

60Hz



GENERAL CATALOGUE

Edition 2023

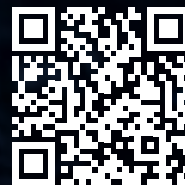
www.pentax-pumps.it

Where there's water there's Pentax



PENTAX s.p.a.

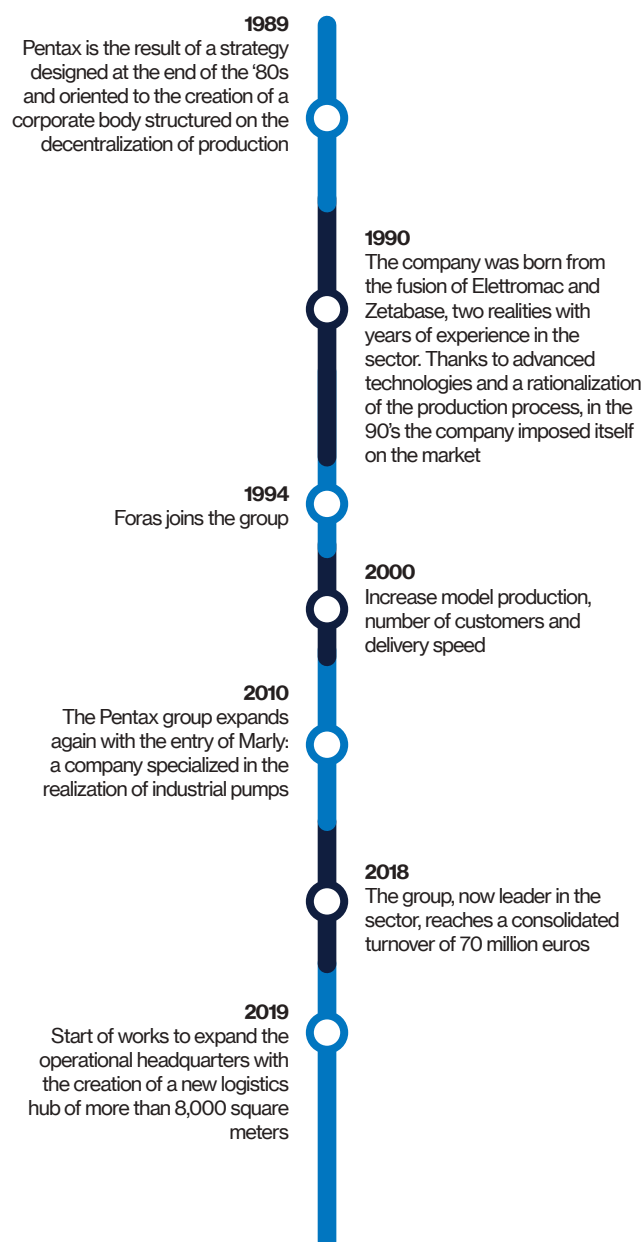
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www.pentax-pumps.it





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.



MISSION

After more than **20 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 $MEI \geq 0,70$ ».

«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.









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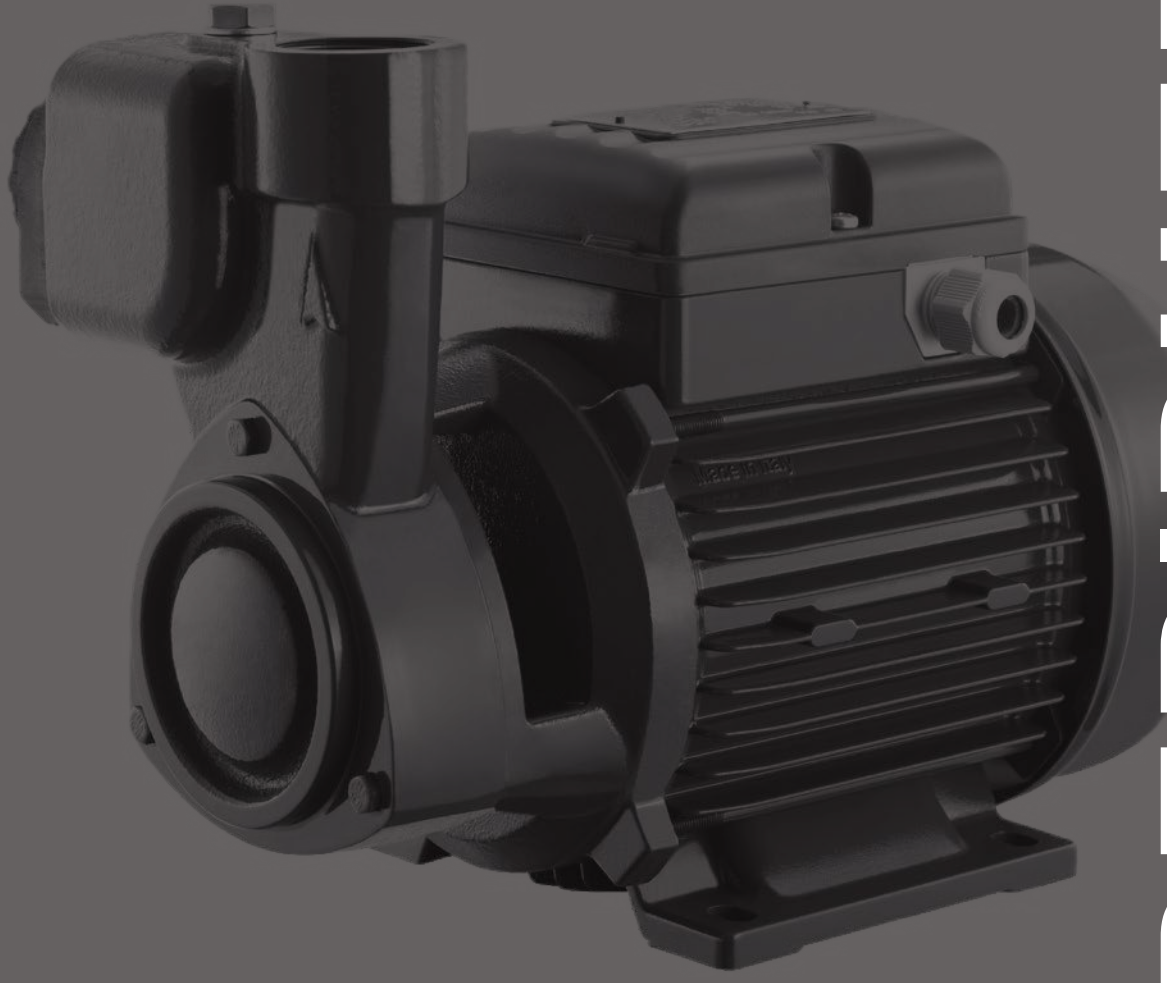


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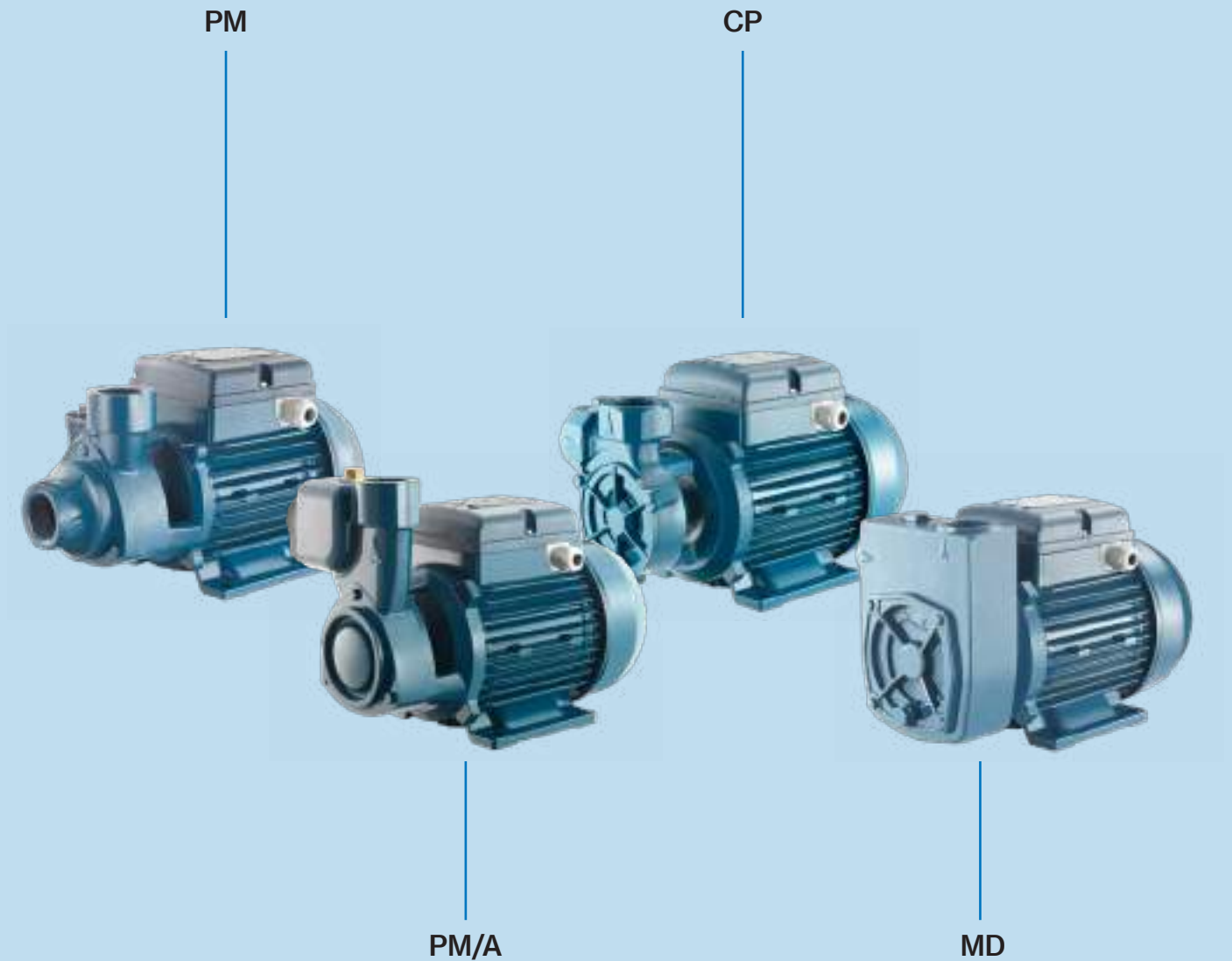
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PERIPHERALS

