kW	A	m³/h	0	36	120	132	144	156	168	180	192
8LM 160/01	15	11	23,4		25	24	19	18	17	17	16	14	12
8LM 160/02	30	22	45,1		50	48	38	36	35	33	31	28	24
8LM 160/03	40	30	61,1		75	71	56	54	52	50	47	41	36
8LM 160/04	60	45	86,3	H	100	95	75	72	70	66	62	55	48
8LM 160/05	75	55	106,2	(m)	125	119	94	91	87	83	78	69	60
8LM 160/06	90	66	126,0		150	143	113	109	104	100	93	83	72
8LM 160/07	90	66	126,0		175	167	132	127	122	116	109	97	84
8LM 160/08	125	92	175,1		200	190	150	145	139	133	124	110	96

Max Eff. %	78,5
Max kW / St.	9,4

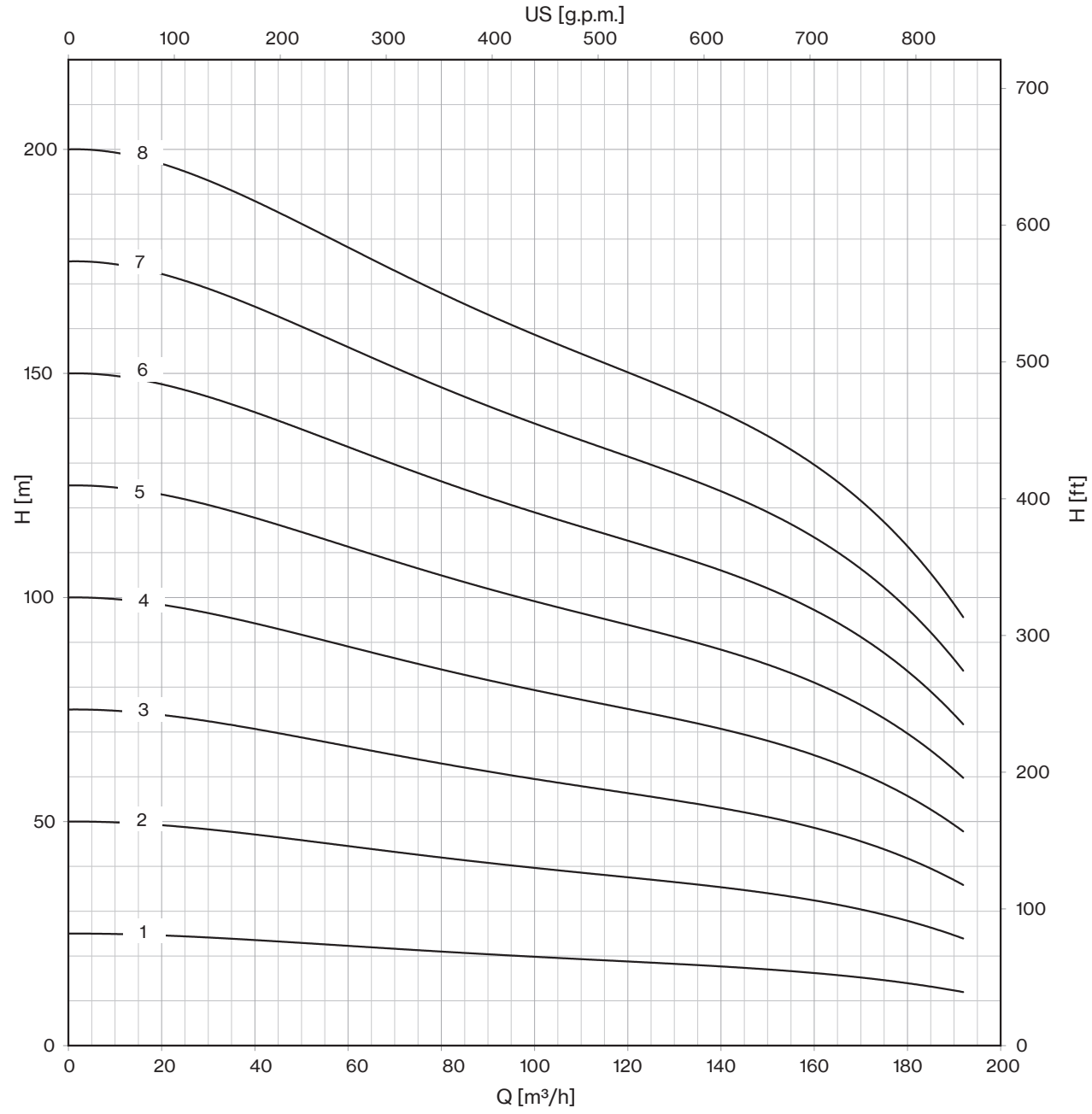
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	4	4,5	7	13

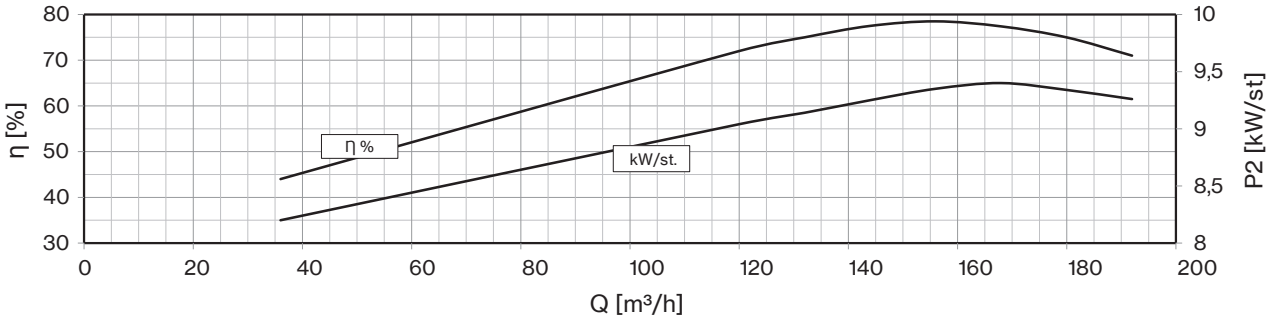




FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 160/01-6	6" NEMA	1299	488	811	65	20
8LM 160/02-6		1709	638	1071	92	27
8LM 160/03-6		2039	788	1251	108	35
8LM 160/04	8" NEMA	2061	938	1123	178	42
8LM 160/05		2383	1150	1233	200	50
8LM 160/06		2602	1300	1302	214	58
8LM 160/07		2752	1450	1302	214	65
8LM 160/08		3183	1600	1583	270	73





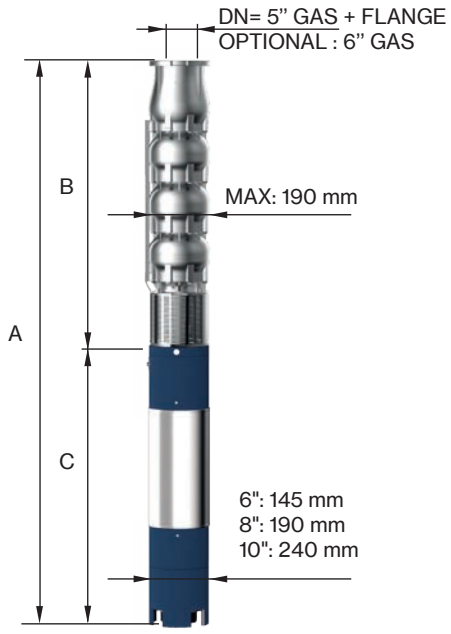
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

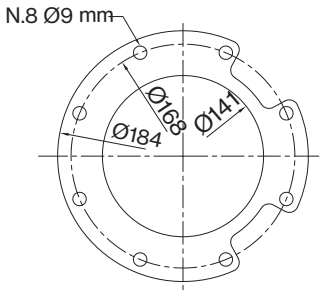
8LM 160

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	600	2000	2200	2400	2600	2800	3000	3200
	P2		CURRENT	l/sec	0	10,0	33,3	36,7	40,0	43,3	46,7	50,0	53,3
	HP	kW	A	m³/h	0	36	120	132	144	156	168	180	192
8LM 160/09	125	92	175,1		225	214	169	163	157	149	140	124	108
8LM 160/10D	150	110	211,0		250	238	188	181	174	166	155	138	120
8LM 160/11D	150	110	211,0		275	262	207	199	191	183	171	152	132
8LM 160/12D	175	130	245,3		300	286	226	217	209	199	186	166	144
8LM 160/13D	175	130	245,3	H (m)	325	309	244	235	226	216	202	179	156
8LM 160/14D	200	150	277,2		350	333	263	253	244	232	217	193	168
8LM 160/15D	200	150	277,2		375	357	282	272	261	249	233	207	180
8LM 160/16D	225	165	313,3		400	381	301	290	278	266	248	221	192
8LM 160/17D	225	165	313,3		425	405	320	308	296	282	264	235	204
8LM 160/18D	250	185	342,2		450	428	338	326	313	299	279	248	216

Max Eff. %	78,5
Max kW / St.	9,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	4	4,5	7	13

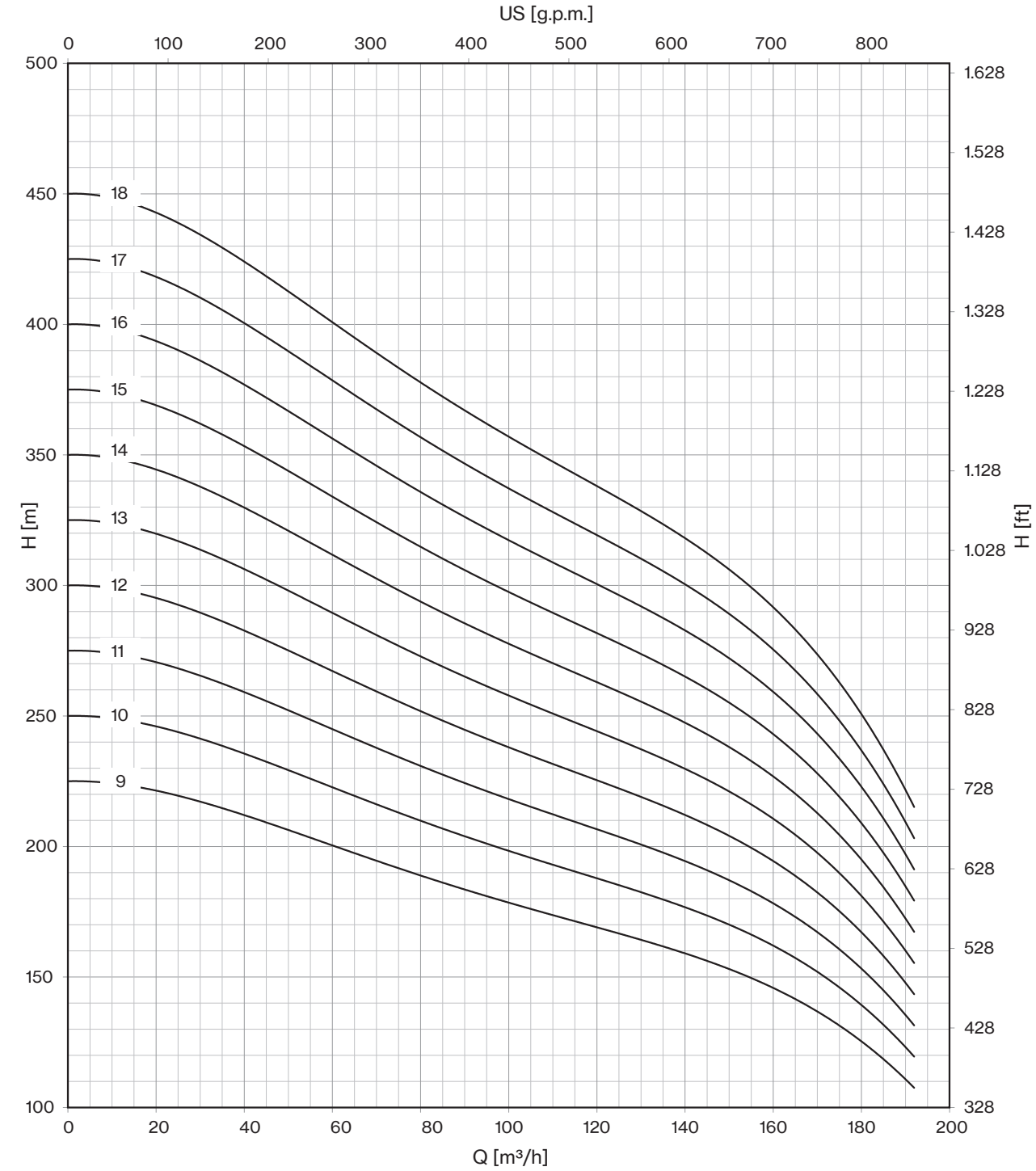


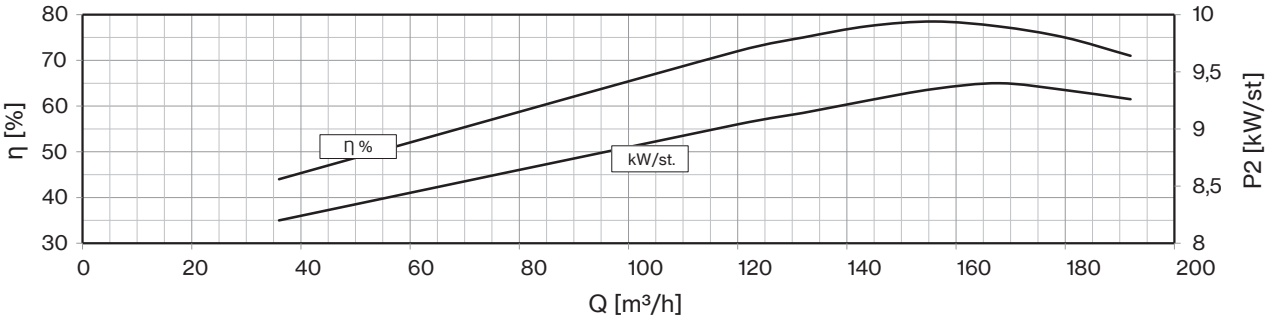


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 160/09	8" NEMA	3333	1750	1583	270	80
8LM 160/10D		3633	1900	1733	300	88
8LM 160/11D		3783	2050	1733	300	95
8LM 160/12D-10	10"	3834	2200	1634	385	103
8LM 160/13D-10		3984	2350	1634	385	114
8LM 160/14D-10		4234	2500	1734	415	121
8LM 160/15D-10		4384	2650	1734	415	129
8LM 160/16D-10		4654	2800	1854	444	136
8LM 160/17D-10		4804	2950	1854	444	144
8LM 160/18D-10		5084	3100	1984	480	151

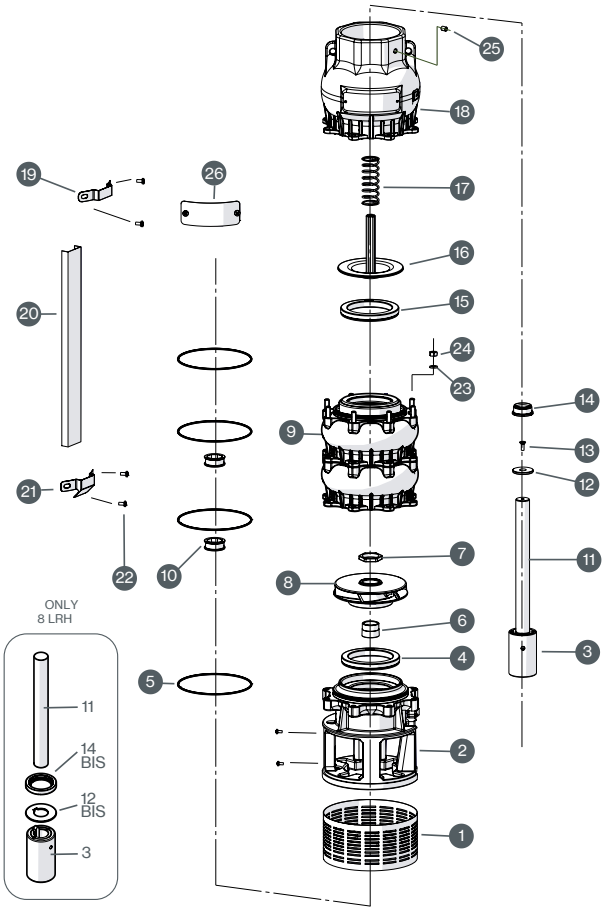
"D" Pump shaft in Duplex EN 1.4462





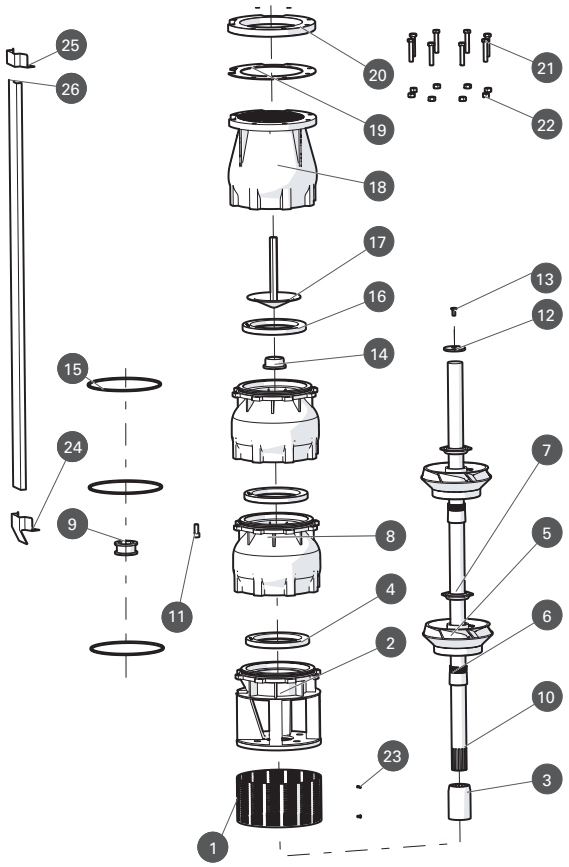
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

6LRH-8LRH



N. CODE	DESCRIPTION	LRHS EXECUTION	LRHX EXECUTION	LRHD EXECUTION	(*) Q.TY
1	**SUCTION STRAINER**	AISI 304	AISI 316	Duplex EN 1.4462	-
2	**MOTOR BRACKET**	AISI 304	AISI 316	Duplex EN 1.4462	-
3	**COUPLING**	AISI 304	AISI 316	Duplex EN 1.4462	1
4	**WEAR RING**	NBR	NBR	NBR	N° of Stages
5	**O-RING**	NBR	NBR	NBR	N° of Stages
6	**CONE**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
7	**HEXAGONAL RING**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
8	**IMPELLER**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
9	**DIFFUSER**	AISI 304	AISI 316	Duplex EN 1.4462	-
10	**BEARING BUSH**	NBR	NBR	NBR	N° of Stages
11	**SHAFT**	AISI 304	AISI 316	Duplex EN 1.4462	1
12	**DISK**	AISI 304	AISI 316	Duplex EN 1.4462	-
13	**SCREW**	AISI 304	AISI 316	Duplex EN 1.4462	-
14	**COUNTERTHRUST**	PTFE+25% CARBON	PTFE+25% CARBON	PTFE+25% CARBON	1
15	**GASKET VALVE**	NBR	NBR	NBR	1
16	**VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
17	**SPRING**	AISI 301	AISI 316	Duplex EN 1.4462	-
18	**BODY VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
19	**UPPER FLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
20	**COVER CABLE**	AISI 304	AISI 316	Duplex EN 1.4462	-
21	**LOWER FLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
22	**SCREW M4x8**	AISI 304	AISI 316	Duplex EN 1.4462	-
23	**WASHER**	AISI 304	AISI 316	Duplex EN 1.4462	-
24	**NUT**	AISI 304	AISI 316	Duplex EN 1.4462	-
25	**GRAIN**	AISI 304	AISI 316	Duplex EN 1.4462	-
26	**METALLIC LABEL**	AISI 304	AISI 316	Duplex EN 1.4462	-

** Reccomended spare parts quantity*

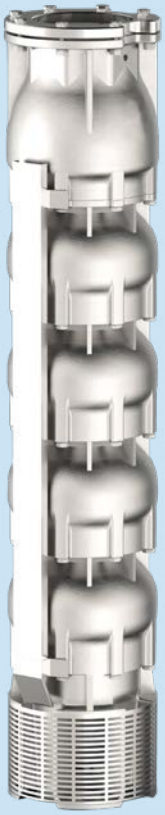


N. CODE	DESCRIPTION	LMS EXECUTION	LMX EXECUTION	LMD EXECUTION	(*) Q.TY
1	**SUCTION STRAINER**	AISI 304	AISI 316	Duplex EN 1.4462	-
2	**MOTOR BRACKET**	AISI 304	AISI 316	Duplex EN 1.4462	-
3	**COUPLING**	AISI 304	AISI 316	Duplex EN 1.4462	1
4	**WEAR RING**	NBR	NBR	NBR	N° of Stages
5	**IMPELLER**	AISI 304	AISI 316	Duplex EN 1.4462	-
6	**CONE**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
7	**HEXAGONAL RING**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
8	**DIFFUSEUR**	AISI 304	AISI 316	Duplex EN 1.4462	-
9	**BEARING BUSH**	NBR	NBR	NBR	N° of Stages
10	**PUMP SHAFT**	AISI 304	AISI 316	Duplex EN 1.4462	1
11	**N.8 SCREW FOR DIFFUSEUR**	AISI 304	AISI 316	Duplex EN 1.4462	-
12	**RING**	AISI 304	AISI 316	Duplex EN 1.4462	1
13	**SCREW FOR DISK**	AISI 304	AISI 316	Duplex EN 1.4462	1
14	**COUNTERTHRUST**	PTFE + 25% CARBON	PTFE + 25% CARBON	PTFE + 25% CARBON	1
15	**O-RING**	NBR	NBR	NBR	N° of Stages
16	**GASKET VALVE**	NBR	NBR	NBR	1
17	**CAP VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
18	**BODY VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
19	**SEAL COUNTERFLANGE**	NBR	NBR	NBR	1
20	**COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
21	**N.8 SCREW FOR COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
22	**N.8 NUT FOR COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
23	**N.2 SCREW FOR SUCTION STRAINER**	AISI 304	AISI 316	Duplex EN 1.4462	-
24	**LOWER CLAMP**	AISI 304	AISI 316	Duplex EN 1.4462	-
25	**UPPER CLAMP**	AISI 304	AISI 316	Duplex EN 1.4462	-
26	**COVER CABLE**	AISI 304	AISI 316	Duplex EN 1.4462	-

** Reccomended spare parts quantity*

10-12LM & E14 line

Submersible Well Pumps



10LM line

12LM line

E14

Submersible Multistage Centrifugal Pumps for 10", 12", and 14" Wells.
These pumps are equipped with a check valve integrated into the delivery outlet. The pump motor bracket and coupling are designed in accordance with NEMA standards, ensuring reliability and compatibility.
Common applications include civil and agricultural uses. All components are manufactured from stainless steel using lost wax microfusion technology. The standard material is AISI 304 stainless steel, with the following materials available upon request: AISI 316 stainless steel, Duplex steel (EN 1.4462), and AISI 904L stainless steel.
The bushing bearings and wear rings are made from sand abrasion-resistant rubber, while the reverse-thrust ring is constructed from PTFE/Graphite for enhanced durability and performance.

General operating data:

- Capacity up to 860 m³/h
- Pressure up to 540 m
- Hydraulic efficiency 10", up to 79,3%
- Hydraulic efficiency 12", up to 82,5%
- Hydraulic efficiency 14", up to 85,7%
- Powers up to 400 kW
- Rotation speed 2.900 rpm
- Maximum depth: 350 m
- Maximum quantity of sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI ≥ 0,4 (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

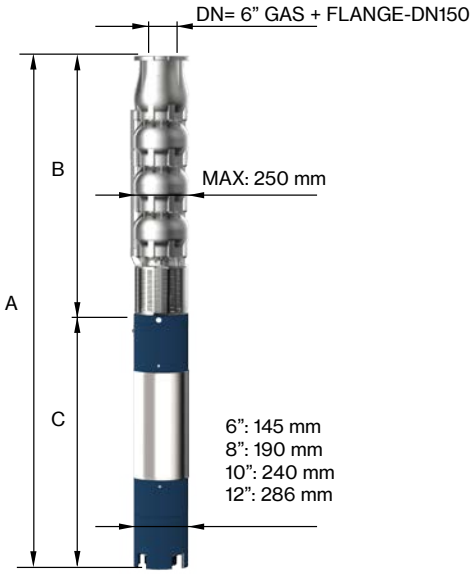
Construction features	
Suction and delivery outlet and NRV valve	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex EN 1.4462 (LMD - ED) Cast iron (E)
Impellers and diffusers	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex EN 1.4462 (LMD - ED) Cast iron (E)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX) Duplex EN 1.4462 (LMD) stainless steel AISI 431 (E - EX - ED)
Quantity of sand in the water	max 100 g/m³

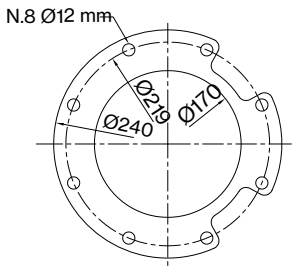
Motor	
Asynchronous 2 pole	rewindable water cooled
Insulation class	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
Protection degree	IP68
Liquid temperature	max 30 °C (max 50 °C on request)
Depth of immersion	max 350 m

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	700	1800	2200	2600	3000	3400	3800	4000
	P2		CURRENT	l/sec	0	11,7	30,0	36,7	43,3	50,0	56,7	63,3	66,7
	HP	kW	A	m³/h	0	42	108	132	156	180	204	228	240
10LM 190/01DR20	25	18,5	38,3		35	34	32	30	27	24	21	16	14
10LM 190/01	30	22	45,1		42	41	38	36	34	31	28	23	21
10LM 190/02DR10	50	37	75,8		76	75	70	66	61	55	48	40	35
10LM 190/02	60	45	86,3		83	82	77	73	68	62	55	47	41
10LM 190/03DR20	75	55	106,2		104	102	95	89	82	73	62	49	42
10LM 190/03	90	66	126,0	H (m)	125	124	115	109	102	93	83	70	62
10LM 190/04DR10	100	75	143,2		152	150	140	132	122	110	96	79	70
10LM 190/04	125	92	175,1		166	165	154	146	136	124	110	94	82
10LM 190/05DR10	150	110	211,0		190	188	175	165	153	138	120	99	87
10LM 190/05D	150	110	211,0		208	206	192	182	170	155	138	117	103
10LM 190/06DR10D	175	130	245,3		228	225	210	198	184	166	144	119	104
10LM 190/06D	175	130	245,3		250	247	230	218	204	186	166	140	124

Max Eff. % DR20 =	76,5
Max Eff. % DR10 =	77,5
Max Eff. %	77
Max kW / St. DR20 =	16
Max kW / St. DR10 =	18,5
Max kW / St.	20,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



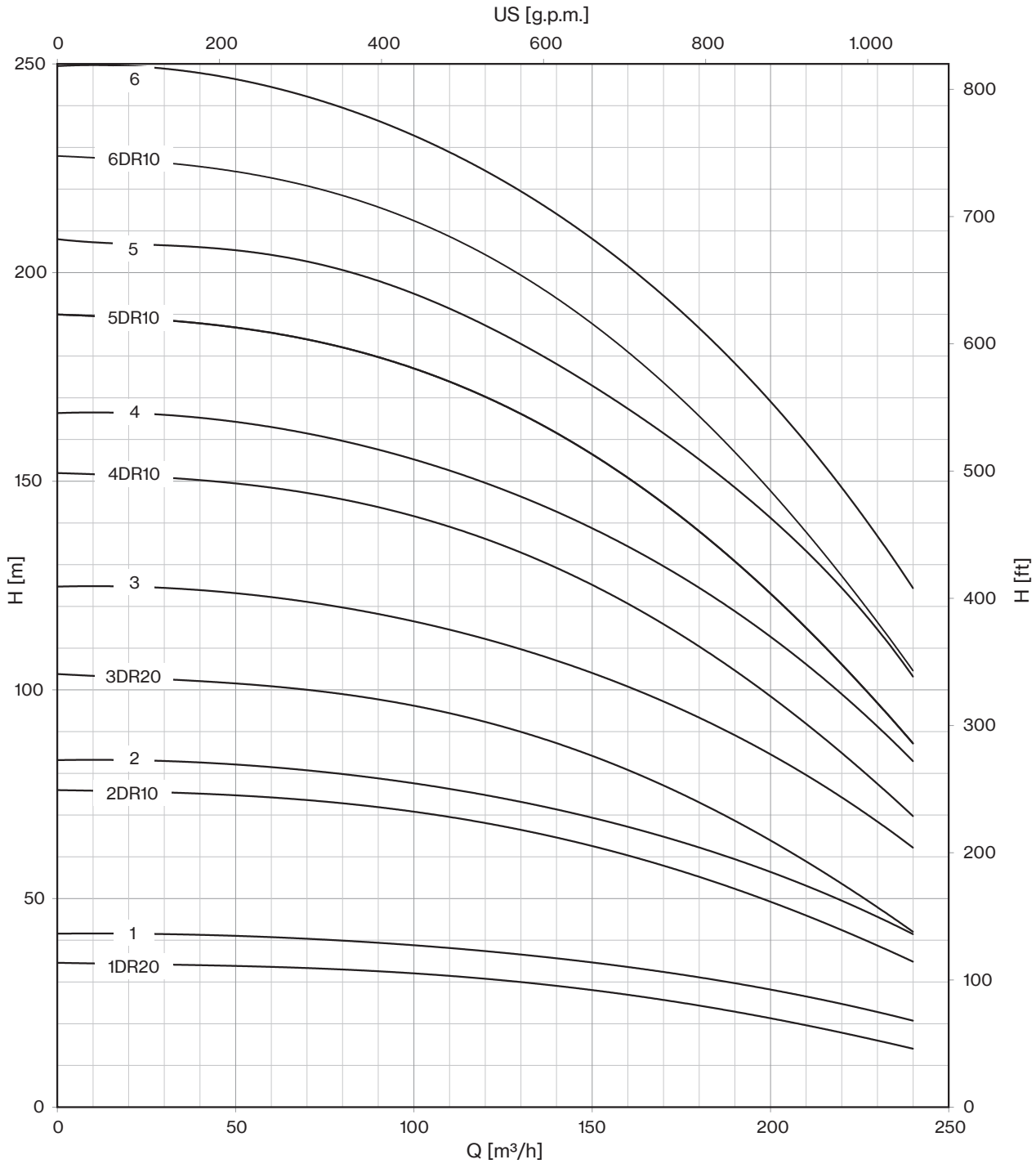


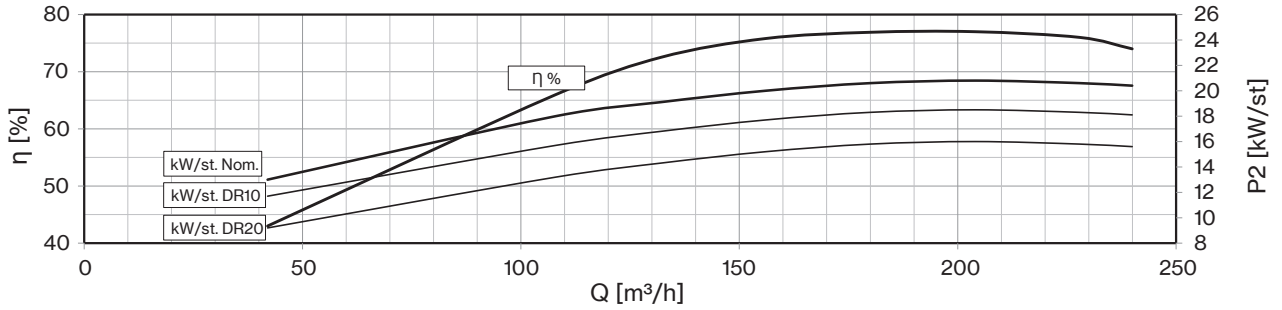
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 190/01DR20-8	8" NEMA	1616	625	991	83	41
10LM 190/01-8		1696	625	1071	92	41
10LM 190/02DR10-8		2146	805	1341	118	56
10LM 190/02-8		1928	805	1123	178	56
10LM 190/03DR20-8		2218	985	1233	200	72
10LM 190/03-8		2287	985	1302	214	72
10LM 190/04DR10-8		2548	1165	1383	230	87
10LM 190/04-8		2748	1165	1583	270	87
10LM 190/05DR10-8		2898	1165	1733	300	87
10LM 190/05D-8		2898	1165	1733	300	87
10LM 190/06DR10D	10"	2799	1165	1634	385	87
10LM 190/06D		2799	1165	1634	385	87

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 190



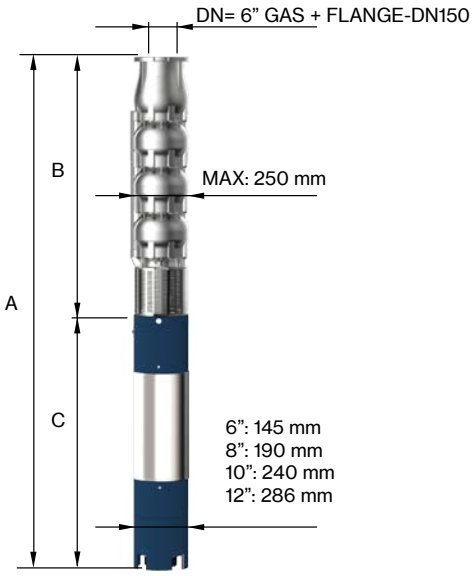


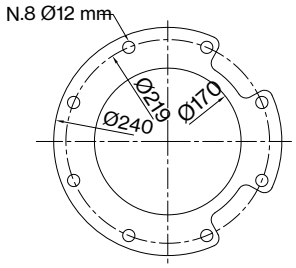
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	700	1800	2200	2600	3000	3400	3800	4000
	P2		CURRENT	l/sec	0	11,7	30,0	36,7	43,3	50,0	56,7	63,3	66,7
	HP	kW	A	m³/h	0	42	108	132	156	180	204	228	240
10LM 190/07DR10D	175	130	245,3	H (m)	266	263	245	231	214	193	168	139	122
10LM 190/07D	200	150	277,2		291	288	269	255	238	217	193	164	144
10LM 190/08DR10D	200	150	277,2		304	300	280	264	245	221	192	158	139
10LM 190/08D	250	185	342,2		333	330	307	291	272	248	221	187	165
10LM 190/09D	300	220	430,0		374	371	346	328	306	279	248	211	185
10LM 190/10D	300	220	430,0		416	412	384	364	340	310	276	234	206
10LM 190/11D	340	250	481,0		458	453	422	400	374	341	304	257	227

Max Eff. % DR20 =	76,5
Max Eff. % DR10 =	77,5
Max Eff. %	77
Max kW / St. DR20 =	16
Max kW / St. DR10 =	18,5
Max kW / St.	20,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



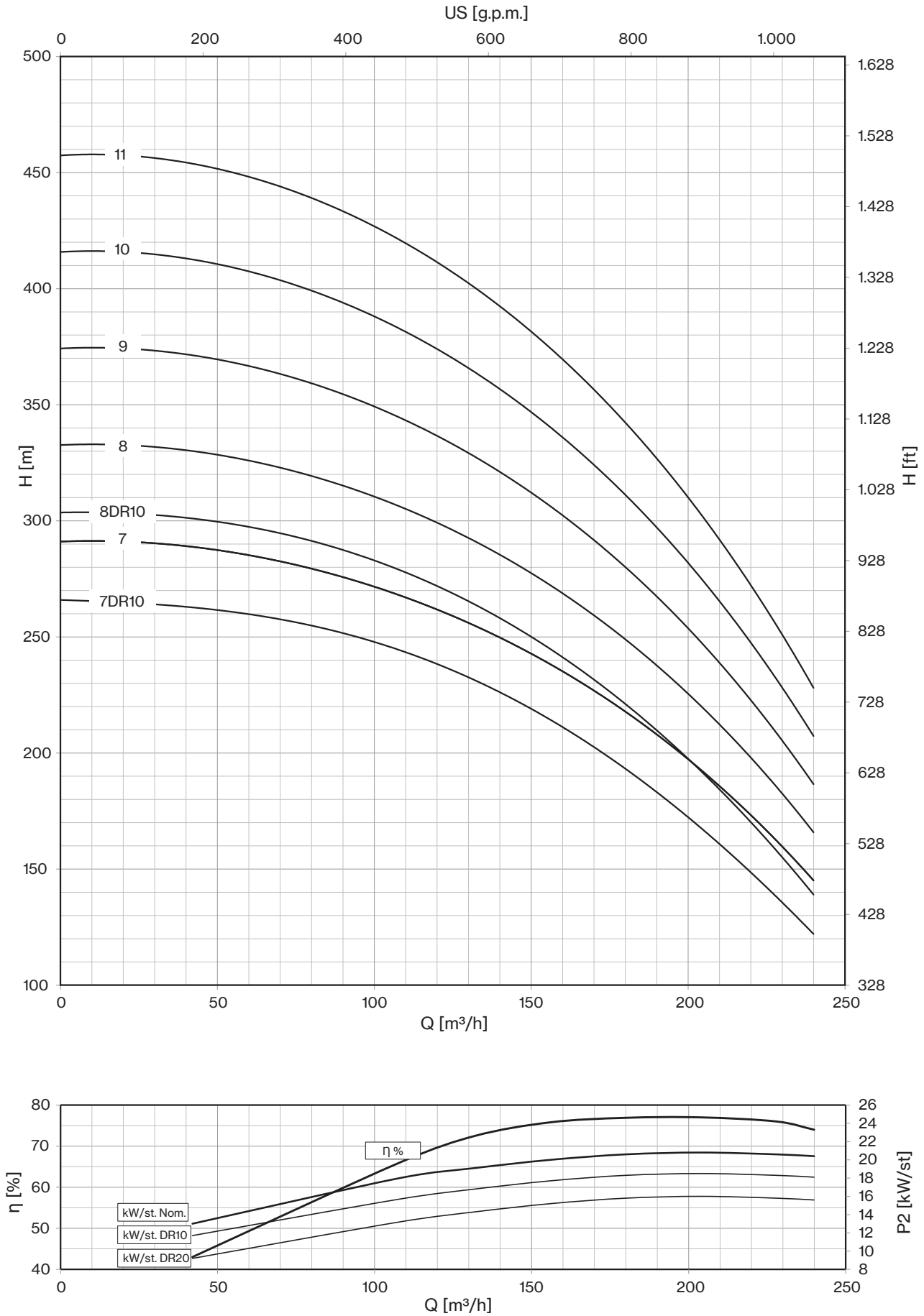


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 190/07 DR10D	10"	3339	1705	1634	385	134
10LM 190/07D		3439	1705	1734	415	134
10LM 190/08DR10D		3619	1885	1734	415	149
10LM 190/08D		3869	1885	1984	480	149
10LM 190/09D-12	12"	4175	2065	2110	700	165
10LM 190/10D-12		4355	2245	2110	700	180
10LM 190/11D-12		4705	2425	2280	775	196

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 190

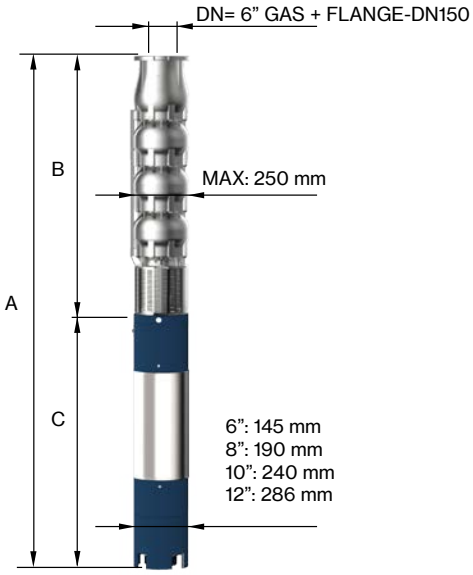


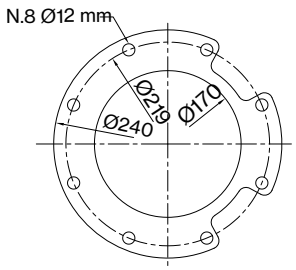
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	800	2200	2600	3000	3400	3800	4200	4600
	P2		CURRENT	l/sec	0	13,3	36,7	43,3	50,0	56,7	63,3	70,0	76,7
	HP	kW	A	m3/h	0	48	132	156	180	204	228	252	276
10LM 230/01DR20	25	18,5	38,3	H (m)	37	36	31	29	27	25	23	19	16
10LM 230/01	35	26	52,9		44	43	38	36	34	32	30	26	23
10LM 230/02DR20	50	37	75,8		74	71	62	58	54	50	45	38	32
10LM 230/02	75	55	106,2		88	85	75	72	68	64	59	53	46
10LM 230/03DR20	75	55	106,2		110	107	93	87	81	75	68	57	48
10LM 230/03DR10	90	66	126,0		121	116	102	98	92	86	78	68	59
10LM 230/03	100	75	143,2		131	128	113	108	102	96	89	79	69
10LM 230/04DR10	125	92	175,1		162	154	136	130	122	114	104	91	78
10LM 230/04	125	92	175,1		175	170	150	144	136	128	118	106	92
10LM 230/05DR10D	150	110	211,0		202	193	170	163	153	143	130	114	98
10LM 230/05 D	175	130	245,3		219	213	188	180	170	160	148	132	115
10LM 230/06DR10D	175	130	245,3		242	231	204	195	183	171	156	137	117
10LM 230/06D	200	150	277,2		263	255	225	216	204	192	178	159	138

Max Eff. % DR20 =	78,4
Max Eff. % DR10 =	79,5
Max Eff. %	79,2
Max kW / St. DR20 =	17,5
Max kW / St. DR10 =	19,5
Max kW / St.	22,8