PERIPHERAL PUMPS

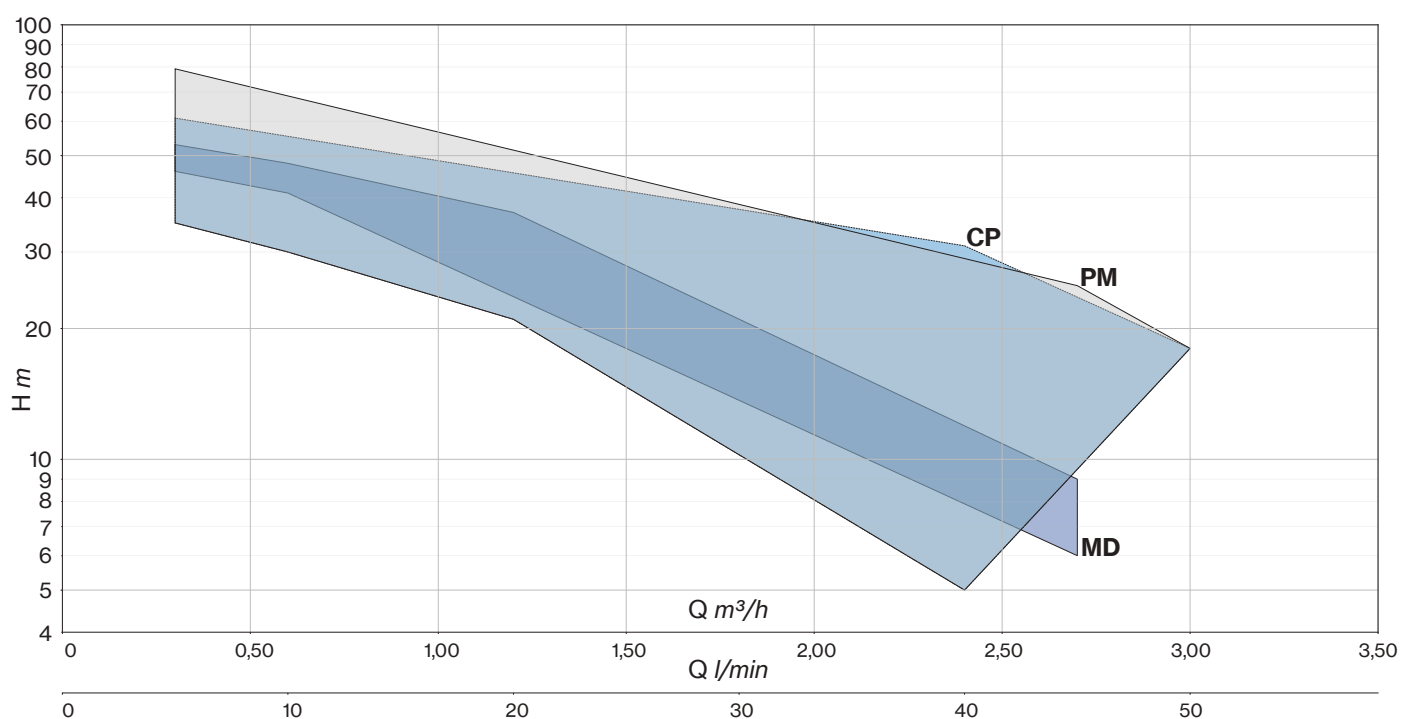


Range of peripheral and liquid ring type positive displacement pumps; they are characterized by the high ratio between the performances offered and the power required.

Applications:

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

PERIPHERAL PUMPS





PM



PM A

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

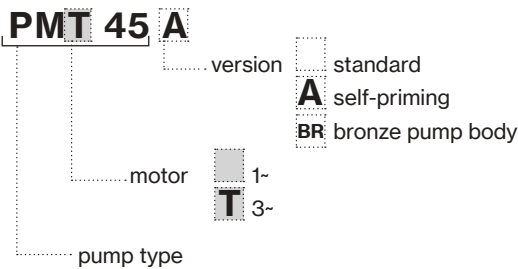
Construction features

Pump body	cast iron, bronze (45BR)
Motor bracket	cast iron; cast iron or bronze (45BR)
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar (45) max 8 bar (65, 80) max 9 bar (90)

Motor

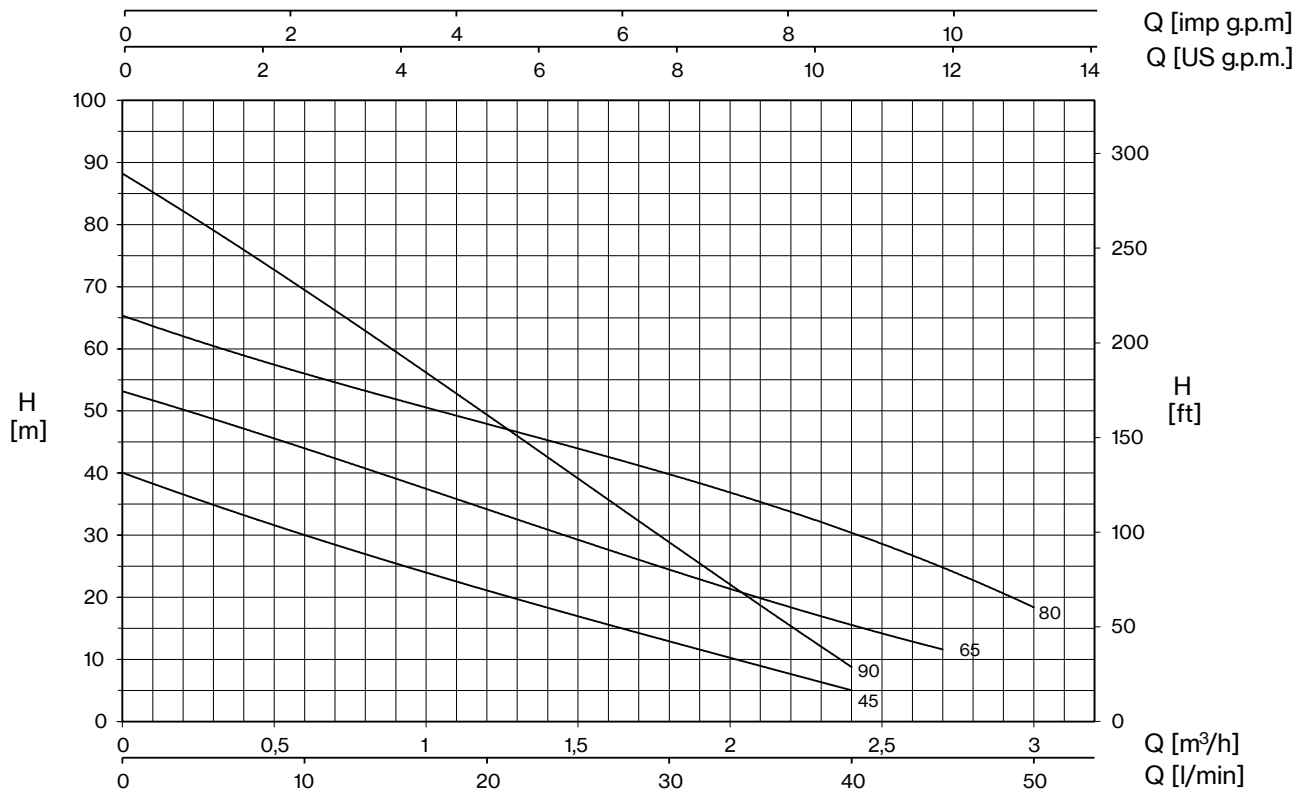
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
PM 45	4,6
PM 80	10,4
PM 90	11,2

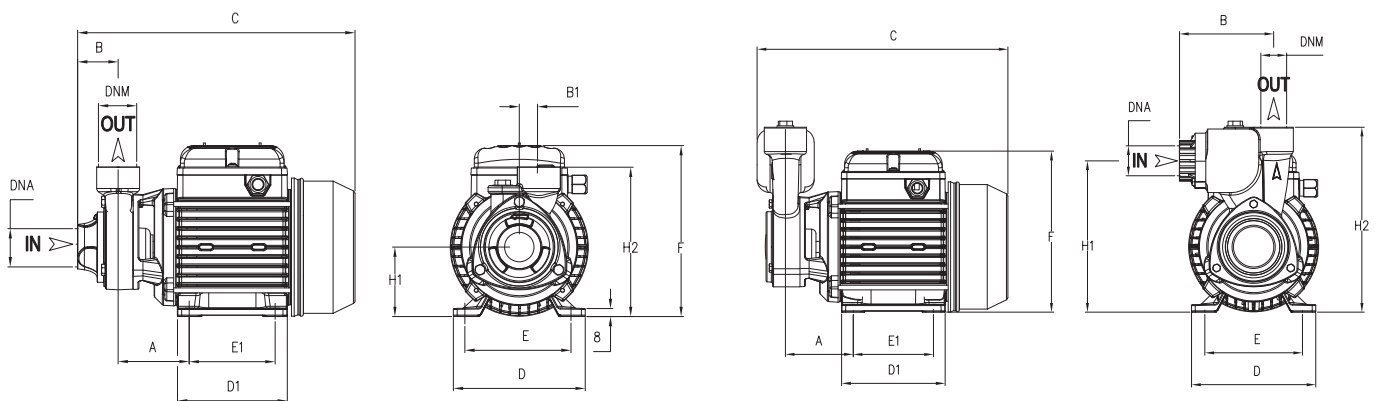


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
PM 45(BR)	85×110×170	198	85×110×190	220
	80×120×170	207	80×120×190	230
PM 45A PM 65A PM 80-90	80×110×170	105	85×110×190	135
			85×120×170	136
PM 65	80×120×160	171	80×120×190	190
	85×100×160	180	85×100×190	200
PM 80A	80×120×145	102	80×120×190	136





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	0,3	0,6	1,2	1,8	2,4	2,7	3
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	5	10	20	30	40	45	50
H (m)															
PM 45	PMT 45	0,5	0,37	0,5	0,5	2,3	1	40,0	35,0	30,0	21,0	13,0	5,0		
PM 45BR	PMT 45BR	0,5	0,37	0,5	0,5	2,3	1	40,0	35,0	30,0	21,0	13,0	5,0		
PM 45A	PMT 45A	0,5	0,37	0,5	0,5	2,3	1	40,0	35,0	30,0	21,0	13,0	5,0		
PM 65	PMT 65	0,7	0,5	0,9	0,9	4	1,7	53,1	48,8	44,1	33,8	24,7	15,5	11,6	
PM 65A	PMT 65A	0,7	0,5	0,9	0,9	4	1,7	53,1	48,8	44,1	33,8	24,7	15,5	11,6	
PM 80	PMT 80	1	0,74	1,1	1,1	5,2	2	65,0	61,0	56,0	48,0	39,0	31,0	25,1	18,0
PM 80A	PMT 80A	1	0,74	1,1	1,1	5,2	2	65,0	61,0	56,0	48,0	39,0	31,0	25,1	18,0
PM 90	PMT 90	1	0,74	1,2	1,1	5,6	2	88,2	79,2	69,3	49,5	28,8	8,8		



TYPE	DIMENSIONS (mm)																
	A	B	B1	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
PM 45	63	50	20	260	120	101	100	80	158	63	143	1" G	1" G	265	150	175	6,5
PM 45BR	63	50	20	260	120	101	100	80	158	63	143			265	150	175	7
PM 45A	63	89	20	240	120	101	100	80	158	150	184			300	170	195	7,5
PM 65	70	56	20	271	120	101	100	80	158	63	152,2			285	150	180	8,5
PM 65A	71,5	101	10	248	120	101	100	80	158	157	193			300	170	195	9
PM 80	71,5	50	20	294	135	112	112	89	172	71	160			300	170	195	10,5
PM 80A	71,5	101	10	271	135	112	112	89	172	165	201			290	170	230	11
PM 90	74,5	50	19	286	135	112	112	89	172	71	158			310	185	195	11





Peripheral positive displacement pumps with side suction for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required output; 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

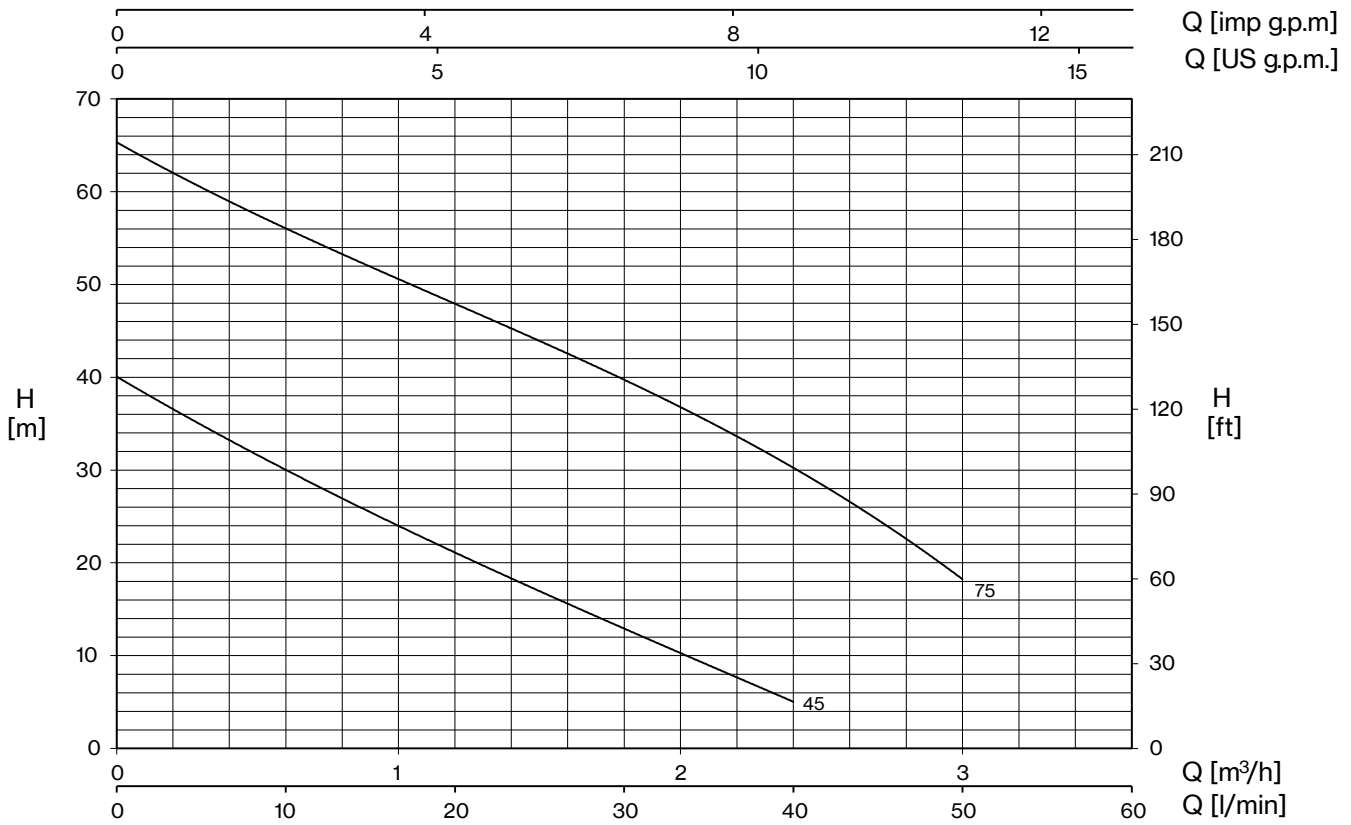
Motor

	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

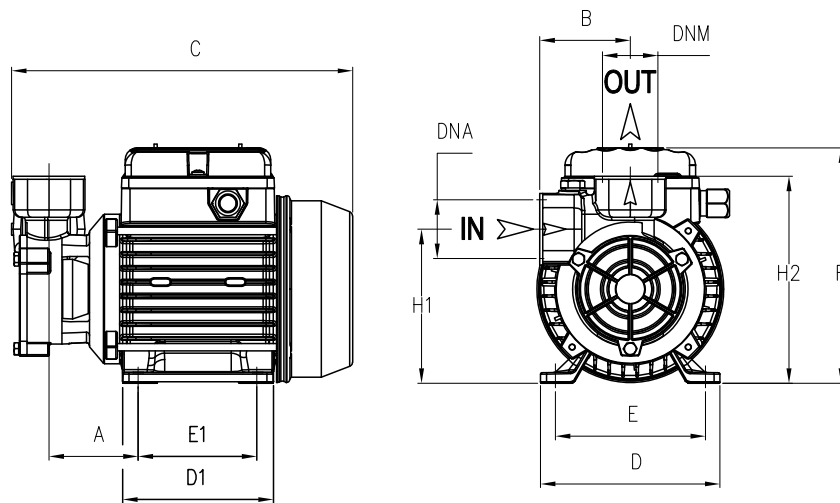
1~ 110V - 60Hz	
TYPE	I (A)
CP 45	4,6
CP 75	10,4

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CP 45	85×110×170	207	85×110×190	220
	80×120×170	198	80×120×190	230
CP 75	85×110×170	105	85×110×190	135
			80×120×170	136





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)					
1~	3~					1~	3~	0,3 5	0,6 10	1,2 20	1,8 30	2,4 40	3 50
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)					
CP 45	CPT 45	0,5	0,37	0,5	0,5	2,3	1	35,0	30,0	21,0	13,0	5,0	
CP 75	CPT 75	1	0,74	1,1	1,13	5,2	2	61,0	56,0	48,0	39,0	31,0	18,0



TYPE	DIMENSIONS (mm)															
	A	B	C	D	D1	E	E1	F	H1	H2	DNA	DNM	I	L	M	
CP 45	67	60	235	120	101	97	80	165	105	140	1" G	1" G	265	145	165	5,7
CP 75	71,5	60	263	135	112	112	89	172	124	156	1" G	1" G	310	185	195	9,2



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

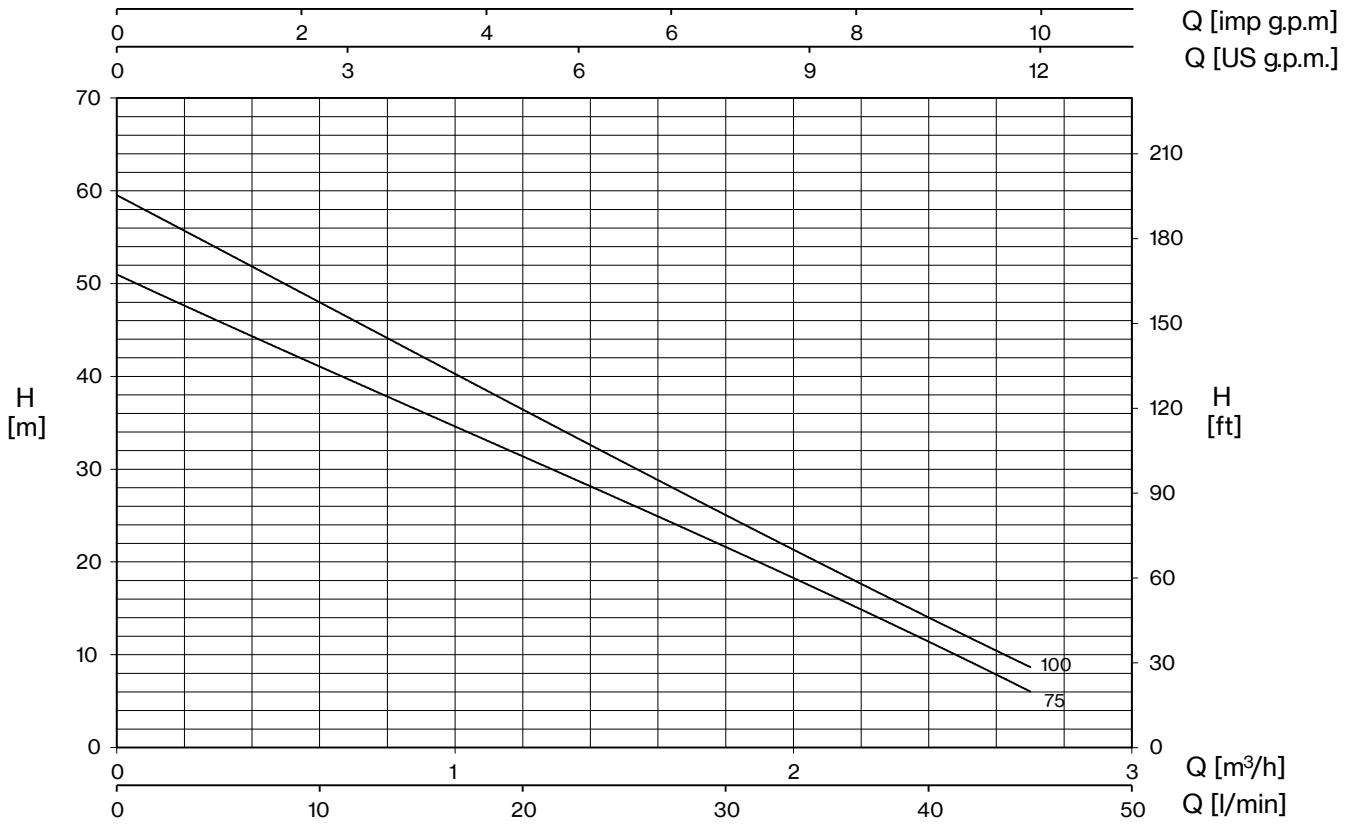
Motor

	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

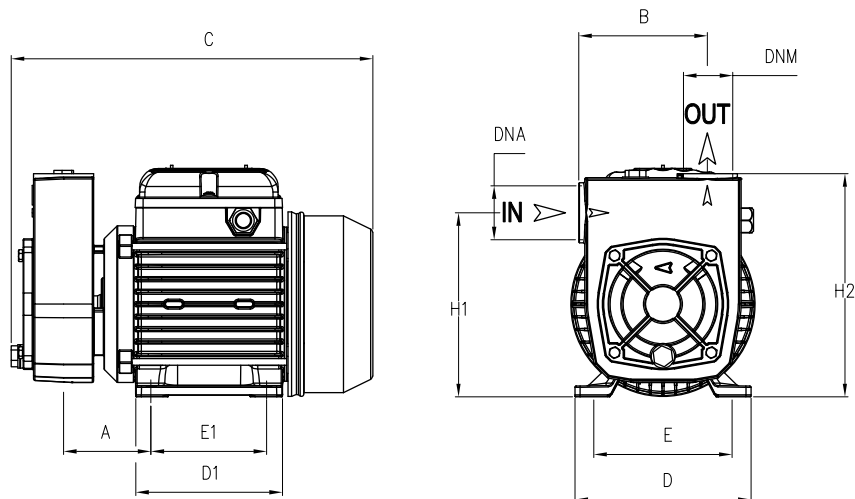
1~ 110V - 60Hz	
TYPE	I (A)
MD 75	10,0
MD 100	10,8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
MD 75 -100	85×110×170	105	85×110×190	135
			80×120×170	136





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)					
1~	3~					1~	3~	0,3 5	0,6 10	1,2 20	1,8 30	2,4 40	2,7 45
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)					
MD 75	MDT 75	0,8	0,59	1,03	0,94	5	1,7	46,0	41,0	31,5	21,5	11,5	6,0
MD 100	MDT 100	1	0,74	1,17	0,98	5,4	2,1	53,0	48,0	37,0	25,0	13,5	9,0



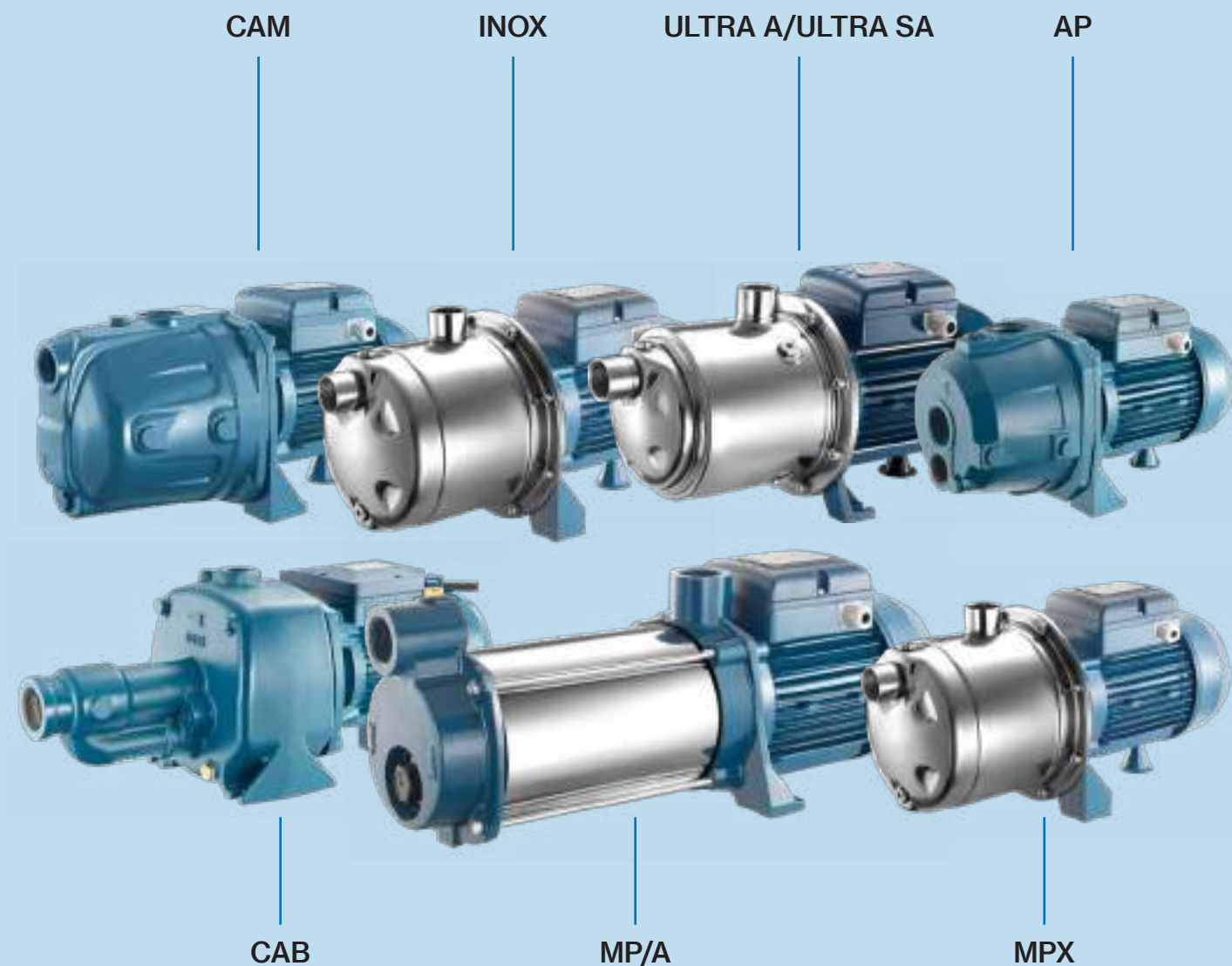
TYPE	DIMENSIONS (mm)											M L			Kg
	A	B	C	D	D1	E	E1	H1	H2	DNA	DNM	I	L	M	
MD 75	70	98.5	270	135	112	112	89	141	170	1" G	1" G	310	185	195	11,1
MD 100	70	98.5	270	135	112	112	89	141	170	1" G	1" G	310	185	195	11,8