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



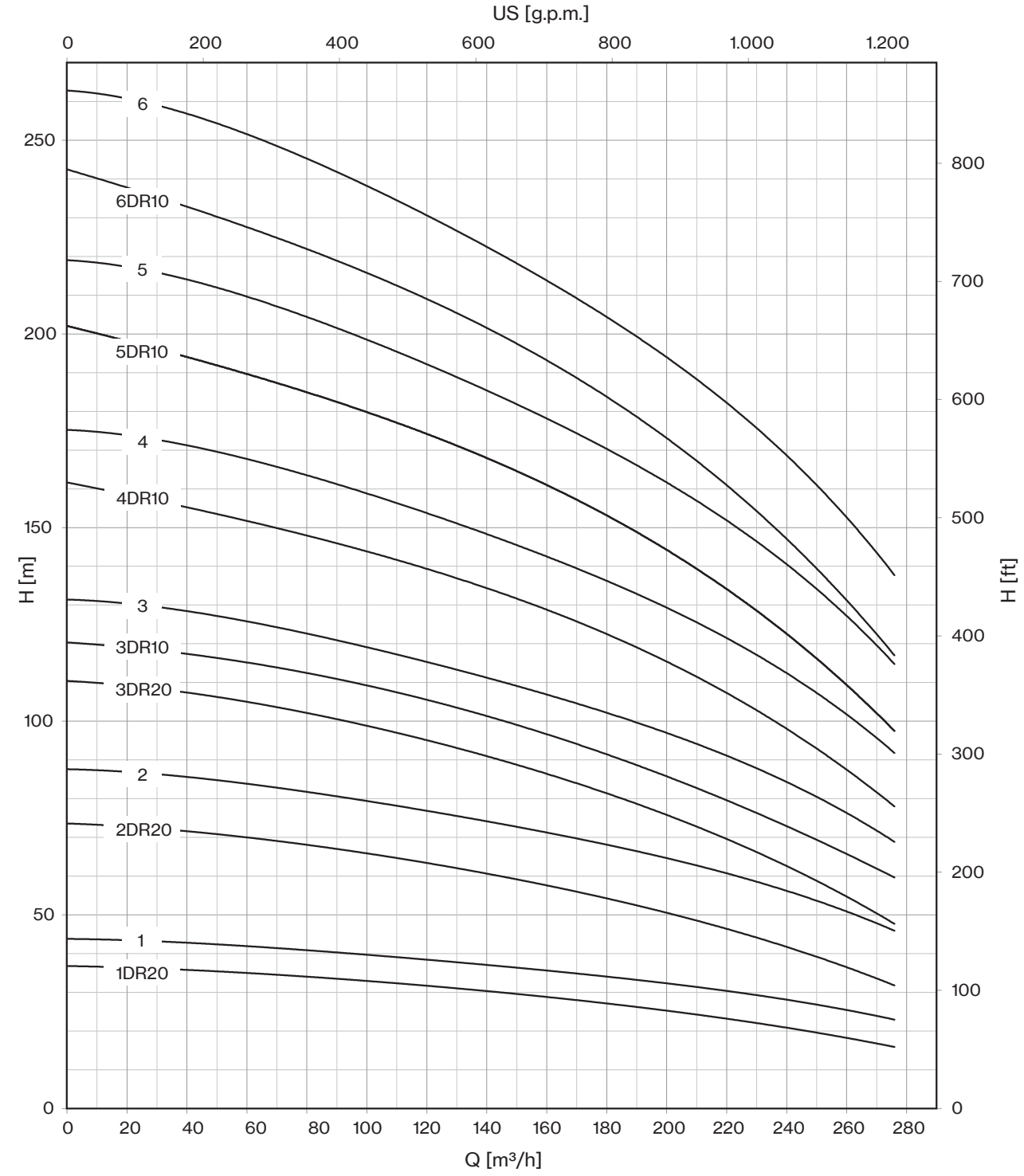


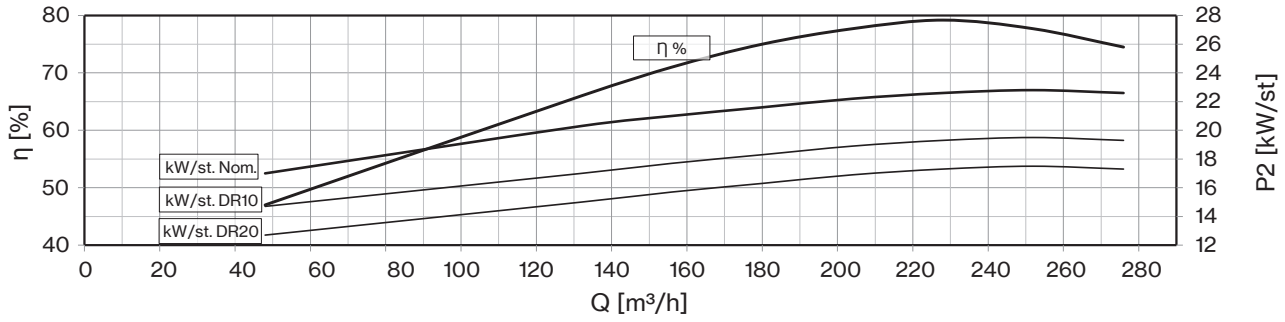
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 230/01DR20-6	6" NEMA	1616	625	991	83	41
10LM 230/01-6		1806	625	1181	100	41
10LM 230/02DR20-6		2146	805	1341	118	56
10LM 230/02-8	8" NEMA	2038	805	1233	200	56
10LM 230/03DR20-8		2218	985	1233	200	72
10LM 230/03DR10-8		2287	985	1302	214	72
10LM 230/03-8		2368	985	1383	230	72
10LM 230/04DR10-8		2748	1165	1583	270	87
10LM 230/04-8		2748	1165	1583	270	87
10LM 230/05DR10D-8		3078	1345	1733	300	103
10LM 230/05D	10"	3078	1345	1733	300	103
10LM 230/06DR10D		3159	1525	1634	385	118
10LM 230/06D		3159	1525	1634	385	118

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 230



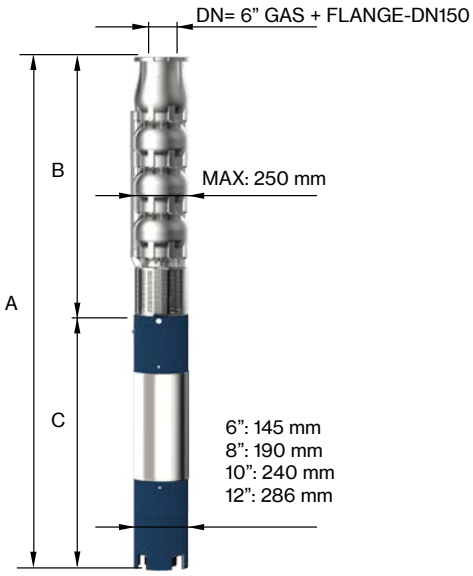


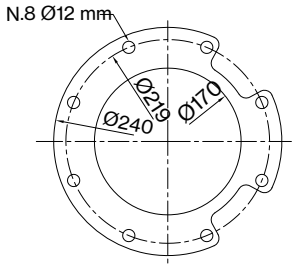
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	800	2200	2600	3000	3400	3800	4200	4600
	P2		CURRENT	l/sec	0	13,3	36,7	43,3	50,0	56,7	63,3	70,0	76,7
	HP	kW	A	m³/h	0	48	132	156	180	204	228	252	276
10LM 230/07DR10D	200	150	277,2	H (m)	283	270	238	228	214	200	182	160	137
10LM 230/07D	225	165	313,3		307	298	263	252	238	224	207	185	161
10LM 230/08DR10D	225	165	313,3		323	308	272	261	245	229	208	182	157
10LM 230/08D	250	185	342,2		350	340	301	288	272	256	237	211	184
10LM 230/09D	300	220	430,0		394	383	338	324	306	288	266	238	207
10LM 230/10D	340	250	481,0		438	425	376	360	340	320	296	264	230
10LM 230/11D	340	250	481,0		482	468	413	396	374	352	326	291	253

Max Eff. % DR20 =	78,4
Max Eff. % DR10 =	79,5
Max Eff. % =	79,2
Max kW / St. DR20 =	17,5
Max kW / St. DR10 =	19,5
Max kW / St. =	22,8

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8



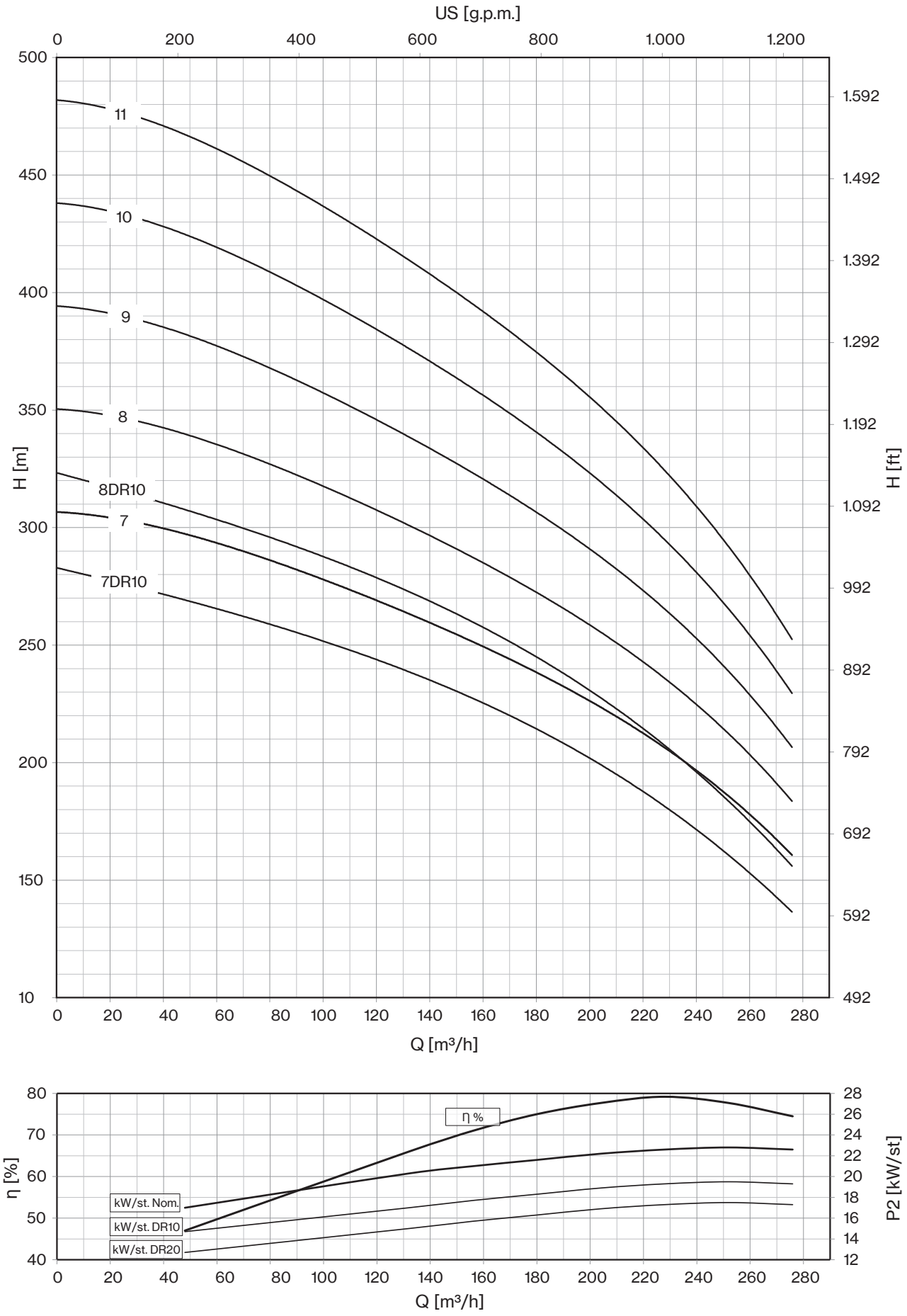


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 230/07DR10D	10"	3439	1705	1734	415	134
10LM 230/07D		3559	1705	1854	444	134
10LM 230/08DR10D		3739	1885	1854	444	149
10LM 230/08D		3869	1885	1984	480	149
10LM 230/09D-12	12"	4175	2065	2110	700	165
10LM 230/10D-12		4355	2245	2110	700	180
10LM 230/11D-12		4705	2425	2280	775	196

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 230

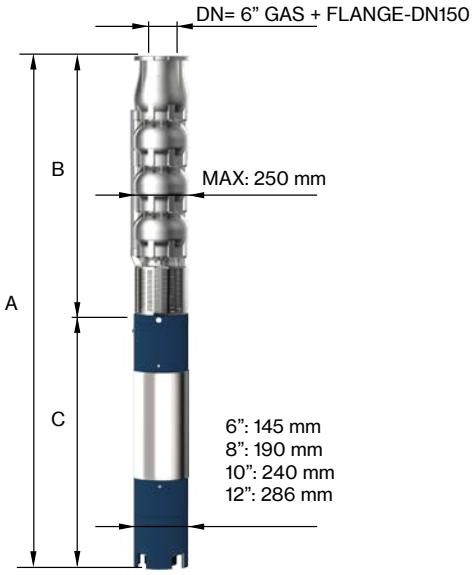


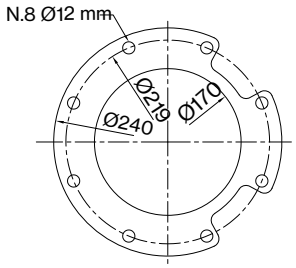
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1000	3200	3600	4000	4400	4800	5000	5200
	P2		CURRENT	l/sec	0	16,7	53,3	60,0	66,7	73,3	80,0	83,3	86,7
	HP	kW	A	m³/h	0	60	192	216	240	264	288	300	312
10LM 250/01DR20	25	18,5	38,3	H (m)	31	31	27	25	23	21	18	17	14
10LM 250/01	40	30	61,1		44	42	34	32	30	28	26	25	24
10LM 250/02DR20	50	37	75,8		63	62	54	50	46	42	36	33	27
10LM 250/02	75	55	106,2		88	84	67	64	59	56	52	50	48
10LM 250/03DR10	100	75	143,2		107	107	93	86	80	73	65	59	53
10LM 250/03	125	92	175,1		132	126	101	96	89	83	78	75	72
10LM 250/04DR10	125	92	175,1		143	142	124	115	107	97	87	79	70
10LM 250/04D	150	110	211,0		176	168	134	128	118	111	104	100	96
10LM 250/05DR10D	175	130	245,3		179	178	155	144	134	121	109	99	88
10LM 250/05D	200	150	277,2		220	210	168	160	148	139	130	125	120
10LM 250/06D	225	165	313,3		264	252	202	192	178	167	156	150	144

Max Eff. % DR20 =	79
Max Eff. % DR10 =	79,5
Max Eff. %	79,3
Max kW / St. DR20 =	18
Max kW / St. DR10 =	22,5
Max kW / St.	27,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



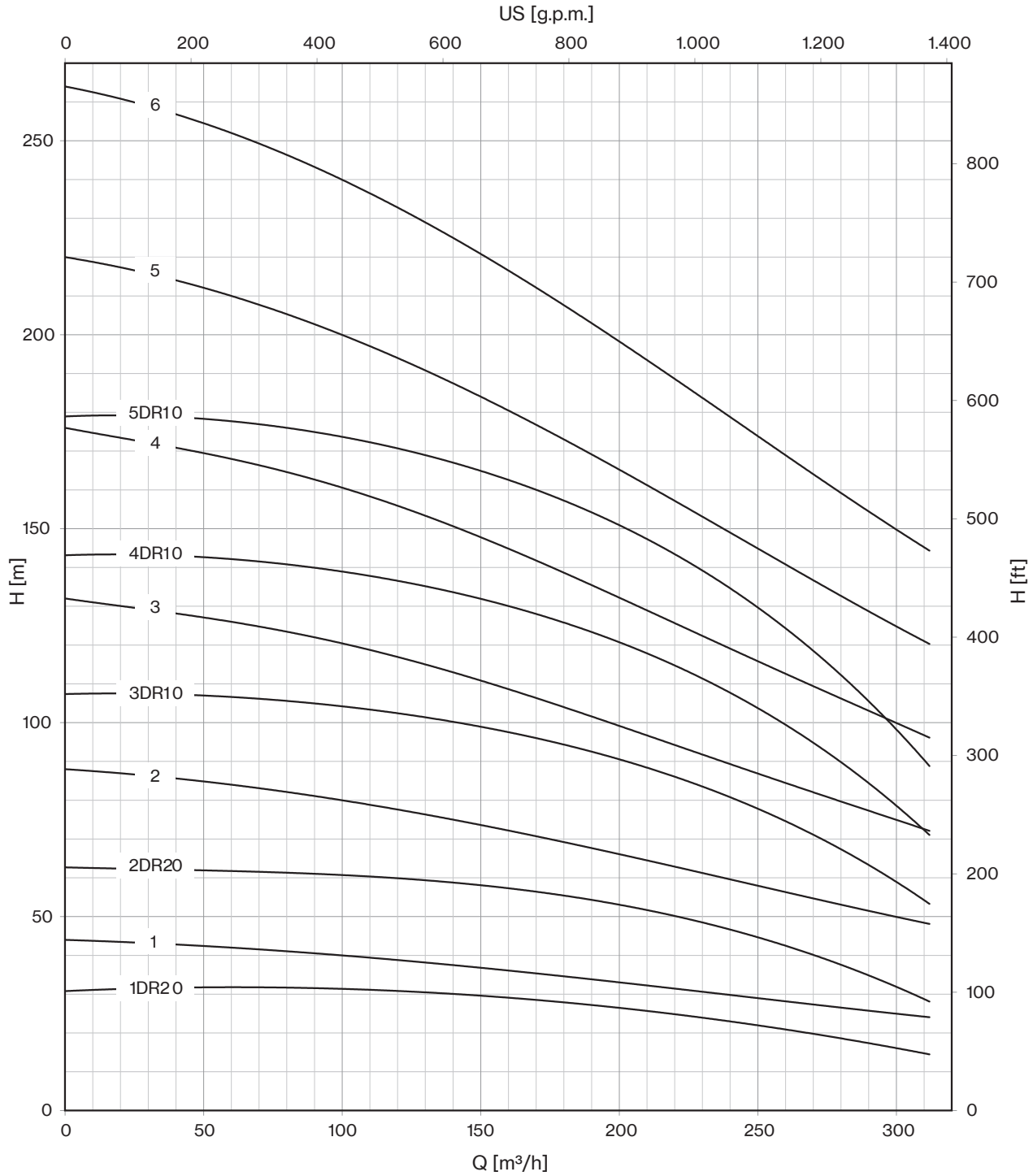


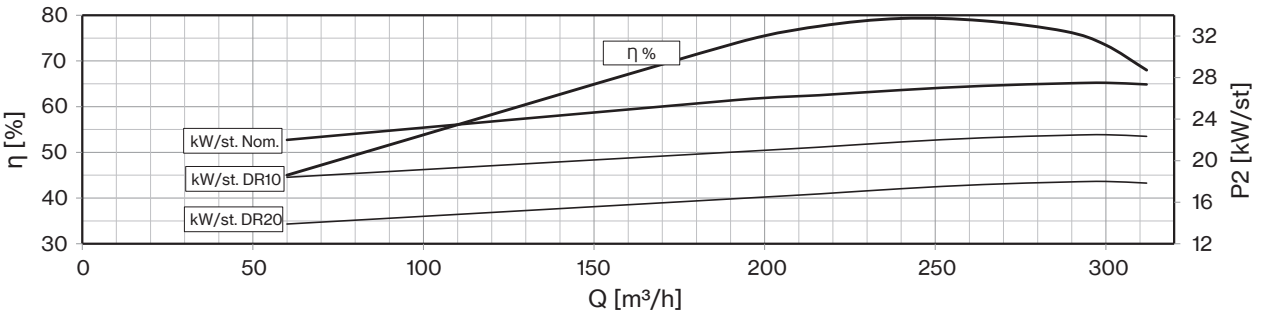
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 250/01DR20-6	6" NEMA	1616	625	991	83	41
10LM 250/01-6		1876	625	1251	108	41
10LM 250/02DR20-6		2146	805	1341	118	57
10LM 250/02-8	8" NEMA	2038	805	1233	200	57
10LM 250/03DR10-8		2368	985	1383	230	72
10LM 250/03-8		2568	985	1583	270	72
10LM 250/04DR10-8		2748	1165	1583	270	88
10LM 250/04D-8		2898	1165	1733	300	88
10LM 250/05DR10D	10"	2979	1345	1634	385	103
10LM 250/05D		2979	1345	1634	385	103
10LM 250/06D		3379	1525	1854	444	119

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 250



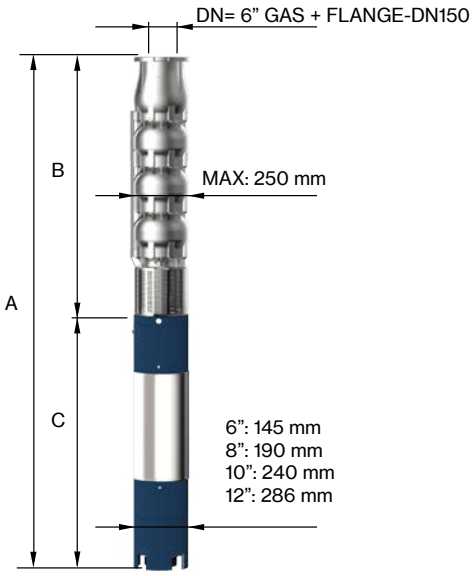


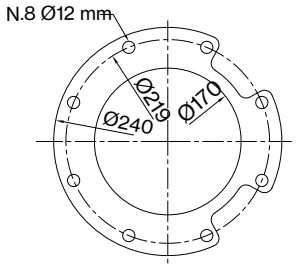
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1000	3200	3600	4000	4400	4800	5000	5200
	P2		CURRENT	l/sec	0	16,7	53,3	60,0	66,7	73,3	80,0	83,3	86,7
	HP	kW	A	m³/h	0	60	192	216	240	264	288	300	312
10LM 250/07DR10D	225	165	313,3	H (m)	251	249	217	202	188	169	153	139	123
10LM 250/07D	300	220	430,0		308	294	235	224	207	195	182	175	168
10LM 250/08D	300	220	430,0		352	336	269	256	237	222	208	200	192
10LM 250/09D	340	250	481,0		396	378	302	288	266	250	234	225	216
10LM 250/10D	400	300	551,0		440	420	336	320	296	278	260	250	240
10LM 250/11D	450	330	620,0		484	462	370	352	326	306	286	275	264
10LM 250/12D	450	330	620,0		528	504	403	384	355	334	312	300	288

Max Eff. % DR20 =	79
Max Eff. % DR10 =	79,5
Max Eff. %	79,3
Max kW / St. DR20 =	18
Max kW / St. DR10 =	22,5
Max kW / St.	27,4

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



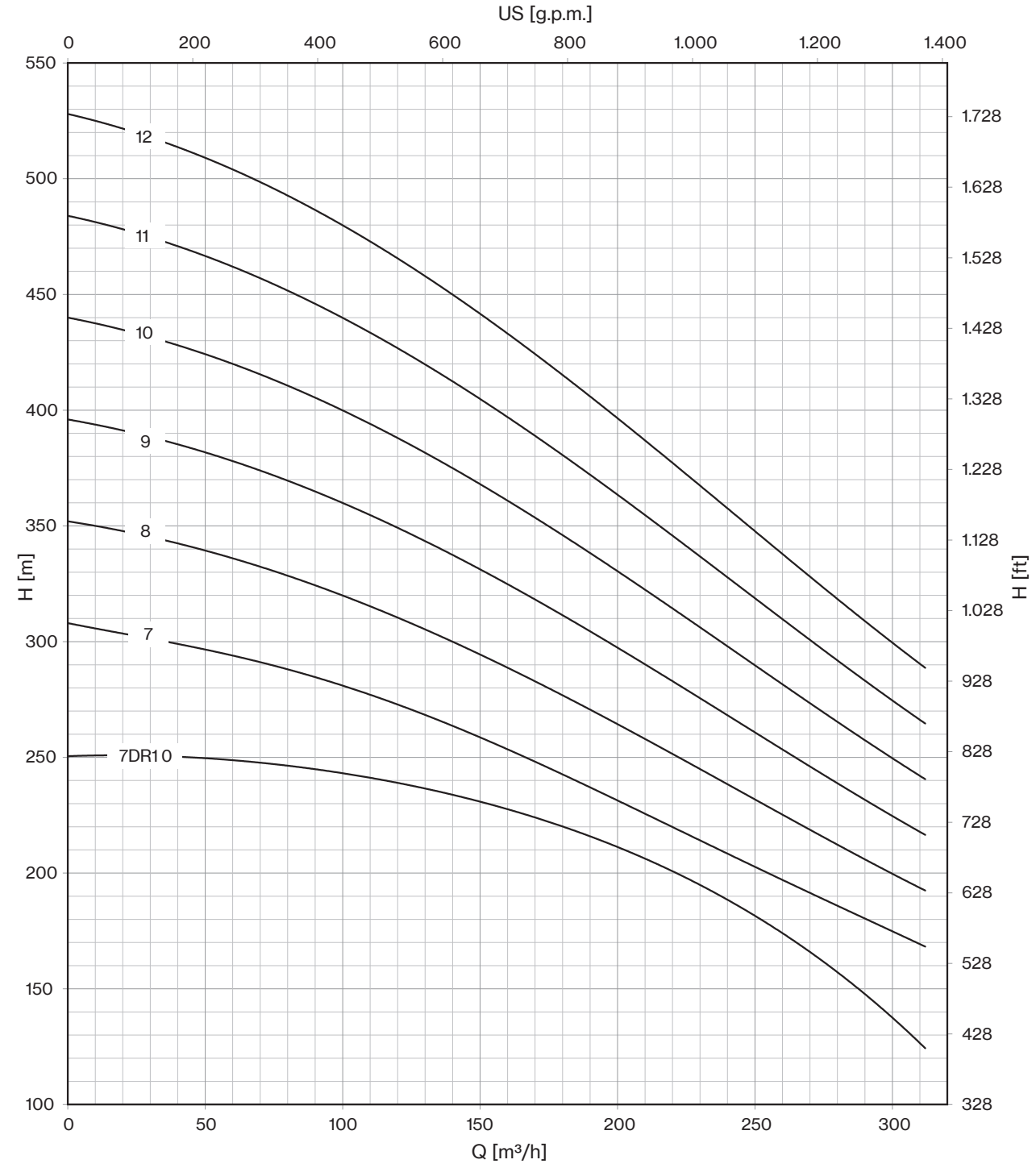


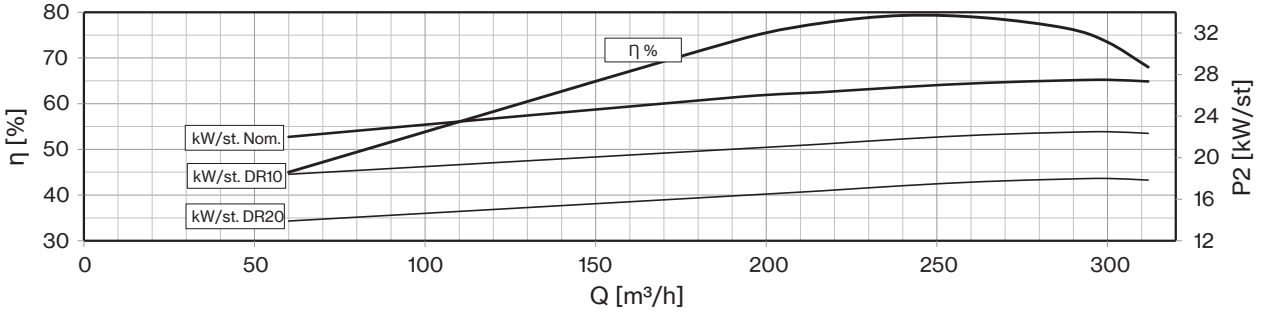
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 250/07DR10D	10"	3559	1705	1854	444	134
10LM 250/07D-12	12"	3815	1705	2110	700	134
10LM 250/08D-12		3995	1885	2110	700	150
10LM 250/09D-12		4345	2065	2280	775	165
10LM 250/10D-14	14"	4525	2245	2280	775	181
10LM 250/11D-14		4705	2425	2280	775	196
10LM 250/12D-14		4765	2605	2160	906	212

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 250



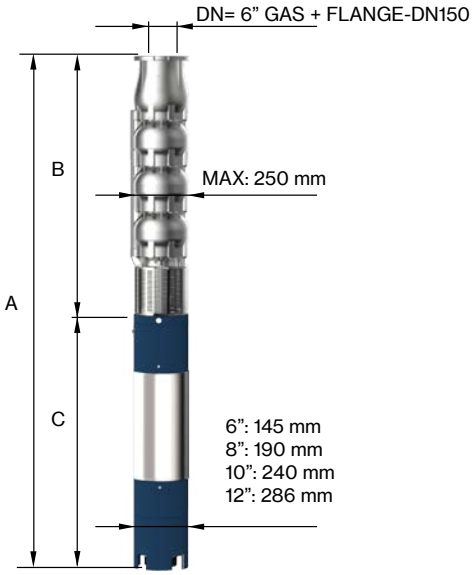


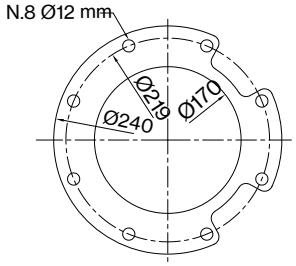
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1000	3400	3800	4200	4600	5000	5400	5800
	P2		CURRENT	l/sec	0	16,7	56,7	63,3	70,0	76,7	83,3	90,0	96,7
	HP	kW	A	m³/h	0	60	204	228	252	276	300	324	348
10LM 275/01DR20	35	26	52,9	H (m)	36	36	28	26	25	23	21	19	16
10LM 275/01	50	37	75,8		45	44	37	35	34	32	30	28	25
10LM 275/02DR20	75	55	106,2		72	71	56	52	50	46	42	39	32
10LM 275/02	90	66	126,0		90	87	73	70	67	63	60	56	50
10LM 275/03DR10	125	92	175,1		122	121	97	92	88	82	77	72	62
10LM 275/03D	150	110	211,0		135	131	110	105	101	95	90	85	75
10LM 275/04DR10D	175	130	245,3		163	161	130	123	118	110	103	96	83
10LM 275/04D	200	150	277,2		180	175	146	140	134	126	120	113	100
10LM 275/05DR10D	200	150	277,2		204	202	162	154	147	137	129	120	104
10LM 275/05D	225	165	313,3		225	219	183	175	168	158	150	141	125
10LM 275/06DR10D	250	185	342,2		245	242	194	185	176	164	155	144	125
10LM 275/06D	300	220	430,0		270	262	220	210	202	190	180	169	150

Max Eff. % DR20 =	76,1
Max Eff. % DR10 =	77,2
Max Eff. %	76,5
Max kW / St. DR20 =	25
Max kW / St. DR10 =	29
Max kW / St.	33

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



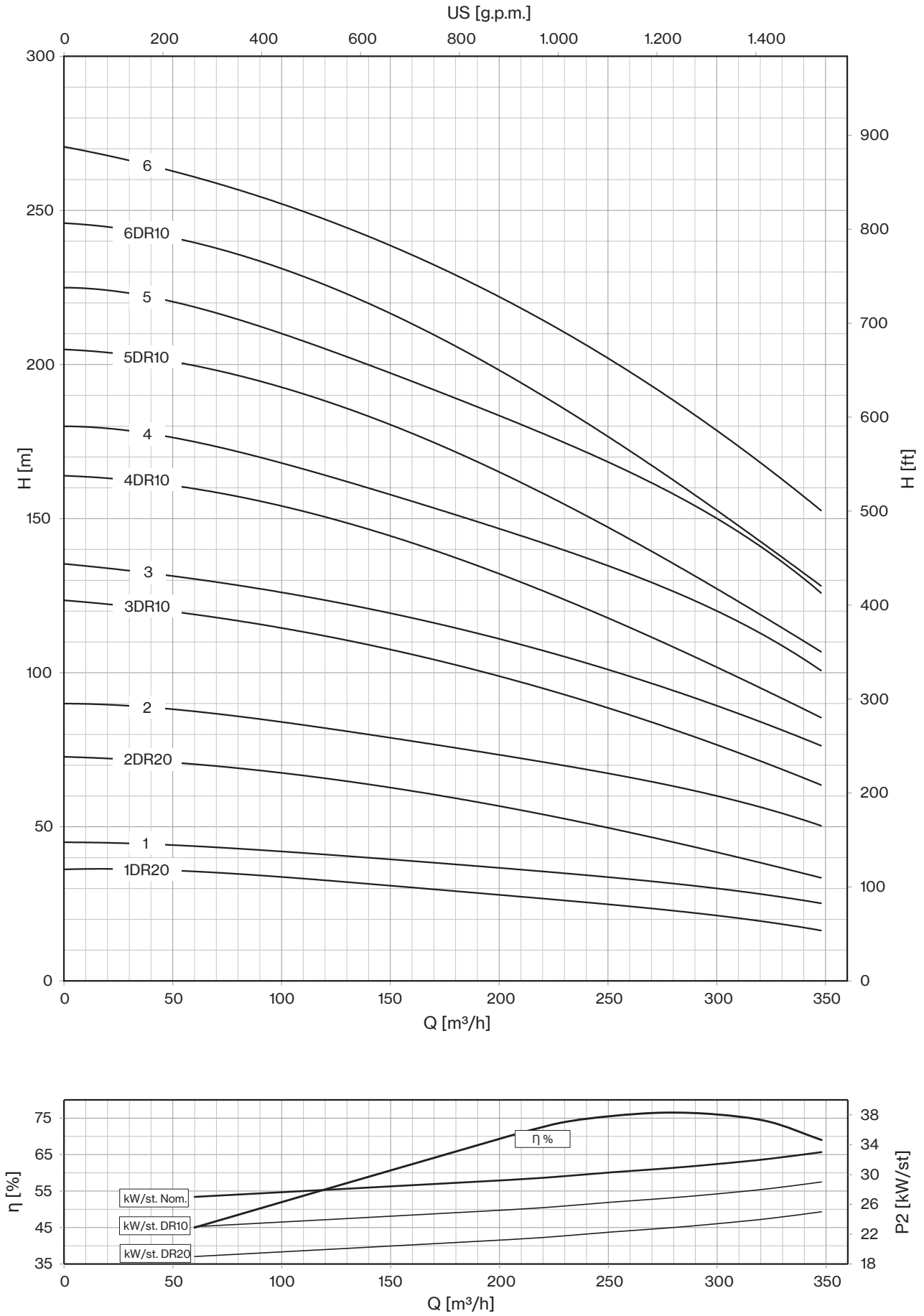


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 275/01DR20-6	6" NEMA	1806	625	1181	100	41
10LM 275/01-6		1966	625	1341	118	41
10LM 275/02DR20-8	8" NEMA	2038	805	1233	200	56
10LM 275/02-8		2107	805	1302	214	56
10LM 275/03DR10-8		2568	985	1583	270	72
10LM 275/03D-8		2718	985	1733	300	72
10LM 275/04DR10D	10"	2799	1165	1634	385	87
10LM 275/04D		2899	1165	1734	415	87
10LM 275/05DR10D		3079	1345	1734	415	103
10LM 275/05D		3199	1345	1854	444	103
10LM 275/06DR10D		3509	1525	1984	480	118
10LM 275/06D		3635	1525	2110	700	118

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 275

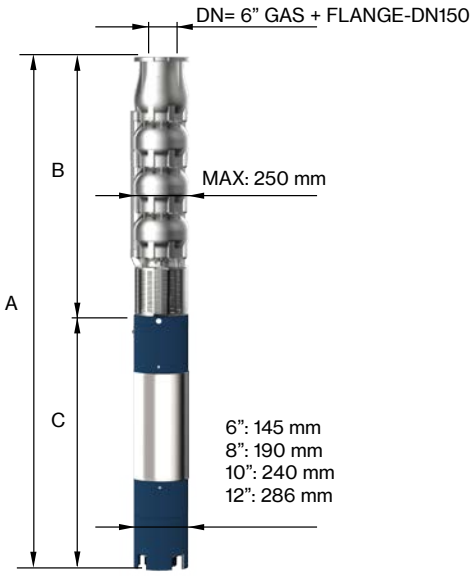


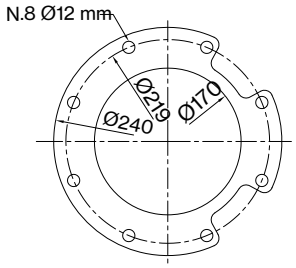
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1000	3400	3800	4200	4600	5000	5400	5800
	P2		CURRENT	l/sec	0	16,7	56,7	63,3	70,0	76,7	83,3	90,0	96,7
	HP	kW	A	m³/h	0	60	204	228	252	276	300	324	348
10LM 275/07DR10D	300	220	430,0	H (m)	286	282	227	216	206	192	181	168	146
10LM 275/07D	340	250	481,0		315	306	256	245	235	221	210	197	175
10LM 275/08D	400	300	551,0		360	350	293	280	269	253	240	226	200
10LM 275/09D	400	300	551,0		405	393	329	315	302	284	270	254	225
10LM 275/10D	450	330	620,0		450	437	366	350	336	316	300	282	250
10LM 275/11D	500	370	693,0		495	481	403	385	370	348	330	310	275
10LM 275/12D	550	400	798,0		540	524	439	420	403	379	360	338	300

Max Eff. % DR20 =	76,1
Max Eff. % DR10 =	77,2
Max Eff. %	76,5
Max kW / St. DR20 =	25
Max kW / St. DR10 =	29
Max kW / St.	33

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



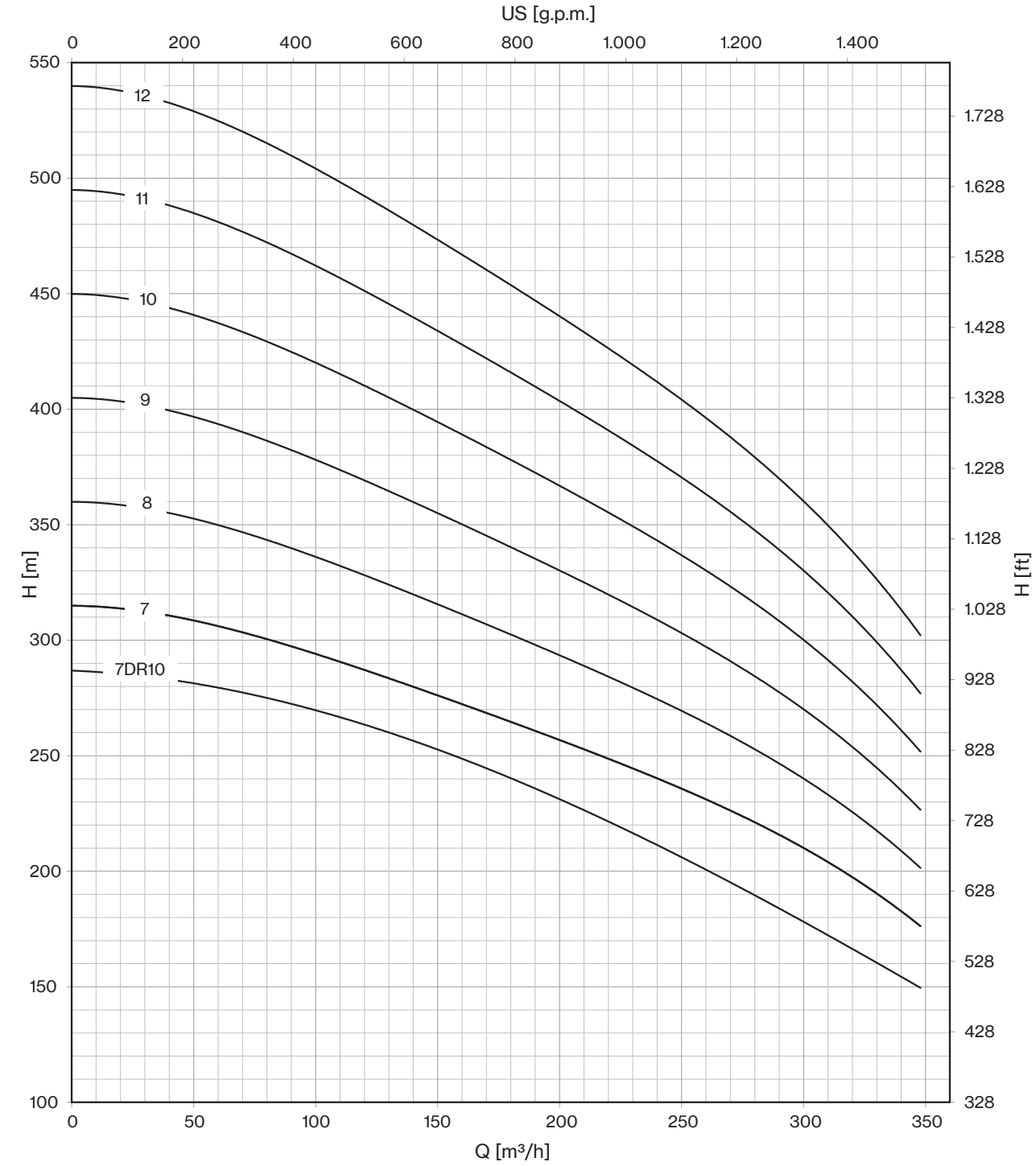


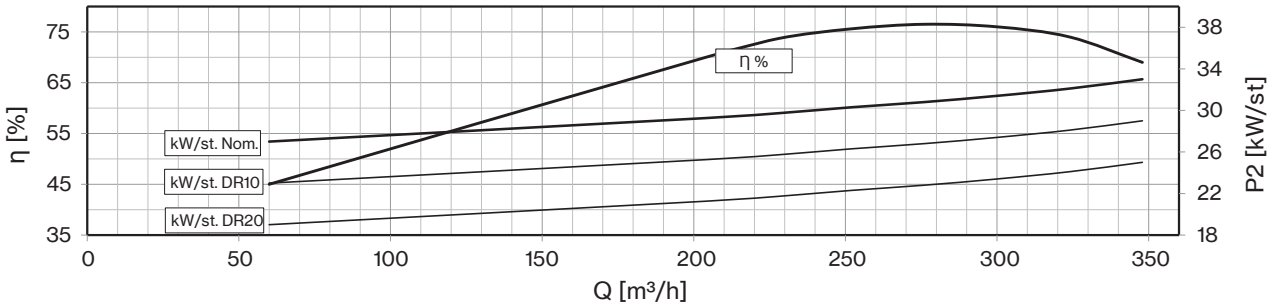
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
10LM 275/07DR10D-12	12"	3815	1705	2110	700	134
10LM 275/07D-12		3985	1705	2280	775	134
10LM 275/08D-14	14"	4165	1885	2280	775	149
10LM 275/09D-14		4345	2065	2280	775	165
10LM 275/10D-14		4405	2245	2160	906	180
10LM 275/11D-14		4585	2425	2160	906	196
10LM 275/12D-14		4925	2605	2320	1010	211

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

10LM 275



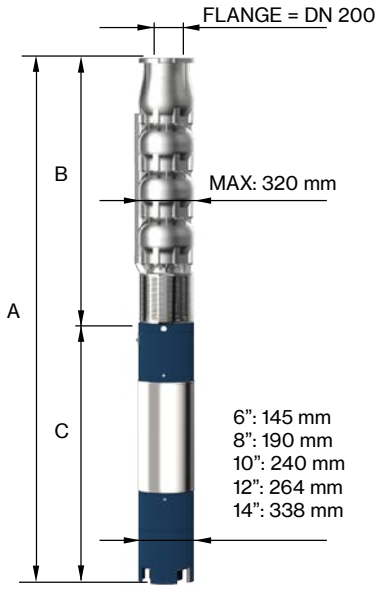


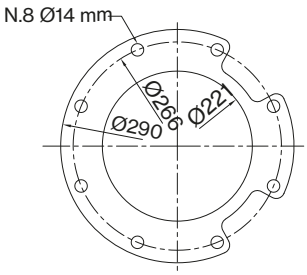
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1500	4000	4500	5000	5500	6000	6500	7000
	P2		CURRENT	l/sec	0	25,0	66,7	75,0	83,3	91,7	100,0	108,3	116,7
	HP	kW	A	m³/h	0	90	240	270	300	330	360	390	420
12LM 360/01DR35	50	37	75,8		41	40	37	35	33	32	29		
12LM 360/01DR20	75	55	106,2		49	48	47	45	44	42	40	38	34
12LM 360/01	90	66	126,0		62	61	55	53	52	52	50	47	42
12LM 360/02DR35	100	75	143,2		82	80	73	70	66	63	57		
12LM 360/02DR20D	150	110	211,0		98	96	93	90	87	84	80	75	68
12LM 360/02D	175	130	245,3	H (m)	124	122	109	106	104	103	100	93	84
12LM 360/03DR20D	200	150	277,2		147	144	140	135	131	126	120	113	102
12LM 360/03DR10D	250	185	342,2		165	162	152	149	144	140	132	126	120
12LM 360/03D	300	220	430,0		186	183	164	159	156	155	150	140	126
12LM 360/04DR20D	300	220	430,0		196	192	186	180	174	168	160	150	136
12LM 360/04DR10D	340	250	481,0		220	216	202	198	192	186	176	168	160
12LM 360/04D	400	300	551,0		248	244	218	212	208	206	200	186	168

Max Eff. % DR35 =	77,5
Max Eff. % DR20 =	80
Max Eff. % DR10 =	80,5
Max Eff. %	81
Max kW / St. DR35 =	36,80
Max kW / St. DR20 =	49,5
Max kW / St. DR10 =	55,2
Max kW / St.	64,2

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



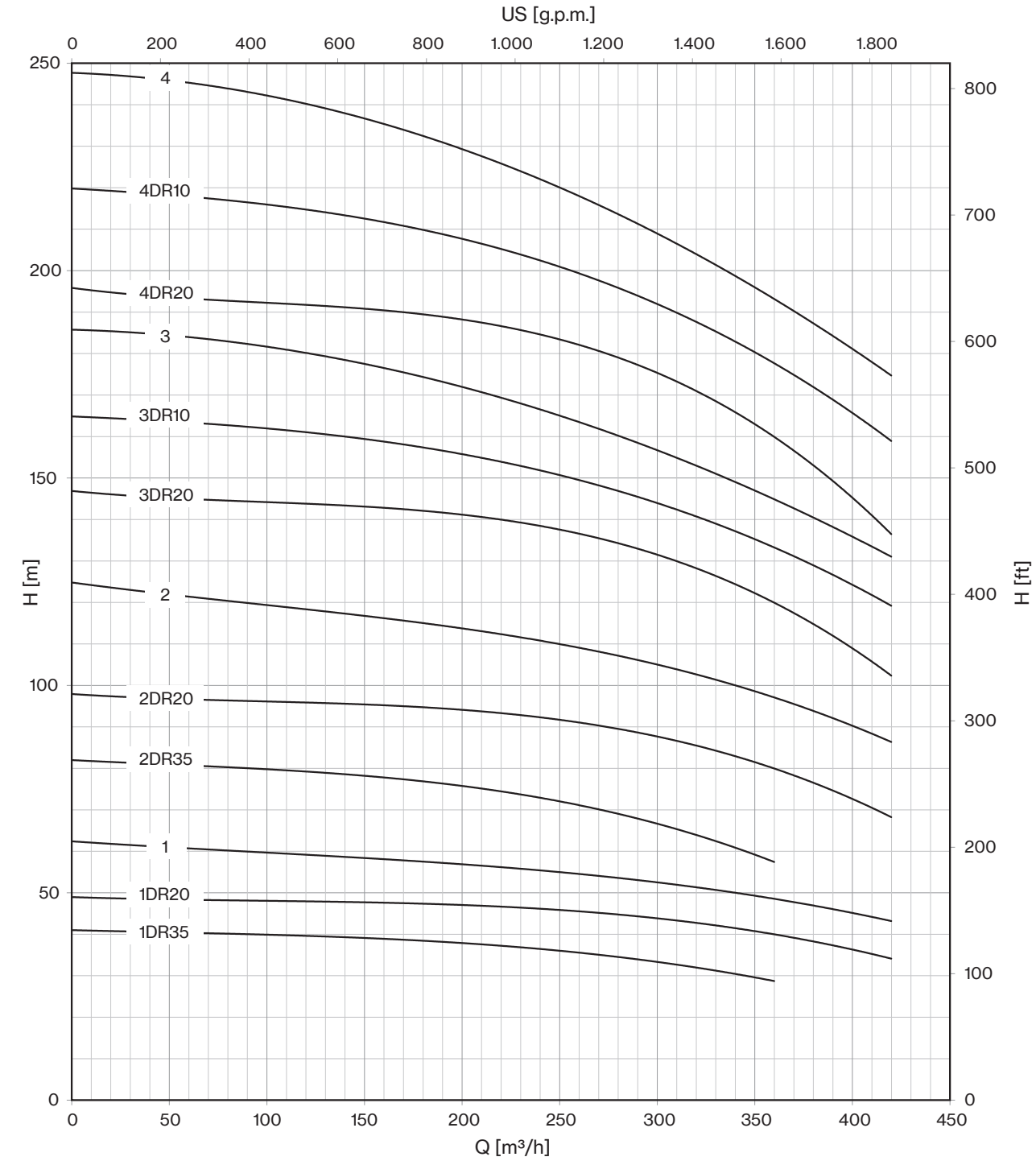


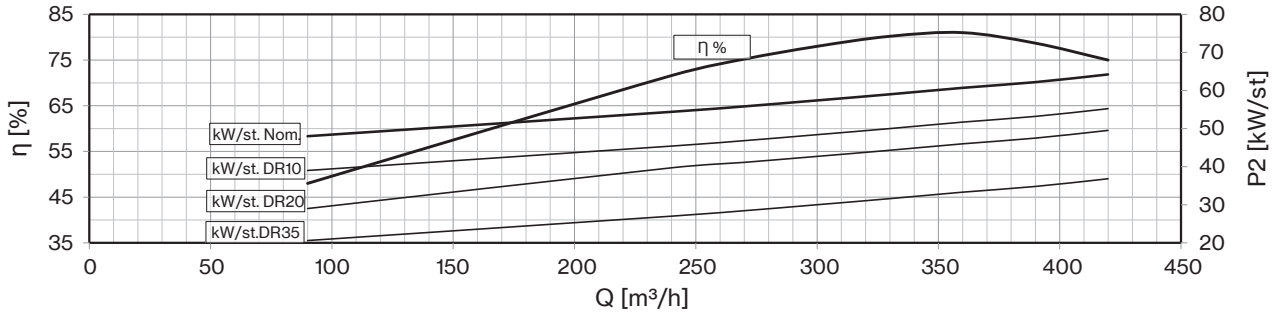
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 360/01DR35-6	6" NEMA	2111	770	1341	118	79
12LM 360/01DR20-8	8" NEMA	2003	770	1233	200	79
12LM 360/01-8		2072	770	1302	214	79
12LM 360/02DR35-8		2383	1000	1383	230	104
12LM 360/02DR20D-8		2733	1000	1733	300	104
12LM 360/02D-10	10"	2634	1000	1634	385	104
12LM 360/03DR20D-10		2964	1230	1734	415	129
12LM 360/03DR10D-10		3214	1230	1984	480	129
12LM 360/03D	12"	3340	1230	2110	700	129
12LM 360/04DR20D		3570	1460	2110	700	154
12LM 360/04DR10D		3740	1460	2280	775	154
12LM 360/04D-14	14"	3740	1460	2280	775	154

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

12LM 360



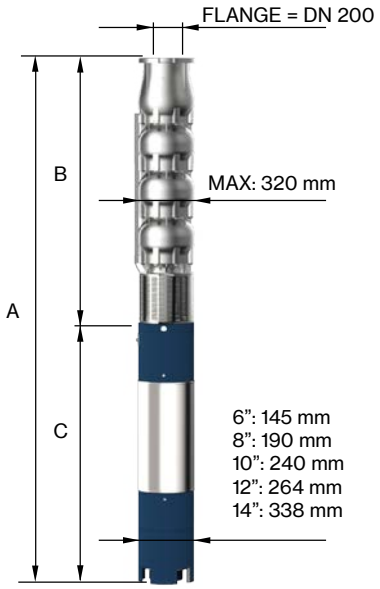


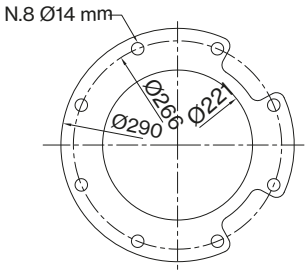
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1500	4000	4500	5000	5500	6000	6500	7000
	P2		CURRENT	l/sec	0	25,0	66,7	75,0	83,3	91,7	100,0	108,3	116,7
	HP	kW	A	m³/h	0	90	240	270	300	330	360	390	420
12LM 360/05DR20D	340	250	481,0	H (m)	245	240	233	225	218	210	200	188	170
12LM 360/05DR10D	400	300	551,0		275	270	253	248	240	233	220	210	200
12LM 360/05D	450	330	620,0		310	305	273	265	260	258	250	233	210
12LM 360/06DR10D	500	370	693,0		330	324	304	298	288	280	264	252	240
12LM 360/06D	550	400	798,0		372	366	328	318	312	310	300	280	252
12LM 360/07DR10D	550	400	798,0		385	378	354	347	336	326	308	294	280

Max Eff. % DR35 =	77,5
Max Eff. % DR20 =	80
Max Eff. % DR10 =	80,5
Max Eff. %	81
Max kW / St. DR35 =	36,80
Max kW / St. DR20 =	49,5
Max kW / St. DR10 =	55,2
Max kW / St.	64,2

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



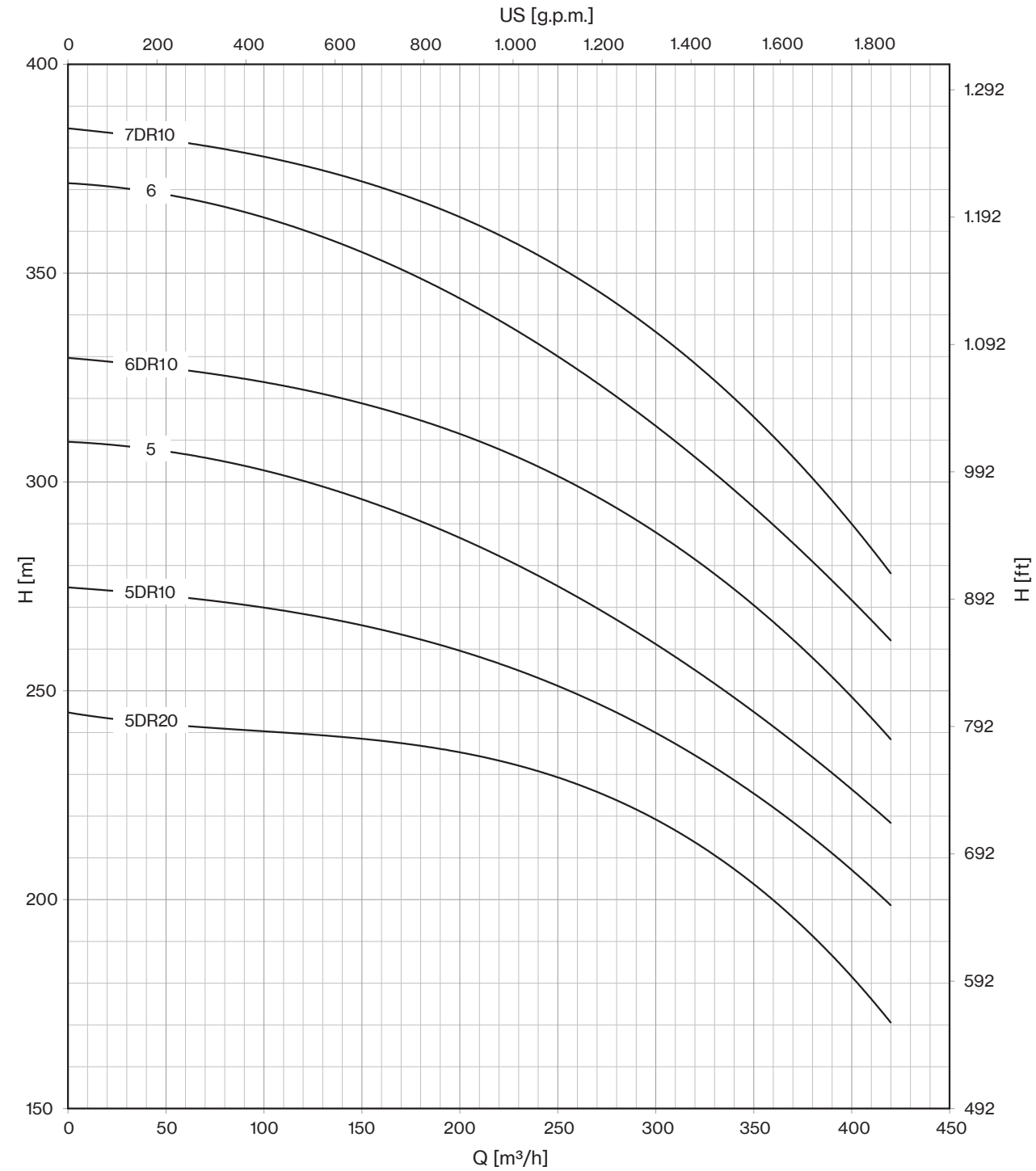


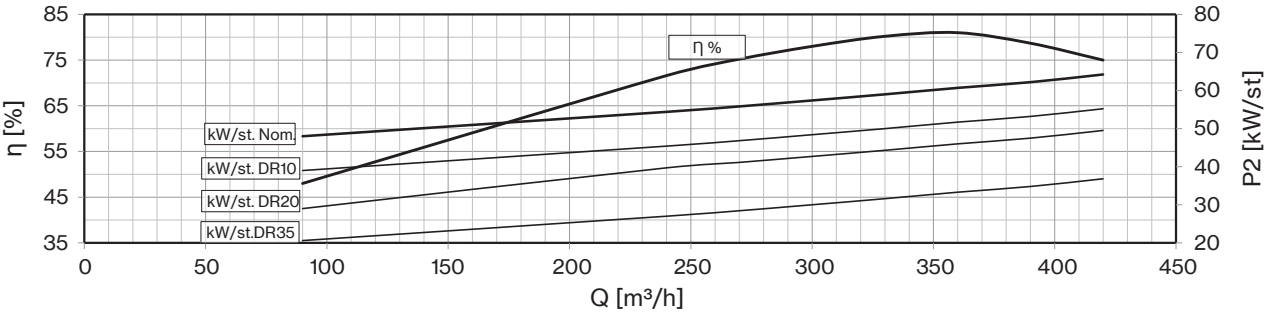
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 360/05DR20D	12"	3970	1690	2280	775	179
12LM 360/05DR10D-14	14"	3970	1690	2280	775	179
12LM 360/05D-14		3850	1690	2160	906	179
12LM 360/06DR10D-14		4240	1920	2320	1010	204
12LM 360/06D-14		4380	1920	2460	1105	204
12LM 360/07DR10D-14		4610	2150	2460	1105	229

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

12LM 360



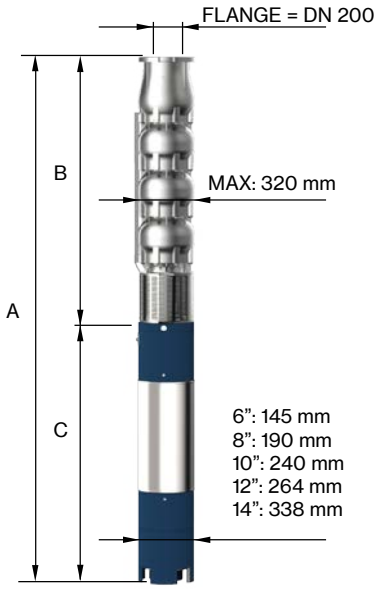


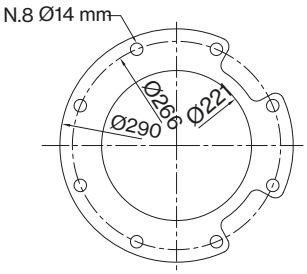
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	2000	6000	6500	7000	7500	8000	8500	9000
	P2		CURRENT	l/sec	0	33,3	100,0	108,3	116,7	125,0	133,3	141,7	150,0
	HP	kW	A	m³/h	0	120	360	390	420	450	480	510	540
12LM 400/01DR30	50	37	75,8	H (m)	43	42	32	30	27	24			
12LM 400/01DR20	75	55	106,2		47	45	37	35	33	30	26	22	
12LM 400/01DR10	75	55	106,2		53	52	42	40	38	36	32	28	
12LM 400/01	90	66	126,0		58	57	46	44	42	40	37	31	27
12LM 400/02DR30	100	75	143,2		86	84	64	59	54	48			
12LM 400/02DR20	125	92	175,1		94	90	73	69	65	59	52	44	
12LM 400/02DR10D	150	110	211,0		106	104	84	80	76	71	64	56	
12LM 400/02D	175	130	245,3		116	114	92	88	84	80	73	62	54
12LM 400/03DR20D	200	150	277,2		141	135	110	104	98	89	78	66	
12LM 400/03DR10D	225	165	313,3		159	156	126	120	114	107	96	84	
12LM 400/03D	250	185	342,2		174	171	138	132	126	120	110	93	81

Max Eff. % DR30 =	81,2
Max Eff. % DR20 =	81,8
Max Eff. % DR10 =	82,7
Max Eff. %	81,6
Max Eff. % A =	82,5
Max kW / St. DR30 =	37
Max kW / St. DR20 =	45,6
Max kW / St. DR10 =	53
Max kW / St.	60,4
Max kW / St. A =	67

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



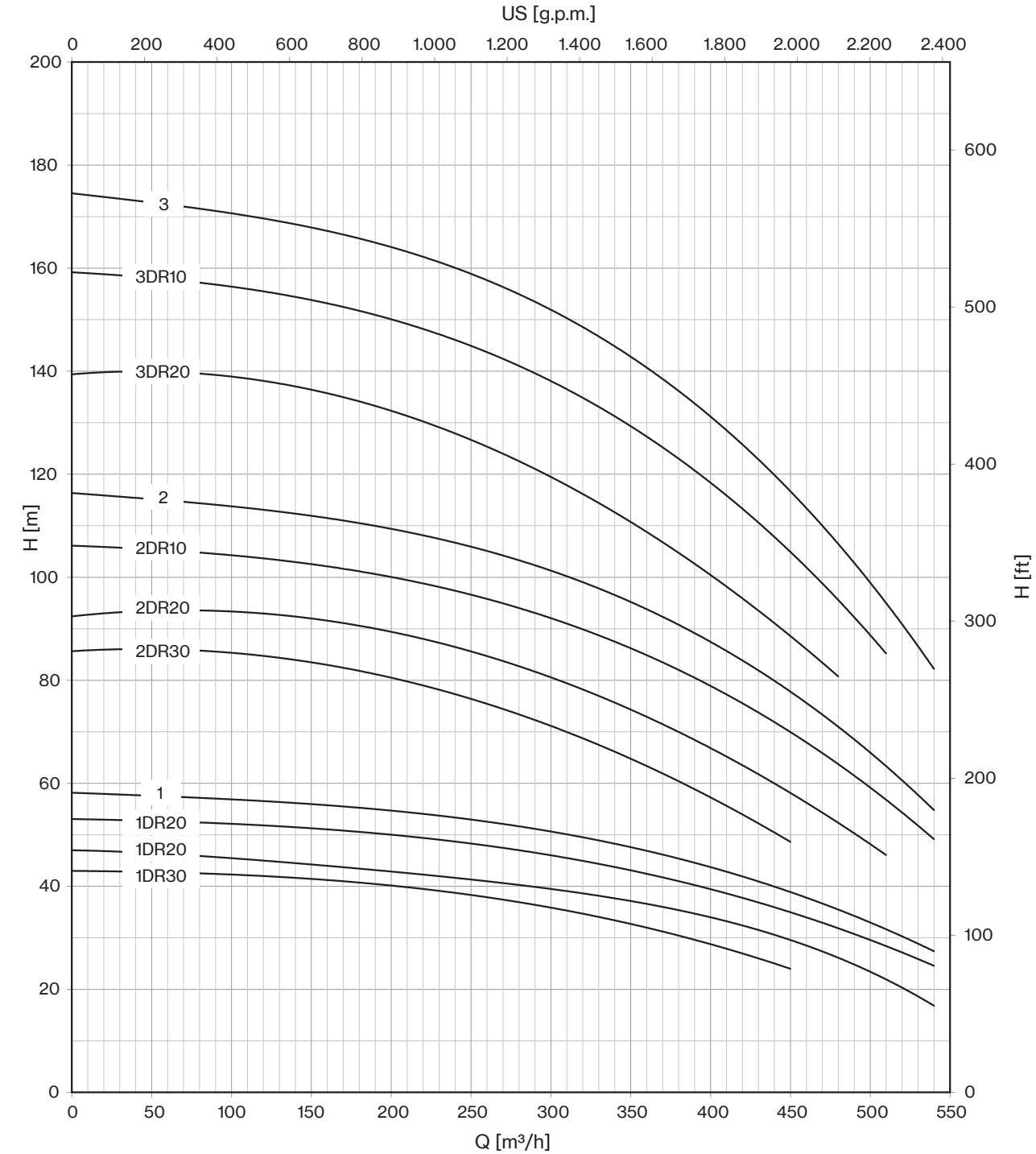


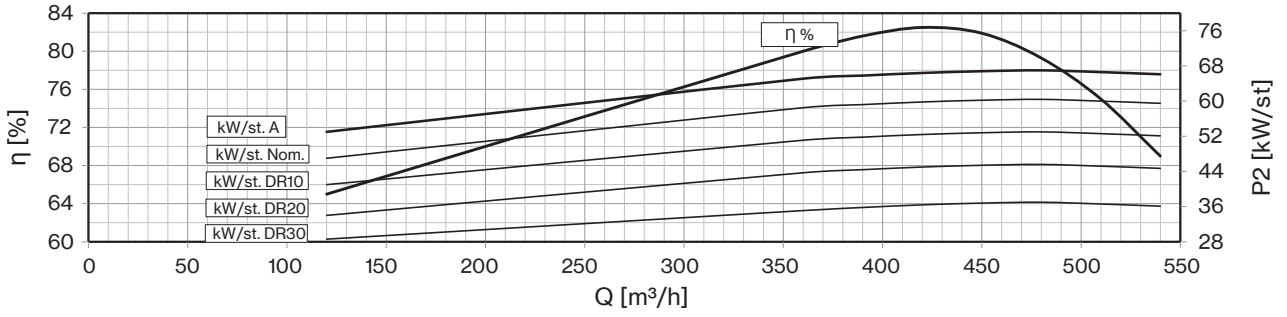
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 400/01DR30-6	6" NEMA	2111	770	1341	118	79
12LM 400/01DR20-8	8" NEMA	2003	770	1233	200	79
12LM 400/01DR10-8		2003	770	1233	200	79
12LM 400/01-8		2072	770	1302	214	79
12LM 400/02DR30-8		2383	1000	1383	230	104
12LM 400/02DR20-8		2583	1000	1583	270	104
12LM 400/02DR10D-8		2733	1000	1733	300	104
12LM 400/02D-10	10"	2634	1000	1634	385	104
12LM 400/03DR20D-10		2964	1230	1734	415	129
12LM 400/03DR10D-10		3084	1230	1854	444	129
12LM 400/03D-10		3214	1230	1984	480	129

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

12LM 400



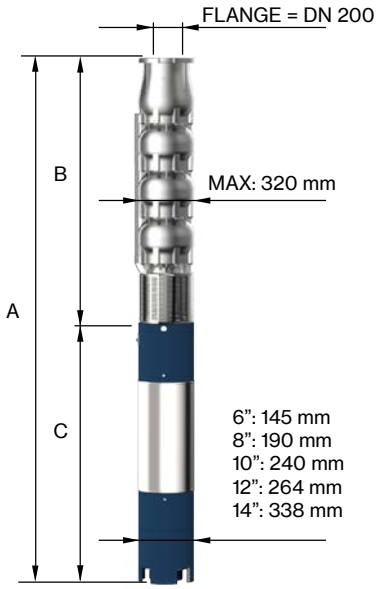


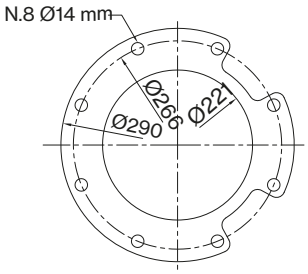
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	2000	6000	6500	7000	7500	8000	8500	9000
	P2		CURRENT	l/sec	0	33,3	100,0	108,3	116,7	125,0	133,3	141,7	150,0
	HP	kW	A	m³/h	0	120	360	390	420	450	480	510	540
12LM 400/04DR20D	250	185	342,2	H (m)	188	180	146	138	130	118	104	88	
12LM 400/04DR10D	300	220	430,0		212	208	168	160	152	142	128	112	
12LM 400/04D	340	250	481,0		232	228	184	176	168	160	146	124	108
12LM 400/05DR10D	400	300	551,0		265	260	210	200	190	178	160	140	
12LM 400/05D	450	330	620,0		290	285	230	220	210	200	183	155	135
12LM 400/05AD	500	370	693,0		305	300	250	240	230	223	205	195	160
12LM 400/06D	500	370	693,0		348	342	276	264	252	240	220	186	162

Max Eff. % DR30 =	81,2
Max Eff. % DR20 =	81,8
Max Eff. % DR10 =	82,7
Max Eff. %	81,6
Max Eff. % A =	82,5
Max kW / St. DR30 =	37
Max kW / St. DR20 =	45,6
Max kW / St. DR10 =	53
Max kW / St.	60,4
Max kW / St. A =	67

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



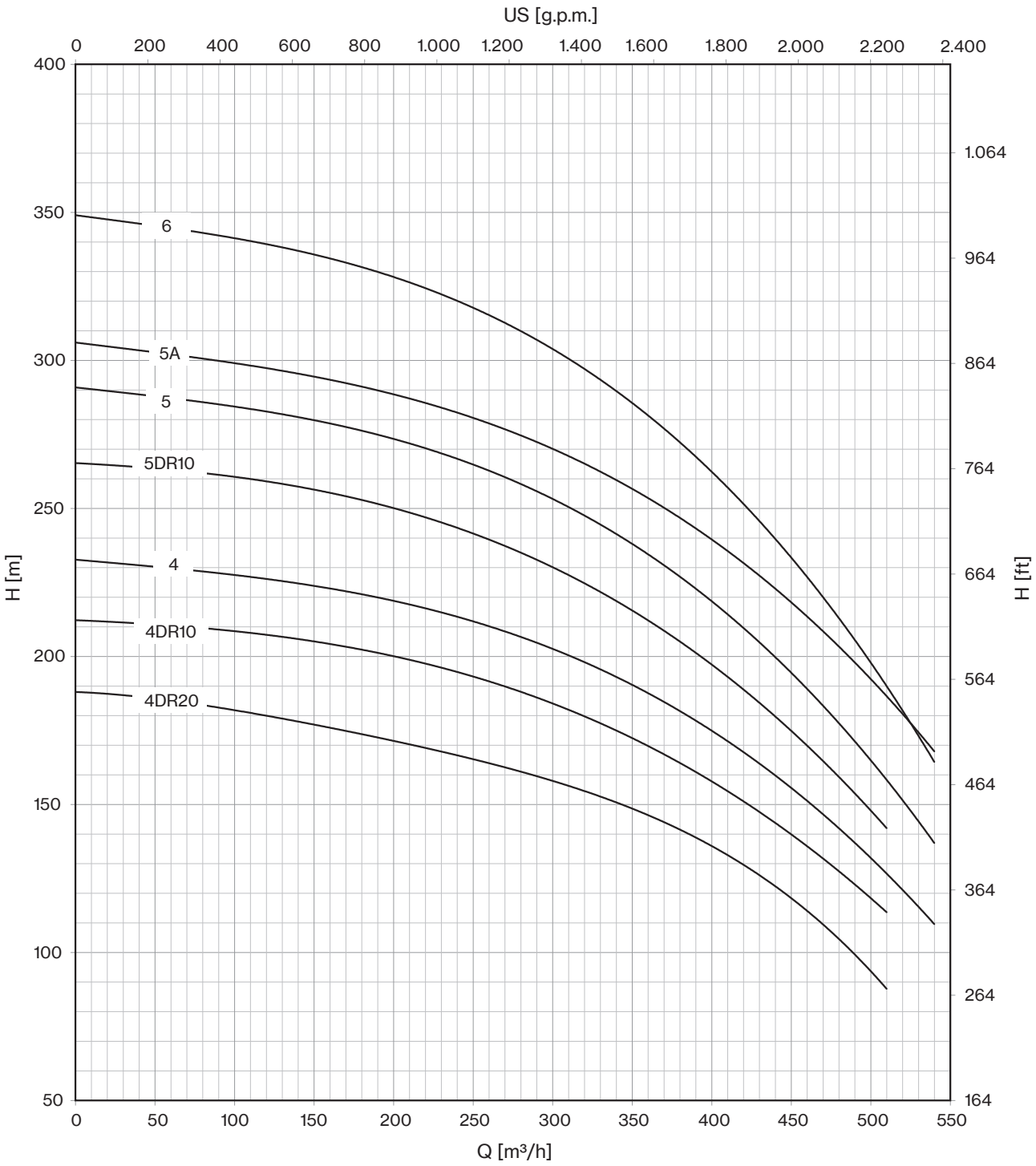


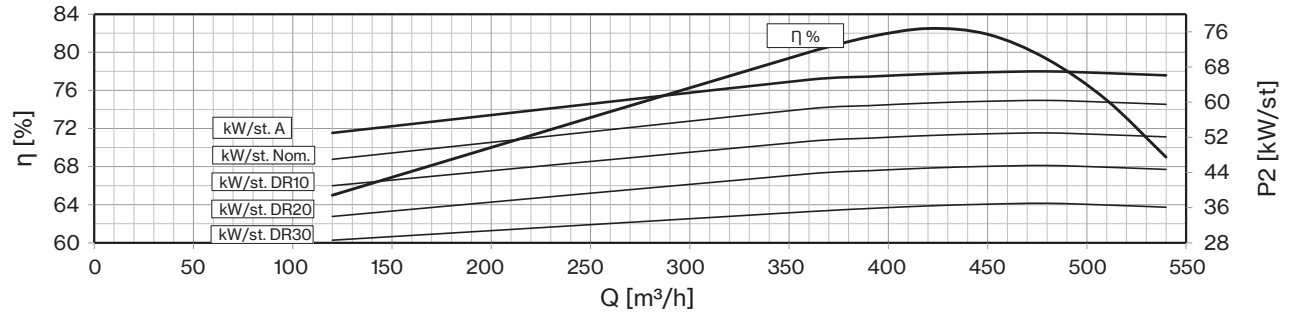
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 400/04DR20D	12"	3444	1460	1984	480	154
12LM 400/04DR10D		3570	1460	2110	700	154
12LM 400/04D		3740	1460	2280	775	154
12LM 400/05 DR10D-14	14"	3970	1690	2280	775	179
12LM 400/05D-14		3850	1690	2160	906	179
12LM 400/05AD-14		4010	1690	2320	1010	179
12LM 400/06D-14		4240	1920	2320	1010	204

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462

12LM 400



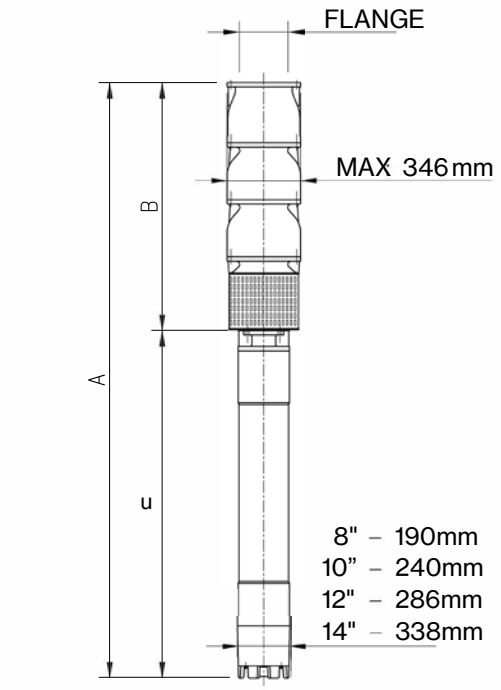


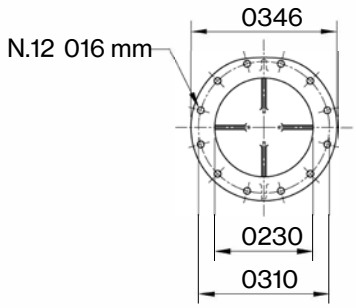
Drinking water compatibility according DM 174
MEI ≥ 0,4 (regulation EU N. 547/2012)
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1333	2667	4000	5333	6667	8000	8500	9667
	P2		CURRENT	l/sec	0	22,2	44,5	66,7	88,9	111,1	133,3	141,8	161,2
	HP	kW	A	m³/h	0	80	160	240	320	400	480	510	580
E14 A/1D	90	66	126,0		71,8	66,5	62,5	58,7	54,4	49,0	41,6	38,2	
E14 A/1C	100	75	143,2		76,8	71,7	67,5	63,8	59,6	54,6	47,9	45,0	39,0
E14 A/1B	125	92	175,1		85,1	79,9	75,6	71,8	67,8	63,3	57,7	55,1	48,2
E14 A/1A	150	110	211,0		97,1	90,8	85,5	80,4	75,6	70,7	65,4	63,0	57,6
E14 A/1	175	130	245,3	H	108,6	99,3	92,3	87,0	82,5	78,0	73,0	70,8	64,1
E14 A/2D	175	130	245,3	(m)	143,5	133,0	125,0	117,4	108,8	98,0	83,2	76,4	
E14 A/2C	200	150	277,2		153,6	143,4	135,0	127,6	119,1	109,1	95,8	90,0	78,0
E14 A/2B	250	185	342,2		170,2	159,8	151,2	143,6	135,6	126,5	115,4	110,2	96,4
E14 A/2A	300	220	430,0		194,3	181,6	171,0	160,8	151,2	141,4	130,8	126,0	115,2
E14 A/2	340	250	481,0		217,3	198,6	184,6	174,0	165,0	156,0	146,0	141,6	128,2

Max Eff. %	82,3
Max KW / St. D (230mm) =	64,9
Max KW / St. C (238mm) =	74,0
Max KW / St. B (251mm) =	90,8
Max KW / St. A (268mm) =	109,1
Max KW / St. - (276mm) =	119,3

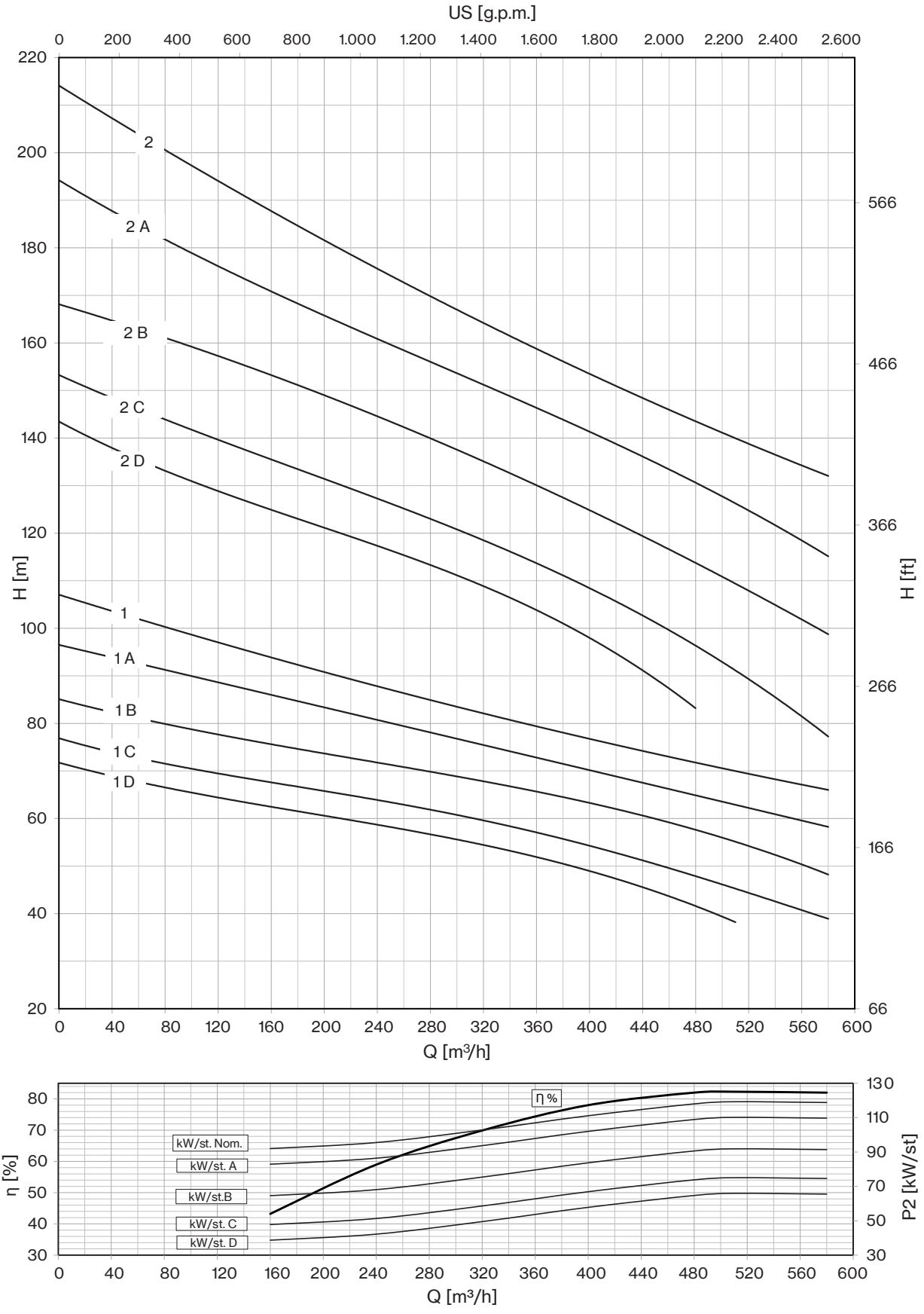
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	5,8	6,4	9,4	15,3





TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
E14 A/1D-8	8" NEMA	2237	935	1302	214	184
E14 A/1C-8		2318	935	1383	230	184
E14 A/1B-8		2518	935	1583	270	184
E14 A/1A-8		2668	935	1733	300	184
E14 A/1-10	10"	2569	935	1634	385	184
E14 A/2D-10		2809	1175	1634	385	260
E14 A/2C-10		2909	1175	1734	415	260
E14 A/2B-10		3159	1175	1984	480	260
E14 A/2A-12	12"	3285	1175	2110	700	260
E14 A/2-12		3455	1175	2280	775	260

E14 A

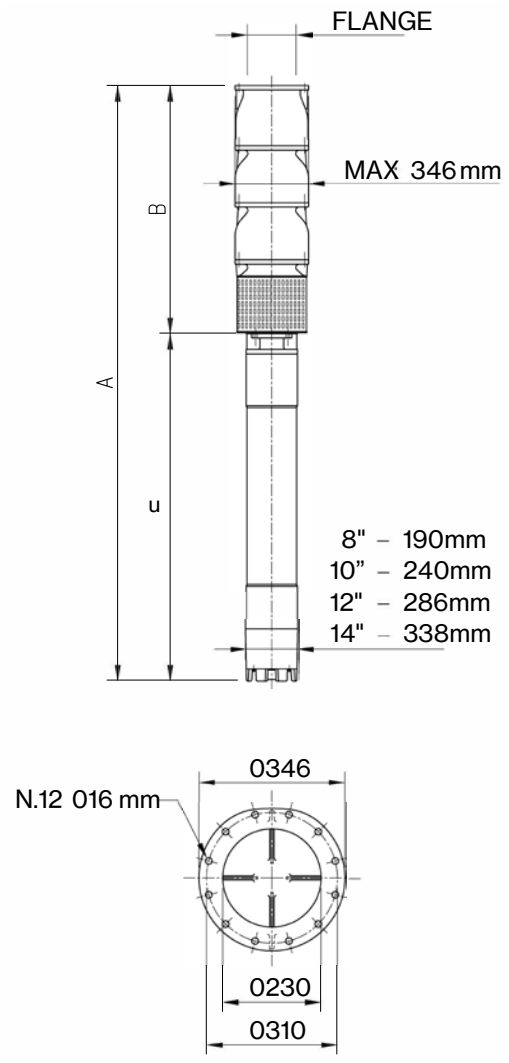


Drinking water compatibility according DM 174
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B

50 Hz - 2900 rpm					Q								
TYPE	SUITABLE MOTOR 3~ 400V			l/min	0	1333	4000	5333	6667	9000	10000	12500	14333
	P2		CURRENT	l/sec	0	22,2	66,7	88,9	111,1	150,0	166,7	208,3	238,9
	HP	kW	A	m³/h	0	80	240	320	400	540	600	750	860
E14 B/1C	125	92	175,1		73,5	72,5	68,0	63,5	57,8	44,0	36,5	14,0	
E14 B/1B	150	110	211,0		80,4	79,5	75,0	71,5	66,0	53,5	46,7	26,5	
E14 B/1A	175	130	245,3		87,0	84,0	79,0	77,0	73,8	66,0	61,5	45,5	29,0
E14 B/1	200	150	277,2	H	100,8	97,4	90,4	86,9	82,9	74,2	69,0	53,9	38,4
E14 B/2C	250	185	342,2	(m)	147,0	145,0	136,0	127,0	115,6	88,0	73,0	28,0	
E14 B/2B	300	220	430,0		160,7	159,0	150,0	143,0	132,0	107,0	93,4	53,0	
E14 B/2A	400	300	551,0		174,0	168,0	158,0	154,0	147,6	132,0	123,0	91,0	58,0
E14 B/2	400	300	551,0		201,6	194,8	180,8	173,8	165,8	148,4	138,0	107,8	76,8