SELF-PRIMING

SELF-PRIMING PUMPS



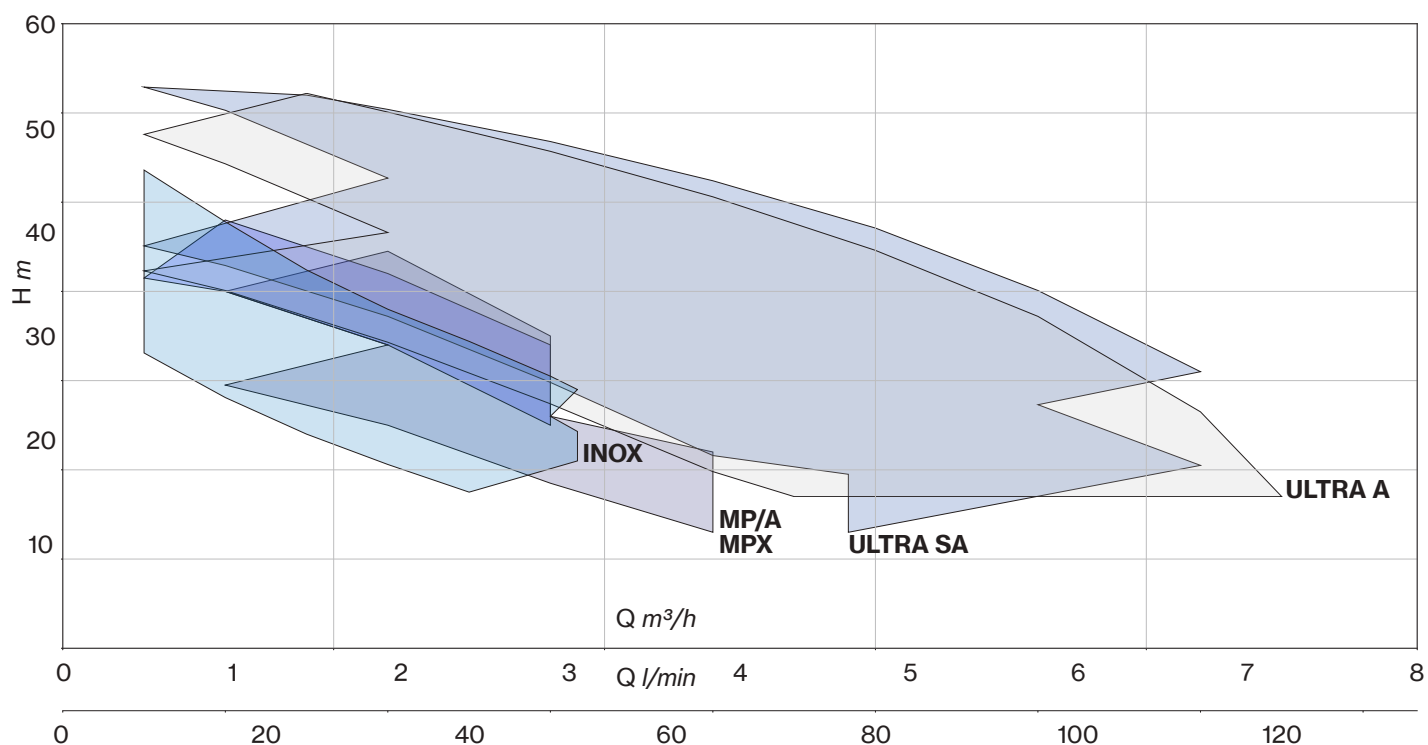
Wide range of single and multistage self-priming pumps, characterized by the fact of being able to handle liquids in the presence of dissolved gases.

Applications:

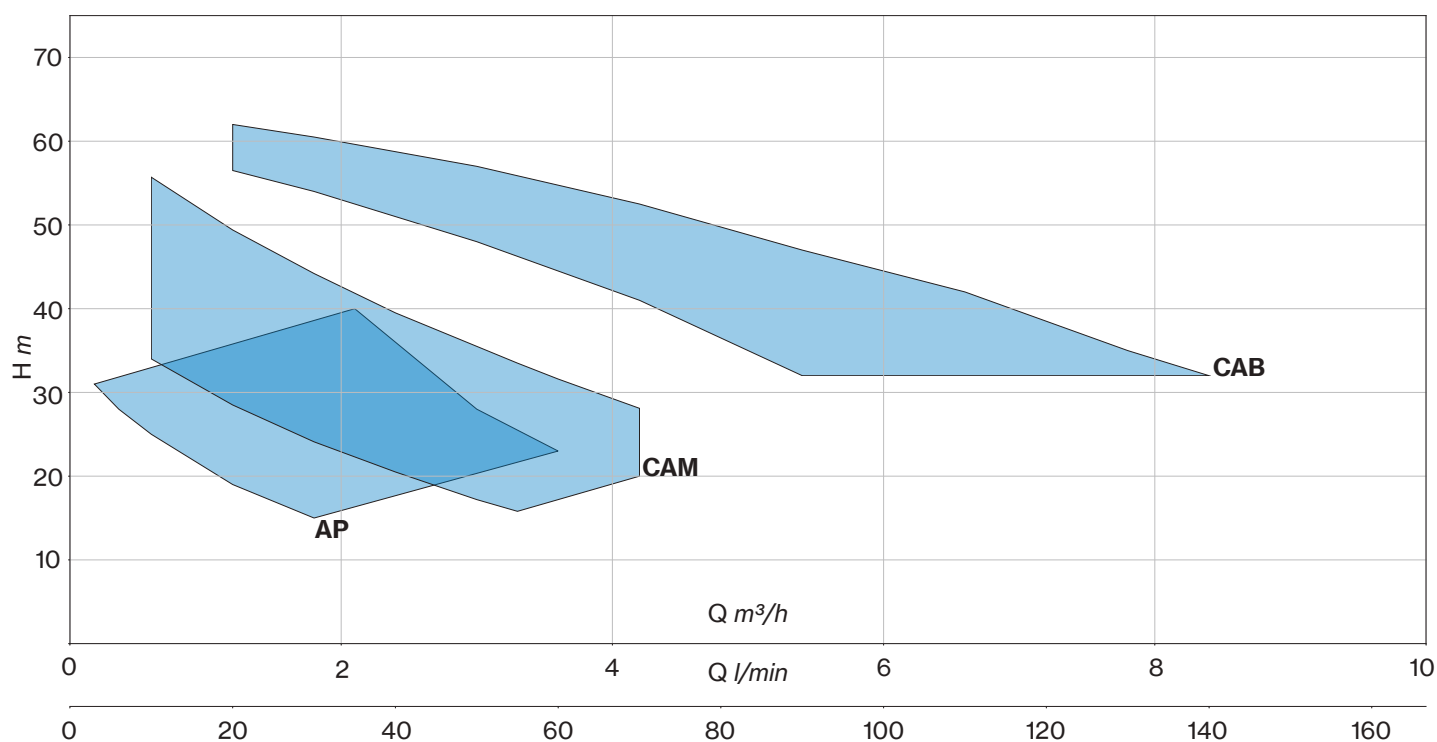
- Water supply
- Pressurization
- Liquid transfer
- Irrigation and tank emptying
- Small automatic systems of pressure increase

SELF-PRIMING PUMPS

Stainless steel



Cast iron





CAM 50R÷140



CAM 150÷300



1~ 110V - 60Hz	
TYPE	I (A)
CAM 50	6,4
CAM 75	7,4
CAM 100N	10,2
CAM 120	10,8

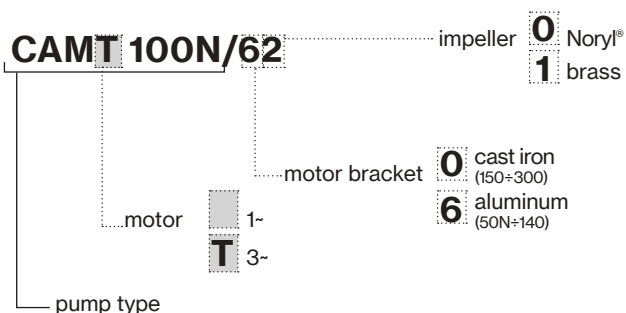
Self-priming centrifugal pump for water supplies (even if mixed with gas) in small household systems, connected to autoclave tanks, for transferring liquids and emptying tanks; also used for gardening.