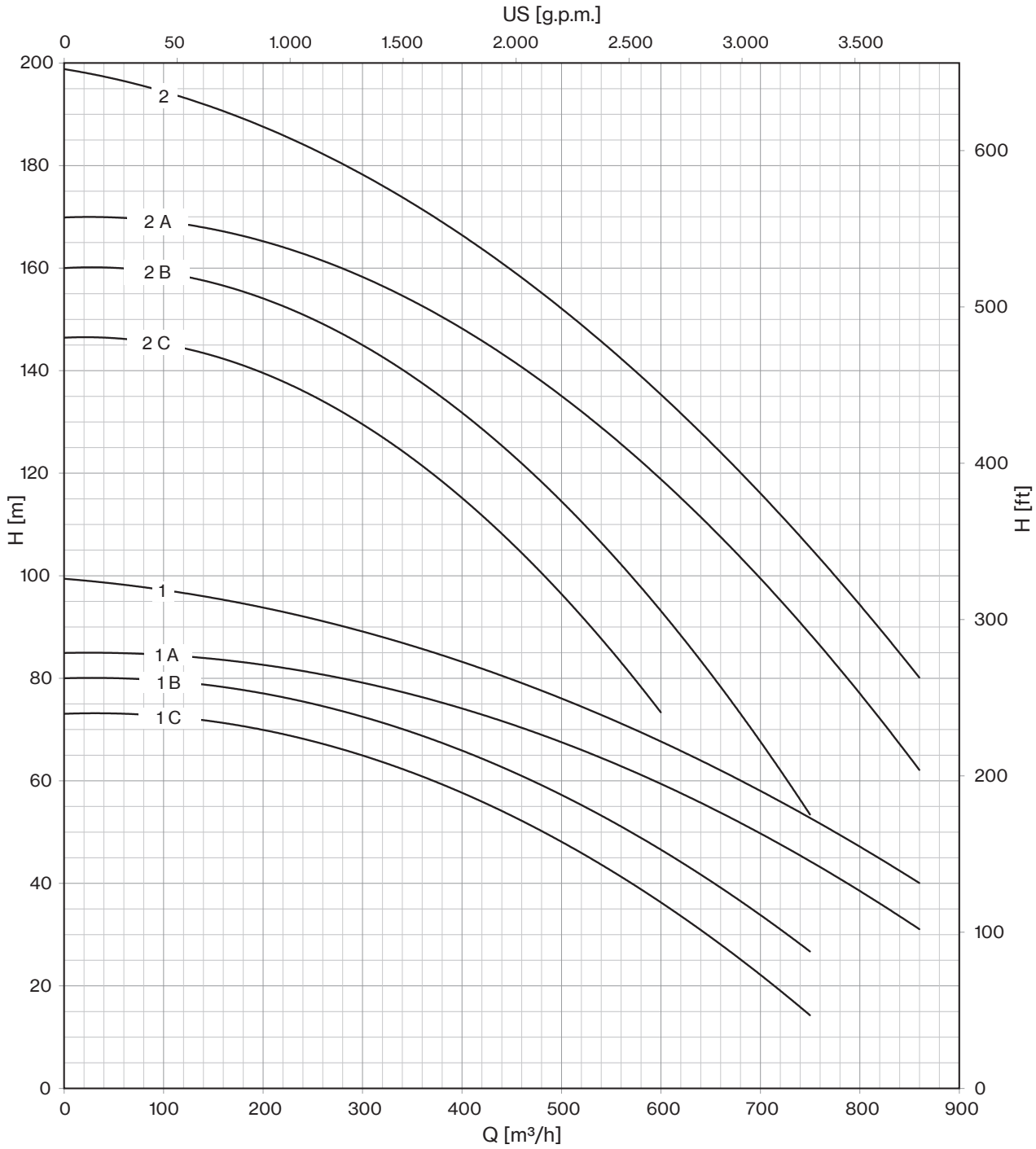
Max Eff. %	78,6
Max KW / St. C (240mm) =	91,8
Max KW / St. B (D.250mm) =	109,7
Max KW / St. A (259mm) =	129,6
Max KW / St. - (274mm) =	149,6

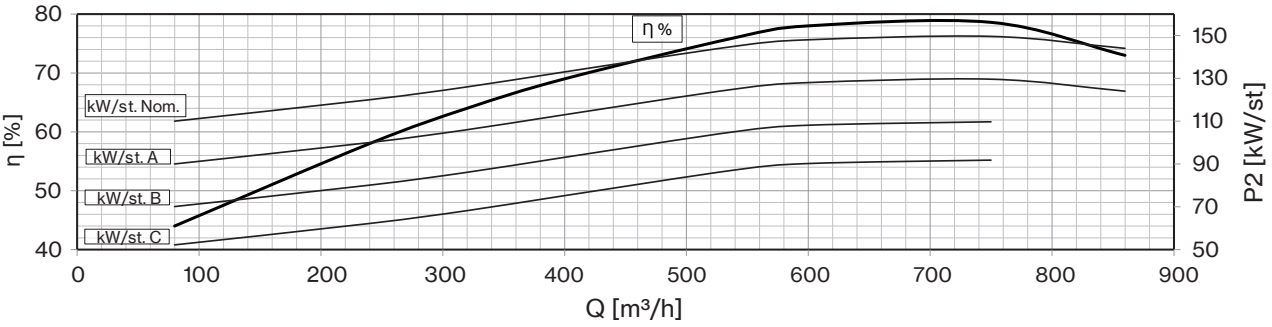
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	6	6,4	8,6	16,3



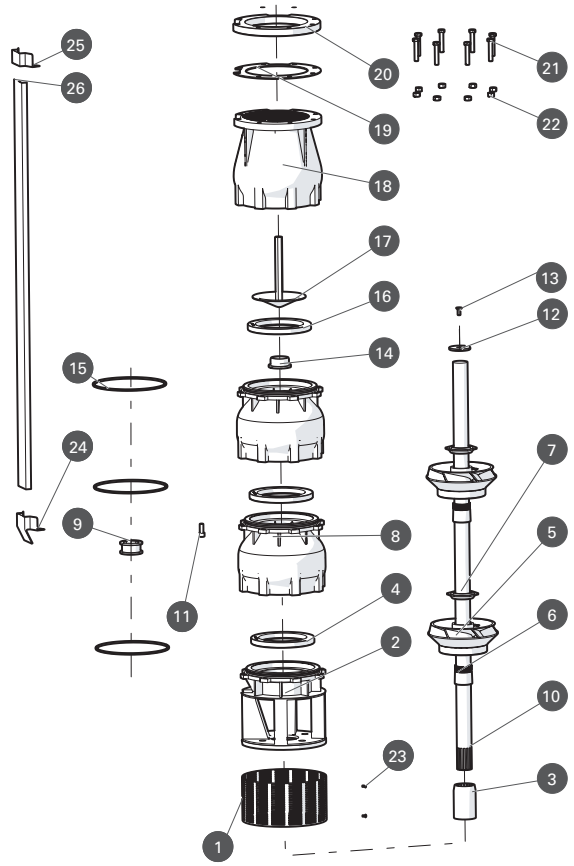
TYPE 3~	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
E14 B/1C-8	8" NEMA	2488	905	1583	270	184
E14 B/1B-8		2638	905	1733	300	184
E14 B/1A-10	10"	2539	905	1634	385	184
E14 B/1-10		2639	905	1734	415	184
E14 B/2C-10		3159	1175	1984	480	260
E14 B/2B-12	12"	3285	1175	2110	700	260
E14 B/2A	14"	3455	1175	2280	775	260
E14 B/2		3455	1175	2280	775	260

E14 B





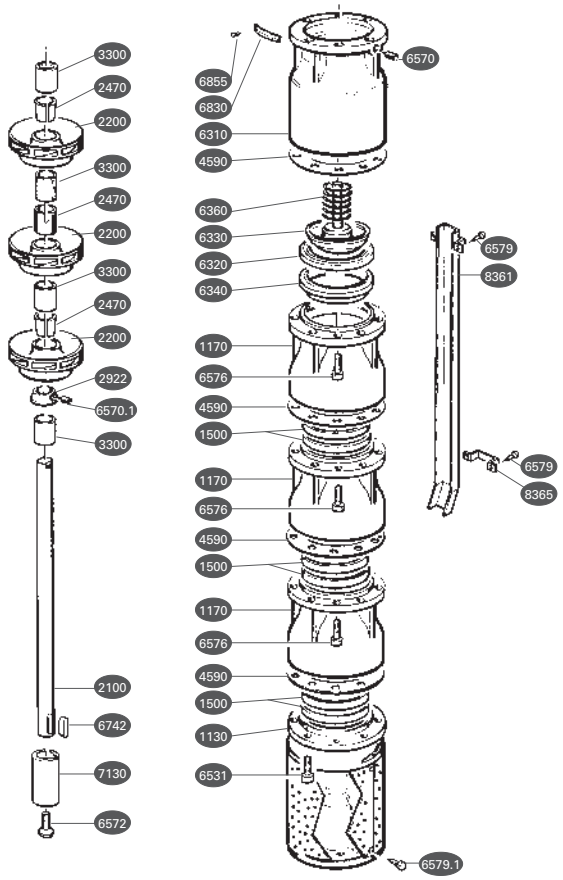
Drinking water compatibility according DM 174
Models with less than 3 stages reduce the % eff. of 5%
Hydraulic performance according to ISO 9906 grade 3B



N. CODE	DESCRIPTION	LMS EXECUTION	LMX EXECUTION	LMD EXECUTION	(*) Q.TY
1	**SUCTION STRAINER**	AISI 304	AISI 316	Duplex EN 1.4462	-
2	**MOTOR BRACKET**	AISI 304	AISI 316	Duplex EN 1.4462	-
3	**COUPLING**	AISI 304	AISI 316	Duplex EN 1.4462	1
4	**WEAR RING**	NBR	NBR	NBR	N° of Stages
5	**IMPELLER**	AISI 304	AISI 316	Duplex EN 1.4462	-
6	**CONE**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
7	**HEXAGONAL RING**	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
8	**DIFFUSER**	AISI 304	AISI 316	Duplex EN 1.4462	-
9	**BEARING BUSH**	NBR	NBR	NBR	N° of Stages
10	**PUMP SHAFT**	AISI 304	AISI 316	Duplex EN 1.4462	1
11	**N.8 SCREW FOR DIFFUSEUR**	AISI 304	AISI 316	Duplex EN 1.4462	-
12	**RING**	AISI 304	AISI 316	Duplex EN 1.4462	1
13	**SCREW FOR DISK**	AISI 304	AISI 316	Duplex EN 1.4462	1
14	**COUNTERTHRUST**	PTFE + 25% CARBON	PTFE + 25% CARBON	PTFE + 25% CARBON	1
15	**O-RING**	NBR	NBR	NBR	N° of Stages
16	**GASKET VALVE**	NBR	NBR	NBR	1
17	**CAP VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
18	**BODY VALVE**	AISI 304	AISI 316	Duplex EN 1.4462	-
19	**SEAL COUNTERFLANGE**	NBR	NBR	NBR	1
20	**COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
21	**N.8 SCREW FOR COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
22	**N.8 NUT FOR COUNTERFLANGE**	AISI 304	AISI 316	Duplex EN 1.4462	-
23	**N.2 SCREW FOR SUCTION STRAINER**	AISI 304	AISI 316	Duplex EN 1.4462	-
24	**LOWER CLAMP**	AISI 304	AISI 316	Duplex EN 1.4462	-
25	**UPPER CLAMP**	AISI 304	AISI 316	Duplex EN 1.4462	-
26	**COVER CABLE**	AISI 304	AISI 316	Duplex EN 1.4462	-

** Reccomended spare parts quantity*

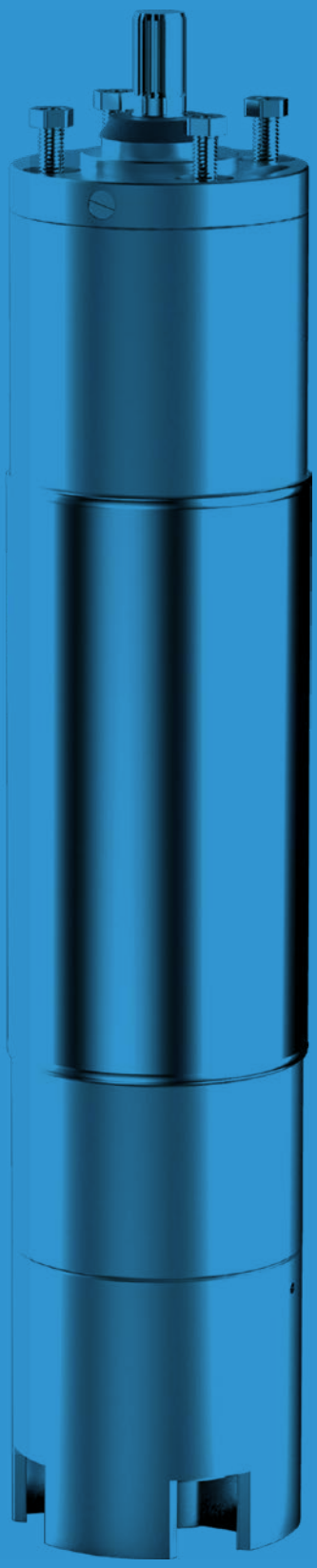
E14

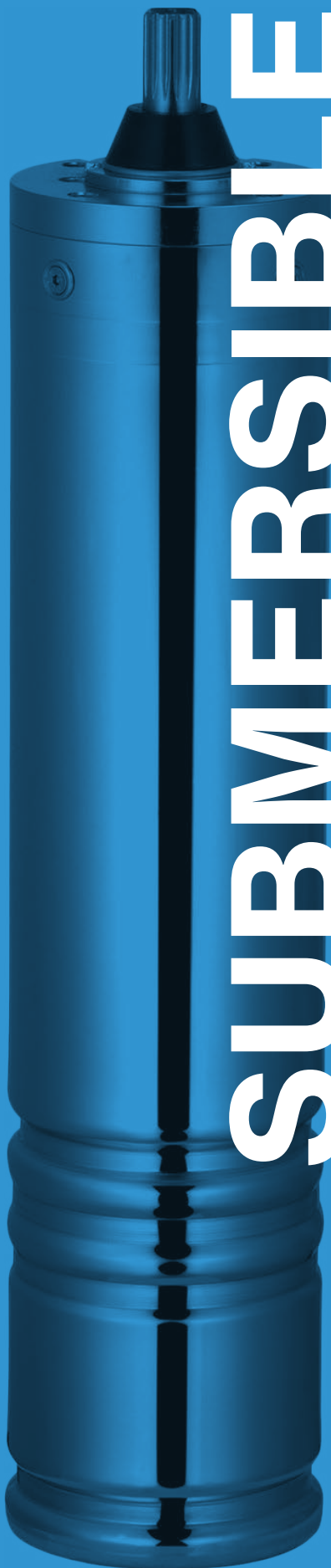


N. CODE	DESCRIPTION	MATERIAL	(*) Q.TY
1130	**MOTOR BRACKET**	CAST IRON	
1170	**DIFFUSER**	CAST IRON	
1500	**WEAR RING**	RUBBER	1 × Stage
2100	**SHAFT**	STAINLESS STEEL	
2200	**IMPELLER**	CAST IRON	1 × Stage
2470	**BUSHING**	STEEL	1 × Stage
2922	**SANDGUARD**	BRASS	
3300	**BEARING**	STEEL - RUBBER	1 × Stage
4590	**GLAND**	GUARNITAL	1 × Stage
6310	**VALVE BODY**	VALVE BODY / CAST IRON	
6320	**VALVE HOUSING**	RUBBER	
6330	**WASHER**	STAINLESS STEEL	
6340	**HOUSING RING**	CAST IRON	
6360	**SPRING**	STAINLESS STEEL	
6531	**STRAINER**	STAINLESS STEEL	
6570	**SCREW**	STAINLESS STEEL	
6570.1	**SCREW**	STAINLESS STEEL	
6572	**SCREW**	STAINLESS STEEL	
6576	**SCREW**	STAINLESS STEEL	
6579	**SCREW**	STAINLESS STEEL	
6579.1	**SCREW**	STAINLESS STEEL	
6742	**KEY**	STAINLESS STEEL	
6830	**LABEL**	STAINLESS STEEL	
6855	**PIN**	STAINLESS STEEL	
7130	**JOINT**	STAINLESS STEEL	
8361	**SHEAT**	STAINLESS STEEL	
8365	**CABLE GUARD CLAMP**	STAINLESS STEEL	

** Reccomended spare parts quantity*

SUBMERSIBLE WELL MOTORS



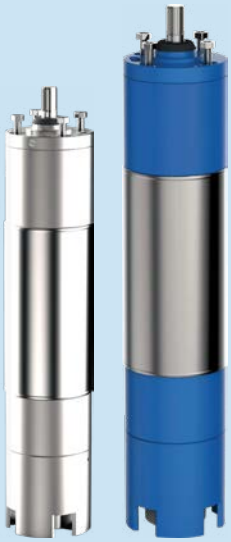


SUBMERSIBLE WELL MOTORS

4MFE/6MFE



6R/8R/10R



PTR12/PTR14



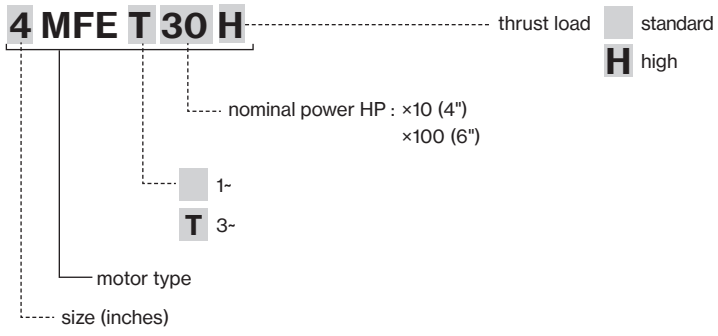
Line of motors for submersible electric pumps, available with different construction technologies and available in sizes 4", 6", 8", 10", 12" and 14".

4MFE/6MFE

4” and 6” rewindable oil filled submersible motors characterized by high torque, strong mechanical structure, high reliability. Suitable for vertical and horizontal operations.

Construction features	
Upper support	nickel plated cast iron
External jacket, shaft and cup	stainless steel AISI 304
Mechanical seal	ceramic-graphite
Ball bearings	axial and radial oil lubricated
Number of startups/hr	max 30
Coolant	non-toxic dielectric lubricant
Cable	1,75 to 4 m according to motor size (3 wires + ground)
Shaft extension and coupling	NEMA standard
Voltage	1~ 220/230V - 50Hz 3~ 380/415V - 50Hz
Insulation class	F
Protection degree	IPX8
Max liquid temperature	35° C
Max depth immersion	150 m





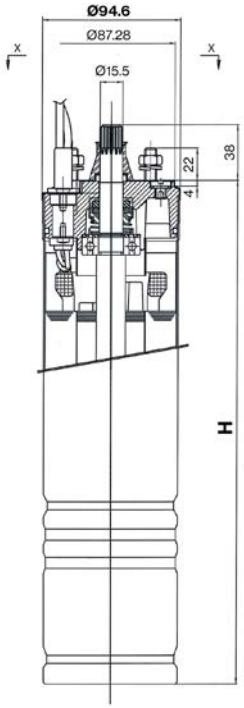


4MFE

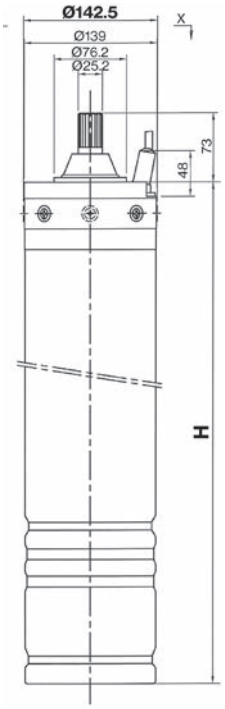


6MFE

4MFE/6MFE



4 "



6 "

TYPE 1~ 230V	Power		Axial load	I_N	I_{START}	C	Efficiency	Cos Φ	T_S / T_N	H	Kg	CABLE	
	HP	kW	N	A		µF	%			mm		Lenght m	Size mm²
4MFE 5	0,5	0,37	1500	3,4/3,6	10,8	20	53	0,94	1	325	7	1,75	1,5
4MFE 7	0,75	0,55		4,2/4,5	13,9	25	60	0,92	0,87	325	7,6		
4MFE10	1	0,75		5,6/6	18,5	35	62	0,92	0,7	350	8,7		
4MFE15	1,5	1,1		7,8/8,2	23	40	66	0,92	0,5	385	10,3		
4MFE20	2	1,5		10,8/11	38,7	50	68	0,88	0,55	420	12		
4MFE30	3	2,2		14,6/14,8	43,5	70	69	0,94	0,48	470	14,2	2,5	
4MFE30H	3	2,2	7500	14,6/14,8	43,5	70	69	0,94	0,48	520	15,5		

TYPE 3~ 400V	Power		Axial load	I_N	I_{START}	Efficiency	Cos Φ	T_S / T_N	H	Kg	CABLE	
	HP	kW	N	A		%			mm		Lenght m	Size mm²
4MFET 5	0,5	0,37	1500	1,3/1,6	6,2	60	0,72	2,9	325	6,5	1,75	1,5
4MFET 7	0,75	0,55		1,9/2	8,5	62	0,71	3,1	325	7		
4MFET 10	1	0,75		2,4/2,6	10,9	66	0,71	3,1	325	7,6		
4MFET 15	1,5	1,1		3,2/3,4	14	73	0,7	3,2	350	8,7		
4MFET 20	2	1,5		4,4/4,6	17	73	0,7	3,1	385	10,4		
4MFET 30	3	2,2		5,8/6,2	25	75	0,78	3,1	420	12	2,5	
4MFET 30H	3	2,2	7500	5,8/6,2	25	75	0,78	3,1	470	14,2		
4MFET 40	4	3	2500	7,6/7,8	35	74	0,81	2,8	418	12,8		
4MFET 42	4	3	5000	7,6/7,8	34	74	0,81	2,8	418	13,1		
4MFET 42H	4	3	7500	7,9/8	34	77	0,75	3	550	19		
4MFET 55	5,5	4	2500	9,8/9,9	49	76	0,82	3	468	15,3		
4MFET 57	5,5	4	5000	9,8/9,9	49	76	0,82	3	468	15,6		
4MFET 57H	5,5	4	7500	10/10,2	51	76	0,79	3,2	580	20,5		
4MFET 75	7,5	5,5	2500	13,5/13,8	57	78	0,85	3	538	18,6	3	
4MFET 77	7,5	5,5	5000	13,5/13,8	57	78	0,85	3	538	18,9		
4MFET 77H	7,5	5,5	7500	14,5/14,7	58	76	0,72	3,1	650	22,4	4	2
4MFET 100H	10	7,5		19/19,5	77	79	0,8	3,2	810	27		

TYPE 3~ 400V	Power		Axial load	I_N	I_{START}	Efficiency	Cos Φ	T_S / T_N	H	Kg	CABLE	
											Lenght	Size
	HP	kW	N	A		%			mm		m	mm²
6MFET 55	5,5	4	10000	8,8	45	76	0,82	2,4	540	32	2,8	4
6MFET 75	7,5	5,5		12,5	64	78	0,82	3	570	40		
6MFET 100	10	7,5		16,9	78	77	0,82	2,5	600	42		
6MFET 125	12,5	9,2		21,5	95	80	0,81	2,4	600	45		
6MFET 150	15	11		23,7	121	83	0,83	2,4	700	48		
6MFET 175	17,5	12,8		27,8	145	82	0,84	2,4	700	50		
6MFET 200	20	15		30,4	160	82	0,85	2,5	760	54		
6MFET 250	25	18,5		38,3	225	82	0,85	2,1	830	65		8
6MFET 300	30	22		44	250	83	0,86	2	890	70		
6MFET 400	40	30	20000	62	330	86	0,86	2	1030	90		
6MFET 500	50	37		72	400	86	0,87	2	1170	101		

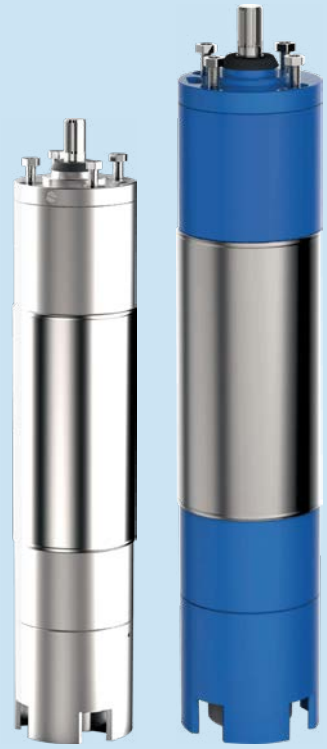
TYPE 1~	HP	kW	PROTECTION	CONTROL PANEL
4MFE 5	0,5	0,37	PML 5/20-4	EQSM + 20µF
4MFE 7	0,75	0,55	PML 7/25-6	EQSM + 25µF
4MFE 10	1	0,75	PML 10/35-7	EQSM + 35µF
4MFE 15	1,5	1	PML 15/40-10	EQSM + 40µF
4MFE 20	2	1,5	PML 20/50-13	EQSM + 50µF
4MFE 30	3	2,2	PML 30/80-18	EQSM + 80µF

TYPE 1~	HP	kW	PROTECTION	CONTROL PANEL
4MFET 5	0,5	0,37	PT 7/1,3-2,1	EQSMT 10
4MFET 7	0,75	0,55	PT 7/1,3-2,1	EQSMT 10
4MFET 10	1	0,75	PT 10/1,9-3	EQSMT 10
4MFET 15	1,5	1	PT 15-20/2,9-4,5	EQSMT 10
4MFET 20	2	1,5	PT 20/30-40/4,3-6,8	EQSMT 10
4MFET 30	3	2,2	PT 20/30-40/4,3-6,8	EQSMT 10
4MFET 40	4	3	PT 40-50/5,7-9,1	EQSMT 10
4MFET 55	5,5	4	PT 55-75/8,6-13,5	EQSMT 10
4MFET 75	7,5	5,5	PT 100/12,5-16,5	EQSMT 10
4MFET 100	10	7,5	PT 125-150/16-21	EQSMT 15

TYPE	HP	kW	PROTECTION	CONTROL PANEL	CONTROL PANEL star-delta starting 400/690 V
6MFET 55	5,4	4	PT 55-75/8.6-13.5	EQSMT 10	QST 5
6MFET 75	7,5	5,5	PT 100/12.5-16.5	EQSMT 10	QST 7
6MFET 100	10	7,5	PT 125-150/16-21	EQSMT 10	QST 10
6MFET 125	12,5	9,2	PT 200/22-29	EQSMT 15	QST 15
6MFET 150	15	11	PT 200/22-29	EQSMT 15	QST 15
6MFET 175	17,5	13	-	EQSMT 20	QST 20
6MFET 200	20	15	-	EQSMT 20	QST 20
6MFET 250	25	18,5	-	-	QST 30
6MFET 300	30	22	-	-	QST 30
6MFET 400	40	30	-	-	QST 40
6MFET 500	50	37	-	-	QST 50

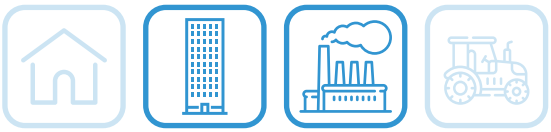
6R/8R/10R

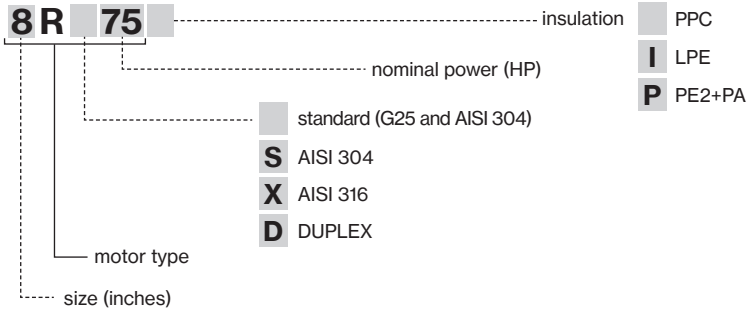
Submersible Well Motors



6”, 8”, 10” rewindable submersible water-filled motors with NEMA coupling flange and shaftend. Power from 4 kW up to 185 kW. Avaible in PPC (standard), LPE and PE2+PA insulation class. The motor can be supplied in stainless steel AISI 304, AISI 316 or Duplex EN 1.4462.

Construction features	
Upper and bottom support	G25 (6R / 8R / 10R) stainless steel AISI 304 (6RS / 8RS / 10RS) stainless steel AISI 316 (6RX / 8RX / 10RX) Duplex EN 1.4462 (6RD / 8RD / 10RD)
Stator sleeve	stainless steel AISI 304 - (R) stainless steel AISI 304 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
Shaft end	stainless steel AISI 431 - (R) stainless steel AISI 431 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
Seal type	lip seal (standard); mechanical seal (on request)
Bearings	radial and axial, water lubricated
Thrust bearing	Michell
Voltage	3~ 400V ± 10% - 50Hz 3~ 400/690V ± 10% - 50Hz
Min. cooling flow	0,5 m/s
Insulation class	Y (max 30° C) for PPC F (max 50° C) for PE2+PA or LPE
Insulation	PPC (standard) PE2 + PA or LPE (on request)
Protection degree	IPX8
Max depth immersion	350m
Available on demand	- PT 100 - Star/Delta starting - Cooling Sleeve - Cer./Carb./NBR Seal - SIC/SIC/NBR Seal

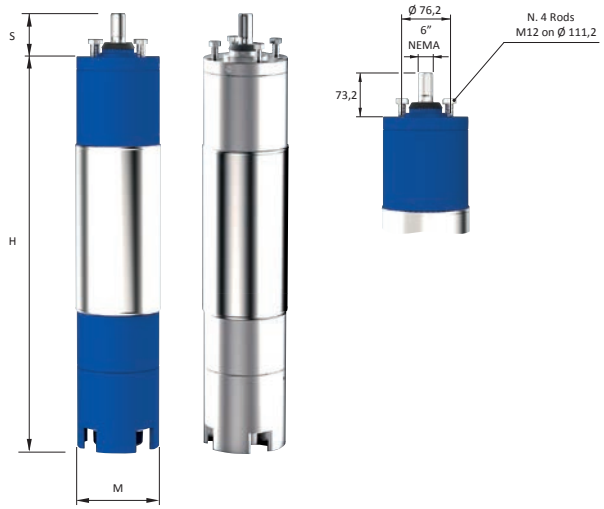




TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
6R7	7,5	5,5	380 400 415	12,4 12,3 12,3	2846 2859 2880	77,0 76,0 75,0	82,0 81,0 80,0	81,0 80,0 79,0	0,67 0,65 0,63	0,78 0,76 0,74	0,83 0,81 0,79	1,60	5,60	1,90	3,40		
6R10	10	7,5	380 400 415	16,6 16,3 16,3	2843 2861 2882	78,0 77,0 76,0	82,5 81,5 80,5	82,0 81,0 80,0	0,68 0,66 0,64	0,78 0,76 0,74	0,84 0,82 0,80	1,80	5,70	1,90	3,40		
6R12	12,5	9,2	380 400 415	20,2 19,9 19,9	2846 2864 2886	79,0 78,0 77,0	83,0 82,0 81,0	82,0 81,0 80,0	0,68 0,66 0,64	0,79 0,77 0,75	0,85 0,83 0,81	1,80	5,70	1,90	3,40		
6R15	15	11	380 400 415	23,7 23,4 23,4	2849 2867 2882	80,0 79,0 78,0	84,5 83,5 82,5	83,5 82,5 81,5	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,90	5,90	2,00	3,50	16000	
6R17	17,5	13	380 400 415	27,7 27,3 27,3	2851 2870 2887	81,0 80,0 79,0	84,5 83,5 82,5	84,0 83,0 82,0	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,80	6,00	2,00	3,60		
6R20	20	15	380 400 415	32 31,5 31,5	2852 2871 2883	82,0 81,0 80,0	85,0 84,0 83,0	84,0 83,0 82,0	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,70	5,90	2,00	3,50		15
6R25	25	18,5	380 400 415	38,9 38,3 38,6	2854 2873 2889	82,5 81,5 80,0	85,5 84,5 83,0	85,0 84,0 82,5	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,70	5,60	1,90	3,40		
6R30	30	22	380 400 415	45,8 45,1 45,3	2857 2877 2890	82,5 81,5 80,0	85,5 84,5 83,0	85,0 84,0 82,5	0,70 0,68 0,66	0,80 0,78 0,76	0,86 0,84 0,82	1,70	5,90	2,00	3,50		
6R35	35	26	380 400 415	53,8 52,9 53,2	2867 2878 2891	82,5 81,5 80,0	86,0 85,0 83,5	85,5 84,5 83,0	0,71 0,69 0,67	0,81 0,79 0,77	0,86 0,84 0,82	1,70	5,70	1,90	3,40	25000	
6R40	40	30	380 400 415	62,1 61,1 61,4	2861 2880 2892	82,5 81,5 80,0	86,0 85,0 83,5	85,5 84,5 83,0	0,72 0,70 0,68	0,81 0,79 0,77	0,86 0,84 0,82	1,70	5,60	1,90	3,40		
6R50	50	37	380 400 415	77 75,8 76,2	2863 2882 2891	83,0 82,0 80,5	86,5 85,5 84,0	85,0 84,0 82,5	0,72 0,70 0,68	0,81 0,79 0,77	0,86 0,84 0,82	1,60	5,60	1,90	3,40		

Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
6R7	7,5	5,5	4G × 4 mm²	2×(4G × 4 mm²)	3	30 °C	50 °C
6R10	10	7,5	4G × 4 mm²	2×(4G × 4 mm²)			
6R12	12,5	9,2	4G × 4 mm²	2×(4G × 4 mm²)			
6R15	15	11	4G × 4 mm²	2×(4G × 4 mm²)			
6R17	17,5	13	4G × 6 mm²	2×(4G × 4 mm²)			
6R20	20	15	4G × 6 mm²	2×(4G × 4 mm²)			
6R25	25	18,5	4G × 6 mm²	2×(4G × 4 mm²)			
6R30	30	22	4G × 6 mm²	2×(4G × 4 mm²)			
6R35	35	26	4G × 10 mm²	2×(4G × 6 mm²)			
6R40	40	30	4G × 10 mm²	2×(4G × 6 mm²)			
6R50	50	37	4G × 10 mm²	2×(4G × 10 mm²)			



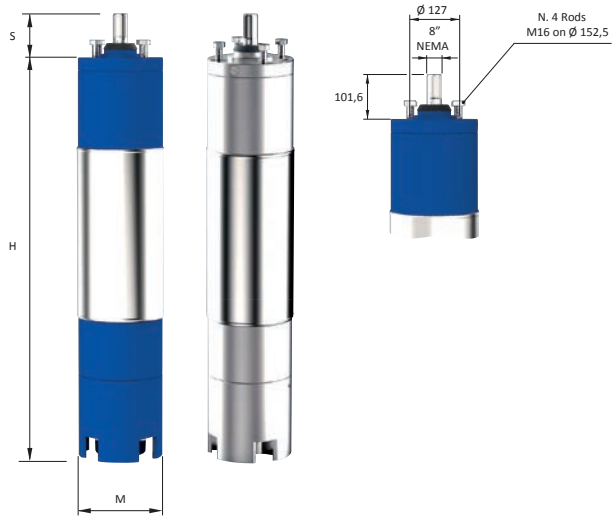
TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
6R7	671	73,2	145	45
6R10	701			55
6R12	751			60
6R15	811			65
6R17	841			70
6R20	931			75
6R25	991			83
6R30	1071			92
6R35	1181			100
6R40	1251			108
6R50	1341			118

8R-8RS-8RX-8RD

TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
8R40	40	30	380 400 415	64,4 61,7 60	2859 2875 2892	79,8 80,1 79,3	85,2 85,0 84,5	84,3 84,7 85,0	0,77 0,76 0,75	0,81 0,80 0,79	0,84 0,83 0,82	2,05	6,40	2,10	3,80	45000	10
8R50	50	37	380 400 415	75,4 73 71,8	2865 2888 2904	80,3 80,6 79,8	85,7 85,5 85,0	84,8 85,2 85,5	0,79 0,77 0,75	0,83 0,81 0,79	0,88 0,86 0,84	1,95	5,70	2,00	3,70		
8R60	60	45	380 400 415	90,2 86,3 84,8	2882 2893 2905	80,8 81,1 80,3	86,2 86,0 85,5	85,3 85,7 86,0	0,76 0,74 0,72	0,86 0,81 0,79	0,87 0,86 0,84	1,95	5,80	2,00	3,70		
8R75	75	55	380 400 415	110,2 106,2 105,4	2880 2889 2901	81,3 81,6 80,8	86,7 86,5 86,0	85,8 86,2 86,5	0,76 0,74 0,72	0,85 0,81 0,80	0,89 0,87 0,84	1,85	5,80	2,00	3,60		
8R90	90	66	380 400 415	130,7 126 125,1	2881 2892 2905	82,4 82,6 81,9	87,5 87,4 86,9	86,8 87,2 87,5	0,76 0,74 0,72	0,86 0,82 0,79	0,89 0,87 0,84	1,85	5,80	2,00	3,50		
8R100	100	75	380 400 415	148,5 143,2 142,1	2882 2893 2905	82,3 82,6 81,8	87,7 87,5 87,0	86,8 87,2 87,5	0,75 0,73 0,71	0,85 0,81 0,77	0,89 0,87 0,84	1,80	5,80	2,00	3,50		
8R125	125	92	380 400 415	183,5 175,1 172,7	2880 2891 2903	83,0 83,5 83,0	86,0 86,5 86,0	85,7 86,3 86,3	0,75 0,74 0,72	0,84 0,83 0,81	0,89 0,88 0,86	1,80	5,70	1,90	3,50		
8R150	150	110	380 400 415	218,6 211 212,1	2885 2898 2908	85,5 86,1 85,5	86,5 87,0 86,5	86,0 86,6 86,0	0,74 0,73 0,72	0,83 0,82 0,81	0,89 0,87 0,84	1,80	5,70	1,90	3,50		

Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
8R40	40	30	3×1×10 mm²	6×1×10 mm²	3	30 °C	50 °C
8R50	50	37	3×1×10 mm²	6×1×10 mm²			
8R60	60	45	3×1×16 mm²	6×1×10 mm²			
8R75	75	55	3×1×16 mm²	6×1×10 mm²			
8R90	90	66	3×1×25 mm²	6×1×16 mm²			
8R100	100	75	3×1×25 mm²	6×1×16 mm²			
8R125	125	92	3×1×25 mm²	6×1×16 mm²			
8R150	150	110	3×1×35 mm²	6×1×25 mm²			

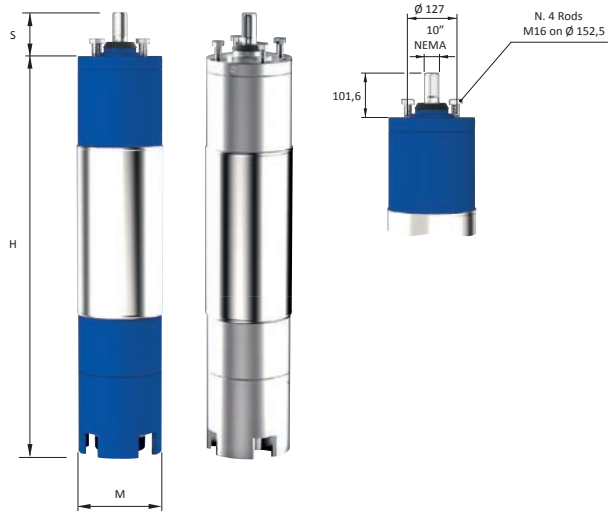


TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
8R40	993	101,6	194	150
8R50	1043			160
8R60	1123			178
8R75	1233			200
8R90	1302			214
8R100	1383			230
8R125	1583			270
8R150	1733			300

TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
			380	154,3	2884	86,9	87,0	88,0	0,73	0,80	0,84						
10R100	100	75	400	142,7	2896	85,9	88,0	88,3	0,72	0,84	0,86	1,80	6,40	1,90	3,40		
			415	143,9	2909	86,4	88,3	88,5	0,64	0,77	0,82						
			380	188,7	2890	87,2	87,3	88,3	0,74	0,83	0,84						
10R125	125	92	400	174,5	2904	86,2	88,3	88,6	0,71	0,83	0,86	1,60	6,30	1,80	3,40		
			415	176	2914	86,7	88,6	88,8	0,63	0,75	0,82						
			380	222,2	2930	87,9	88,0	89,0	0,71	0,81	0,85						
10R150	150	110	400	207	2937	86,9	89,0	89,3	0,73	0,84	0,86	1,55	6,70	1,80	3,30		
			415	211,3	2943	87,4	89,3	89,5	0,63	0,77	0,81						
			380	265,6	2895	87,5	88,2	89,0	0,73	0,81	0,83						
10R175	175	130	400	245,3	2915	86,5	89,3	89,4	0,71	0,83	0,85	1,85	5,80	2,00	3,60	60000	10
			415	244,6	2928	87,1	89,5	89,6	0,62	0,75	0,82						
			380	299,1	2898	87,1	88,2	89,0	0,72	0,82	0,84						
10R200	200	150	400	277,2	2917	86,1	88,5	89,1	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			415	278,1	2931	86,5	88,1	88,7	0,65	0,75	0,83						
			380	337,2	2901	86,5	87,5	88,6	0,72	0,82	0,84						
10R225	225	165	400	313,3	2920	85,4	87,2	88,5	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			415	313,9	2930	86,0	87,3	88,2	0,65	0,75	0,83						
			380	370	2904	87,4	88,0	89,0	0,73	0,83	0,85						
10R250	250	185	400	342,2	2924	86,5	88,7	89,3	0,72	0,82	0,87	1,50	6,50	1,80	3,30		
			415	340,9	2936	87,3	89,3	89,5	0,65	0,77	0,84						