Construction features

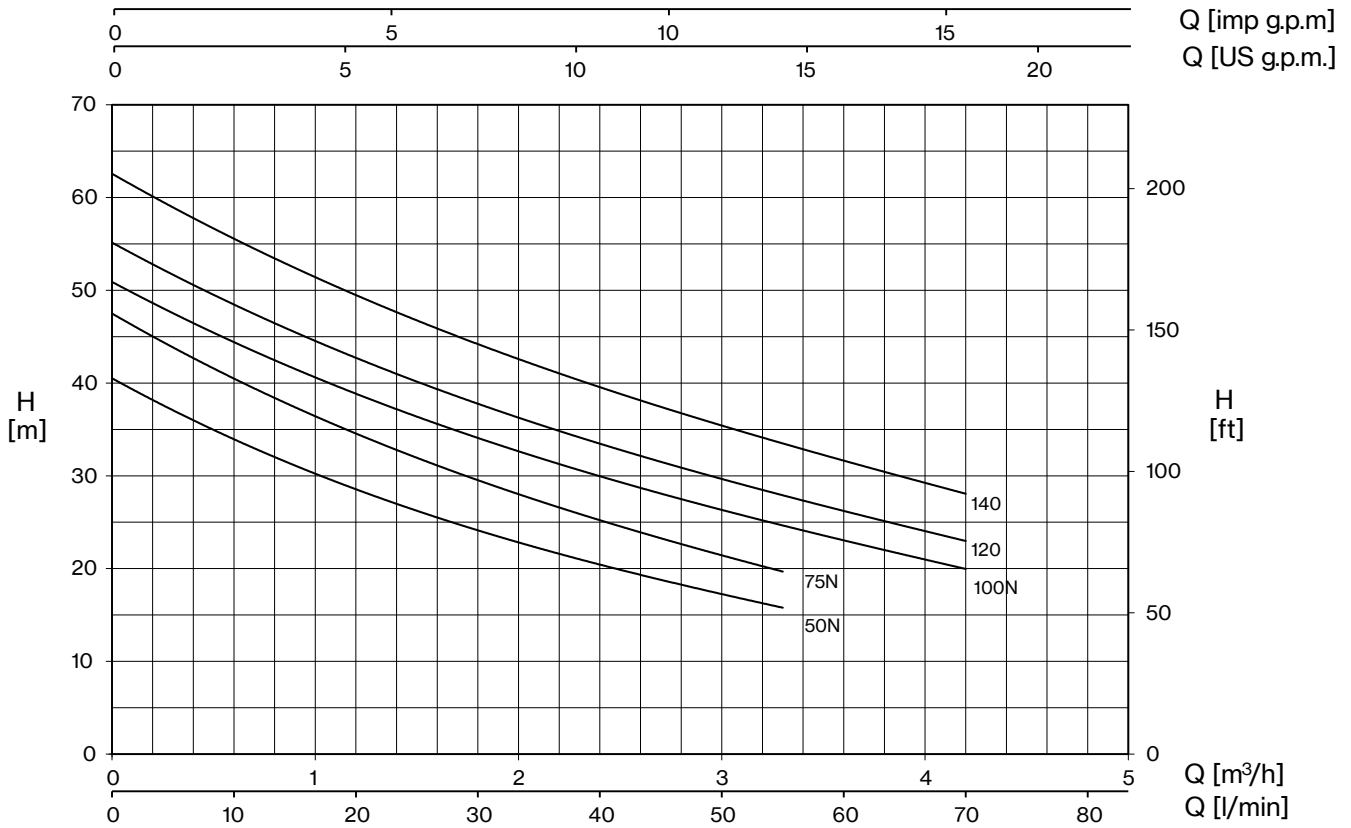
Pump body	cast iron
Motor bracket	aluminum (50N÷140) cast iron (150÷300)
Impeller	Noryl®, brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 6 bar (50N÷75N) max 7 bar (100N÷140) max 8 bar (150÷300)

Motor

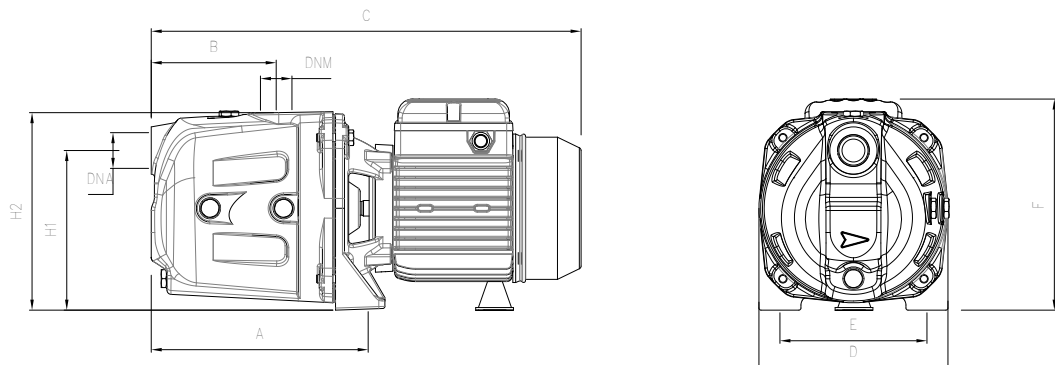
	3~ 220/380V-60Hz
2 Poles induction motor	1~ 220V-60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4



TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CAM 50N-140	85×110×145	60	85×110×190	80
CAM 50N-140			80×120×190	64
CAM 150-300	80×120×145	35	80×120×180	49

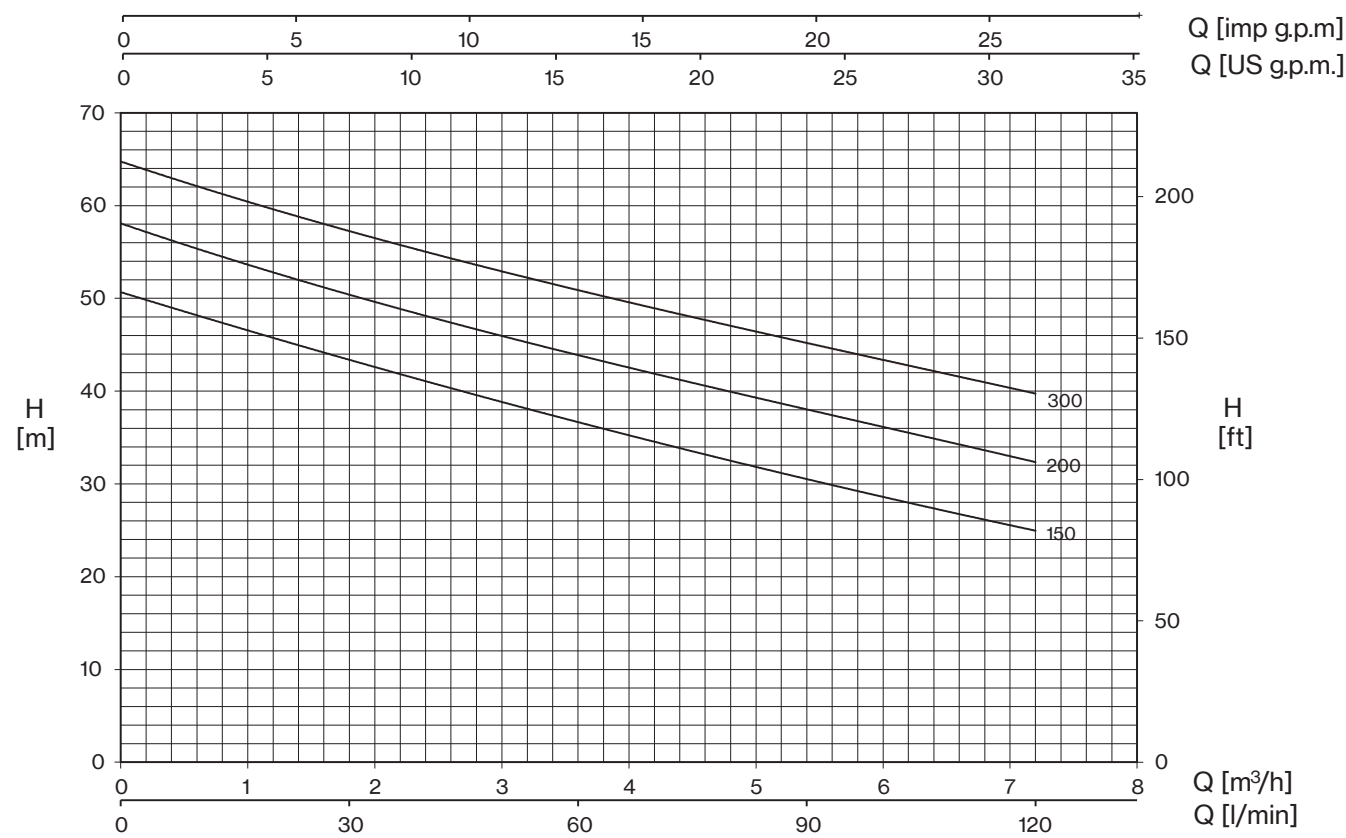


TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	0,6	1,2	1,8	2,4	3	3,3	3,6	4,2
		(HP)	(kW)	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	10	20	30	40	50	55	60	70
H (m)																
CAM 50N	CAMT 50N	0,6	0,44	0,7	0,67	3,2	1,4	40,5	34,0	28,5	24,1	20,5	17,2	15,8		
CAM 75N	CAMT 75N	0,8	0,59	0,82	0,78	3,7	1,5	47,5	40,5	34,5	29,6	25,2	21,4	19,7		
CAM 100N	CAMT 100N	1	0,74	1,04	0,92	5,1	1,7	50,9	44,3	38,9	34,1	30,1	26,3	24,6	23,0	20,0
CAM 120	CAMT 120	1,2	0,88	1,14	1,07	5,4	1,9	55,1	48,5	42,6	37,8	33,5	29,7	27,9	26,2	23,0
CAM 140	CAMT 140	1,5	1,1	1,3	1,25	6,6	2,5	62,5	55,7	49,4	44,2	39,5	35,5	33,5	31,6	28,1

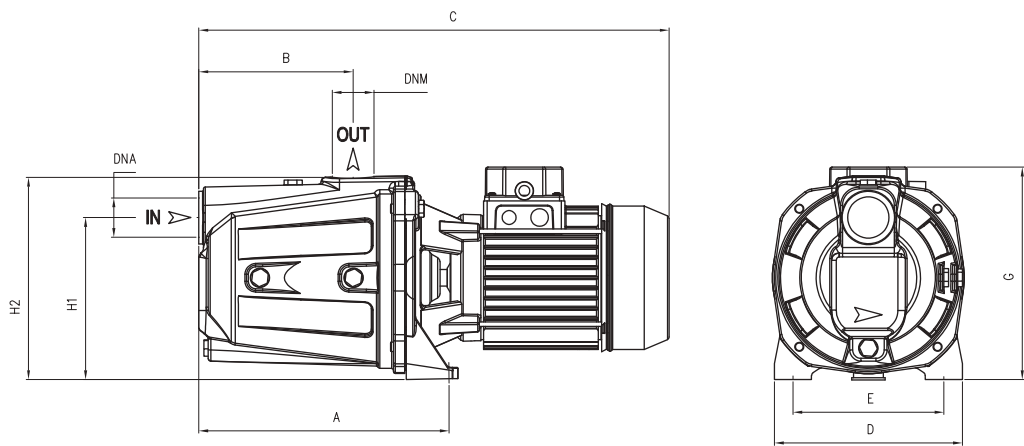


TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
CAM 50N	214	119	410	180	140	195	150	185	1" G	1" G	440	194	215	12
CAM 75N	214	119	410	180	140	195	150	185			440	194	215	12,5
CAM 100N	214	119	410	180	140	195	150	185			440	194	215	14
CAM 120	214	119	410	180	140	195	150	185			440	194	215	14,5
CAM 140	214	119	410	180	140	195	150	185			440	194	215	15

CAM



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	1,2	2,4	3,6	4,8	6	7,2
								0	20	40	60	80	100	120
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
CAM 150	CAMT 150	1,5	1,1	1,9	1,8	8,2	3,4	50,7	45,7	41,0	36,8	32,5	28,5	25,0
CAM 200	CAMT 200	2	1,5	2,2	2,1	9,8	3,9	58,1	52,8	48,0	44,0	40,0	36,0	32,4
-	CAMT 300	3	2,2	-	2,5	-	4,8	64,8	59,5	55,0	51,0	47,1	43,2	39,8



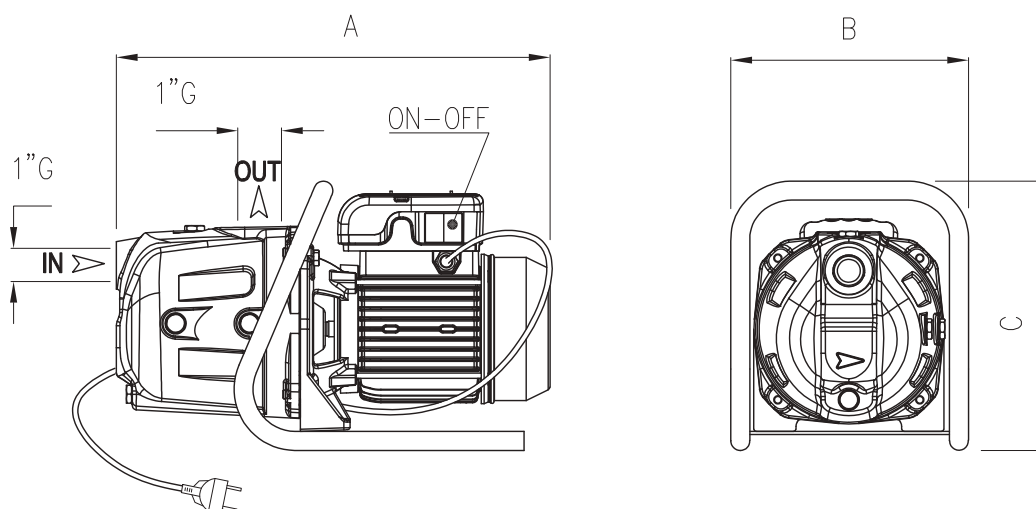
TYPE	DIMENSIONS (mm)														Kg
	A	B	C	D	E	F	G	H1	H2	DNA	DNM	I	L	M	
CAM 150	269,6	167	506	203	165	220	231,5	175	220			535	235	230	26
CAM 200	269,6	167	506	203	165	220	231,5	175	220	1" ½ G	1" ¼ G	535	235	230	27
CAM 300	269,6	167	506	203	165	220	231,5	175	220			535	235	230	26,5



CAM (Garden version)

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

TYPE	P2		P1 (kW)	Pipe		Performance	
1~	HP	kW	1~	Suction ("G)	Delivery ("G)	Q (l/min)	H (m)
CAM 50N	0,6	0,44	0,7	1	1	10-55	34,0-15,8
CAM 75N	0,8	0,59	0,82	1	1	10-55	40,5-19,7
CAM 100N	1	0,74	1,06	1	1	10-70	44,3-20,0
CAM 120	1,2	0,88	1,14	1	1	10-70	48,5-23
CAM 140	1,5	1,1	1,3	1	1	10-70	55,7-28,1



TYPE	DIMENSIONS (mm)		
	A	B	C
CAM 50N	410	266	252
CAM 75N	410	266	252
CAM 100N	410	266	252
CAM 120	410	266	252
CAM 140	410	266	252



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.

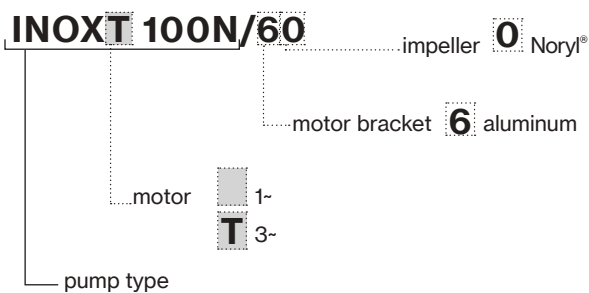
Construction features

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

Motor

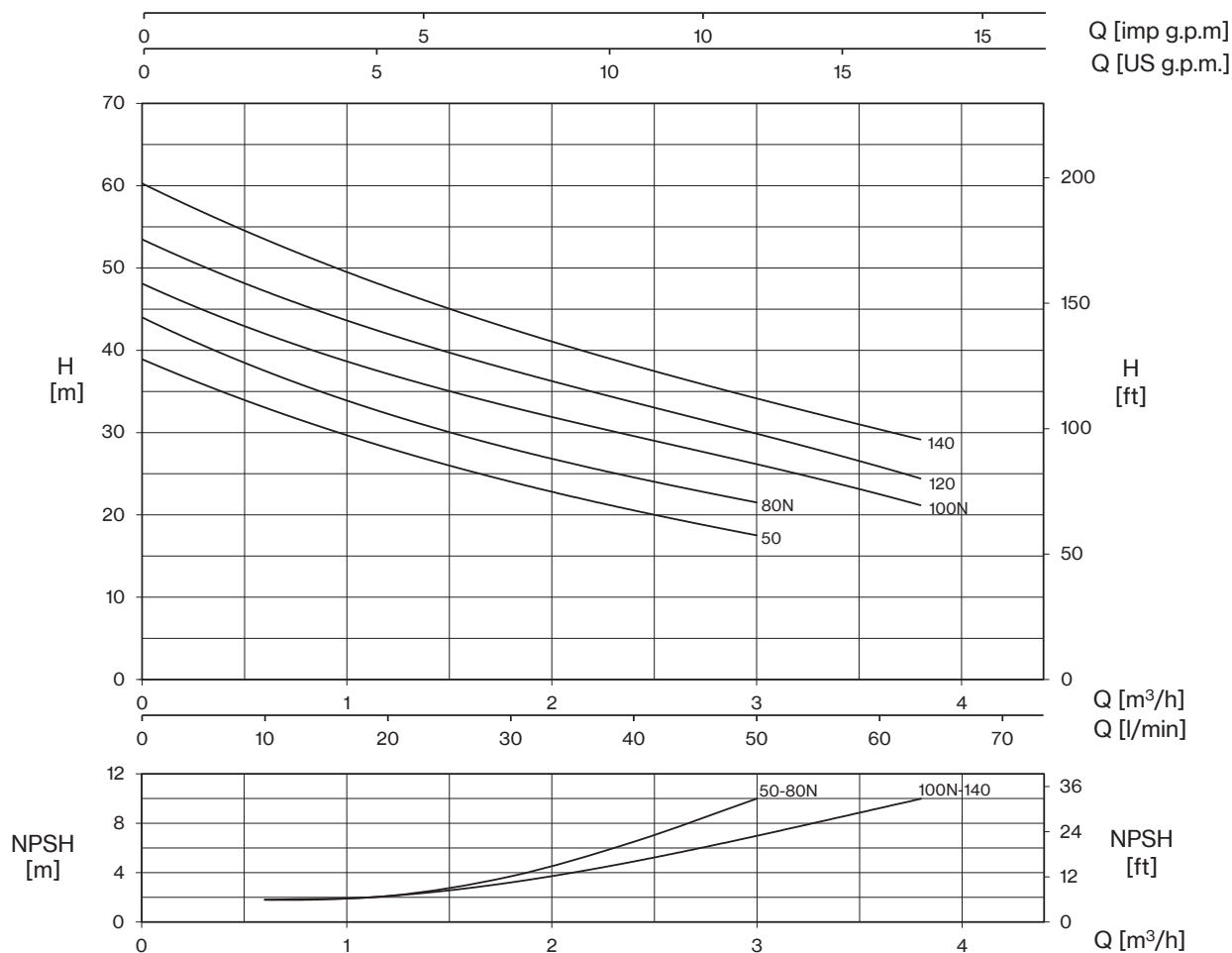
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
INOX 50	6,4
INOX 80N	7,0
INOX 100N	9,4
INOX 120	10,4

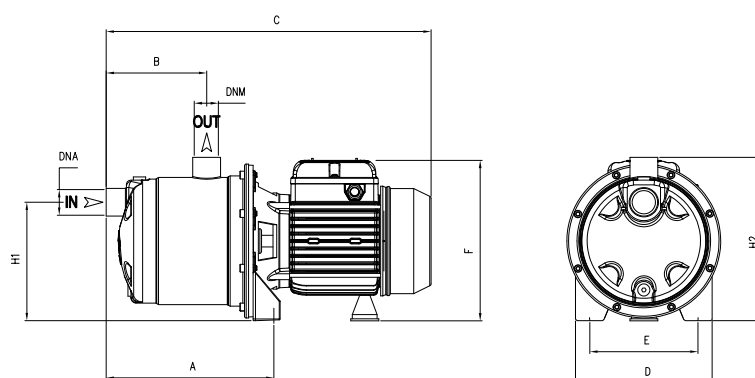


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
INOX 50-140	85×110×150	60	85×110×190	80





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	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	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)							
INOX 50	INOXT 50	0,6	0,44	0,68	0,63	3,2	1,3	38,9	33,1	28,1	24,0	20,6	17,5		
INOX 80N	INOXT 80N	0,8	0,59	0,77	0,76	3,5	1,5	44,0	37,5	32,3	28,0	24,6	21,5		
INOX 100N	INOXT 100N	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
INOX 120	INOXT 120	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	24,3
INOX 140	INOXT 140	1,5	1,1	1,3	1,23	6	2,5	60,2	53,6	47,8	42,4	38,0	34,4	30,5	29,0



TYPE	DIMENSIONS (mm)										M L			Kg
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
INOX 50	208	128	410	175	140	215	153	210	1" G	1" G	430	210	235	8,5
INOX 80N	208	128	410	175	140	215	153	210			430	210	235	9,5
INOX 100N	208	128	410	175	140	215	153	210			430	210	235	10,5
INOX 120	208	128	410	175	140	215	153	210			430	210	235	11
INOX 140	208	128	410	175	140	215	153	210			430	210	235	11,5



INOX (Garden version)

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

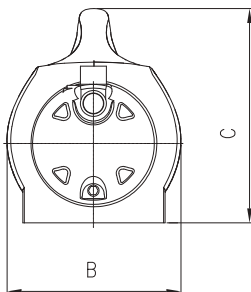
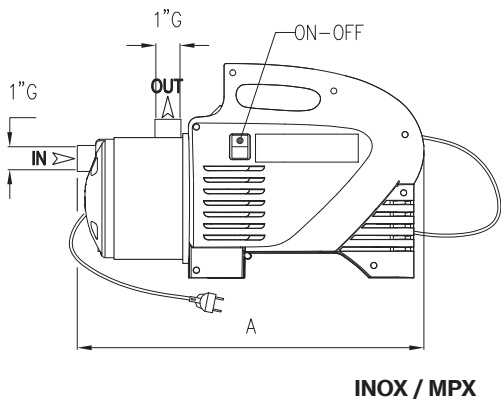
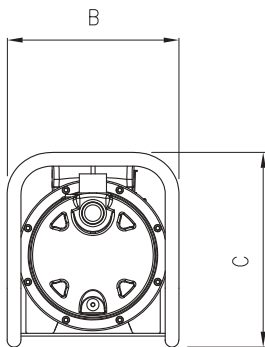
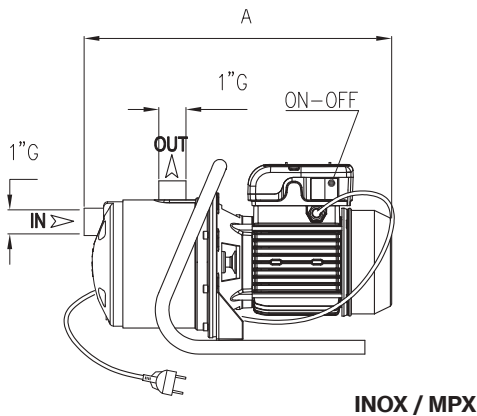


INOX



INOX BOX

TYPE	P2		P1 (kW)	Pipe		Performance	
1~	HP	kW	1~	Suction ("G)	Delivery ("G)	Q (l/min)	H (m)
INOX 100N	1	0,74	1,04	1	1	10-63,3	42,3-21,0



TYPE	DIMENSIONS (mm)		
	A	B	C
INOX 100N	410	175	285
INOX 100N BOX	429	209	287





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

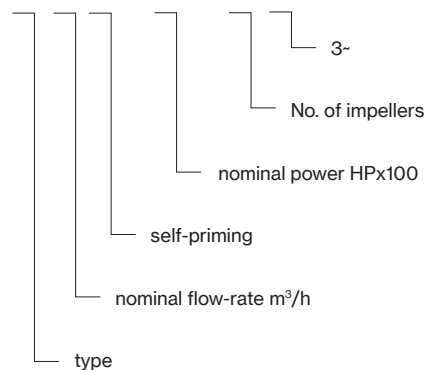
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	Noryl®
Mechanical seal	ceramic-graphite-EPDM
Motor shaft	stainless steel AISI 303
Liquid temperature	-5 ÷ +35 °C
Operating pressure	max 7 bar

Motor

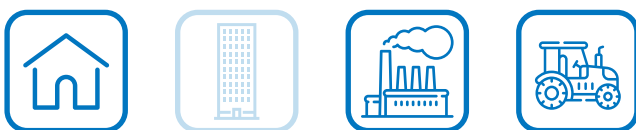
	3~ 220/380V-60Hz
2 poles induction motor	1~ 220V-60Hz (with thermal protection up to 1.85 kW)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
U 3A-80/3	9,8
U 3A-120/4	11,8
U 5A-120/3	13