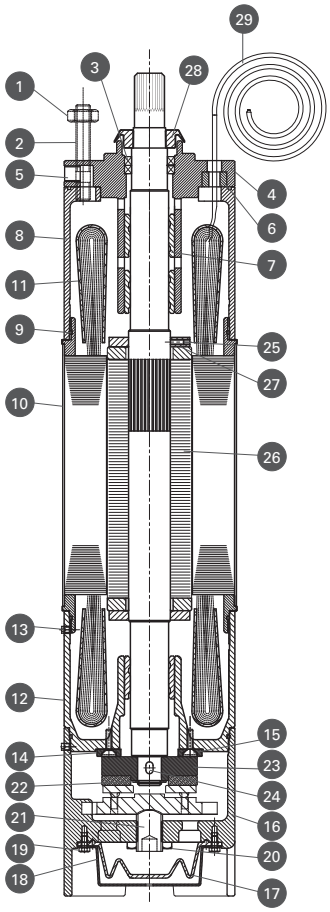
Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
10R100	100	75	3×1×25 mm²	6×1×16 mm²			
10R125	125	92	3×1×25 mm²	6×1×16 mm²			
10R150	150	110	3×1×35 mm²	6×1×16 mm²			
10R175	175	130	3×1×35 mm²	6×1×25 mm²	3	30 °C	50 °C
10R200	200	150	3×1×50 mm²	6×1×25 mm²			
10R225	225	165	3×1×50 mm²	6×1×35 mm²			
10R250	250	185	3×1×50 mm²	6×1×35 mm²			



TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
10R100	1284			270
10R125	1354			310
10R150	1504			350
10R175	1634	101,6	240	385
10R200	1734			415
10R225	1854			444
10R250	1984			480

6R/8R/10R

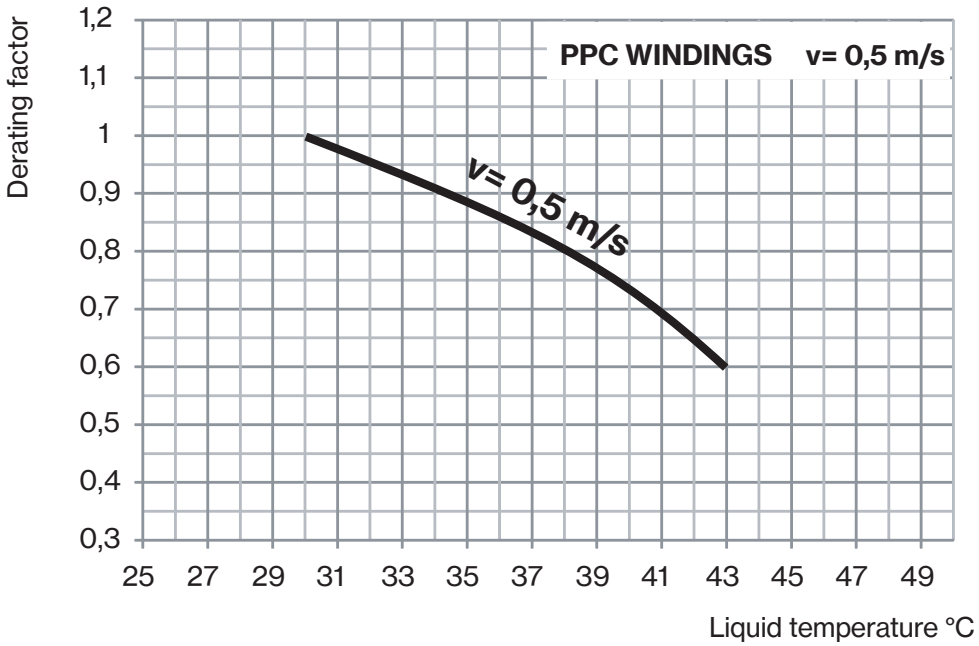


N. CODE	(*) Nº	DESCRIPTION	MATERIAL STANDARD VERSION R	MATERIAL VERSION RS-RX-RD
1		**N.4 Nuts**	AISI 304	AISI 304 / AISI 316 / DUPLEX
2		**N.4 Studs**	AISI 304	AISI 304 / AISI 316 / DUPLEX
3(*)	1	**N.2 Seal rings**	NBR	NBR
4		**Upper support**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
5		**N.2 Grains for Liquid filling**	AISI 304	AISI 304 / AISI 316 / DUPLEX
6		**Grommet**	NBR	NBR
7(*)	3	**N.3 Bearings**	GRAPHITE	GRAPHITE
8		**Motor casing**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
9(*)	4	**N.4 O-ring**	NBR	NBR
10		**Motor external sleeve**	AISI 304	AISI 304 / AISI 316 / DUPLEX
11		**N.2 Covers winding protection**	POM	POM
12		**Lower support**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
13		**N.3 Screw**	AISI 304	AISI 304 / AISI 316 / DUPLEX
14(*)	2	**N.2 Disks controsuspention**	TEFLON	TEFLON
15		**N.2 Screws for controsuspention**	AISI 304	AISI 304
16		**Base motor**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
17(*)	1	**Diaphram**	NBR	NBR
18		**Cover diaphram**	AISI 304	AISI 304 / AISI 316 / DUPLEX
19		**N.4 Screw for cover diaphram**	AISI 304	AISI 304 / AISI 316 / DUPLEX
20		**Nut**	AISI 304	AISI 304
21		**Screw**	AISI 304	AISI 304
22		**Seeger**	AISI 304	AISI 304
23(*)	1	**Trust bearing**	AISI + GRAPHITE	AISI + GRAPHITE
24		**Key**	AISI 304	AISI 304
25		**N.2 Grains for stabilizer**	AISI 304	AISI 304
26		**Complete rotor**	AISI	AISI
27		**N.2 Stabilizers**	AISI	AISI
28(*)	1	**Deflector**	NBR	NBR
29		**Cable**	H07 RNF	H07 RNF

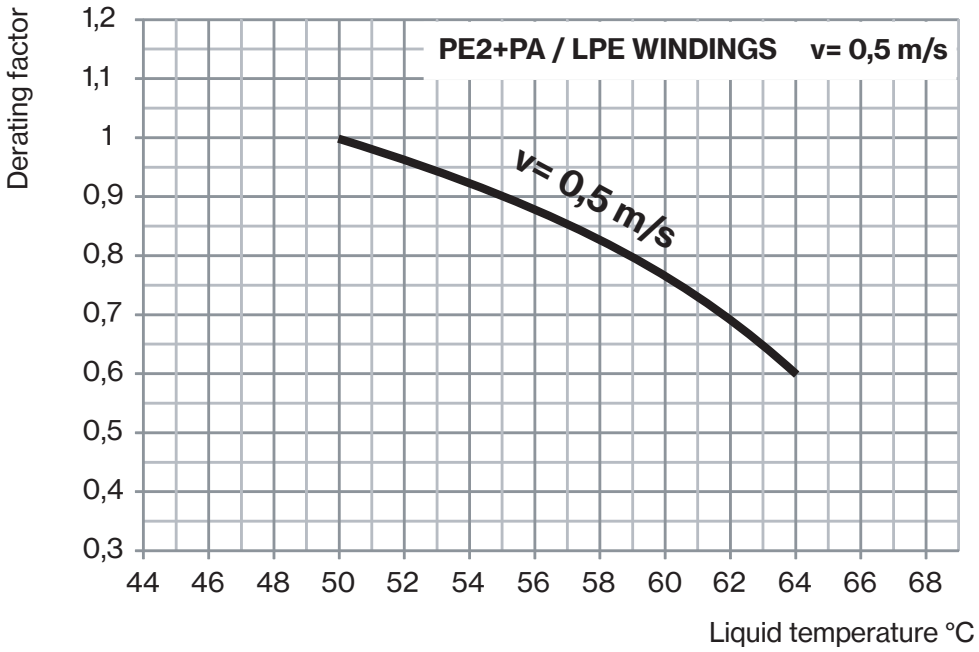
**Reccomended spare parts*

OPERATING CONDITIONS AT DIFFERENT WATER TEMPERATURE

All 6” - 8” - 10” standard motors with PPC windings can operate at liquid temperatures up to 30 °C without derating factor. From 31 °C till 43 °C the motors have to be derated according to the factor shown in the following graph.



All 6” - 8” - 10” motors with PE2+PA / LPE windings can operate at liquid temperatures up to 50 °C without derating factor. From 51 °C till 64 °C the motors have to be derated according to the factor shown in the following graph.



Moter size	Max motor starts per hour	Winding max temperature (°C)			Liquid max temperature (°C)		
		PPC	LPE	PE2+PA	PPC	LPE	PE2+PA
6”	15	70	80	80	30	50	50
8”	10	70	80	80	30	50	50
10”	10	70	80	80	30	50	50

PPC = Y insulation class
LPE = F insulation class
PE2+PA = / F insulation class
Minimum liquid velocity for motor 6” - 8” - 10”: 0,5 m/s

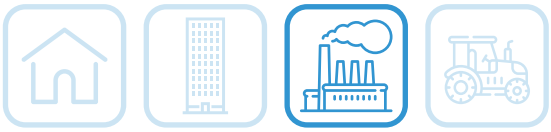
PTR12/PTR14

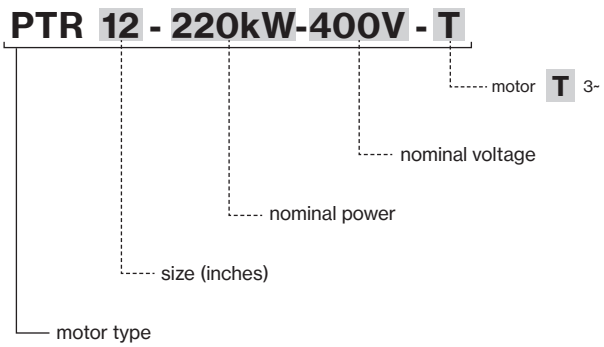
Submersible Well Motors



12” - 14” submersible rewindable water-filled motors. Power from 185 kW up to 400 kW. Standard PE2+PA winding insulation class for temperature up to 30°C.

Construction features	
Upper and bottom support	GG25 or stainless steel AISI 316
Stator sleeve	stainless steel AISI 316
Shaft end	stainless steel
Mechanical seal	SIC / SIC / NBR
Bearings	steel / NBR
Voltage	3~ 380-400V - 50Hz
Cooling flow	min 0,5 m/s
Insulation class	F
Insulation	PE2 + PA
Protection degree	IPX8
Available on demand	- Full motor in AISI 316 - Full motor in AISI 904 - PT 100 - Star/Delta starting - Cooling Sleeve - Clockwise rotation



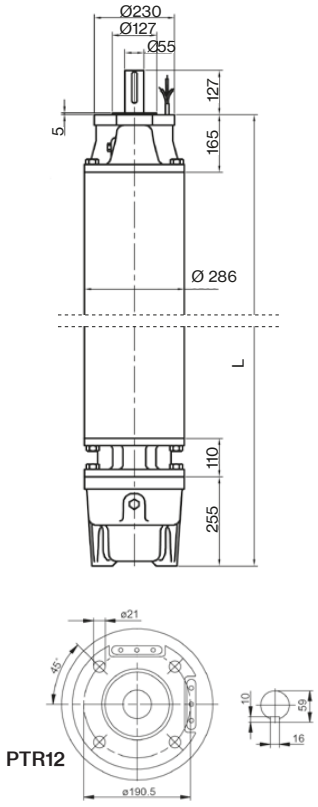


TYPE 3~ 400V	V	P_2		I_N	I_S/I_N	P_1	rpm	Efficiency	Cos Φ	DOL CABLE		S/D CABLE	
										Lenght	Size	Lenght	Size
		HP	kW	A		kW		%		m	mm²	m	mm²
PTR12 - 170kW	3~ 400	230	170	329	6,1	193	2920	88	0,85	8	3x70+1x50	8	6x50+1x50
PTR12 - 190kW		260	190	371	6,2	216	2930	88	0,84		3x70+1x50		6x50+1x50
PTR12 - 220kW		300	220	424	6,1	250	2920	88	0,85		3x70+1x50		6x50+1x50
PTR12 - 250kW		340	250	481	5,9	284	2920	88	0,85		3x70+1x50		6x50+1x50
PTR12 - 300kW		400	300	575	6	341	2905	88	0,87		3x70+1x50		6x50+1x50

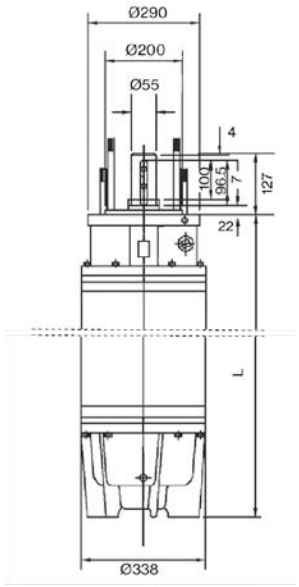
TYPE 3~ 400V	V	P_2		I_N	I_S/I_N	P_1	rpm	Efficiency	Cos Φ	S/D CABLE	
										Lenght	Size
		HP	kW	A		kW		%		m	mm²
PTR14 - 220kW	3~ 380	300	220	423	5,5	247	2900	89	0,89	8	6×70+1×50
PTR14 - 250kW		340	250	479	6	528	2900	89	0,89		6×70+1×50
PTR14 - 300kW		400	300	551	5,8	327	2900	90	0,9		6×95+1×50
PTR14 - 330kW		450	330	620	6	367	2900	90	0,9		6×95+1×50
PTR14 - 370kW		500	370	693	6,4	406	2900	90,5	0,89		6×95+1×50
PTR14 - 400kW		550	400	798	6,8	446	2900	90,5	0,85		6×95+1×50

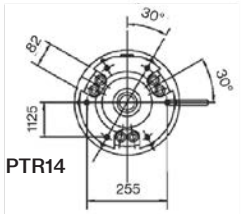
TYPE	DIMENSIONS				Kg
	Power		Axial load	L	
	HP	kW	N	mm	
PTR12 - 170kW	230	170	70000	1880	605
PTR12 - 190kW	260	190		1980	650
PTR12 - 220kW	300	220		2110	700
PTR12 - 250kW	340	250		2280	775
PTR12 - 300kW	400	300		2280	775

TYPE	DIMENSIONS				Kg
	Power		Axial load	L	
	HP	kW	N	mm	
PTR14 - 220kW	300	220	70000	1760	663
PTR14 - 250kW	340	250		1910	784
PTR14 - 300kW	400	300		2020	845
PTR14 - 330kW	450	330		2160	906
PTR14 - 370kW	500	370		2320	1010
PTR14 - 400kW	550	400		2460	1105



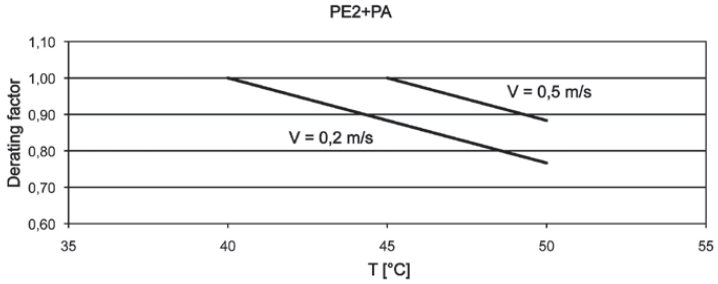
PTR12





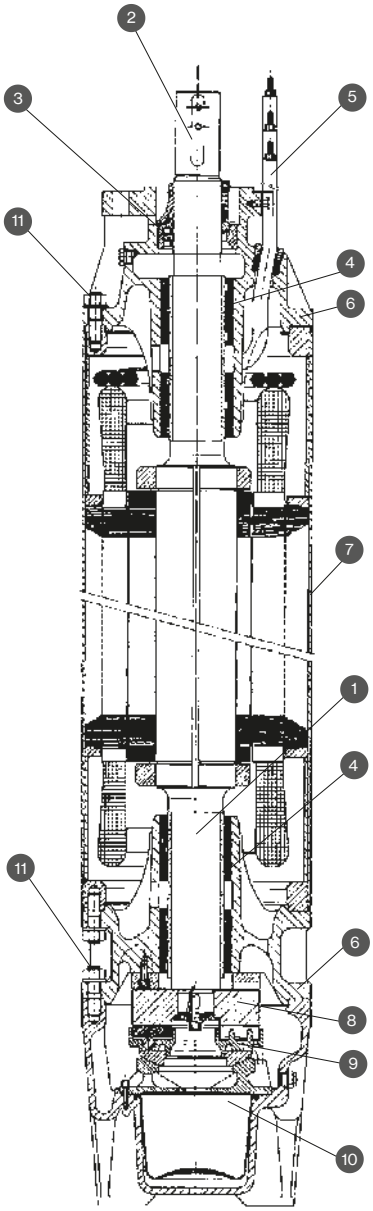
PTR14

POWER DERATING AT DIFFERENT LIQUID TEMPERATURE



The graph above does not include the PTR12 220kW, 250kW and 300kW models.
The maximum temperature is 10° C for models PTR12 220kW and 250kW, 25° C for PTR12 300kW.

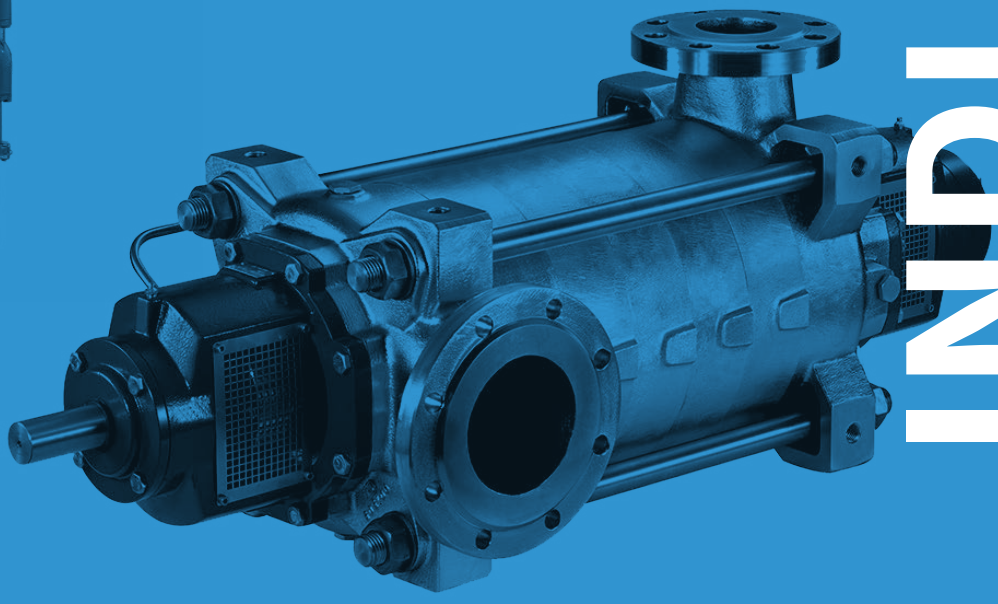
PTR12/PTR14



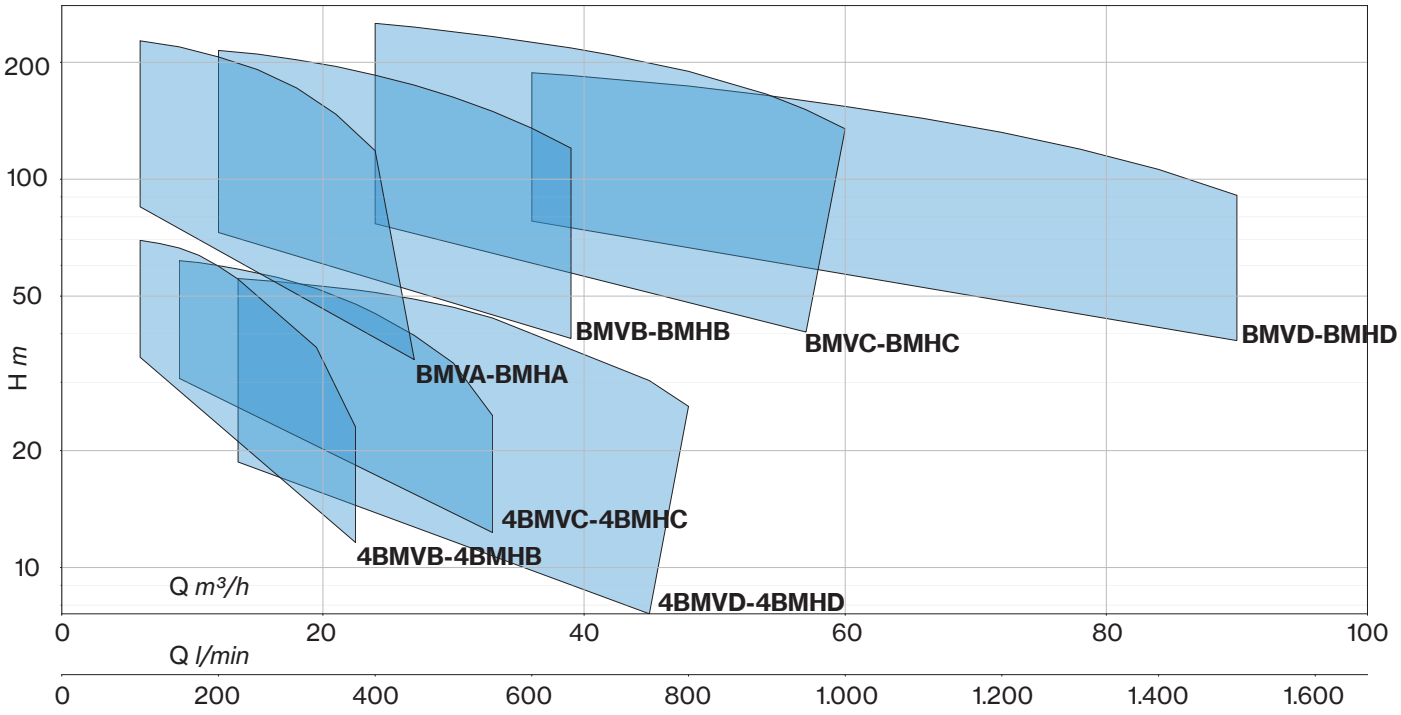
N.	PARTS	STD VERSION	VERSION 316 SS	VERSION 904 SS
1	**SHAFT**	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
2	**SHAFT TERMINAL**	AISI 316	AISI 316	AISI 904
3	**MECHANICAL SEAL**	CERAMIC/CARBON	SIC/SIC	SIC/SIC
4	**BUSHES**	STEEL/NBR	STEEL/NBR	STEEL/NBR
5	**CABLE**	EPDM	EPDM	EPDM
6	**STRUCTURAL PARTS**	CAST IRON	AISI 316	AISI 904
7	**JACKET**	AISI 316	AISI 316	AISI 904
8	**THRUST PLATE**	STEEL	STEEL	STEEL
9	**THRUST BEARING**	STEEL/NBR	STEEL/NBR	STEEL/NBR
10	**DIAPHRAGM**	EPDM	EPDM	EPDM
11	**SCREWS**	AISI 304	AISI 316	AISI 904

INDUSTRIAL LINE





BM-4BM


200
100
50
20
10
H m
BMVB-BMHB
BMVC-BMHC
BMVD-BMHD
BMVA-BMHA
4BMVC-4BMHC
4BMVB-4BMHB
4BMVD-4BMHD
Q m³/h
0
20
40
60
80
100
Q l/min
0
200
400
600
800
1.000
1.200
1.400
1.600

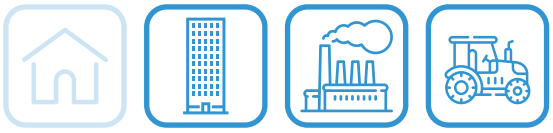
BMV-4BMV

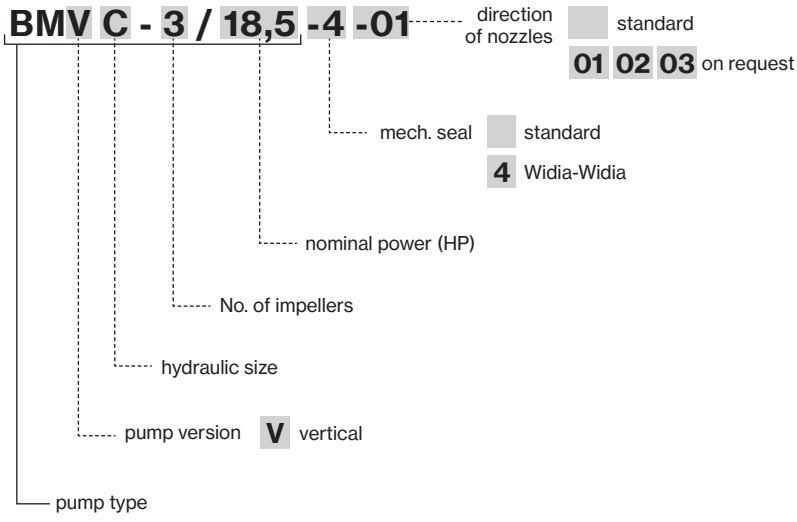


Multi-stage centrifugal pumps that guarantee high pressure. Particularly suitable for civil and industrial applications - in particular pressurisation systems, fire fighting systems and washing plant.

Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 304
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 30 bar

Motor	
2 and 4 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW
Insulation class	F
Protection degree	IPX5





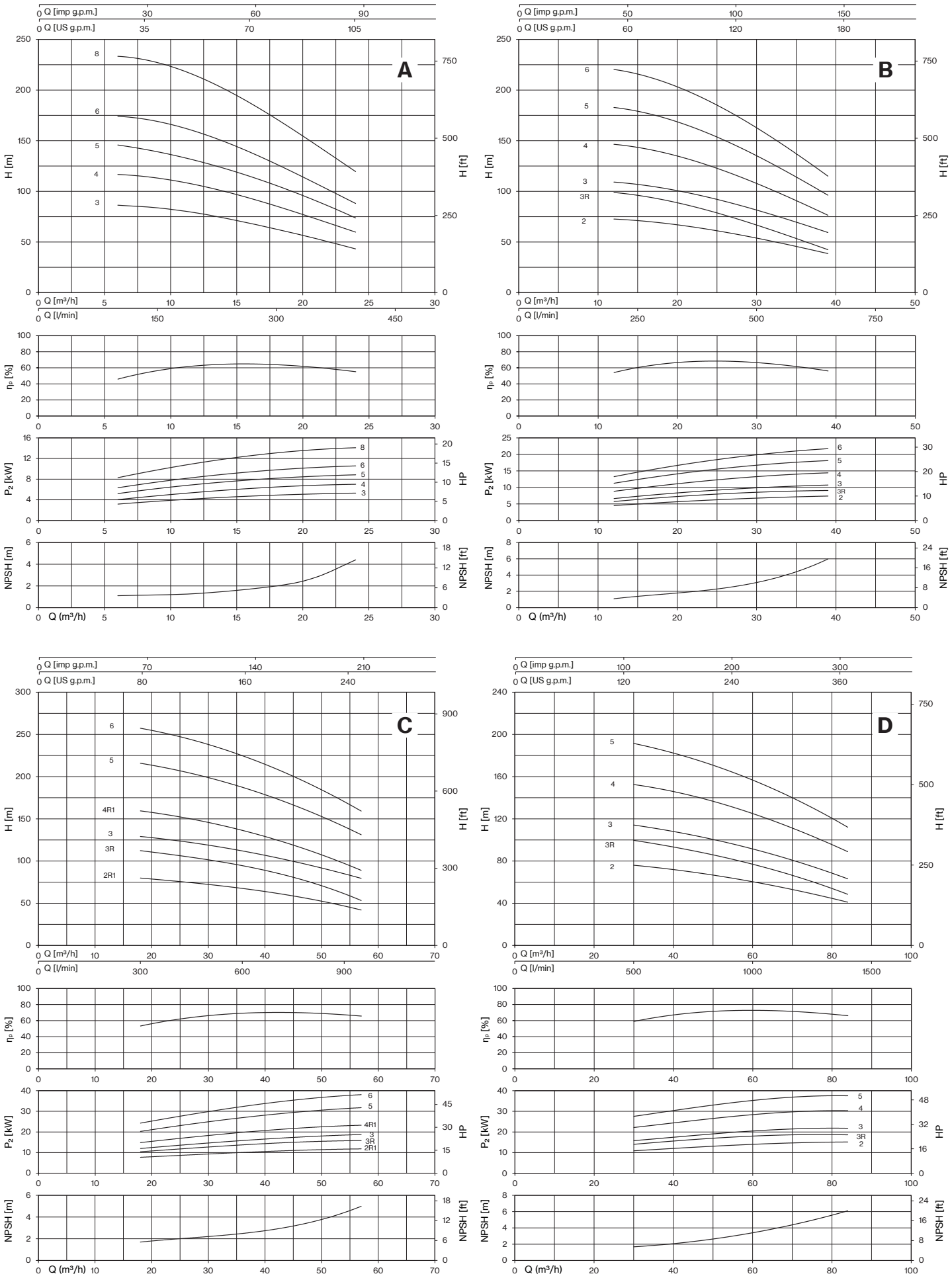
BMV ~2900 rpm

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)							
				3~ 400V	0	6	9	12	15	18	21	24
					0	100	150	200	250	300	350	400
					0	1,67	2,5	3,33	4,17	5	5,83	6,67
	HP	kW	kW	A	H (m)							
BMVA-3/5,5	7,5	5,5	6,0	10,1	88,2	86,3	83,7	78,6	71,2	62,6	53,4	43,2
BMVA-4/7,5	10	7,5	7,8	13,0	118,0	116,7	113,0	106,5	96,8	85,2	73,1	59,7
BMVA-5/9,2	12,5	9,2	9,8	16,4	148,2	145,9	138,8	130,0	119,8	105,2	90,7	73,8
BMVA-6/11	15	11	11,8	19,6	177,5	174,2	168,9	158,9	144,2	126,7	107,9	88,0
BMVA-8/15	20	15	15,5	26,3	237,8	233,4	227,0	213,8	194,8	171,4	146,0	119,5

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)										
				3~ 400V	0	12	15	18	21	24	27	30	33	36	39
					0	200	250	300	350	400	450	500	550	600	650
					0	3,33	4,17	5	5,83	6,67	7,5	8,33	9,17	10	10,83
	HP	kW	kW	A	H (m)										
BMVB-2/7,5	10	7,5	8,2	13,4	74,5	72,7	71,1	68,7	66,1	62,4	58,3	53,8	49,0	43,9	38,6
BMVB-3R/9,2	12,5	9,2	10,0	16,7	101,8	98,9	96,2	91,4	87,4	81,0	74,3	66,5	58,8	50,8	42,4
BMVB-3/11	15	11	11,8	19,6	112,7	109,2	106,9	102,9	99,6	94,1	88,1	81,3	74,5	67,2	59,3
BMVB-4/15	20	15	15,9	26,5	149,7	146,5	143,4	138,2	133,4	125,4	117,1	107,4	97,8	87,7	76,2
BMVB-5/18,5	25	18,5	19,8	33,0	187,7	182,9	179,2	172,3	166,7	157,2	146,7	134,9	122,7	109,9	96,2
BMVB-6/22	30	22	23,6	38,8	225,9	220,4	216,3	207,1	201,1	189,6	176,6	162,5	147,5	131,7	115,1

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)								
				3~ 400V	0	18	24	30	36	42	48	54	57
					0	300	400	500	600	700	800	900	950
					0	5	6,67	8,33	10	11,67	13,33	15	15,83
	HP	kW	kW	A	H (m)								
BMVC-2R1/11	15	11	13,0	21,4	78,4	79,5	76,3	72,3	67,6	61,8	55,2	46,9	41,8
BMVC-3R/15	20	15	17,4	28,9	110,4	111,9	107,2	101,5	94,5	85,8	75,3	61,5	53,0
BMVC-3/18,5	25	18,5	20,5	34,0	127,6	128,8	124,7	118,8	111,9	104,0	95,1	85,3	79,2
BMVC-4R1/22	30	22	25,3	41,5	159,5	159,0	153,6	145,7	136,3	125,0	112,2	98,1	88,3
BMVC-5/30	40	30	34,6	59,4	214,7	215,7	208,6	198,9	187,2	173,9	158,5	141,2	130,9
BMVC-6/37	50	37	41,2	72,8	256,5	257,1	249,2	238,2	224,6	209,0	191,3	170,7	158,9

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)										
				3~ 400V	0	30	36	42	48	54	60	66	72	78	84
					0	500	600	700	800	900	1000	1100	1200	1300	1400
					0	8,33	10	11,67	13,33	15	16,67	18,33	20	21,67	23,33
	HP	kW	kW	A	H (m)										
BMVD-2/15	20	15	16,6	27,6	75,9	75,9	73,8	71,0	67,8	64,3	60,4	56,1	51,5	46,4	41,0
BMVD-3R/18,5	25	18,5	20,3	33,7	99,6	99,6	96,0	91,7	87,5	82,7	77,1	70,8	64,0	56,6	48,5
BMVD-3/22	30	22	23,7	39,3	113,1	113,9	110,8	106,7	102,0	96,9	91,4	85,4	78,8	71,2	63,0
BMVD-4/30	40	30	33,0	57,2	152,0	152,5	148,9	144,1	138,7	132,4	125,1	117,0	108,1	98,8	89,0
BMVD-5/37	50	37	40,6	71,9	189,6	191,4	186,4	179,9	173,3	165,7	157,0	147,0	136,0	124,5	112,3


A
B
C
D
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

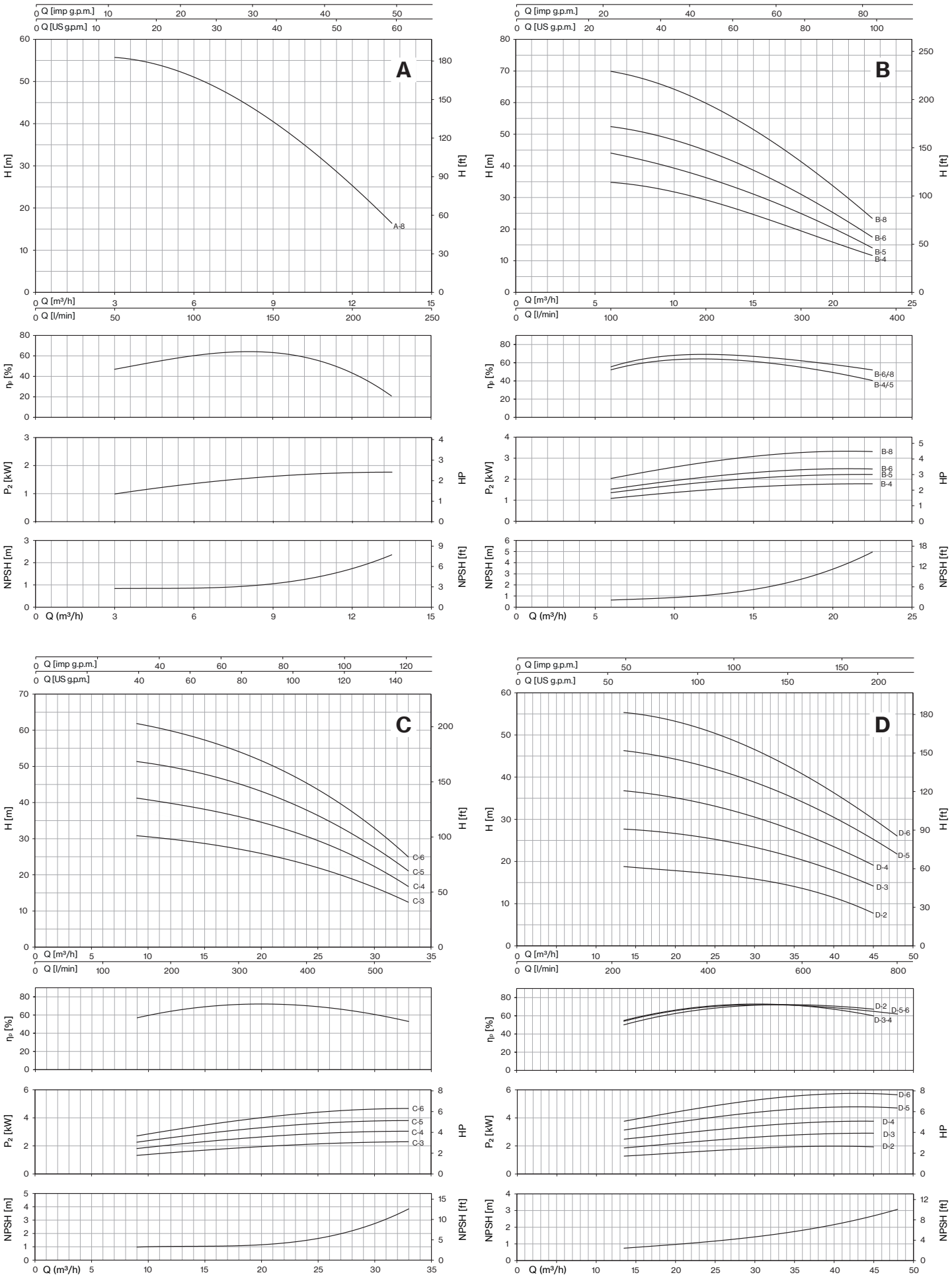
4BMV ~1450 rpm

TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)								
			0	3	4,5	6	7,5	9	10,5	12	13,5
			0	50	75	100	125	150	175	200	225
			0	0,83	1,25	1,67	2,08	2,50	2,92	3,33	3,75
	HP	kW	H (m)								
4BMVA-8/2,2	3	2,2	56,0	55,7	54,2	51,3	46,3	40,2	33,4	25,7	16,2

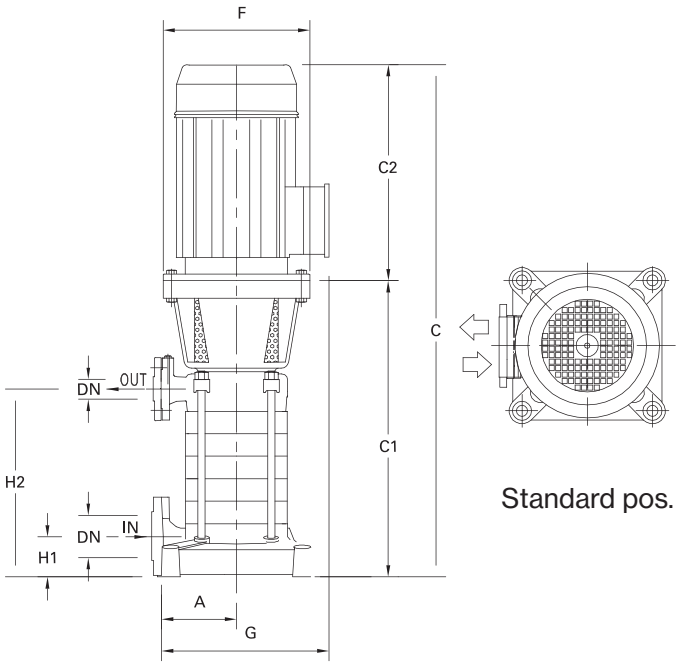
TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)								
			0	6	7,5	9	10,5	12	13,5	16,5	19,5	22,5
			0	100	125	150	175	200	225	275	325	375
			0	1,67	2,08	2,50	2,92	3,33	3,75	4,58	5,42	6,25
	HP	kW	H (m)									
4BMVB-4/2,2	3	2,2	35,4	34,8	34,0	32,8	31,2	29,3	27,0	22,0	16,9	11,6
4BMVB-5/2,2	3	2,2	44,3	43,5	42,5	41,0	39,0	36,6	33,8	27,5	21,1	14,6
4BMVB-6/3	4	3	53,2	52,2	51,3	49,9	47,8	44,7	41,5	34,4	27,7	17,2
4BMVB-8/4	5,5	4	70,9	69,6	68,3	66,5	63,7	59,7	55,3	45,9	36,9	23,0

TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)										
			0	9	10,5	12	13,5	16,5	19,5	22,5	24	27	30	33
			0	150	175	200	225	275	325	375	400	450	500	550
			0	2,50	2,92	3,33	3,75	4,58	5,42	6,25	6,67	7,50	8,33	9,17
	HP	kW	H (m)											
4BMVC-3/2,2	3	2,2	30,2	30,7	30,5	30,0	29,4	27,9	26,2	24,0	22,8	20,0	16,7	12,3
4BMVC-4/3	4	3	40,1	41,0	40,6	39,9	39,1	37,3	35,0	32,0	30,3	26,9	23,1	16,4
4BMVC-5/4	5,5	4	50,1	51,3	50,8	49,9	48,8	46,6	43,8	40,0	37,8	33,0	27,8	21,0
4BMVC-6/5,5	7,5	5,5	60,3	61,7	61,0	59,9	58,7	55,9	52,3	47,7	45,1	39,6	33,6	24,6

TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)										
			0	13,5	16,5	19,5	22,5	24	27	30	33	39	45	48
			0	225	275	325	375	400	450	500	550	650	750	800
			0	3,75	4,58	5,42	6,25	6,67	7,50	8,33	9,17	10,83	12,50	13,33
	HP	kW	H (m)											
4BMVD-2/2,2	3	2,2	18,3	18,7	18,4	18,0	17,5	17,2	16,5	15,7	14,7	12,3	7,6	
4BMVD-3/3	4	3	27,1	27,7	27,3	26,7	26,0	25,6	24,6	23,5	22,0	18,4	14,2	
4BMVD-4/4	5,5	4	36,2	36,8	36,1	35,2	34,1	33,6	32,3	30,6	28,7	24,2	19,2	
4BMVD-5/5,5	7,5	5,5	45,2	46,3	45,4	44,4	43,2	42,6	41,0	39,0	36,6	30,9	25,3	22,0
4BMVD-6/7,5	10	7,5	54,2	55,5	54,5	53,2	51,9	51,1	49,1	46,8	43,9	37,0	30,3	26,0


A
A-8
B
B-8
B-6
B-5
B-4
B-6/8
B-4/5
C
C-6
C-5
C-4
C-3
D
D-6
D-5
D-4
D-3
D-2
D-2
D-5-6
D-3-4
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
Q (m³/h)
H [m]
H [ft]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]

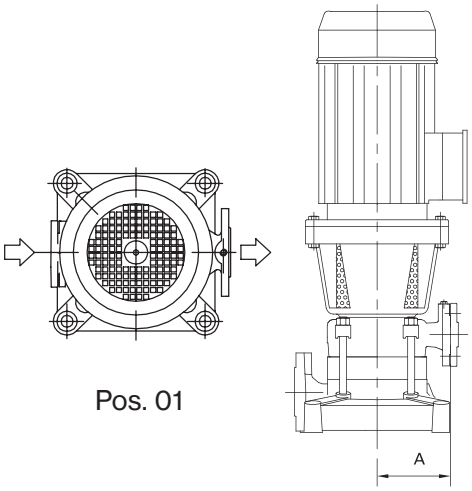
BMV-4BMV



Standard pos.