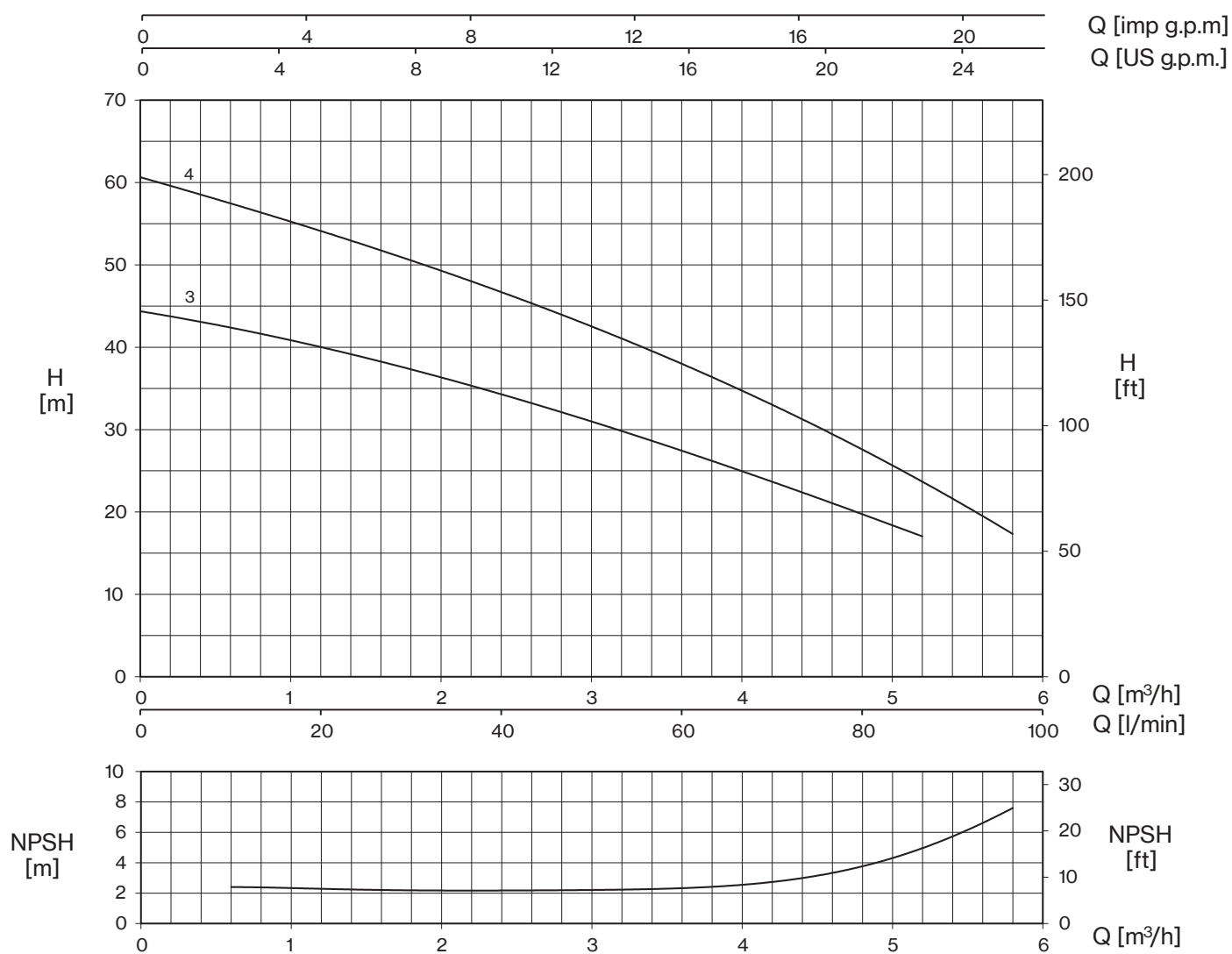
U 3 A - 120/4 T



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3A-80/3	85x110x160	70	85x110x185	80
U 3A-120/4	80x120x150	42	80x120x175	49
U 5A-120/3	80x120x150	42	80x120x175	49
U 5A-180/4	80x120x150	42	80x120x175	49

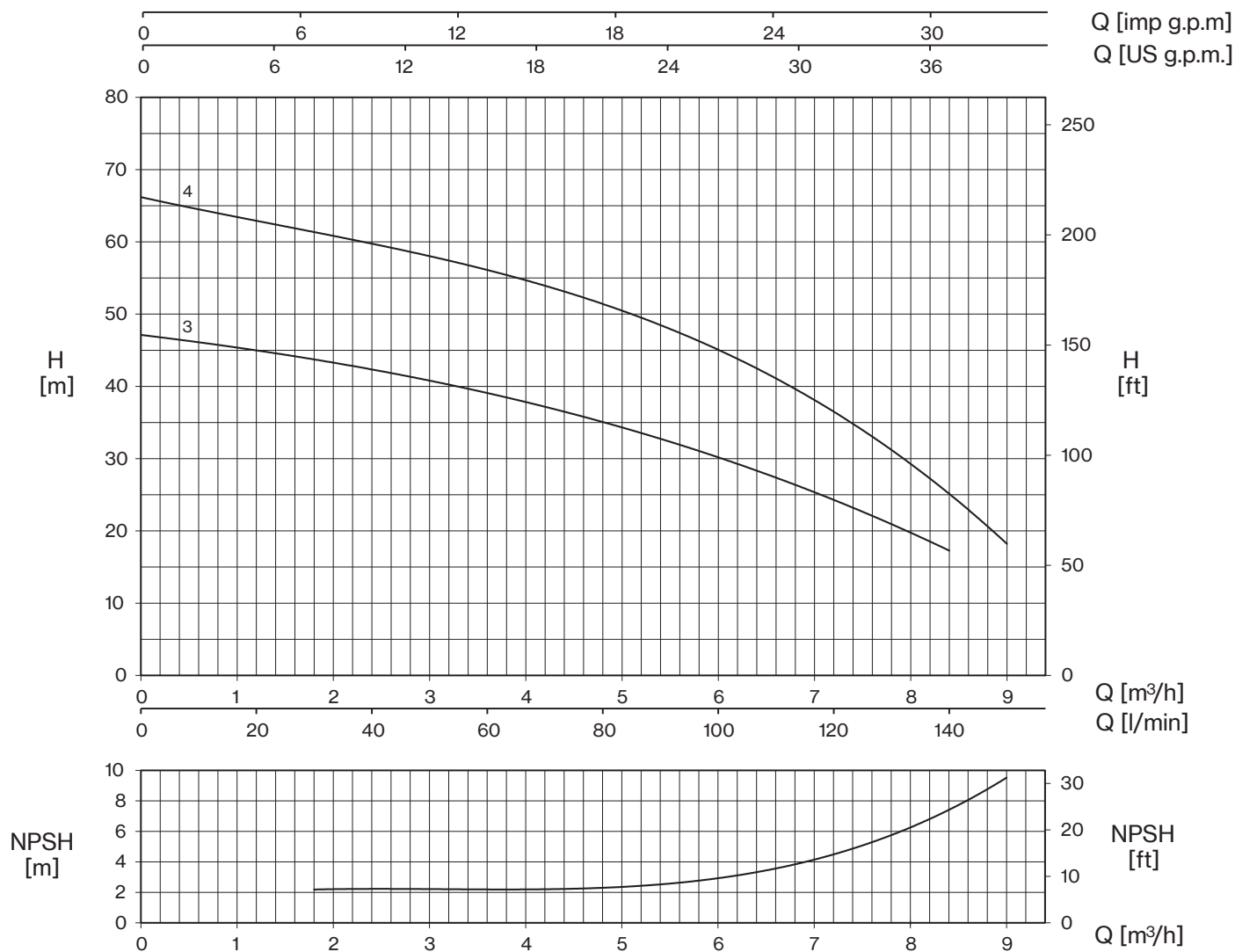


ULTRA 3A



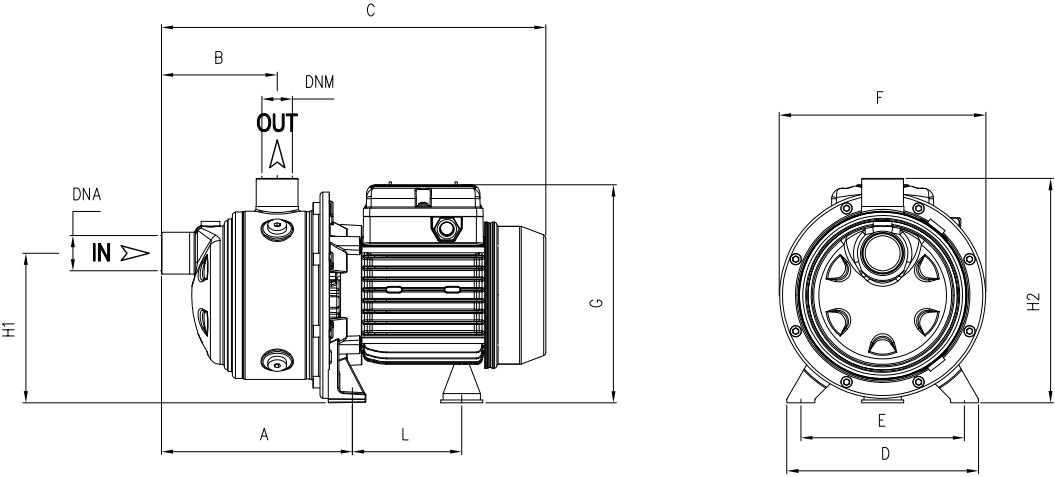
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	0,6	1,2	2,4	3,6	4,8	5,4	5,8
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	10	20	40	60	80	90	100
								H (m)							
U 3A-80/3	U 3A-80/3T	0,8	0,6	1	0,9	4,9	1,7	44,4	42,3	40,1	34,3	27,4	19,8	17,0	
U 3A-120/4	U 3A-120/4T	1,2	0,9	1,25	1,2	5,9	2,5	60,5	57,6	54,3	46,6	37,7	27,8	22,0	17,0





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	1,8	2,4	3,6	4,8	6	7,2	8,4	9
								0	30	40	60	80	100	120	140	150
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
U 5A-120/3	U 5A-120/3T	1,2	0,9	1,4	1,35	6,5	2,7	47,0	44,0	42,5	38,9	34,7	30,1	24,9	17,0	
U 5A-180/4	U 5A-180/4T	1.8	1.3	1.9	1.75	9	3.3	65.8	62.2	60.1	55.7	50.6	44.6	37.2	26.5	17.0

ULTRA A



TYPE	DIMENSIONS (mm)												
	A	B	C	D	E	F	G	L	H1	H2	DNA		DNM
U 3A-80/3	214,8	151	404	164	140	178	203	104,7	128	192	1"G	1"G	NA
U 3A-120/4	238,8	175	428	164	140	178	203	104,7	128	192			11,5
U 5A-120/3	214,8	151	404	164	140	178	203	104,7	128	192			11
U 5A-180/4	238,8	175	489	164	140	201	211	128,2	134	198			14,5





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

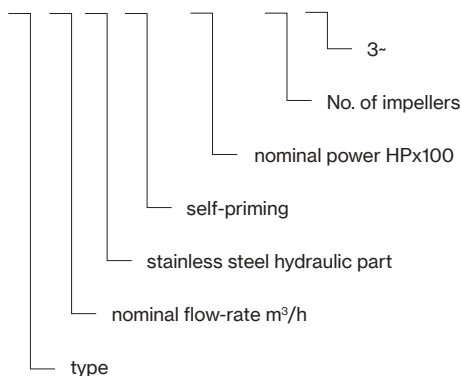
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM
Motor shaft	stainless steel AISI 303
Liquid temperature	-15 ÷ +110 °C
Operating pressure	max 7 bar

Motor

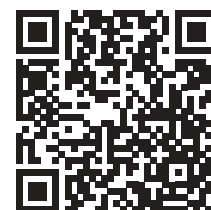
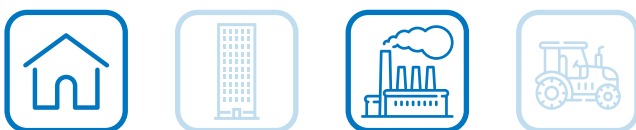
	3~ 220/380V-60Hz
2 poles induction motor	1~ 220V-60Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
U 3SA-80/3	9,8
U 3SA-120/4	11,8
U 5SA-120/3	13