STANDARD

Not available for pump type: MSVB 2/7.5, MSVC-2R1/11, MSVD-2/15, 4MSVD-2/2.2

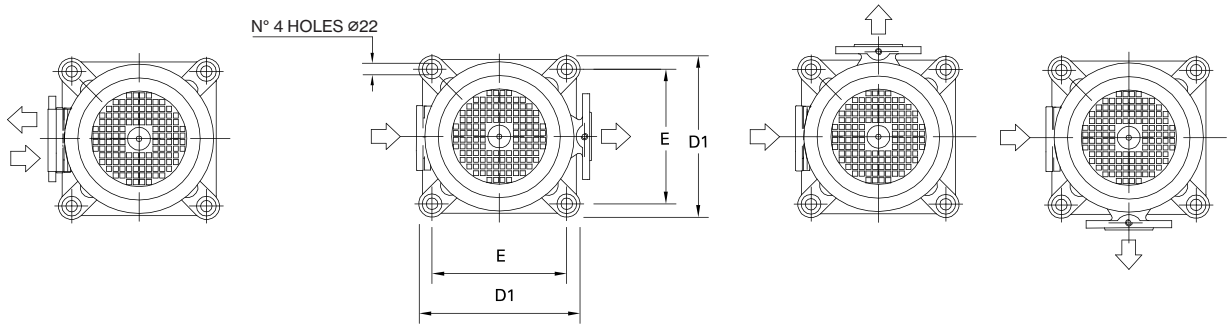


Pos. 01

STANDARD FOR:

MSVB-2/7.5
MSVC-2R1/11
MSVD-2/15
4MSVD-2/2.2

Direction of nozzles



Standard pos.

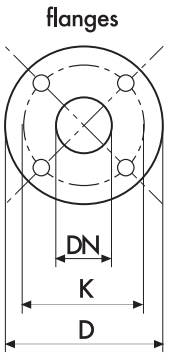
Not available for pump type: MSVB 2/7.5, MSVC-2R1/11, MSVD-2/15, 4MSVD-2/2.2

Pos. 01

Pos. 02

Pos. 03

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	ø
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18



BMV ~2900 rpm

TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													Kg
				A	C	C1	C2	D1	E	F	G	H1	H2	I	L	M	
BMVA -3/5,5	(UNI PN 16) 50	(UNI PN 40) 40	3	175	921,5	544,5	377	306	256	300	355	82	255,5	1100	400	500	139,5
BMVA -4/7,5			4		972,5	595,5	377			300	355		306,5	1100	400	500	156
BMVA -5/9,2			5		1062,5	646,5	416			300	355		357,5	1100	400	500	173
BMVA -6/11			6		1113,5	697,5	416			300	355		408,5	1100	400	500	192
BMVA -8/15			8		1297,5	799,5	498			350	410		510,5	1400	500	500	259
BMVB -2/7,5	(UNI PN 16) 50	(UNI PN 40) 40	2	175	870,5	493,5	377	306	256	300	355	82	204,5	1100	400	500	136,5
BMVB -3R/9,2			3		931	515	416			300	335		255,5	1100	400	500	153,5
BMVB -3/11			3		931	515	416			300	355		255,5	1100	400	500	157,5
BMVB -4/15			4		1013	515	498			350	410		306,5	1400	500	500	220,5
BMVB -5/18,5			5		1056	515	541			350	410		357,5	1400	500	500	245
BMVB -6/22			6		1056	515	541			350	410		408,5	1400	500	500	265
BMVC -2R1/11	(UNI PN 16) 65	(UNI PN 40) 50	2	200	944	528	416	332	282	300	380	95	233	1100	400	500	167
BMVC -3R/15			3		1086	588	498			350	435		293	1100	400	500	234
BMVC -3/18,5			3		1129	588	541			350	435		293	1400	500	500	249
BMVC -4R1/22			4		1189	648	541			350	435		353	1400	500	500	273
BMVC -5/30			5		1276	708	568			350	450		413	1400	500	500	321,5
BMVC -6/37			6		1376	768	608			350	450		473	1400	500	500	360,5
BMVD -2/15	(UNI PN 16) 65	(UNI PN 40) 50	2	200	1026	528	498	332	282	350	435	95	233	1400	400	500	219
BMVD -3R/18,5			3		1129	588	541			350	435		293	1400	500	500	247
BMVD -3/22			3		1129	588	541			350	435		293	1400	500	500	257,5
BMVD -4/30			4		1216	648	568			350	450		353	1400	500	500	305
BMVD -5/37			5		1316	708	608			350	450		413	1400	500	500	342,5

4BMV ~1450 rpm

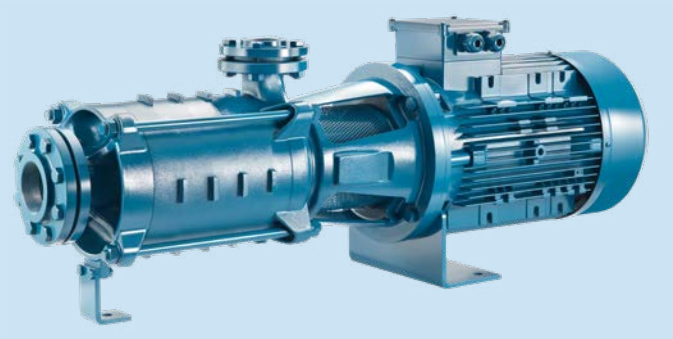
TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													Kg
				A	C	C1	C2	D1	E	F	G	H1	H2	I	L	M	
4BMVA -8/2,2	(UNI PN 16) 50	(UNI PN 40) 40	8	175	1078	762,5	315	306	256	250	345	82	510,5	1100	400	500	183
4BMVB -4/2,2			4	175	874	558,5	315	306	256	250	345	82	306,5	1100	400	500	136
4BMVB -5/2,2			5		925	609,5	315			250	345		357,5	1400	500	500	140
4BMVB -6/3			6		976	660,5	315			250	345		408,5	1400	500	500	171
4BMVB -8/4			8		1103	762,5	340			250	368		511	1400	500	500	200
4BMVC -3/2,2	(UNI PN 16) 65	(UNI PN 40) 50	3	200	866	551	315	332	282	250	370	95	293	1100	400	500	192
4BMVC -4/3			4		926	611	315			250	370		353	1100	400	500	194
4BMVC -5/4			5		1011	671	340			250	393		413	1100	400	500	202
4BMVC -6/5,5			6		1116	731	385			300	423		473	1400	500	500	206
4BMVD -2/2,2	(UNI PN 16) 65	(UNI PN 40) 50	2	200	806	491	315	332	282	250	370	95	233	1100	400	500	135
4BMVD -3/3			3		866	551	315			250	370		293	1100	400	500	167
4BMVD -4/4			4		951	611	340			250	393		353	1100	400	500	189
4BMVD -5/5,5			5		1056	671	385			300	423		413	1100	400	500	194
4BMVD -6/7,5			6		1156	731	425			300	423		473	1400	500	500	218

BMV-4BMV Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT ⌀		STANDARD MATERIAL	OPTIONAL
					4
	BMVA-3/5,5 | BMVB-2/7,5 | 4BMVA-8/2,2 | 4BMVB-4/2,2 | 4BMVB-5/2,2 | 4BMVB-6/3 | 4BMVB-8/4	25mm	***Rotating face***	Ceramic	Widia
			Stationary face	Graphite	Widia
			Elastomer	NBR	NBR
	BMVC-2R1/11 | BMVD-2/15 | 4BMVC-3/2,2 | 4BMVC-4/3 | 4BMVC-5/4 | 4BMVC-6/5,5 | 4BMVD-2/2,2 | 4BMVD-3/3 | 4BMVD-4/4 | 4BMVD-5/5,5 | 4BMVD-6/7,5	35mm	***Rotating face***	Ceramic	Widia
			Stationary face	Graphite	Widia
			Elastomer	NBR	NBR
	BMVA-4/7,5 | BMVA-5/9,2 | BMVA-6/11 | BMVA-8/15 | BMVB-3R/9,2 | BMVB-3/11 | BMVB-4/15 | BMVB-5/18,5 | BMVB-6/22	25mm / Balanced seal	***Rotating face***	Widia	Widia
			Stationary face	Graphite	Widia
			Elastomer	NBR	NBR
	BMVC-3R/15 | BMVC-3/18,5 | BMVC-4R1/22 | BMVC-5/30 | BMVC-6/37 | BMVD-3R/18,5 | BMVD-3/22 | BMVD-4/30 | BMVD-5/37	35mm / Balanced seal	***Rotating face***	Widia	Widia
			Stationary face	Graphite	Widia
			Elastomer	NBR	NBR

BEARINGS	PUMP MODEL	TYPE	
	4BMVA-8/2,2 | 4BMVB-4/2,2 | 4BMVB-5/2,2 | 4BMVC-3/2,2 | 4BMVD-2/2,2	6205-ZZ C3	6205-ZZ C3
	4BMVB-6/3 | 4BMVB-8/4 | 4BMVC-4/3 | 4BMVC-5/4 | 4BMVD-3/3 | 4BMVD-4/4	6206-ZZ C3	6206-ZZ C3
	BMVA-3/5,5-132S | BMVA-4/7,5-132S | BMVA-5/9,2-132M | BMVA-6/11-132M | BMVB-2/7,5-132S | BMVB-3R/9,2-132M | BMVB-3/11-132M | BMVC-2R1/11-132M	6206-ZZ C3	6308-ZZ C3
	4BMVC-6/5,5-132S | 4BMVD-5/5,5-132S | 4BMVD-6/7,5-132S	6208-ZZ C3	6208-ZZ C3
	BMVA-8/15-160M | BMVB-4/15-160M | BMVB-5/18,5-160L | BMVB-6/22-160L | BMVC-3R/15-160M | BMVC-3/18,5-160L | BMVC-4R1/22-160L | BMVD-2/15-160M | BMVD-3R/18,5-160L | BMVD-3/22-160L	6308-ZZ C3	6309-ZZ C3
	BMVC-5/30-180M | BMVC-6/37-180L | BMVD-4/30-180M | BMVD-5/37-180L	6309-ZZ C3	3310-ZZ C3

BMH-4BMH



Multi-stage centrifugal pumps that guarantee high pressure. Particularly suitable for civil and industrial applications - in particular pressurisation systems, fire fighting systems and washing plant.

Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite
Motor shaft	stainless steel AISI 304
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 30 bar

Motor

2 and 4 poles induction motor	3~ 230/400V - 50Hz P ⩽ 4kW 3~ 400/690V - 50Hz P > 4kW
Insulation class	F
Protection degree	IPX5

BMH C - 3 / 18,5 -4 -01

- pump type
- pump version — **H** horizontal
- hydraulic size
- No. of impellers
- nominal power (HP)
- mech. seal — standard; **4** Widia-Widia
- direction of nozzles — standard; **01** **02** on request

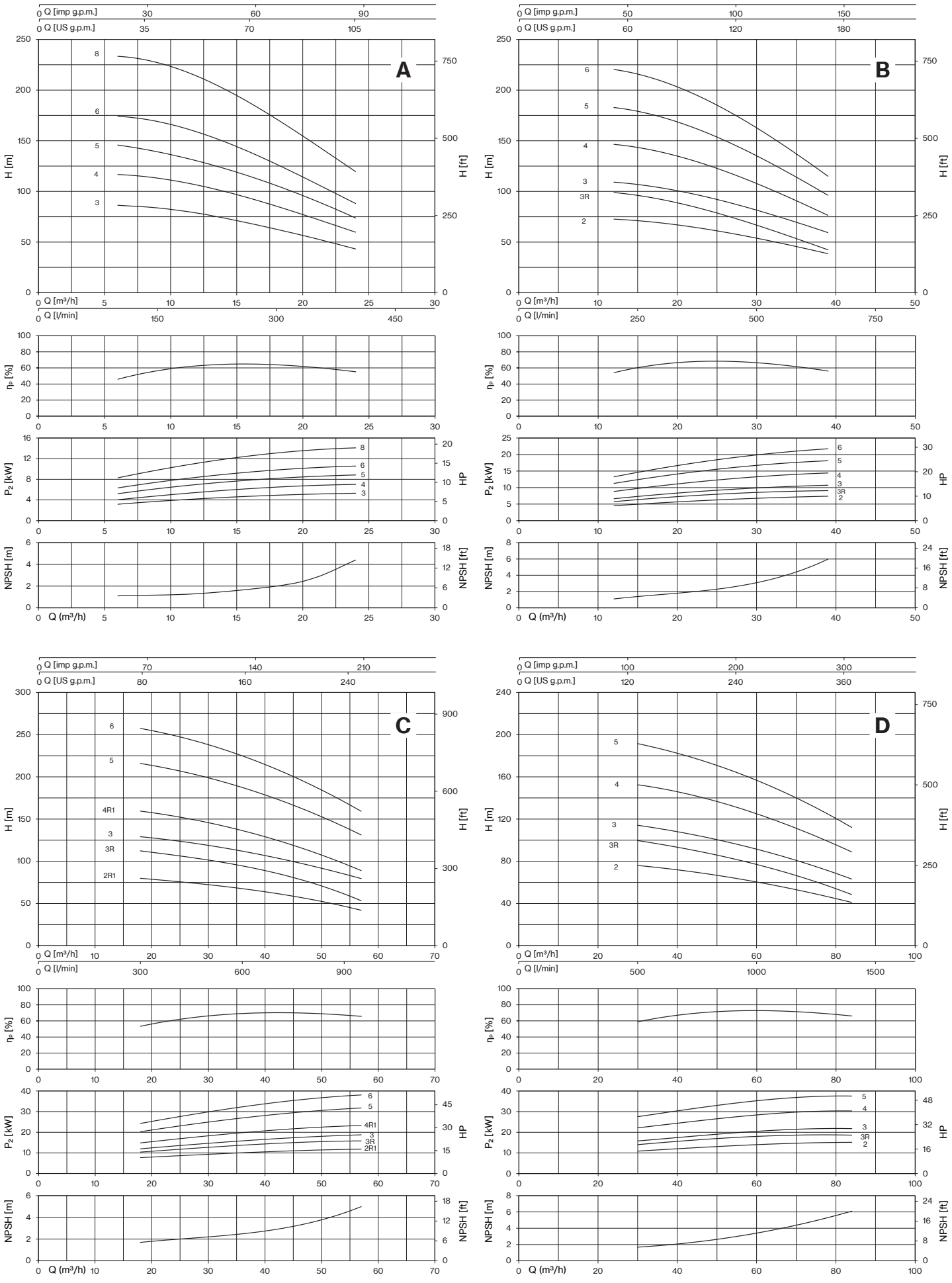
BMH ~2900 rpm

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)							
				3~ 400V	0	6	9	12	15	18	21	24
					0	100	150	200	250	300	350	400
					0	1,67	2,5	3,33	4,17	5	5,83	6,67
	HP	kW	kW	A	H (m)							
BMHA-3/5,5	7,5	5,5	6,0	10,1	88,2	86,3	83,7	78,6	71,2	62,6	53,4	43,2
BMHA-4/7,5	10	7,5	7,8	13,0	118,0	116,7	113,0	106,5	96,8	85,2	73,1	59,7
BMHA-5/9,2	12,5	9,2	9,8	16,4	148,2	145,9	138,8	130,0	119,8	105,2	90,7	73,8
BMHA-6/11	15	11	11,8	19,6	177,5	174,2	168,9	158,9	144,2	126,7	107,9	88,0
BMHA-8/15	20	15	15,5	26,3	237,8	233,4	227,0	213,8	194,8	171,4	146,0	119,5

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)										
				3~ 400V	0	12	15	18	21	24	27	30	33	36	39
					0	200	250	300	350	400	450	500	550	600	650
					0	3,33	4,17	5	5,83	6,67	7,5	8,33	9,17	10	10,83
	HP	kW	kW	A	H (m)										
BMHB-2/7,5	10	7,5	8,2	13,4	74,5	72,7	71,1	68,7	66,1	62,4	58,3	53,8	49,0	43,9	38,6
BMHB-3R/9,2	12,5	9,2	10,0	16,7	101,8	98,9	96,2	91,4	87,4	81,0	74,3	66,5	58,8	50,8	42,4
BMHB-3/11	15	11	11,8	19,6	112,7	109,2	106,9	102,9	99,6	94,1	88,1	81,3	74,5	67,2	59,3
BMHB-4/15	20	15	15,9	26,5	149,7	146,5	143,4	138,2	133,4	125,4	117,1	107,4	97,8	87,7	76,2
BMHB-5/18,5	25	18,5	19,8	33,0	187,7	182,9	179,2	172,3	166,7	157,2	146,7	134,9	122,7	109,9	96,2
BMHB-6/22	30	22	23,6	38,8	225,9	220,4	216,3	207,1	201,1	189,6	176,6	162,5	147,5	131,7	115,1

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)								
				3~ 400V	0	18	24	30	36	42	48	54	57
					0	300	400	500	600	700	800	900	950
					0	5	6,67	8,33	10	11,67	13,33	15	15,83
	HP	kW	kW	A	H (m)								
BMHC-2R1/11	15	11	13,0	21,4	78,4	79,5	76,3	72,3	67,6	61,8	55,2	46,9	41,8
BMHC-3R/15	20	15	17,4	28,9	110,4	111,9	107,2	101,5	94,5	85,8	75,3	61,5	53,0
BMHC-3/18,5	25	18,5	20,5	34,0	127,6	128,8	124,7	118,8	111,9	104,0	95,1	85,3	79,2
BMHC-4R1/22	30	22	25,3	41,5	159,5	159,0	153,6	145,7	136,3	125,0	112,2	98,1	88,3
BMHC-5/30	40	30	34,6	59,4	214,7	215,7	208,6	198,9	187,2	173,9	158,5	141,2	130,9
BMHC-6/37	50	37	41,2	72,8	256,5	257,1	249,2	238,2	224,6	209,0	191,3	170,7	158,9

TYPE - 50 Hz	P2		P1	CURRENT	Q (m³/h - l/min - l/s)										
				3~ 400V	0	30	36	42	48	54	60	66	72	78	84
					0	500	600	700	800	900	1000	1100	1200	1300	1400
					0	8,33	10	11,67	13,33	15	16,67	18,33	20	21,67	23,33
	HP	kW	kW	A	H (m)										
BMHD-2/15	20	15	16,6	27,6	75,9	75,9	73,8	71,0	67,8	64,3	60,4	56,1	51,5	46,4	41,0
BMHD-3R/18,5	25	18,5	20,3	33,7	99,6	99,6	96,0	91,7	87,5	82,7	77,1	70,8	64,0	56,6	48,5
BMHD-3/22	30	22	23,7	39,3	113,1	113,9	110,8	106,7	102,0	96,9	91,4	85,4	78,8	71,2	63,0
BMHD-4/30	40	30	33,0	57,2	152,0	152,5	148,9	144,1	138,7	132,4	125,1	117,0	108,1	98,8	89,0
BMHD-5/37	50	37	40,6	71,9	189,6	191,4	186,4	179,9	173,3	165,7	157,0	147,0	136,0	124,5	112,3


A
B
C
D
Q [imp g.p.m.]
Q [US g.p.m.]
Q [m³/h]
Q [l/min]
H [m]
H [ft]
ηP [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

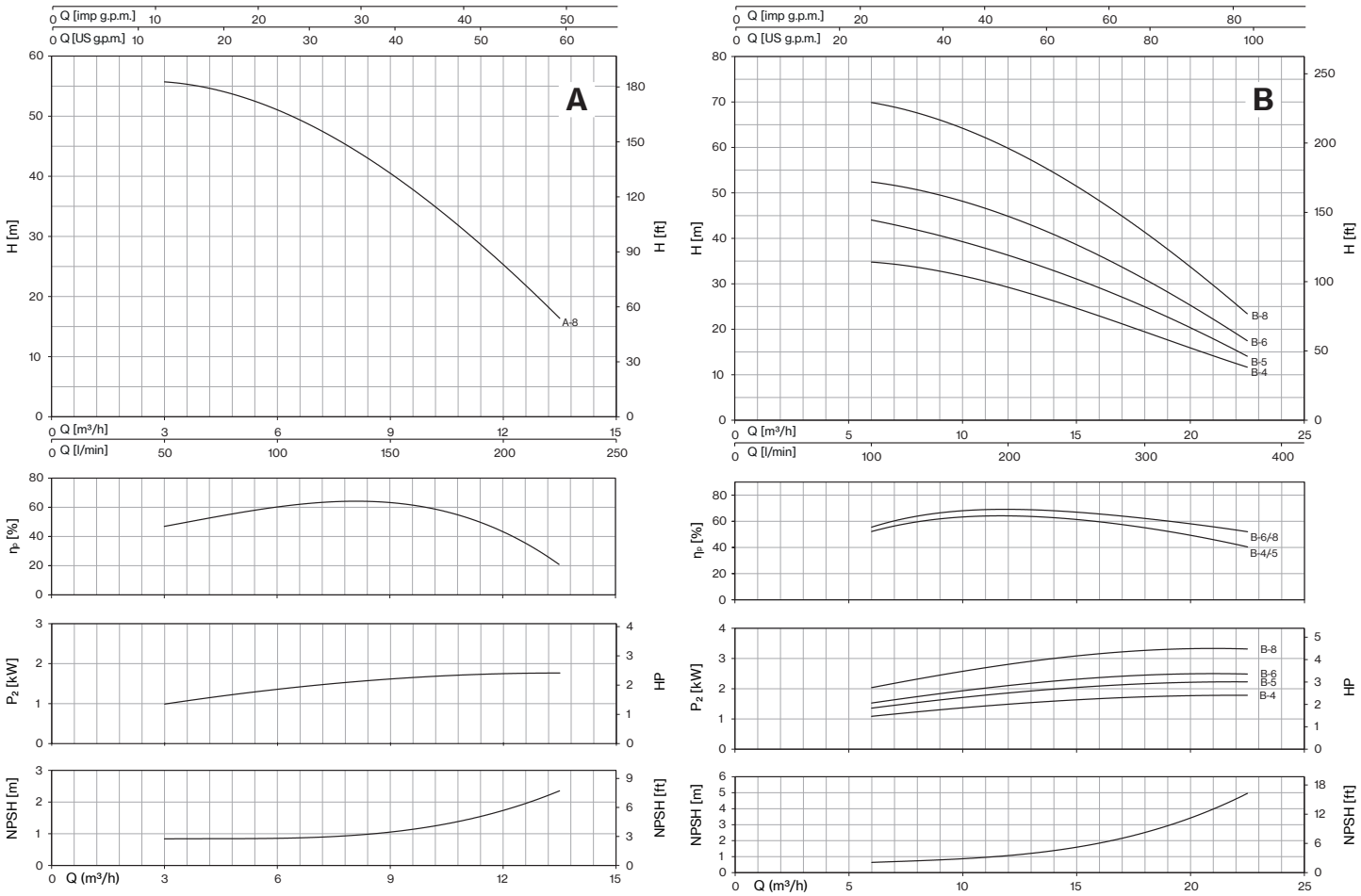
4BMH ~1450 rpm

TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)								
			0	3	4,5	6	7,5	9	10,5	12	13,5
			0	50	75	100	125	150	175	200	225
			0	0,83	1,25	1,67	2,08	2,50	2,92	3,33	3,75
	HP	kW	H (m)								
4BMHA-8/2,2	3	2,2	56,0	55,7	54,2	51,3	46,3	40,2	33,4	25,7	16,2

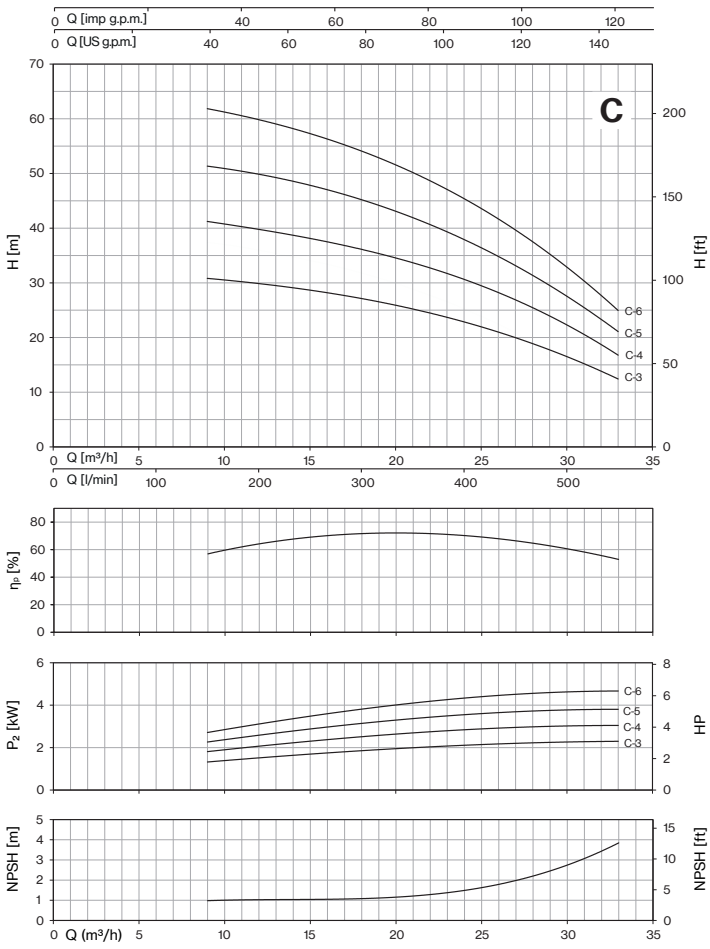
TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)								
			0	6	7,5	9	10,5	12	13,5	16,5	19,5	22,5
			0	100	125	150	175	200	225	275	325	375
			0	1,67	2,08	2,50	2,92	3,33	3,75	4,58	5,42	6,25
	HP	kW	H (m)									
4BMHB-4/2,2	3	2,2	35,4	34,8	34,0	32,8	31,2	29,3	27,0	22,0	16,9	11,6
4BMHB-5/2,2	3	2,2	44,3	43,5	42,5	41,0	39,0	36,6	33,8	27,5	21,1	14,6
4BMHB-6/3	4	3	53,2	52,2	51,3	49,9	47,8	44,7	41,5	34,4	27,7	17,2
4BMHB-8/4	5,5	4	70,9	69,6	68,3	66,5	63,7	59,7	55,3	45,9	36,9	23,0

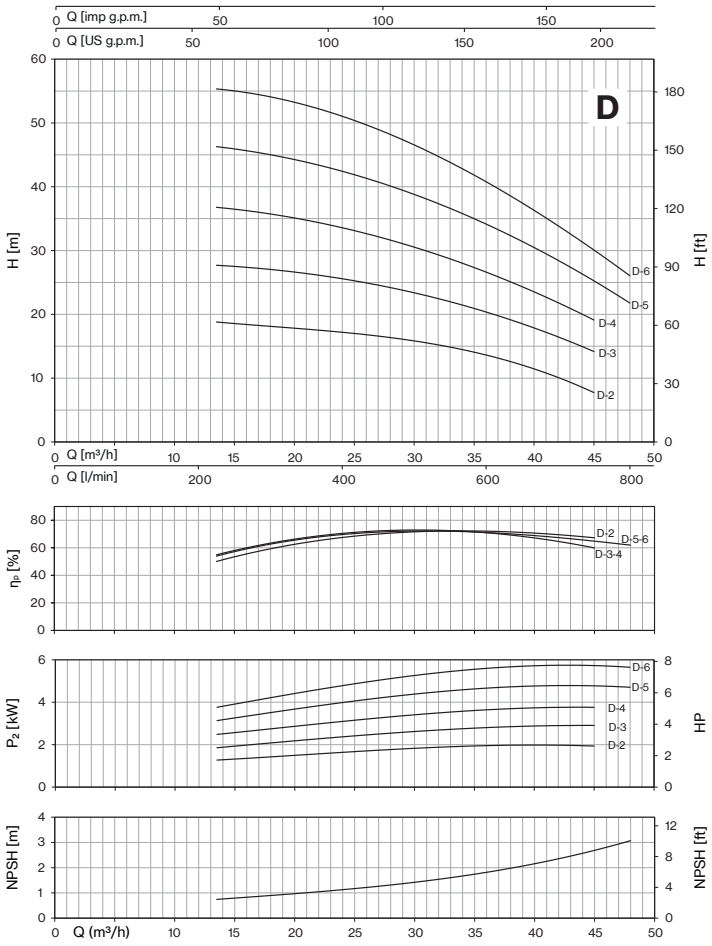
TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)										
			0	9	10,5	12	13,5	16,5	19,5	22,5	24	27	30	33
			0	150	175	200	225	275	325	375	400	450	500	550
			0	2,50	2,92	3,33	3,75	4,58	5,42	6,25	6,67	7,50	8,33	9,17
	HP	kW	H (m)											
4BMHC-3/2,2	3	2,2	30,2	30,7	30,5	30,0	29,4	27,9	26,2	24,0	22,8	20,0	16,7	12,3
4BMHC-4/3	4	3	40,1	41,0	40,6	39,9	39,1	37,3	35,0	32,0	30,3	26,9	23,1	16,4
4BMHC-5/4	5,5	4	50,1	51,3	50,8	49,9	48,8	46,6	43,8	40,0	37,8	33,0	27,8	21,0
4BMHC-6/5,5	7,5	5,5	60,3	61,7	61,0	59,9	58,7	55,9	52,3	47,7	45,1	39,6	33,6	24,6

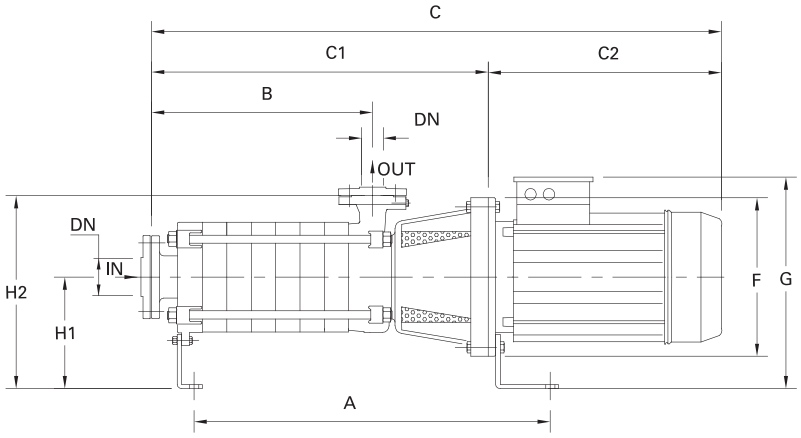
TYPE - 50 Hz	P2		Q (m³/h - l/min - l/s)										
			0	13,5	16,5	19,5	22,5	24	27	30	33	39	45	48
			0	225	275	325	375	400	450	500	550	650	750	800
			0	3,75	4,58	5,42	6,25	6,67	7,50	8,33	9,17	10,83	12,50	13,33
	HP	kW	H (m)											
4BMHD-2/2,2	3	2,2	18,3	18,7	18,4	18,0	17,5	17,2	16,5	15,7	14,7	12,3	7,6	
4BMHD-3/3	4	3	27,1	27,7	27,3	26,7	26,0	25,6	24,6	23,5	22,0	18,4	14,2	
4BMHD-4/4	5,5	4	36,2	36,8	36,1	35,2	34,1	33,6	32,3	30,6	28,7	24,2	19,2	
4BMHD-5/5,5	7,5	5,5	45,2	46,3	45,4	44,4	43,2	42,6	41,0	39,0	36,6	30,9	25,3	22,0
4BMHD-6/7,5	10	7,5	54,2	55,5	54,5	53,2	51,9	51,1	49,1	46,8	43,9	37,0	30,3	26,0


A
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
A-8
Q [m³/h]
Q [l/min]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

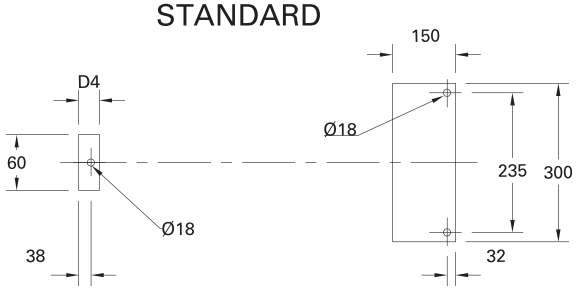
B
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
B-8
B-6
B-5
B-4
Q [m³/h]
Q [l/min]
ηp [%]
B-6/8
B-4/5
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)


C
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
C-6
C-5
C-4
C-3
Q [m³/h]
Q [l/min]
ηp [%]
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)

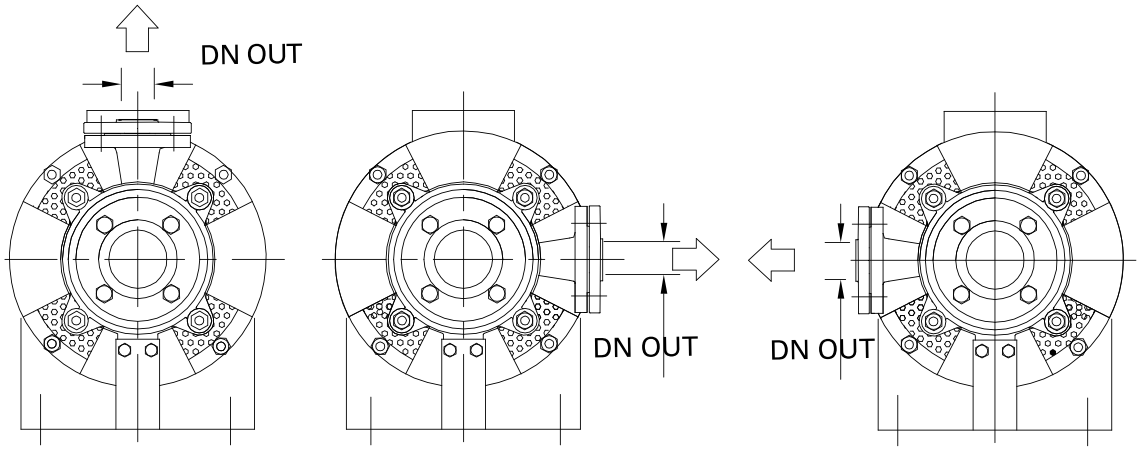

D
Q [imp g.p.m.]
Q [US g.p.m.]
H [m]
H [ft]
D-6
D-5
D-4
D-3
D-2
Q [m³/h]
Q [l/min]
ηp [%]
D-2
D-5-6
D-3-4
P2 [kW]
HP
NPSH [m]
NPSH [ft]
Q (m³/h)



STANDARD

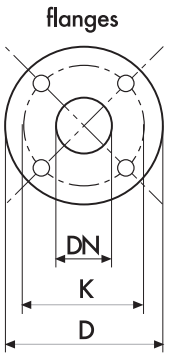


Direction of nozzles



STANDARD Pos. 01 Pos. 02

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	ø
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18



BMH ~2900 rpm

TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													Kg
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L	M	
BMHA -3/5,5	(UNI PN 16) 65	(UNI PN 40) 40	3	604	256,5	922,5	545,5	377	300	425	245	420	70	1100	400	500	140,5
BMHA -4/7,5			4	655	307,5	973,5	596,5	377	300	425				1100	400	500	157
BMHA -5/9,2			5	706	358,5	1063,5	647,5	416	300	425				1100	400	500	173,5
BMHA -6/11			6	757	409,5	1114,5	698,5	416	300	425				1100	400	500	192,5
BMHA -8/15			8	859	511,5	1298,5	800,5	498	350	480				1400	500	500	259,5
BMHB -2/7,5	(UNI PN 16) 65	(UNI PN 40) 40	2	553	205,5	531,5	494,5	37	300	425	245	420	70	1100	400	500	137
BMHB -3R/9,2			3	604	256,5	961,5	545,5	416	300	425				1100	400	500	154
BMHB -3/11			3	604	256,5	961,5	545,5	416	300	425				1100	400	500	158
BMHB -4/15			4	655	307,5	1094,5	596,5	498	350	480				1400	500	500	220,5
BMHB -5/18,5			5	706	358,5	1188,5	647,5	541	350	480				1400	500	500	245
BMHB -6/22			6	757	409,5	1239,5	698,5	541	350	480				1400	500	500	265
BMHC -2R1/11	(UNI PN 16) 80	(UNI PN 40) 50	2	596	243	954	538	416	300	425	245	445	60	1100	400	500	165
BMHC -3R/15			3	656	303	1096	598	498	350	480				1100	400	500	231,5
BMHC -3/18,5			3	656	303	1139	598	541	350	480				1400	500	500	246,5
BMHC -4R1/22			4	716	363	1199	658	541	350	480				1400	500	500	270,5
BMHC -5/30			5	776	423	1286	718	568	350	495				1400	500	500	319
BMHC -6/37			6	836	483	1386	778	608	350	495				1400	500	500	358
BMHD -2/15	(UNI PN 10) 80	(UNI PN 40) 50	2	596	243	1036	538	498	350	480	245	445	60	1400	400	500	217
BMHD -3R/18,5			3	656	303	1139	598	541	350	480				1400	500	500	245
BMHD -3/22			3	656	303	1139	598	541	350	480				1400	500	500	255,5
BMHD -4/30			4	716	363	1226	658	568	350	495				1400	500	500	303
BMHD -5/37			5	776	423	1326	718	608	350	495				1400	500	500	340,5

4BMH ~1450 rpm

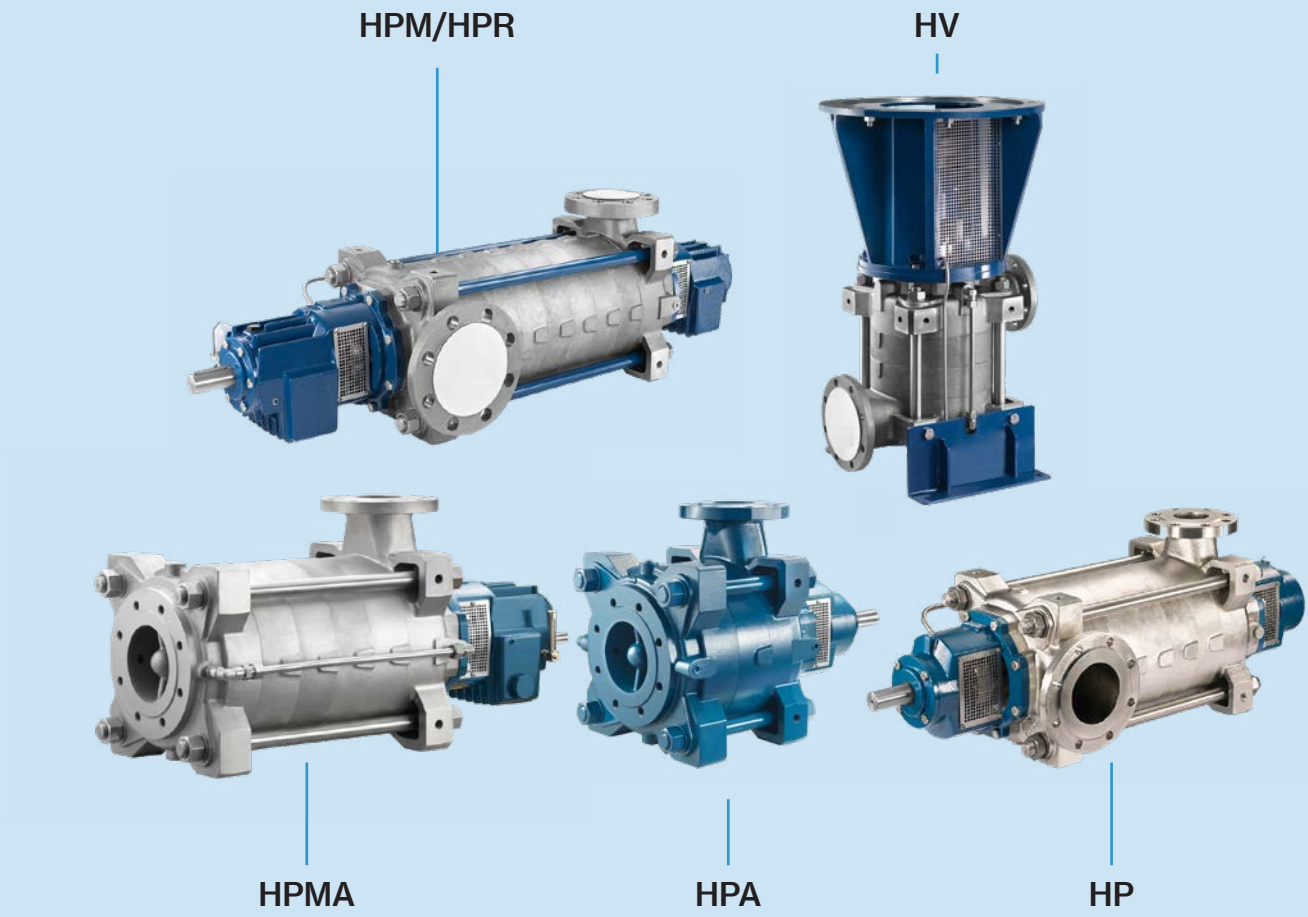
TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													Kg
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L	M	
4BMHA -8/2,2	(UNI PN 16) 65	(UNI PN 40) 40	8	822	511,5	1079	763,5	315	250	415	245	420	70	1100	400	500	183
4BMHB -4/2,2			4	618	511,5	875	559,5	315	250	415	245	420	70	1100	400	500	136
4BMHB -5/2,2			5	670	307,5	926	610,5	315	250	415				1400	500	500	140
4BMHB -6/3			6	720	358,5	977	661,5	315	250	415				1400	500	500	171
4BMHB -8/4			8	720	409,5	1104	763,5	340	250	438				1400	500	500	200
4BMHC -3/2,2	(UNI PN 16) 80	(UNI PN 40) 50	3	620	303	876	561	315	250	415	245	445	60	1100	400	500	192
4BMHC -4/3			4	680	363	936	621	315	250	415				1100	400	500	194
4BMHC -5/4			5	740	423	1021	681	340	250	438				1100	400	500	202
4BMHC -6/5,5			6	800	483	1126	741	385	300	468				1400	500	500	206
4BMHD -2/2,2	(UNI PN 10) 80	(UNI PN 40) 50	2	560	243	816	501	315	250	415	245	445	60	1100	400	500	135
4BMHD -3/3			3	620	303	876	561	315	250	415				1100	400	500	167
4BMHD -4/4			4	680	363	961	621	340	250	438				1100	400	500	189
4BMHD -5/5,5			5	740	423	1066	681	385	300	468				1100	400	500	194
4BMHD -6/7,5			6	887	483	1166	741	425	300	468				1400	500	500	218

BMH-4BMH Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT ⌀		STANDARD MATERIAL	OPTIONAL
					4
	BMHA-3/5,5 | BMHB-2/7,5 | 4BMHA-8/2,2| 4BMHB-4/2,2 | 4BMHB-5/2,2 | 4BMHB-6/3 | 4BMHB-8/4	25mm	***Rotating face*** ***Stationary face*** ***Elastomer***	Ceramic Graphite NBR	Widia Widia NBR
	BMHC-2R1/11 | BMHD-2/15 | 4BMHC-3/2,2 | 4BMHC-4/3 | 4BMHC-5/4 | 4BMHC-6/5,5 | 4BMHD-2/2,2 | 4BMHD-3/3 | 4BMHD-4/4 | 4BMHD-5/5,5 | 4BMHD-6/7,5	35mm	***Rotating face*** ***Stationary face*** ***Elastomer***	Ceramic Graphite NBR	Widia Widia NBR
	BMHA-4/7,5 | BMHA-5/9,2 | BMHA-6/11 | BMHA-8/15 | BMHB-3R/9,2 | BMHB-3/11 | BMHB-4/15 | BMHB-5/18,5 | BMHB-6/22	25mm / Balanced seal	***Rotating face*** ***Stationary face*** ***Elastomer***	Widia Graphite NBR	Widia Widia NBR
	BMHC-3R/15 | BMHC-3/18,5 | BMHC-4R1/22 | BMHC-5/30 | BMHC-6/37 | BMHD-3R/18,5 | BMHD-3/22 | BMHD-4/30 | BMHD-5/37	35mm / Balanced seal	***Rotating face*** ***Stationary face*** ***Elastomer***	Widia Graphite NBR	Widia Widia NBR

BEARINGS	PUMP MODEL	TYPE	
	4BMHA-8/2,2 | 4BMHB-4/2,2 | 4BMHB-5/2,2 | 4BMHC-3/2,2 | 4BMHD-2/2,2	6205-ZZ C3	6205-ZZ C3
	4BMHB-6/3 | 4BMHB-8/4 | 4BMHC-4/3 | 4BMHC-5/4 | 4BMHD-3/3 | 4BMVD-4/4	6206-ZZ C3	6206-ZZ C3
	BMHA-3/5,5-132S | BMHA-4/7,5-132S | BMHA-5/9,2-132M | BMHA-6/11-132M | BMHB-2/7,5-132S | BMHB-3R/9,2-132M | BMHB-3/11-132M | BMHC-2R1/11-132M	6206-ZZ C3	6308-ZZ C3
	4BMHC-6/5,5-132S | 4BMHD-5/5,5-132S | 4BMHD-6/7,5-132S	6208-ZZ C3	6208-ZZ C3
	BMHA-8/15-160M | BMHB-4/15-160M | BMHB-5/18,5-160L | BMHB-6/22-160L | BMHC-3R/15-160M | BMHC-3/18,5-160L | BMHC-4R1/22-160L | BMHD-2/15-160M | BMHD-3R/18,5-160L | BMHD-3/22-160L	6308-ZZ C3	6309-ZZ C3
	BMHC-5/30-180M | BMHC-6/37-180L | BMHD-4/30-180M | BMHD-5/37-180L	6309-ZZ C3	3310-ZZ C3

HP SERIES

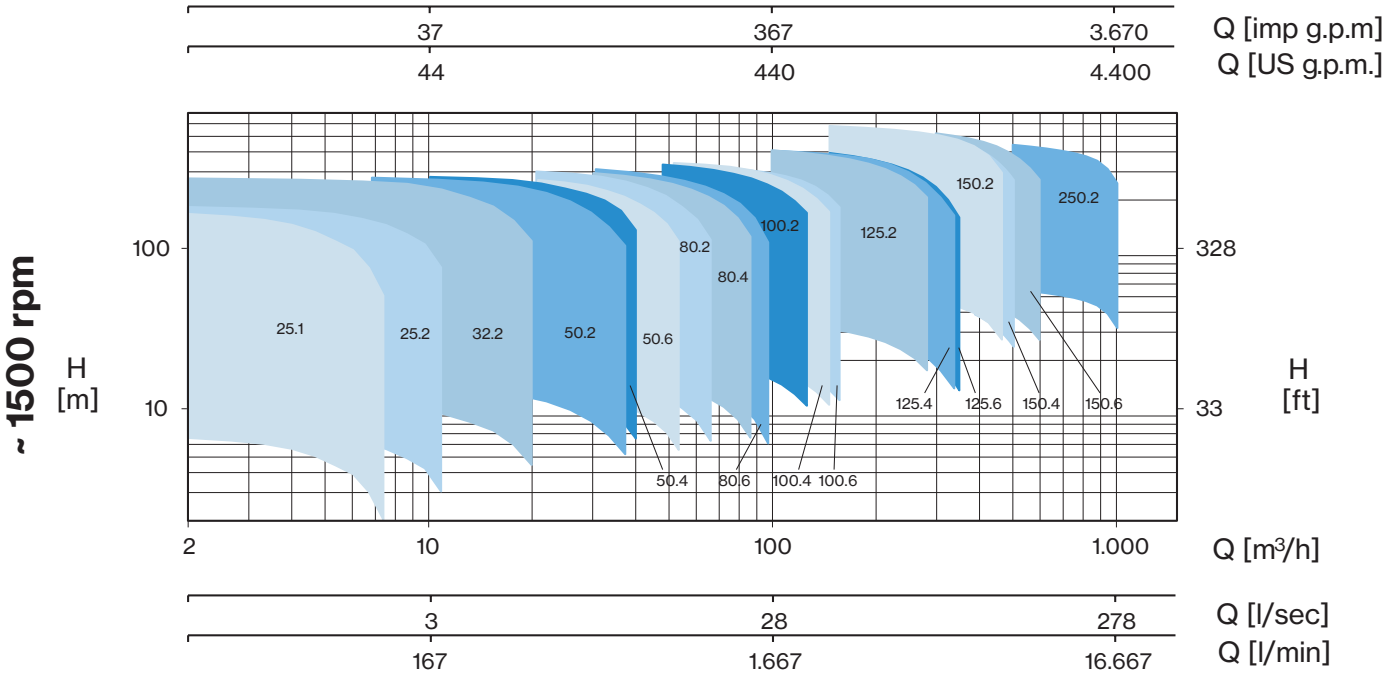


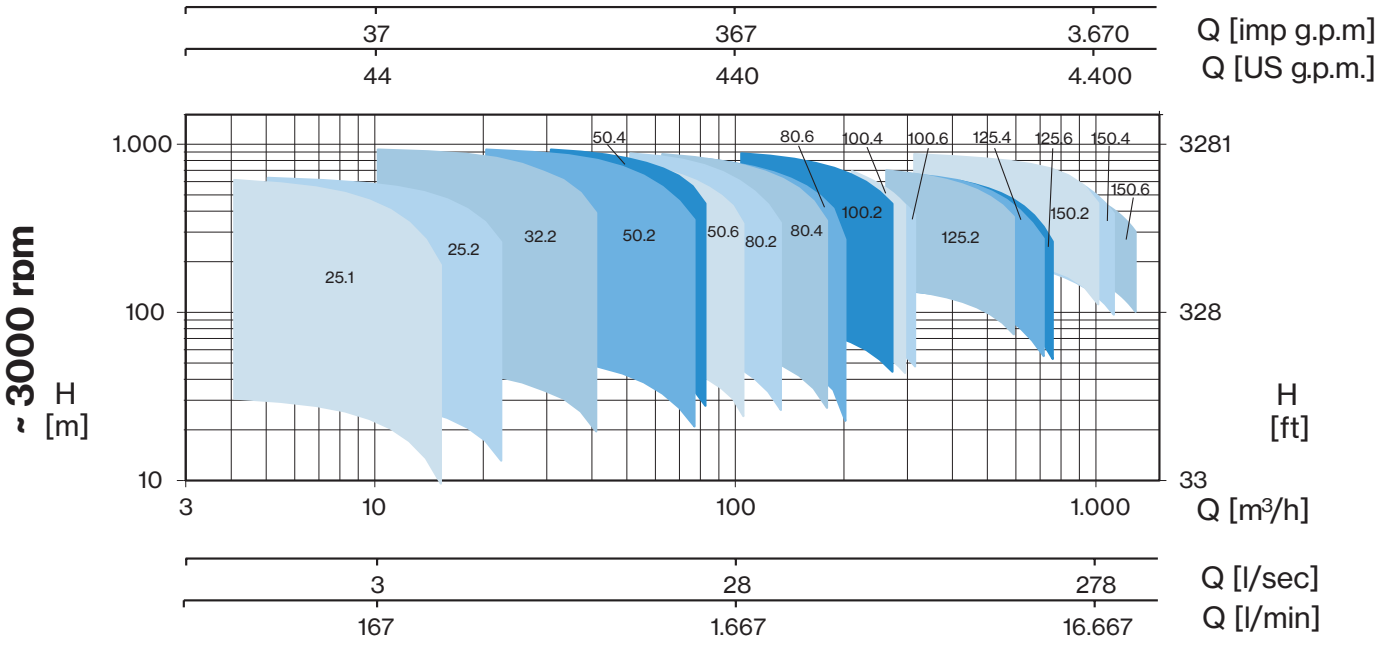
The multistage centrifugal pumps belonging to the HP series have a radial cross section, allowing an horizontal or vertical installation. The flanges of the suction and discharge ports are according to the EN or ANSI standards, these ports can operate radially and can be rotated 90°, in the HP, HPM and HPR models, or have an axial suction port for the HPA and HPMA models. This family of pumps is designed to operate in heavy duty conditions and with very high pressures (up to 100 Bar for the HPR versions) and with temperatures up to 180°C. The great choice of materials, the different kinds of sealing on the shaft and the various lubrication solutions for the pump's bearings, make this line very versatile and ideal for many uses in the industrial, energy and water processing fields.

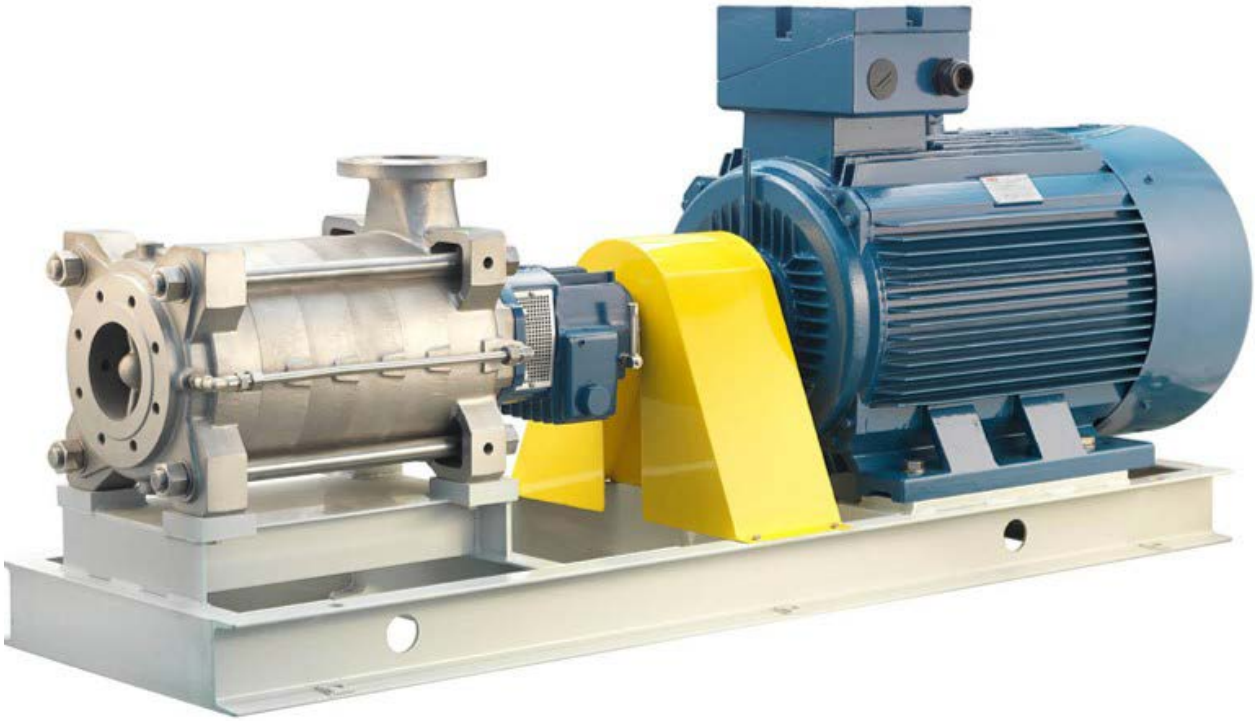
Applications:

- Boiler feeding
- Water desalination by Reverse Osmosis
- Geothermal plants
- Service installations in the petrochemical sector

PERFORMANCE RANGE







Main characteristics

- Flow rates up to 1200 m³/h
- Pressure up to 1000 m
- High hydraulic efficiency, up to 80%
- Balancing drum, placed on the discharge casing, which effectively compensates the axial thrust produced by the impellers
- Versatile sealing system: which is available as packing, single Mechanical or Balanced Mechanical, other special types upon request
- The pumps' bearings are available with grease or oil lubrication in order to assure a long operating life
- Wear rings: they are available both fixed as well as rotating, in various materials, with hardening treatments

General function data

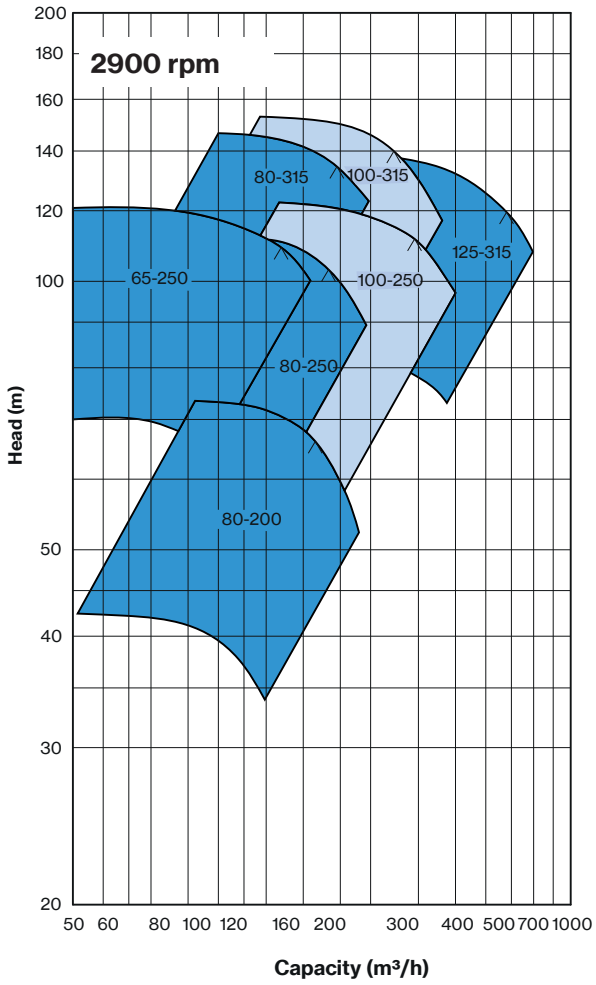
- Pressure up to 100 bar
- Temperatures from -20°C to +180°C
- Rotational speed up to 3600 rpm.
- Standard flanges: UNI/EN
- Suction port: DN 40-300 - PN 16-25
- Discharge port: DN 25-250 - PN 64-100
- Performance tolerances: ISO9906-3B

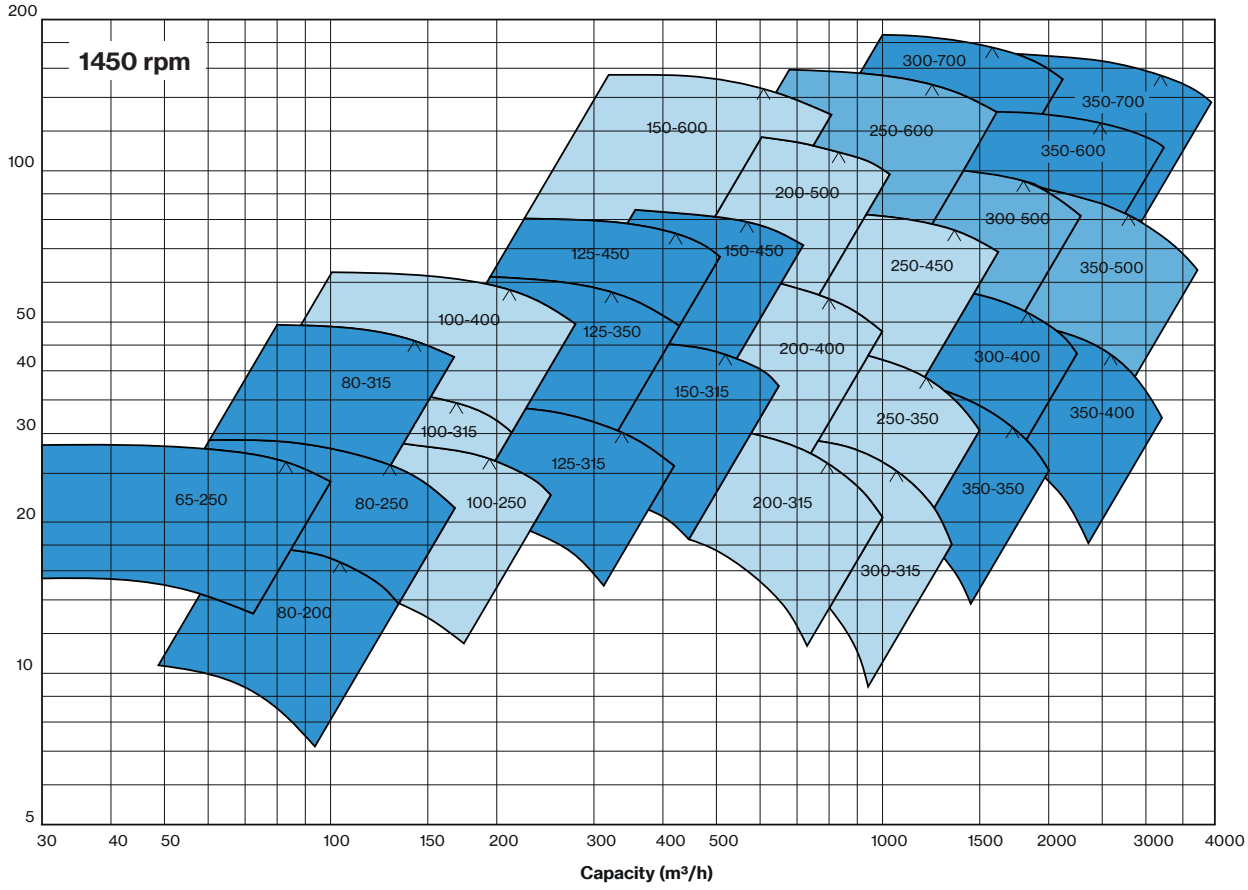
PSC



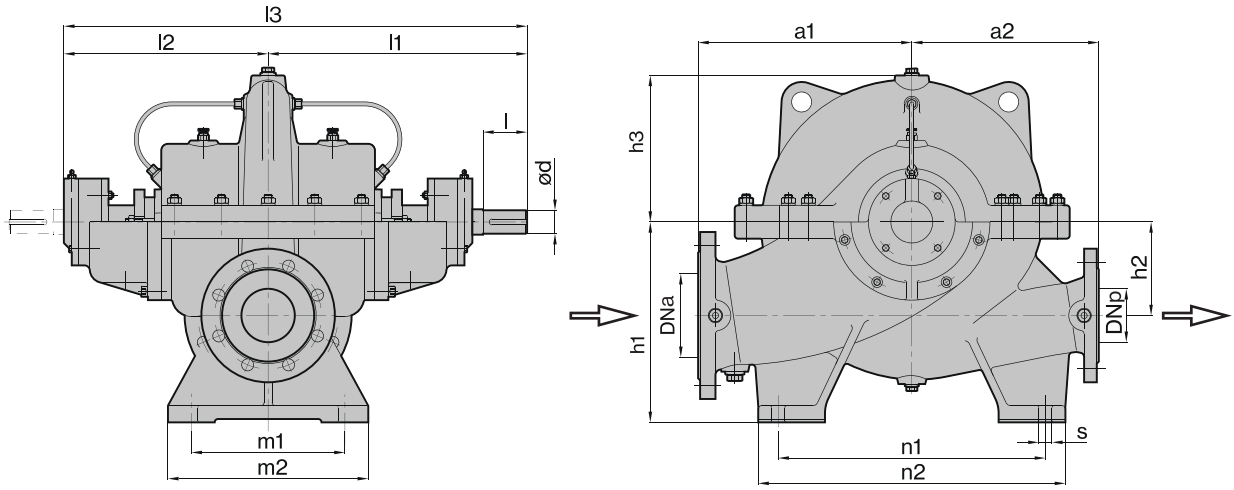
Horizontal axial split case single stage centrifugal pumps with in-line inlet and outlet. The double suction impeller design provides hydraulic balance to enhance bearing life span.

Construction features	
Flow rate	up to 4000 m3/h
Pressure	up to 180 m
Temperature	from -10 °C to +110 °C
Rotation	1450 - 2900 rpm
Standard flanges	conform to EN 1092-2/ PN 16 or PN 25
Discharge port	DN65-350 PN 16-25
Bearing lubrification	grease
Sealing	gland packing; also available with mechanical seal
Impeller, casing and wear rings	cast iron, also available in bronze or stainless steel
Performance tolerance	ISO 9906-3B


2900 rpm
Head (m)
Capacity (m³/h)
80-315
100-315
125-315
65-250
100-250
80-250
80-200


1450 rpm
Capacity (m³/h)
300-700
350-700
150-600
250-600
350-600
200-500
300-500
125-450
150-450
250-450
350-500
100-400
125-350
200-400
300-400
80-315
150-315
250-350
350-400
100-315
125-315
65-250
80-250
100-250
200-315
350-350
300-315
80-200

PSC



TYPE	DIMENSIONS (mm)																			Kg
	PNa	PNp	DNa	DNp	ød	l	l1	l2	l3	a1	a2	h1	h2	h3	n1	n2	m1	m2	s	
65-250	16	16	100	65	35	80	400	310	710	320	280	300	140	200	400	460	230	300	20	165
80-200	16	16	125	80	35	80	400	310	710	320	280	300	140	200	400	460	230	300	20	165
80-250	16	16	125	80	35	80	400	310	710	320	280	300	140	200	400	460	230	300	20	175
80-315	16	16	125	80	35	80	400	310	710	360	300	300	140	260	400	460	230	300	20	197
100-250	16	16	150	100	42	90	450	350	800	360	310	355	170	235	400	480	280	340	20	220
100-315	16	16	150	100	42	90	450	350	800	360	310	355	170	250	400	480	280	340	20	230
100-400	16	16	150	100	42	90	450	350	800	420	370	355	170	300	460	540	280	340	20	290
125-315	16	16	200	125	55	120	555	420	975	420	370	400	200	280	460	540	320	380	22	330
125-350	16	16	200	125	55	120	555	420	975	470	450	400	200	300	540	660	320	380	22	380
125-450	16	16	200	125	55	120	555	420	975	500	450	400	200	350	540	640	320	380	22	410
150-315	16	16	200	150	55	120	555	420	975	470	400	400	200	310	540	640	320	380	22	395
150-450	16	16	200	150	55	120	555	420	975	500	450	400	200	365	540	640	320	380	22	430
150-600	25	25	250	150	65	130	645	500	1145	550	500	560	300	445	540	640	360	420	22	800
200-315	16	16	250	200	65	130	645	500	1145	500	450	500	240	315	540	640	360	420	22	570
200-400	16	16	250	200	65	130	645	500	1145	500	450	500	240	360	540	640	360	420	22	575
200-500	16	16	250	200	65	130	645	500	1145	550	500	560	300	380	620	720	360	420	22	700
250-350	16	16	300	250	65	130	645	500	1145	600	500	600	300	390	620	720	360	420	22	682
250-450	16	16	300	250	65	130	645	500	1145	600	500	600	300	415	620	720	360	420	22	780
250-600	25	25	300	250	80	170	720	540	1260	650	550	600	300	430	620	710	415	485	26	1190
300-315	16	16	350	300	65	130	645	500	1145	600	500	630	300	400	620	700	360	420	22	700
300-400	16	16	400	300	75	140	770	615	1385	700	550	710	350	450	720	800	420	520	26	1125
300-500	16	16	400	300	85	170	755	585	1340	700	750	710	350	425	700	800	420	520	26	1500
300-700	25	25	400	300	100	180	865	675	1540	750	800	710	350	470	720	880	420	520	26	1650
350-350	16	16	400	350	75	140	770	615	1385	700	550	670	350	450	720	800	420	520	26	1100
350-400	16	16	500	350	75	140	770	615	1385	800	600	800	380	500	800	960	500	600	26	1400
350-500	16	16	500	350	80	170	755	585	1340	800	600	800	400	435	740	900	500	600	26	1435
350-600	25	25	500	350	80	170	825	650	1475	800	600	800	400	510	800	900	500	600	26	1435
350-700	25	25	500	350	100	180	865	675	1540	850	750	850	450	525	720	880	500	600	26	2000

VP SERIES

VP

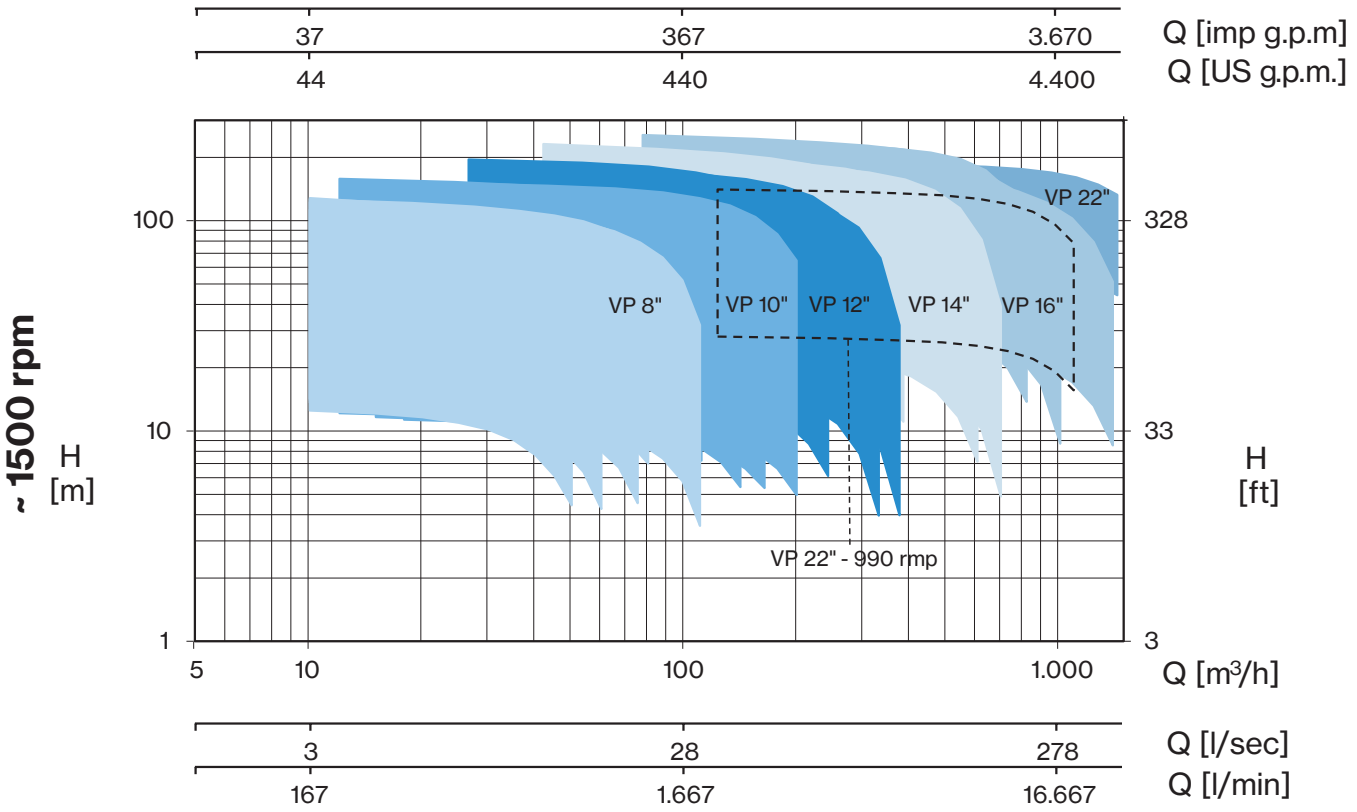


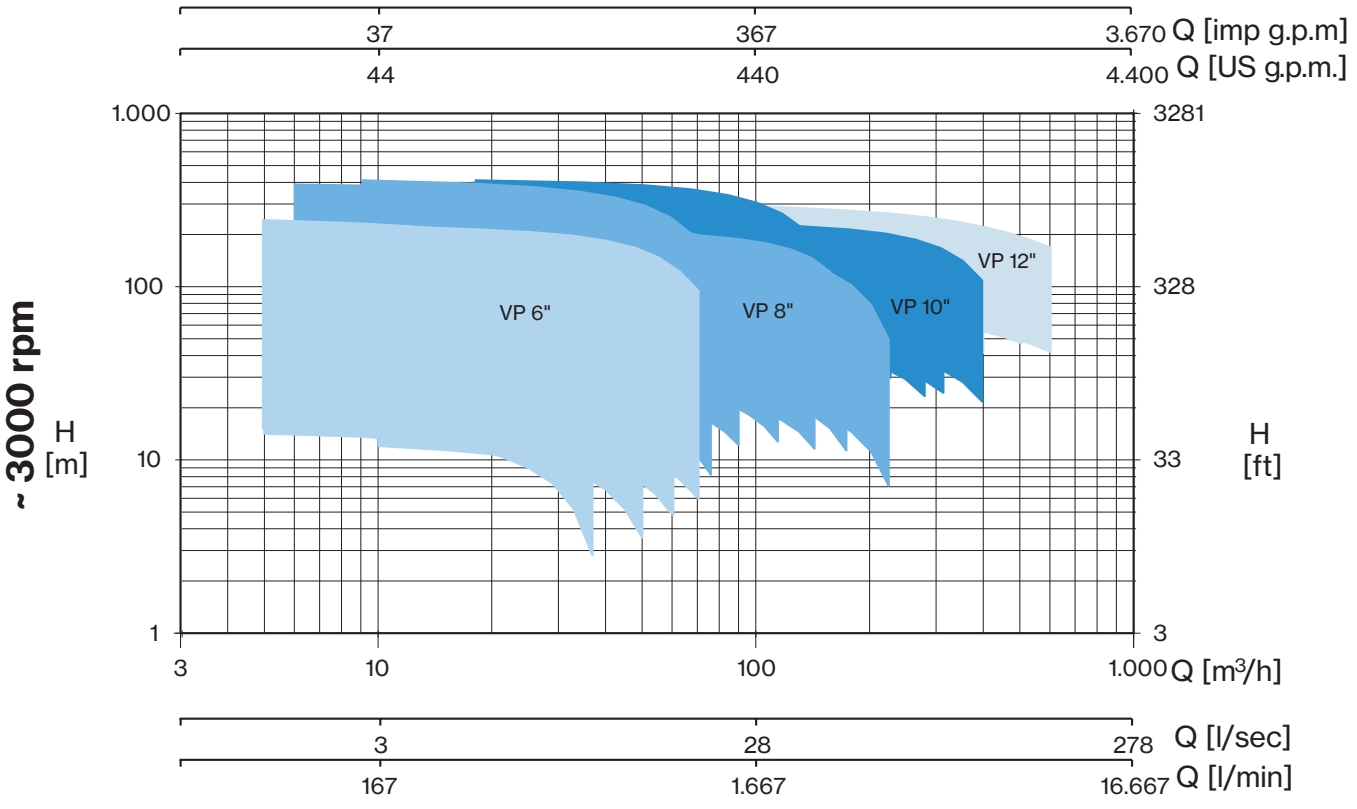
Vertical lineshaft pumps with submerged pump bowl specifically developed for the industrial sectors, irrigation, waterworks and fire-fighting systems. Extremely versatile for the use in areas not served by electricity, as emergency or back-up units. Available in different materials and versions with drive head and electric motor or gear box for diesel engine.

Applications:

- Pumping units for fire-fighting systems
- Aqueducts
- Condensate extraction in power plants
- Geothermal plants
- Water treatment on Reverse Osmosis plants

PERFORMANCE RANGE





Main characteristics

- Capacity up to 1.600 m3/h
- Pressure up to 400 m
- High hydraulic efficiency, up to 82%
- Thrust bearing (grease or oil with optional external cooling) for use of standard motors
- Axis lines with tapered joints for reliable and durable connection of the shaft
- Special bushings resistant to the wear of abrasive liquids and temperatures up to 140°C
- Control unit for electric motor, transmission angle on request
- AISI 420 stainless steel shaft for standard versions
- The pump part of VPL models is produced in the standard execution in AISI 304 stainless steel
- The pump part of VP models is produced in the standard execution in cast iron





Technical operational specifics for standard versions

- All the hydraulic performance values below are guaranteed in accordance with standard ISO 9906-Grade 3B
- The allowable content of solids in the pumped liquid is 100 g/m3
- All the components wetted with liquid are available in various types of steel and bronze alloy


Foras
WATER PUMPS



ACCESSORIES

ELECTRONIC FLOW CONTROL



SERVOPRESS S2

- Complete replacement of the traditional water system set consisting on pressure switch and pressure tank
- Control the starting of the electric pump after a pressure decrease (taps opening) and stopping when the fluid flow interrupt at the maximum pressure level of the electric pumps (taps closing)
- Protection against dry running
- Starting pressure adjustable during the installation
- Standard 1”M hydraulic connections
- Installation in any position - both vertical and horizontal according to the flow direction
- Easily replaceable electronic printed circuit board
- No need of maintenance

TECHNICAL DATA	
Power supply	110-230V ac ± 10% 50/60Hz
Max rated current	12 A
Starting pressure range	1 - 3,5 bar
Max pressure	10 bar
Protection degree	IP65
Max fluid temperature	55 °C
Max ambient temperature	55 °C



HIDROTANK H2

- Automatic start and stop operations of single-phases electric pumps up to 2 HP
- Replacement of the traditional water system set consisting on pressure switch and pressure tank
- Control the starting of the electric pump after a pressure decrease (taps opening) and stopping when the fluid flow interrupt at the maximum pressure level of the electric pumps (taps closing)
- Protection against dry running
- Starting pressure adjustable during the installation
- Standard 1”M hydraulic connections
- Installation in any position-both vertical and horizontal - according to the flow direction
- Easily replaceable electronic printed circuit board.
- No need of maintenance
- Thanks to the 0,4 lt. tank it protects from the frequent start-stop required by small request of water and from anylosses into the system
- Protection of the electronic board thanks to the new watertight compartment
- Protection from water-hammer
- New design and new concept
- Built in 0,4 lt. tank
- Built in pressure gauge
- Watertight electronic part

TECHNICAL DATA	
Power supply	230Vac ± 15% 50/60Hz
Max rated current	12 A (2HP) - 1500 W
Starting pressure range	1 ÷ 3,5 bar (1,5 bar factory setting)
Max pressure	10 bar
Protection degree	IP65
Fluid temperature	5°C ÷ 35 °C
Ambient temperature	5°C ÷ 45°C
Hydraulic connection	1” M

VARIABLE SPEED DRIVE

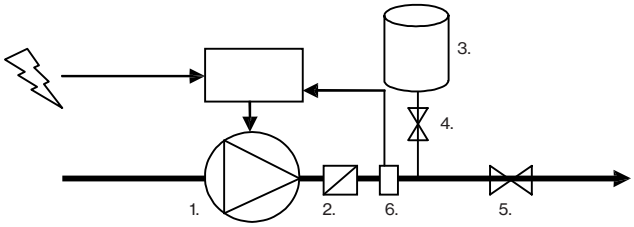


EPIC

EPIC is a single-phase variable speed drive for horizontal and vertical three-phase pumps, designed to maintain the set pressure and protect a pumping system against dry running, over/under voltage and overcurrent.
It is possible to realize a booster set up to 2 pumps in parallel, using 2 EPIC connected together.

- Constant pressure control
- Easy initial configuration
- Installed directly on motor terminal box of horizontal or vertical pumps
- Soft start and soft stop
- Alternance for uniform pump wearing when connected to another EPIC
- Protection against dry running (adjustable power factor cosφ), overload, overcurrent
- Automatic restart in case of stop for dry running
- Fuse for input protection of the device
- Led indicator for standby, run and alarm conditions
- Compatibility for residential environment thanks to an integrated electronic power factor corrector in compliance to EN61000-3-2
- 2 digital inputs (N.O. or N.C.) for motor run/stop
- 2 analog inputs: 4-20 mA and 0-10 VDC
- 1 digital output (N.O. or N.C.) for alarm signal

Input rated voltage	Output rated voltage	Output rated current	Max electric pump current	Weight
1 × 230 V	3 × 230 V	7,5 A	6,8 A	2,5 Kg



1. Pump
2. Non return valve
3. Pressure tank *(Volume suggested: 10% of the pump flow rate)*
4. Valve-Tap
5. Valve
6. Pressure sensor

VSD	3~ PUMP TYPE	max nominal power P2	
		HP	kW
EPIC (1~ V-in 3~ V-out)	**JXM**	1,2	0,88
	JXF, SE, P 3, P 3S	1,5	1,1
	P 18S, P 18V, P 18SV, P 18L, P 18SL	1,8	1,3
	JA, JAM, JA 150-300, KM, KBJ, KB, SD 2", P 5, P 5S, P 9, P 9S, P 9V, P 9SV, P 9L, P 9SL, P 18S	2	1,5
	P 3V, P 3SV, P 3L, P 3SL, P 5V, P 5SV, P 5L, P 5SL, P7, P7 S, P 7V, P 7SV, P 7L, P 7SL	2,5	1,85

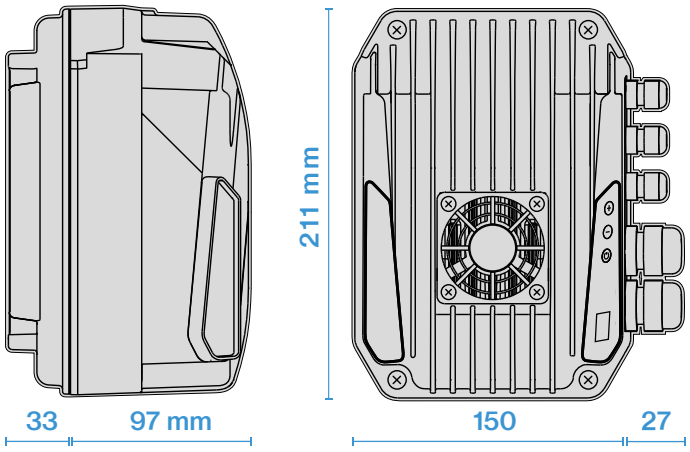
VARIABLE SPEED DRIVE



EPIC-A (Advanced) is a three-phase variable speed drive for horizontal and vertical three-phase pumps designed to maintain the set pressure and protect pumping systems up to 8 pumps connected in parallel.

- Constant pressure control
- Easy initial configuration
- Simplified installation on motor terminal box of horizontal or vertical pumps
- Soft start and soft stop
- Alternance for uniform pump wearing when connected to others EPIC-A
- Built-in protections against overvoltage and undervoltage, overcurrent and no load, dry running, overtemperature
- Led indicator for standby, run and alarm conditions
- Compatibility for residential environment thanks to an integrated electronic power factor corrector in compliance to EN61000-3-2
- Integrated input filter for category C2 (EN61800-3), class A (EN55011)
- 4 digital inputs (N.O. or N.C.) for motor run/stop
- 4 analog inputs: two 4-20 mA and two 0-10 VDC
- 2 digital outputs (N.O. or N.C.) for alarm signal

EPIC-A	304	306	309
Installation	direct on-pump		
Input rated voltage	3 × 400 V ± 15%		
Output rated voltage	3 × 400 V		
Output rated current	4 A	6 A	9 A
Max electric pump current	3,6 A	5,4 A	8,1 A



max weight 2,5 kg

VARIABLE SPEED DRIVE



IPFC 109-311 **IPFC 314-330** **IPFC 338-385**

IPFC is a variable speed drive for vertical pumps designed to control and protect pumping systems up to 8 pumps connected in parallel.
IPFC maintains the set pressure ensuring energy savings and extended lifespan of the system.

- Constant pressure control
- Energy and cost saving
- Protection against overload and dry running
- Greater reliability and longevity of pumping system
- Installed directly on the motor fan cover of vertical pumps
- Indication of input current and supply voltage
- Soft start and soft stop
- Recording running hours and loggings errors and alarms reported by the system
- Connect to other devices to get combined operation with cascade control and pump alteration
- OLED display
- Settable digital outputs, N.O. or N.C.
- Protection and analog/digital inputs

IPFC	109	114	306	309	311	314	318	325	330	338	348	365	375	385
Input rated voltage (V)	1 × 230 ± 15%		3 x 400 ± 15%											
Output rated voltage (V)	1 × 230 3 × 230		3 x 400											
Output rated current (A)	(1~) 9 (3~) 7	(1~) 9 (3~) 11	(3~) 6	(3~) 9	(3~) 11	(3~) 14	(3~) 18	(3~) 25	(3~) 30	(3~) 38	(3~) 48	(3~) 65	(3~) 75	(3~) 85
Output rated power (kW)	(1~) 1,1 (3~) 1,5	(1~) 1,1 (3~) 3	(3~) 2,2	(3~) 4	(3~) 4	(3~) 5,5	(3~) 7,5	(3~) 11	(3~) 15	(3~) 18,5	(3~) 22	(3~) 30	(3~) 37	(3~) 45
Max electric pump current (A)	(1~) 7,2 (3~) 6,3	(1~) 7,2 (3~) 9,9	(3~) 5,4	(3~) 8,1	(3~) 9,9	(3~) 12,6	(3~) 16,2	(3~) 22,5	(3~) 27	(3~) 34,2	(3~) 43,2	(3~) 58,5	(3~) 67,5	(3~) 76,5
Input frequency (Hz)	50 - 60													
PWM frequency (kHz)	2,5 - 4 - 6 - 8 - 10 - 12													
Control panel	backlight LCD with 2 x 16 characters and buzer / Bluetooth ® SMART 4,0													
Input analogical signals (mA)	no.4 4-20													
Input digital signals	no.2													
Comunication	RS485 / Bluetooth SMART 4,0													
2 DOL auxiliary pump contacts	clean, N.O., 230 V, Imax, 6 A													
Cooling	auxiliar built-in cooling fan /mot fan													
Protection degree	IP55 (IP54 for IPFC 338 < > IPFC 385)													
Assembly	on motor fan cover with kit / hanged on wall with kit									on motor feet / hanged on wall with kit				
Max ambient temperature (C)	40° C													
Max ambient altitude	1000 m slm / de-rate 2% each 100 m													
Input / Output feeding cable	2 × PG 13,5 + 3 × PG 9													
Dimension (mm)	205 × 205 × h180					260 × 260 × h180				410 × 260 × h680				



SPD pressure transducer

TYPE	Output signal	Input voltage	Working pressure	Maximum pressure
SPD	4... 20 mA	9... 28 V	0 - 16 bar 0 - 25 bar	32 bar

UNYCONNECT

Dedicated APP for control and programming of Aquadomus and variable speed drives EPIC-A and IPFC

APP FUNCTIONALITY

- **Monitor**: monitoring several operative parameters. Obtaining energy consumption statistics and check alarm history

- **Program**: create programs, save them in the archive, copy them to other devices and share them among multiple users

- **Archive**: create reports with the ability to insert notes, images and send them by e-mail or keep them in the digital archive

- **Remote**: remotely control an Aquadomus, or other pumps equipped with EPIC-A or IPFC inverters, via Wi-Fi or GSM by using a nearby smartphone as a modem

- **Manuals**: access manuals and supplementary technical documentation

- **Guide**: receive online assitance on parameters and alarms



Available on the Google Play

Download on the App Store

PROTECTION/CONTROL PANEL

Legend

SERIES	ELECTRICITY SUPPLY		N. PUMPS			PUMP TYPE			POWER P2	SPEED		MOTOR STARTER				FEATURE		
	1~	3~	1	2	3	Borehole	Submersible	Surface	Kw	Fixed	Variable	DOL	Y/Δ	Soft start	Impedance start	Swicth with overload protection	Electromechanical control panel	Electronic control panel
PML	■	-	■	-	-	■	-	■	0,37 ÷ 2,2	■	-	■	-	-	-	■	-	-
PMLD	■	-	■	-	-	-	■	-	1,1 ÷ 1,5	■	-	■	-	-	-	■	-	-
PT		■	■	-	-	■	■	■	0,37 ÷ 15	■	-	■	-	-	-	■	-	-
EQSM	■	-	■	-	-	■	■	■	0,37 ÷ 2,2	■	-	■	-	-	-	-	-	■
EQSMT	-	■	■	-	-	■	■	■	0,55 ÷ 15	■	-	■	-	-	-	-	-	■
QST	-	■	■	-	-	■	■	■	4,5 ÷ 220	■	-	-	■	-	-	-	■	-
QSS	-	■	■	-	-	■	-	■	7,5 ÷ 220	■	-	-	-	■	-	-	■	-
QRS	-	■	■	-	-	■	-	-	4,5 ÷ 220	■	-	-	-	-	■	-	■	-
EQ2SM	■	-	-	■	-	■	■	■	0,37 ÷ 15	■	-	■	-	-	-	-	-	■
EQ2SMT	-	■	-	■	-	■	■	■	0,55 ÷ 15	■	-	■	-	-	-	-	-	■
Q2ST	-	■	-	■	-	■	■	■	4,5 ÷ 220	■	-		■	-	-	-	■	-
EQ3SM	■	-	-	-	■	■	■	■	0,37 ÷ 2,2	■	-	■	-	-	-	-	-	■
EQ3SMT	-	■	-	-	■	■	■	■	0,55 ÷ 15	■	-	■	-	-	-	-	-	■

Overload protection unit for 1 single-phase pump with run capacitor



PML 5÷50



PML 70

- Power supply 1x230V-50/60Hz
- Electrical switch
- Run capacitor
- Externally resettable thermal relay
- Illuminated 0-1 main switch
- IP55 rated thermoplastic enclosure
- Outputs with cable gland

TYPE	A	RUN CAPACITOR (µF)	POWER	
			HP	kW
PML 5/20-4	4	20	0,5	0,37
PML 7/25-6	5,4	25	0,75	0,55
PML 10/35-7	6,5	35	1	0,75
PML 15/40-10	9	40	1,5	1,1
PML 20/50-13	12,1	50	2	1,5
PML 30/70-18	16,1	70	3	2,2

PROTECTION/CONTROL PANEL

Overload protection unit for 1 single-phase pump with run capacitor + start capacitor with disjunctor



PMLD

- Power supply 1x230V-50/60Hz
- Electrical switch
- Run + start capacitor with disjunctor
- Externally resettable thermal relay
- Green illuminated main switch
- IP55 rated thermoplastic enclosure
- Outputs with cable gland

TYPE	A	RUN CAPACITOR (µF)	START CAPACITOR (µF)	POWER	
				HP	kW
PMLD 15-35-13	13	35	80	1,5	1,1
PMLD 20/50-15	15	50	80	2	1,5

Overload protection unit for 1 three-phase pump



PT

- Power supply 3x400V-50/60Hz
- ON/OFF switch
- Protective device with thermal relay for motor overload or phase failure
- Thermoplastic enclosure
- IP55 protection level

TYPE	A	POWER	
		HP	kW
PT 5/0,9-1,3	0,9-1,3	0,5	0,37
PT 7/1,3-2,1	1,3-2,1	0,75	0,55
PT 10/1,9-3	1,9-3	1	0,75
PT 15-20/2,9-4,5	2,9-4,5	1,5-2	1,1-1,5
PT 20-30-40/4,3-6,8	4,3-6,8	2-3-4	2,2-3
PT 40-50/5,7-9,1	5,7-9,1	4-5,5	3-4
PT 55-75/8,6-13,5	8,6-13,5	5,5-7,5	4-5,5
PT 100/12,5-16,5	12,5-16,5	10	7,5
PT 125-150-16-21	16-21	12,5-15	9,2-11
PT 200/22-29	22-29	20	15

Electronic control panel for 1-2-3 pumps with direct start-up



APPLICATIONS

- √ PRESSURISATION
- √ FILLING
- √ EMPTYNG
- √ DRAINAGE

EQSM

TYPE	VERSION	PUMPS N.	A	POWER		WEIGHT (Kg)
				HP	kW	
EQSM	1~	1	0-18	0,5-3	0,37-2,2	1,5
EQSMT 10	3~	1	0-18	0,75-10	0,55-7,5	2,3
EQSMT 15	3~	1	16-25	10-15	7,5-11	2,5
EQSMT 20	3~	1	16-32	15-20	11-15	3
EQ2SM	1~	2	0-18	0,5-3	0,37-2,2	1,5
EQ2SMT 10	3~	2	0-16	0,75-10	0,55-7,5	2,5
EQ2SMT 15	3~	2	16-25	10-15	7,5-11	3
EQ2SMT 20	3~	2	16-32	15-20	11-15	3,5
EQ3SM	1~	3	0-18	0,5-3	0,37-2,2	5
EQ3SMT 10	3~	3	0-18	0,75-10	0,55-7,5	15
EQ3SMT 15	3~	3	16-25	10-15	7,5-11	15
EQ3SMT 20	3~	3	16-32	15-20	11-15	15

- Single-phase version 100-240Vac 50/60Hz
- Three-phase version 310-450Vac 50/60Hz
- LCD display for voltage, current, power factor, hours of operation, number of starts, motor status, alarms, analogue signal and thresholds
- AUTOMATIC - 0 - MANUAL operation buttons
- Voltage and current minimum and maximum electronic control, failure or incorrect phase sequence control on power supply input
- Programmable anti-seize autotest
- Dry running protection through level probes/ floats/ pressure switches and minimum current
- Up to 6 control inputs: floats/pressure switches
- Input for 4-20 mA or 0-10V analogue signal
- Analogue signal cm - m - bar
- Emergency start and stop inputs with analogue signal
- Clickson thermal pad inputs with automatic reset
- Inversion of inputs (from normally open to normally closed)
- Activation delay from mains return
- Manual button operation (fixed or pulse)
- Programmable alarms for voltage, levels, motor overload, minimum motor current, clicson, output contacts, starts/hour
- Automatic reset for minimum current alarm with 4 programmable times
- Auxiliary and motor protection fuses, isolator protection, duty standby protection
- ABS box IP55. Metallic box IP55 for EQ3SMT
- Duty-standby and motor changeover in the case of a fault for two-pump and three-pump control panels
- Predisposition for capacitors for single-phase versions (capacitors are available separately)



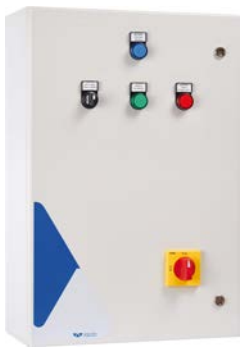
CAPACITOR FOR EQSM

RUN CAPACITOR	POWER
	HP
20µF	0,5
25µF	0,75
35µF	1-1,5
40µF	1,5
50µF	2
80µF	3

RUN CAPACITOR + START CAPACITOR WITH DISJUNCTOR	POWER
	HP
35µF + 80µF	1,5
50µF + 80µF	2

PROTECTION/CONTROL PANEL

Star/delta control panel for 1 three-phase pump

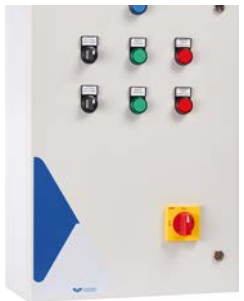


QST

- Power supply 3x400V-50/60Hz
- 24V transformer for auxiliary circuit
- Low voltage inputs and circuit
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- Star/delta line contactors in AC3
- Auxiliary and motor protective devices with fuses
- Main door interlock switch disconnector
- ABS box up to 11kW, metal box from 15kW

TYPE	A	POWER	
		HP	kW
QST 5	13	5,5	4
QST 7	15	7,5	5,5
QST 10	17	10	7,5
QST 15	24	15	11
QST 20	31	20	15
QST 25	38	25	18,5
QST 30	50	30	22
QST 40	60	40	30
QST 50	75	50	37
QST 60	100	60	45
QST 75	124	75	55
QST 100	135	100	75
QST 125	155	125	92
QST 150	200	150	110
QST 180	241	180	132
QST 220	300	220	162
QST 300	410	300	220

Star/delta control panel for 2 three-phase pumps



Q2ST

- Power supply 3x400V-50/60Hz
- 24V transformer for auxiliary circuit
- Low voltage inputs and circuits
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- Star/delta line contactors in AC3
- Auxiliary and motor protective devices with fuses
- Main door interlock switch disconnector
- Metal box (whole range)

TYPE	A	POWER	
		HP	kW
Q2ST 3	8,5	3	2,2
Q2ST 5	13	5,5	4
Q2ST 7	15	7,5	5,5
Q2ST 10	17	10	7,5
Q2ST 15	24	15	11
Q2ST 20	31	20	15
Q2ST 25	38	25	18,5
Q2ST 30	50	30	22
Q2ST 40	60	40	30
Q2ST 50	75	50	37
Q2ST 60	100	60	45
Q2ST 75	124	75	55
Q2ST 100	135	100	75
Q2ST 125	155	125	92
Q2ST 150	200	150	110
Q2ST 180	241	180	132
Q2ST 220	300	220	162
Q2ST 300	410	300	220

Soft start control panel for 1 three-phase pump



QSS

- Power supply 3x400V-50/60Hz
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- NA input for start control
- Auxiliary motor protective devices with fuse
- Main door interlock switch disconnector
- Forced ventilation kit
- IP54 rated metal box
- Ambient temperature -5 ÷ +40°C

TYPE	A	POWER	
		HP	kW
QSS 10	18	10	7,5
QSS 15	25	15	11
QSS 20	30	20	15
QSS 25	37	25	18,5
QSS 30	45	30	22
QSS 40	60	40	30
QSS 50	72	50	37
QSS 60	85	60	45
QSS 75	105	75	55
QSS 80	125	80	59
QSS 100	142	100	75
QSS 125	170	125	92
QSS 150	210	150	110
QSS 180	250	180	132
QSS 220	300	220	162
QSS 300	370	300	220

Control panel with impedance start for 1 three-phase pump



QRS

- Power supply 3x400V-50/60Hz
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- NA input for start control
- Stator reactance with 4 starts/hour, 2 of which are consecutive
- Adjustable reactance timer
- Line and impedance starter contactors in AC3
- Main door interlock switch disconnector
- Ambient temperature -5 ÷ +40°C

TYPE	A	POWER	
		HP	kW
QRS 5	13	5,5	4
QRS 7	16	7,5	5,5
QRS 10	20	10	7,5
QRS 15	29	15	11
QRS 20	35	20	15
QRS 25	52	25	18,5
QRS 30	63	30	22
QRS 40	80	40	30
QRS 50	90	50	37
QRS 60	110	60	45
QRS 75	135	75	55
QRS 90	150	90	66
QRS 100	175	100	75
QRS 125	200	125	92
QRS 150	235	150	110
QRS 180	310	180	132
QRS 220	360	220	162
QRS 300	410	300	220

TANKS



UTILIZATION
Interchangeable membrane expansion tanks; the pre-charge pressure in the tank guarantees a water reserve but also reduces the number of startups of the connected pump; the membranes are certified for use with foodstuffs; they may be in EPDM or butyl depending on the model.
CONSTRUCTION CHARACTERISTICS
Flanges in galvanised steel or AISI 304 stainless steel.
Tanks in carbon steel coated with powder paint or in AISI 304 stainless steel.
Pre-charge valve with protective cover.

TYPE	DESCRIPTION
AS 24	24 lt. Spherical tank
ACV 24	24 lt. Horizontal tank
ACZ 24	24 lt. Horizontal tank
ACA 24 SS	24 lt. Stainless steeel tank
AC 50	50 lt. Horizontal tank
AC 60	60 lt. Horizontal tank
AC 80	80 lt. Horizontal tank
AC 100	100 lt. Horizontal tank
AC 200	200 lt. Horizontal tank
AC 300	300 lt. Horizontal tank
AV 50	50 lt. Vertical tank
AV 60	60 lt. Vertical tank
AV 80	80 lt. Vertical tank
AV 100	100 lt. Vertical tank
AV 200	200 lt. Vertical tank
AV 300	300 lt. Vertical tank
AV 500	500 lt. Vertical tank
AV 750	750 lt. Vertical tank
AV 1000	1000 lt. Vertical tank

MEMBRANES



TYPE	DESCRIPTION
MZ 24	EPDM membrane for ACZ 24 lt.
M 24	membrane for AS 24 - ACV 24
M 50	membrane for AC 50 - AV 50
M 100	membrane for AC 100 - AV 100
M 200	membrane for AC 200 - AV 200
M 300	membrane for AC 300 - AV 300
M 500	membrane for AV 500
M 750 - 2000	membrane for AV 750 - AV 2000

PRESSURE SWITCHES



TYPE	DESCRIPTION	RANGE AT RISING PRESSURE (bar)
PP5	1~ / 3~	1-5
PP12	1~ / 3~	3-12

PRESSURE GAUGES



TYPE	PHASE
PR 6	0-6 bar rear connection
PR 6 R	0-6 bar radial connection
PR 12	0-12 bar rear connection
PR 10 G	0-10 bar glycerine
PR 12 G	0-12 bar glycerine

FLEXIBLE HOSES



TYPE	DESCRIPTION
FL 530	Flexible hose with bend 1”x530x1”
FL 600	Flexible hose with bend 1”x600x1”
FL 700	Flexible hose with bend 1”x700x1”
FL 850	Flexible hose with bend 1”x850x1”

CONNECTORS



TYPE	DESCRIPTION
R3	3 way 1” brass connector
R5	5 way 1” brass connector



TYPE	DESCRIPTION
R5X 1”	5 way 1” Aisi 304 connector with built-in no return valve
R5X 1”1/4	5 way 1” ¼ Aisi 304 connector with built-in no return valve
R5X 1”1/2	5 way 1” ½ Aisi 304 connector with built-in no return valve

VALVES



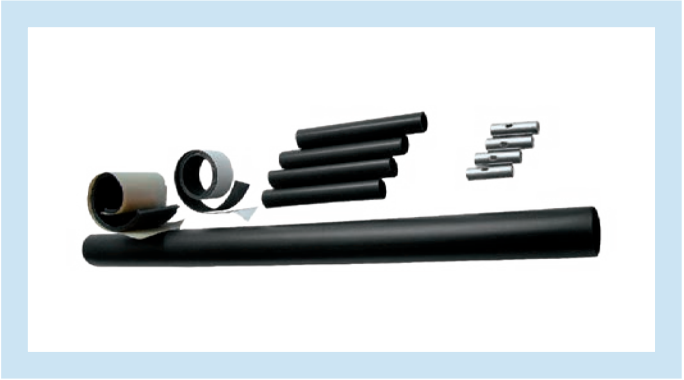
TYPE	DESCRIPTION
VF 1”	foot valve 1”
VF 1” ¼	foot valve 1” ¼
VF 1”½	foot valve 1” ½
VF 2”	foot valve 1” ½
VR1”	check valve 1”
VR 1”¼	check valve 1” ¼
VR 1”½	check valve 1” ½
VR 2”	check valve 1”

FLOAT SWITCHES



TYPE	DESCRIPTION
GK 2	2 mt. cable length
GK 3	3 mt. cable length
GK 5	5 mt. cable length
GK 10	10 mt. cable length
GAS 5	5 mt. cable length, for wastewater
GAS 10	10 mt. cable length, for wastewater
GAS 20	20 mt. cable length, for wastewater

CABLES JOINTS



Kit GC series
Junction cable kit with heat - shrinkable tubing.
For a professionally made junction it is recommended to use the “Kit GC”, it has excellent requirements in terms of electric, mechanical and water resistance. This kit is composed of: crimp wire connectors in tinplated copper, thin wall heat-shrinkable tubing to cover the conductor of the cable, a strip of Scotch 2547, one of Scotchfil and medium wall heat-shrinkable tubing to cover the junction. It is recommended to seal the two end points of the sheath with a PVC textured insulating tape.

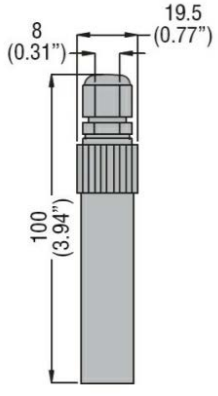
TYPE	Cables section mm²	Cable number
Kit GC 4/2,5	1/2,5	4
Kit GC 4/6	4/6	4
Kit GC 4/10	10	4
Kit GC 4/16	16	4
Kit GC 4/25	25	4
Kit GC 4/35	35	4
Kit GC 4/50	50	4
Kit GC 1/50	50	1
Kit GC 1/70	70	1
Kit GC 1/95	95	1
Kit GC 1/120	120	1
Kit GC 1/150	150	1

LEVEL PROBES



Kit K3SL series
Level Probes Kit consist of 3 electrodes model K3SL.
Single pole probe used for level control in wells or storage tanks.
It made of an AISI 303 stainless steel electrode, a plastic (PPOX) holder and a cable gland.
A seal ring and the tightening of the cable gland PG7 prevent water from entering the cable terminal connector and causing its oxidation.
Cable connection: screw.
The external cable diameter must be 2.5 to 6mm/Ø0.1 to 0.24” to warrant perfect sealing.

Maximum connection cable section: 2.5mm2.
Maximum operating temperature: +60°C.



GENERAL SALES CONDITIONS

ART. 1 - DEFINITIONS

For the purpose of this Contract, the following expressions shall bear the respective meaning set forth below:

a) Seller/Producer: means "PENTAX INDUSTRIES S.P.A.";
b) Purchaser: means "natural or legal person who purchases the Seller's goods in business activities";
c) Product/s or Good/s: means "standard product and products which are personalized for the Purchaser, produced and/or sold by the Seller, such as: electric pumps, pumps, and accessories;"
d) Contract and/or General Sales Conditions: means "the present contract;
e) Orders or Request of quotation means "the written request from the Purchaser to buy the Products from the Seller";
f) Order Confirmation: means "the Order acceptance document from the Seller";
g) Party/Parties: means "Seller and/or Purchaser";
h) Technical assistance for installation of Products means "The Seller's assistance through its operators who will travel to the Site, to support the Purchaser's staff by transferring technical notions about ways to install the Products. The Operators will not provide the direct installation of the Products on the Site;
i) Site or Worksite: means "the place of installation of Products";
j) Operator/s: means "the owners of the company, employees and collaborator of the Seller who can go to the Site for Technical assistance for installation of Products.
k) Business day/Business days: means the days from Monday to Friday of each week, excluding Saturdays, Sundays, and public holidays as listed in the official calendar of national holidays in Italy, as well as any company closure days notified in writing by the Seller with at least 8 (eight) days' prior notice. If a contractual deadline falls on a day that is not considered a Business Day, such deadline shall be deemed extended to the next following Business Day.
l) Days: means calendar days, as opposed to Business Days as defined under letter k) above.

ART. 2 – CONTENT AND FORM OF THE CONTRACT

2.1 Replacement of previous agreements and application of present Contract to future sales. The present General Sales Conditions regulate the relationship between the Parties, replace any previous agreement or document signed and apply to all the purchases which will take place between the Parties even if not expressly referred to in subsequent reports, and prevail on the general Conditions of purchase of the Purchaser.
2.2 Modification of the General Sales Conditions. Every modification of the present General Sales conditions shall be expressly confirmed in writing by the Seller.
2.3 Binding Orders. Orders shall be considered binding only when:(i) they are accepted or confirmed in writing by the Seller's legal representative or by a person expressly authorized by the Seller, through the issuance of an Order Confirmation; and (ii) the Order Confirmation is signed by the Purchaser or, alternatively, if 2 (two) Business days have passed since its transmission to the Purchaser without any objections or responses being raised by the latter. The Order becomes irrevocable the moment the Seller has knowledge of it.
2.4 Refusal of Orders. Without prejudice to its own rights, the Seller reserves the right to refuse the Orders if not completed or to block the deliveries of the Products if the Purchaser does not carry out its obligations.
2.5 Modifications and suspension of Contract. If the Purchaser modifies or suspends the Contract, the Seller has the right to terminate the Contract and ask for damage compensation, or to increase the agreed price. It is understood that the Seller shall under no circumstances be obligated to reduce the previously agreed price.
2.6 Order Procedure. The Purchaser sends the Order or the Request of quotation to the Seller in writing. The Seller may send a quotation/offer and subsequently issue the Order confirmation.
2.7 Communication of Wrong Order Confirmations. Should the Purchaser find an error and/or omission of any kind in the Order confirmation, he shall within 2 (two) Business days communicate such circumstances to the Seller, to allow him to check the Order Confirmation and to make the necessary corrections or changes.
2.8. Modifications and improvement to the Products. The Seller reserves the right to modify the Products compared to what is outlined in the related offer and/or Order Confirmation, when such modifications are necessary and/or appropriate due to technical and/or production needs or are mandatory under applicable law governing the Contract, provided that they do not reduce and/or alter the performance and/or quality characteristics of the Products agreed upon between the Parties (by way of example and not limitation: variation of materials, accessories, finishes, color shades, etc.). In the event of modifications and/or improvements, the Seller commits to notifying the Purchaser, who shall not be entitled to terminate the Contract for such reasons.
2.9 Mandatory rules of country of Site. In case the country of the Site for the supply of the Products requests the enforcement of mandatory rules, the Purchaser shall be responsible for communicating to the Seller, the relevant regulations in English, before signing the Order Confirmation. Failure to communicate the above-mentioned regulations, the Purchaser shall not be liable in any way or for any reason for the non-compliance of such regulations.

ART. 3 – PAYMENT CONDITIONS

3.1 Price. The price of the Products shall be indicated in the Order Confirmation.
3.2. Currency. The amounts in the Confirmation Order shall be indicated by the Seller in Euro or in US Dollars (USD).
3.3 Payment conditions. The payment conditions shall be specified in the Order Confirmation, and the Purchaser undertakes to pay by the deadlines indicated in the Order Confirmation, or as otherwise agreed by the Parties.
3.4 Late Payments. If the payments are late, default interest is applied as indicated in D.Lgs 231/2002, as well as bank charges and financing costs incurred by the Seller because of late payment.
3.5 Obligation to pay in case of postponement request of delivery and/or Site is unsuitable to receive Goods. If the Purchaser asks for the postponement of the delivery date of the Goods as indicated in art. 5.2, the Seller has the right to ask the Purchaser for the balance of the price payment and a compensation for the deposit of the Goods at its own site or at a third party's site for its whole duration, with prior written communication to the Purchaser. With the sending of the request of the payment of the price balance, the Purchaser shall be considered as having received formal notice in accordance with the law. The costs and risks of transportation of Goods for their deposit at a third subject's shall be entirely borne by the Purchaser and shall be paid when the invoice is presented. Within the end of every month or at another due date at its discretion, the Seller shall issue an invoice to the Purchaser for the payment of the deposit costs.
3.6 Revision of prices in case of Purchaser's request to modify measurements and/or the Contract. In case the Purchaser requests modification to measurements of Goods in accordance with art. 4.3, or modifications of the Contract (by way of example and not limited to: request for extra Goods, change of material type, color variations, etc..), the Seller shall have the right to a revision of an increased price. The price agreed between the Parties shall not be in any case reduced. In case of non-acceptance of modifications by the Seller, the Purchaser shall pay the entire agreed price.
3.7 Clause limiting the pro position of exceptions. The Purchaser cannot avoid payment of owed amount, as there is a clause expressly called the clause "solve et repete", indicated in article 1462 of the Italian Civil Code.
3.8 Travel allowance. The Seller shall have the right to ask the Purchaser for a travel allowance and a reimbursement of any additional costs to those indicated in the Order Confirmation, as better described in art. 5.5.

ART. 4 – DELIVERY AND PASSING OF RISK

4.1 Delivery date. The delivery date is indicated in the Order Confirmation, the Seller is not liable for any delays in the delivery of Products, determined by fortuitous circumstances, force majeure or in any case circumstances beyond his control. The delivery dates do not have a peremptory or essential nature but are purely meant as approximate and non-binding for the Seller. Any delays in the delivery shall not entail a penalty or indemnity or compensation for damages, or application of default interests, or even a partial termination of the Contract.
4.2 Request for postponement of delivery and/or unsuitability of Site to receive Products. In case the Purchaser requests for any reason a postponement of delivery date of Products (by way of example and not limited to: delay in work progress on Worksite, delay in carrying out of work preparations to receive Products etc), the Seller shall store the Products at its own company or at a third party's and shall have the right to a reimbursement for the deposit of the Products for the whole duration of the deposit of Goods and moreover, shall have the right to the payment of the balance of the price of the Goods as referred to in the above article 3.4.
4.3 Delay in the delivery due to Purchaser. In case the Seller is late in the delivery for reasons caused by the Purchaser, the Seller shall not be liable for the delay or any allowance or damage compensation that may be requested from him, as indicated in art. 4.1.
4.4 Delivery clause. Unless otherwise agreed, the Seller delivers the Products according to Incoterms ® 2020, indicated in the Order Confirmation.
4.5 Passing of risk. Risk of loss or deterioration of Products goes to Purchaser at time of delivery of Products to Purchaser in accordance with art. 4.4.
4.6. Storage Obligation. The Purchaser undertakes to store the Products separately from other goods in the Worksite, in a dry, under shelter and supervised area, considering the particular climactic conditions of the place of destination and the nature of the material with which the Goods are built.

4.7. Communication of any damages during transportation. Upon receiving the Products at his own establishment, the Purchaser must check that the Products are intact and have not undergone deterioration or damages, and must communicate to the Seller and to the carrier any deterioration or damage of the Products within 2 (two) Business days of the receipt of the Products.

ART. 5 – TESTING, INSTALLATION AND TECHNICAL ASSISTANCE FOR INSTALLATION

5.1 Testing. The Purchaser may request, under penalty of forfeiture, the testing of the products in the Order. The testing, if requested, shall be carried out exclusively at one of the Seller's locations, chosen at the Seller's discretion, within 10 (ten) Business days from the notification to the Purchaser that the Products are ready for testing. The Seller may specify a cost for the execution of the testing in the Order Confirmation, which shall be borne by the Purchaser. The Seller shall prepare the "Testing Report," which shall be signed by both Parties. Any interventions for the removal of defects and/or faults shall be quantified and agreed upon by the Parties regarding the timing and methods of intervention, taking into account the Seller's production needs. The lapse of 15 (fifteen) Days without the Purchaser's participation in the testing will result in the Purchaser's waiver of the testing, and the Seller may proceed with the testing internally without any opposition.

5.2 Installation. The Installation of the Products at the Site shall be carried out by and at the expense of the Purchaser, in accordance with the procedures set forth in the "Instruction Manual" provided by the Seller.

5.3. Technical assistance for the installation at the Site. The Purchaser may ask for Technical assistance for the installation of the Goods in the Order, should he ask for it after filling out the Order, the Seller shall accept to carry out the Technical assistance at his discretion. Should the Seller accept to carry out the Technical assistance for installation the Seller shall communicate the relative costs which shall be entirely borne by the Purchaser as indicated in art. 5.7.

5.4. Number of persons. The number of persons (Operators, as defined in art. 1 lett. K) who will be in charge of the Technical assistance for the installation of the Goods shall be decided at the Seller's discretions. All the staff dedicated to the assistance is equipped with suitable individual protection (D.P.I.), based on pinpointed risks, and communicated to the Purchaser by the Seller in writing.

5.5. Extension of stay for Technical Assistance for installation of the Goods. In case the Technical assistance for installation of Goods days agreed on between the Parties should be modified and/or extended for any reason not liable to the Seller, any increased costs shall be borne by the Purchaser (ex. higher travel costs), as well as a daily allowance for each Operator, whose sum is specified in the Order Confirmation or subsequently following the request for Technical assistance for the installation. The Purchaser undertakes to pay for the owed amounts when paying the balance of the price.

5.6. Available spaces on the Site: restrooms and kitchen. The Purchaser undertakes to equip the Site with adequate sanitary facilities and suitable spaces to allow the Operators to cook and have meals. If no hotel is available near the Worksite, the Purchaser shall also arrange for decent and clean accommodation for the Operators' overnight stay.

5.7 Expenses to be borne by the Purchaser. If the Seller carries out the Technical assistance for the installation, the following expenses shall be borne by the Purchaser:

a) travelling expenses (round-trip airfare ticket) and of prophylaxis for each of the Seller's Operators, according to what the Farnesina suggests (Ministry of Foreign Affairs) or what is considered appropriate for each Operator;

b) extra travelling expenses (ex. surcharge or new airfare ticket) for each Operator, because of early or delayed return to Italy for whatever reason which is not attributable to Seller;

c) travel insurance expenses, accident, death, medical assistance in general extra, for each Operator beyond the duration of the stay for reasons not attributable to the Seller;

d) transfers in private car or in public means of transportation from the airport to the accommodation, from the accommodation to the Site and vice versa, of the Operators;

e) room and board expenses for each Operator: each Operator shall have a single room with private restroom at his disposal as well as a laundry service, a bar/restaurant service, a cleaning service and the room shall be in a secure, supervised area. The board shall include: breakfast, quick lunch (also on Worksite), dinner;

f) expenses for interpreting services in English and in the local language at the Site.

ART. 6 - RETENTION TITLE

The Products remain the property of the Seller until full payment of the price as per Article 3.1. Any formalities (e.g., contract registration) required in the Purchaser's country for the validity of this article shall be borne by the Purchaser. The Purchaser undertakes, in the event of resale of the Products to third parties before full payment to the Seller, to inform third parties that the Products belong to the Seller until full payment is made. In the event of termination of the Contract due to the Purchaser's breach, the price installments paid shall be retained by the Seller as compensation within the limits set by law, without prejudice to the right to claim further damages arising from such termination.

ART. 7 - GUARANTEE

7.1 Seller's liability. The Seller is liable for the defects of the Products, only if the defects are not due to the Purchaser's fraud or fault, and the Seller is able to verify the existence of the defects contested by the Purchaser.

7.2 Duration of the guarantee and of the deadline for reporting defects. The defects of the Goods shall be reported in writing to the Seller within 30 (thirty) Days of the discovery or from the time the Purchaser should have known about them. The guarantee shall expire within 2 (two) years of the delivery of the Goods.

7.3 Consequences in case of defects. The Seller may, at its discretion, repair, replace, or issue a credit note in the case of a Product defect, after receiving from the Purchaser photos of the defective Products via email, according to the procedures to be agreed upon by the Parties. If the Seller requests the Purchaser to send the Product to its premises or to those of its supplier for repair, the Purchaser shall bear the cost and risk of transporting the Product, including the cost and risk of returning the Product to the Site.

7.4 Prohibition for the Purchaser to repair the defective Product. The Purchaser is not authorized, in the case of defective Products, to proceed without the written consent of the Seller: a) to repair or replace the defective Product directly or indirectly through third parties; b) to send the Products to the Seller.

7.5. Exclusion of Warranty. The warranty is excluded in the following cases:

(a) failure, delayed, or partial payment of the price by the Purchaser; (b) alterations and/or modifications of the Products not authorized in writing by the Seller; (c) improper use of the Products; (d) storage and/or deposition of the Products in a manner not suitable for the nature and type of the Products; (e) electrical or hydraulic connection errors, or inadequate or absent protection of the Product; (f) improper installation of the Product; (g) the Product has been subjected to overloads beyond the rated limits; (h) contact of the Products with abrasive or corrosive liquids, or any other substances incompatible with the materials used in the construction of the Products; (i) normal wear and tear of the Products and/or their materials; (j) inadequate transportation methods if the transportation is managed by the Purchaser.

7.6 Exclusion of Liability. Without prejudice to the application of the laws regarding liability for damage caused by defective products, the Purchaser hereby waives any claim for damages and any right to cancel the Order, in whole or in part, and/or suspend payment for the Products, even if limited to the disputed batch, pursuant to Article 3.7 of this Contract.

ART. 8 - PACKAGING

8.1 Standard packaging. The standard packaging provided by the Seller for the Products and accessories is in pallets, cartons, or wooden crates.

8.2. Non-standard packaging. If the Purchaser requires a different type of packaging from the standard, it shall be communicated in the Order under penalty of forfeiture.

ART. 9- HARDSHIP CLAUSE

9.1 Bound to perform contractual duties. Each Party of this Contract is bound to perform its contractual duties even if the events have rendered performance more onerous than could reasonably have been anticipated at the time of the formation of the Contract.

9.2 Negotiation of new contractual terms. Notwithstanding art. 9.1, where a Party proves that:

a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the formation of the Contract; and that

b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this article, to negotiate new contractual terms which reasonably allow for the consequences of the event.

9.3 Termination of the Contract because of lack of agreement between the Parties. Where art. 9.2 applies, but where new contractual terms which reasonably allow for the consequences of the event are not agreed by the other Party to the Contract as provided in that article, the Party invoking this article is entitled to termination of the Contract.

9.4 Consequences in case of termination of the Contract. If the Seller enforces the present article, and the Purchaser does not agree with the new contractual conditions, the Purchaser shall have the right to terminate the present Contract but shall not be entitled to a refund of what was already paid to the Seller.

ART. 10 - EARLY TERMINATION OF THE CONTRACT

10.1 Early termination of the Contract. The Seller may terminate this Contract with immediate effect, by means of an email notification followed by a written notice sent by means of communication ensuring evidence and date of receipt, in case of a breach of contractual obligations by the Purchaser, amounting to a justifiable reason for immediate contract termination or in case of occurrence of exceptional circumstances which justify the earlier termination, as set forth below.

10.2 Breach of Contractual obligation. The Parties jointly agree that the breach of the provisions under articles 2.5, 3.4, 3.6, 9.3, 11.2, 13.2, 15.2 is to be considered in any case, whatever the importance of the violation, as a justifiable reason for immediate Contract termination. Furthermore, the breach of any other contractual

obligation, which is not remedied by the breaching party within 30 (Thirty) days after having been invited in writing to do so by the order Party, shall be considered as a justifiable reason for the immediate Contract termination.

10.3 Exceptional circumstances. Shall be considered as exceptional circumstances justifying the immediate Contract termination: bankruptcy, any kind of composition between the bankrupt and the creditors, death or Purchaser's failure, civil or criminal penalties and any other circumstance that could compromise the Purchaser's reputation, any important changes in the juridical structure or in the management of the Purchaser, as well as any circumstances which may affect the punctual carrying out of the obligations set forth in the Agreement.

10.4 Consequences in case of early termination. In the event of early termination of the contract, the Purchaser recognizes the Seller's right to retain the amounts received by him as an adjustment for the price of the Goods and to request any amount still owing until the complete attainment of the total price indicated in the Order Confirmation in accordance art. 3.1, except for any further damage.

ART.11 - VALIDITY OF THE CONTRACT

1.1 Invalid or unenforceable clause. Should any clause be considered invalid or unenforceable by the judgement of a Court of competent jurisdiction or award of an Arbitral Tribunal, all other provisions shall remain in full force and effect.

11.2 Replacement of any invalid prevision. The Parties agree, however, to replace, when possible, any provision declared invalid by a provision which shall reflect their initial intent, as objectively and consistently as possible and in accordance with the basic relationship existing between the Parties.

ART. 12- NO WAIVER

The non-enforcement of any provision contained in this Contract shall not be construed by the Seller as a waiver of the right to enforce the provision at another time under different circumstances and/or enforce other provisions of this Contract.

ART. 13 - FORCE MAJEURE

13.1 Force majeure events. In the event of an Act of God (including but not limited to a flood, earthquake, typhoon, epidemic or other natural calamity), war, civil war, or armed conflict or the serious threat of the same (including but not limited to a hostile attack, blockade, embargo, riot or insurrection), governmental order or regulation (including but not limited to prohibition or restriction of importation or exportation or the regulation or allocation of energy resources), labour disputes (including but not limited to a strike, slowdown, lockout or sabotage), or any other causes beyond the reasonable control of the parties hereto (including a fire, power failure, delay in the delivery of component and/or raw materials), neither Party shall be liable for any failure to perform any of its obligations hereunder.

13.2 Termination of the Contract due to force majeure. Any Party hereto shall have the right to terminate this Agreement upon prior written notice if either party is unable to fulfil its obligations under this Agreement due to any of the above-mentioned causes and such inability continues for a period of 6 (six) months.

ART. 14 - COMMUNICATION

14.1 Form of the communication. All correspondence, communications and documents between the Parties shall be in writing in English, Spanish or French (by e-mail, courier) and shall be sent to the last known address of the other Party.

14.2 Receiving of the communication. The communications sent by mail shall be deemed to be received after 7 (seven) days from the sending. The communications sent by e-mail shall be deemed to be received the same day of the sending.

ART.15 - INTELLECTUAL PROPERTY

15.1 Ownership of Intellectual Property. The Purchaser expressly recognizes the Seller's ownership of intellectual property rights relating to present Contract, by way of example and not limited to (brands, technical and commercial documentation related to samples, catalogues, schedules, ideas, photographic and audiovisual images etc.). Any use, reproduction, dissemination or representation of such document can occur exclusively following a written authorization written by the Seller and within the limits indicated in the same authorization. Such rights are protected by the Italian law and by International regulations.

15.2 Prohibition of anti-competitive behaviour. The Purchaser is prohibited from displaying anti-competitive behaviour of the intellectual property rights, which go against the aforementioned regulations and/or agreements between the Parties.

ART. 16 – MEDIATION AND JURISDICTION

16.1 Dispute resolution with Purchaser residing or having his registered office in the European Union (Mediation and Jurisdiction).

16.1.1 Mediation. Any dispute arising from the relationship between the Parties concerning the interpretation, execution, validity, and termination of this Contract shall be submitted to a mediation procedure conducted by a sole mediator, appointed, and proceeding in accordance with the Mediation Rules of the Mediation Centre for Europe, the Mediterranean and the Middle East having its seat in Strasbourg, which Rules are in force at the date of filing of the application for mediation.

16.1.2 Exclusive jurisdiction. In the event of a negative outcome of the conciliation attempt within forty-five (45) days from the filing of the conciliation request, or within any other term agreed upon by the Parties, the dispute will be exclusively referred to the Court of Verona (Italy).

16.1.3 Venue for mediation procedure. The venue for the mediation procedure is in Padua (Italy). The language of the procedure is English.

16.2 Dispute resolution with Purchaser residing or having its registered office in a Non-EU country (Mediation and Arbitration).

16.2.1 Mediation. Any dispute arising from the relationship between the Parties concerning the interpretation, execution, validity, and termination of this Contract shall be submitted to a mediation procedure conducted by a sole mediator, appointed, and proceeding in accordance with the Mediation Rules of the Mediation Centre for Europe, the Mediterranean and the Middle East having its seat in Strasbourg, which Rules are in force at the date of filing of the application for mediation.

16.2.2 Arbitration. In the event that the mediation is not successful, the arbitration proceedings shall be conducted in accordance with the Arbitration and Internal Rules of the European Court of Arbitration being part of the European Centre of Arbitration, having its seat in Strasbourg and of which adoption of this clause constitutes acceptance, by a sole arbitrator, who will be appointed, by the Central Registrar Strasburg.

16.2.3 Seat of mediation and arbitration, language and substantive law. The seat of the mediation and arbitration proceedings shall be Padua (Italy). The language of the proceedings shall be English. The applicable rules of substantive law shall be Italian law.

16.2.4 Emergency measures. In any case, the Parties reserve the right to seek the competent judicial authority in the event of the need to obtain emergency measures to protect their rights.

ART 17 - APPLICABLE LAW

The present Contract is governed by the United Nations Convention on the International Sales of Goods and, with respect to questions not covered by such Convention by the law of Italy.

ART. 18 - PRIVACY POLICY

In compliance with the Italian Personal Data Protection Code Legislative Decree No. 196/2003), and the General Data Protection Regulation (EU Regulation 2016/679) we inform you that your personal information will be recorded and handled for legal, fiscal and commercial purposes. The processing of your personal data may be performed also to send advertising materials or to carry out commercial communication activities related to PENTAX INDUSTRIES S.P.A. You are not obliged to give us your personal information. If you do not provide your personal information, it may be impossible for us to refer, respond to, or investigate your complaint or request. This provision does not apply to the processing of personal data performed to send advertising materials to carry out commercial communication activities. We may share your information with our employees, contractors acting on our behalf, consultants, any public or private authority that must access your data, who are subject to confidentiality agreements, only for the abovementioned purposes. Your data may be disseminated through our web site or our publications for commercial reasons. The abovementioned collection and handling of information, which may be automatically processed, will be made using those tools as are appropriate to guarantee its security and confidentiality. The collection and handling of your personal information will run for a period of ten (10) years after the termination of the contractual relationship. After that period, the information will be erased. You are entitled to the rights as per articles 15-22 of EU Regulation 2016/679 and you may access your personal information to correct, update, rectify, make anonymous, integrate, cancel and/or block it. The Data Controller is PENTAX INDUSTRIES S.P.A.

NOTES

NOTES

COMPANY WITH QUALITY, ENVIRONMENT, HEALTH
AND SAFETY MANAGEMENT CERTIFIED SYSTEMS
UNI EN ISO 9001: Certificate No. 50 100 3634
UNI EN ISO 14001: Certificate No. 50 100 12552
UNI ISO 45001: Certificate No. 50 100 14960

50Hz

FORAS WATER PUMPS

registered trademark of

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