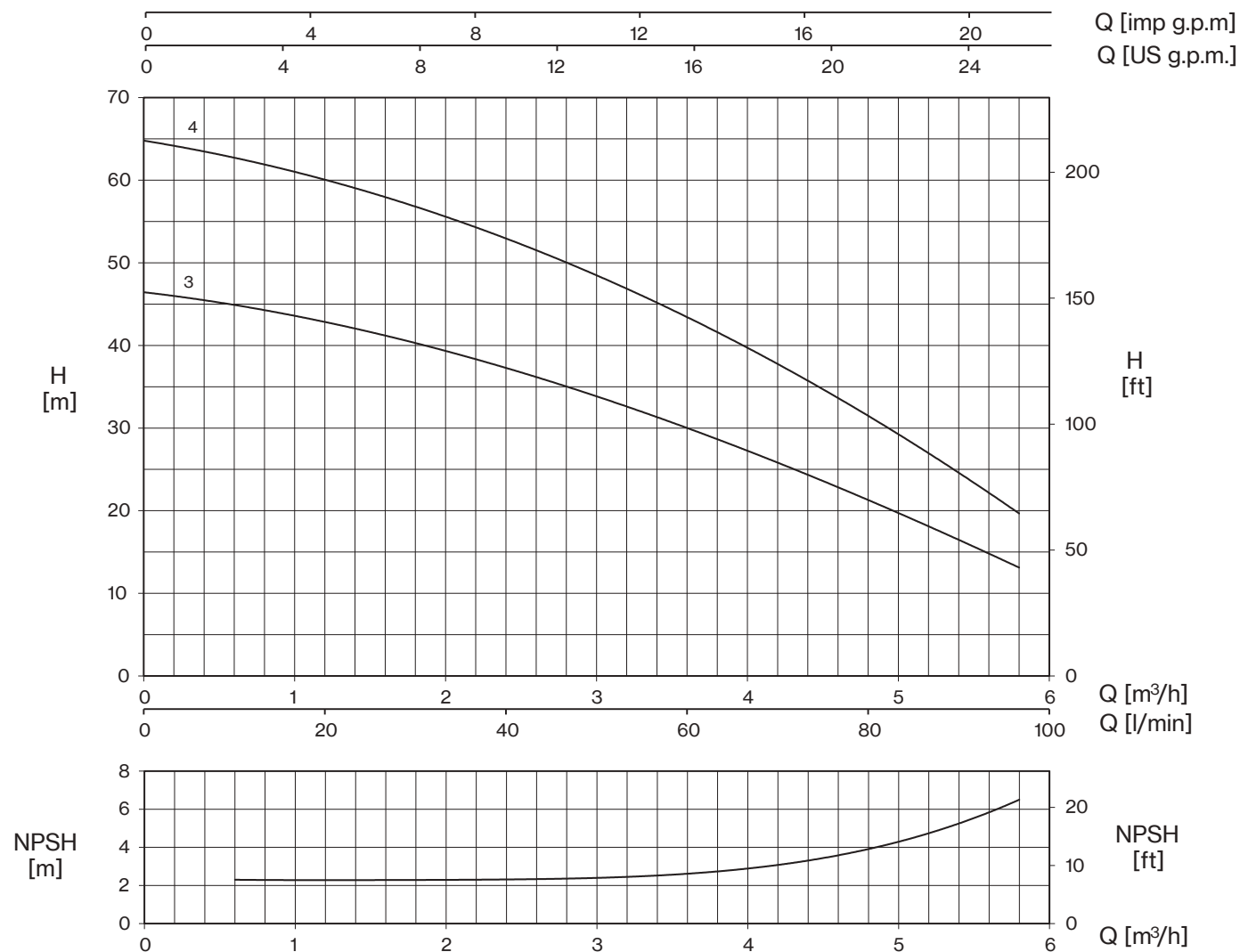
U 3 S A - 120/4 T



LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3SA-80/3	85x110x160	70	85x110x185	80
U 3SA-120/4	80x120x150	42	80x120x175	49
U 5SA-120/3	80x120x150	42	80x120x175	49
U 5SA-180/4	80x120x150	42	80x120x175	49

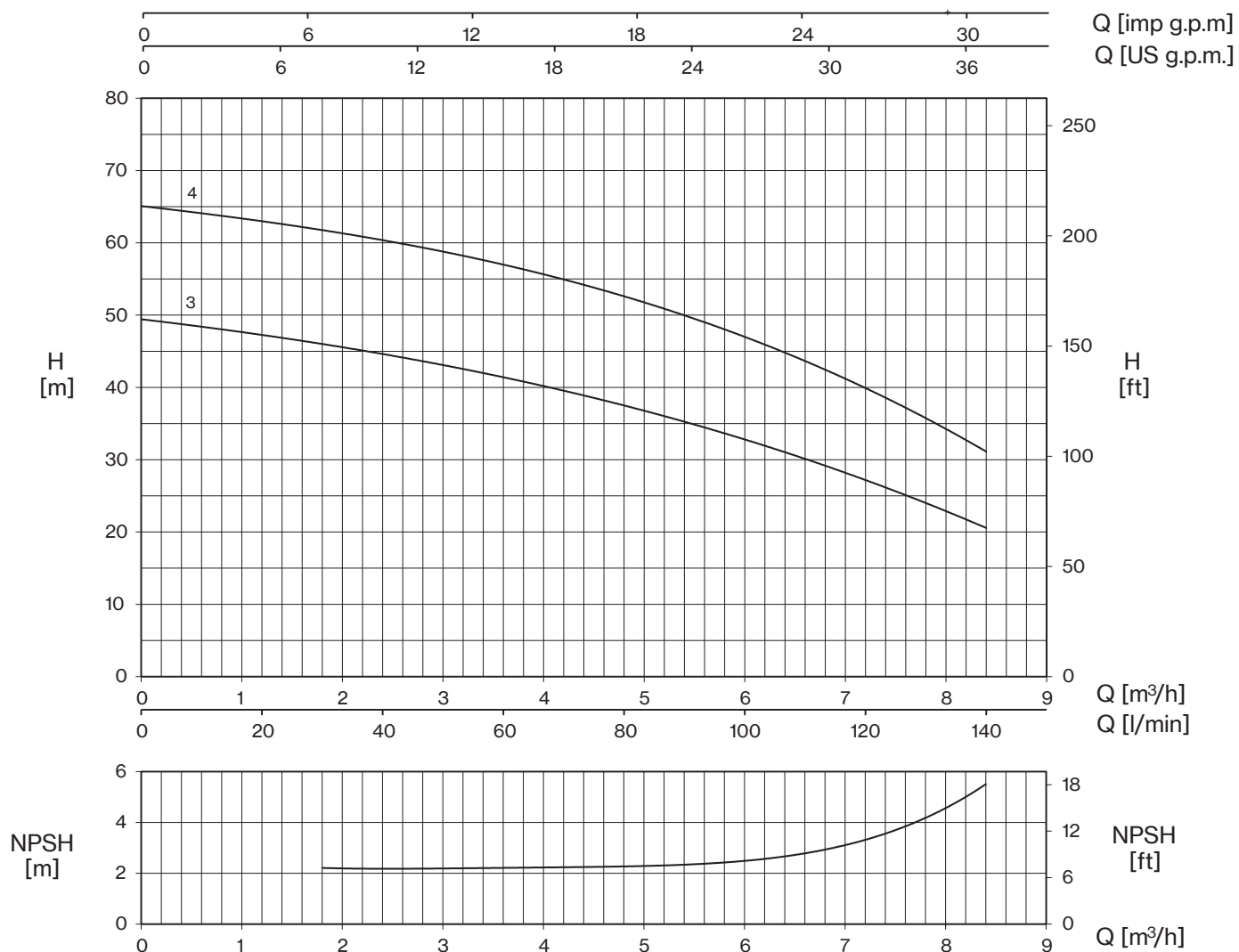


ULTRA 3SA



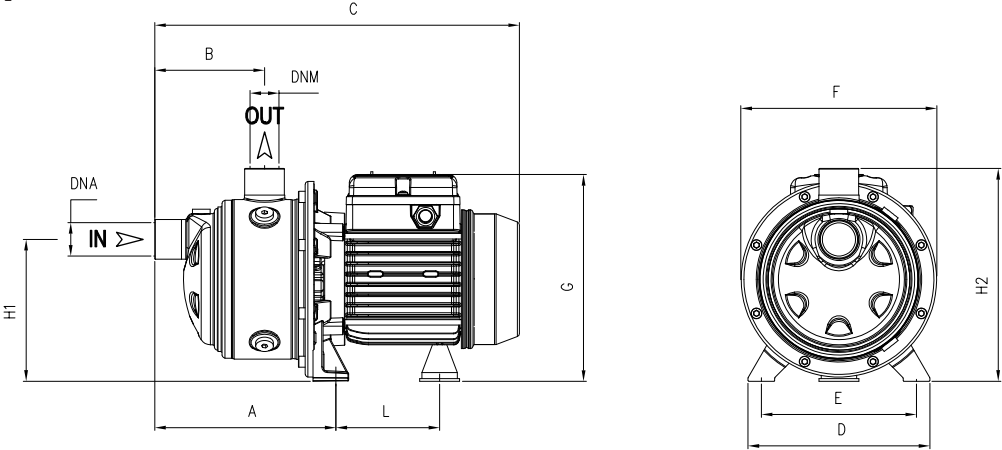
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	0,6	1,2	2,4	3,6	4,8	5,8
								0	10	20	40	60	80	96,7
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
U 3SA-80/3	U 3SA-80/3T	0,8	0,6	1	0,9	4,9	1,7	46,3	45,1	42,9	37,2	29,8	21,6	13,0
U 3SA-120/4	U 3SA-120/4T	1.2	0.9	1.25	1.2	5.9	2.5	64.6	62.9	60.3	52.7	43.2	31.9	19.5





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	1,8	2,4	3,6	4,8	6	7,2	8,4
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	30	40	60	80	100	120	140
								H (m)							
U 5SA-120/3	U 5SA-120/3T	1,2	0,9	1,4	1,35	6,5	2,7	49,4	46,1	44,6	41,4	37,4	32,8	27,3	20,5
U 5SA-180/4	U 5SA-180/4T	1,8	1,3	1,9	1,75	9	3,3	65,0	62,0	60,4	56,8	52,4	47,1	40,1	31,0

ULTRA SA



TYPE	DIMENSIONS (mm)												
	A	B	C	D	E	F	G	L	H1	H2	DNA		DNM
U 3SA-90/4	190,8	175	405	164	140	178	190	93,7	128	192	1" G	1" G	10
U 3SA-100/5	214,8	199	452	164	140	178	203	104,7	128	192			12,5
U 5SA-120/4	190,8	175	428	164	140	178	203	104,7	128	192			12,5
U 5SA-150/5	214,8	199	514	164	140	201	211	128,2	134	198			15,5



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

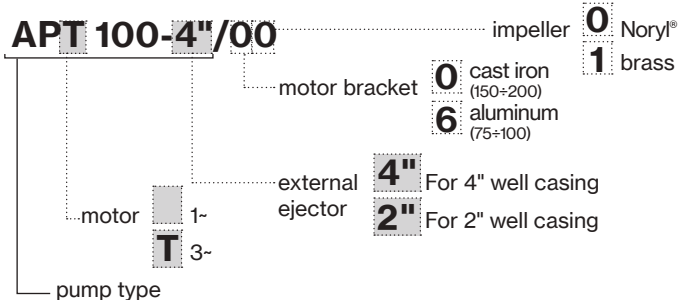
Pump body	cast iron
Motor bracket	aluminum (75÷100), cast iron (150÷200)
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416 (75-100), AISI 303 hydraulic side (150-200)
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

Motor

	3~ 220/380V - 60Hz
2 poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4



APT 100-4"/00



TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
AP 75-100	85×110×145	60	85×110×190	80
AP 150-200	80×120×140	35	80×120×190	49



AP 100



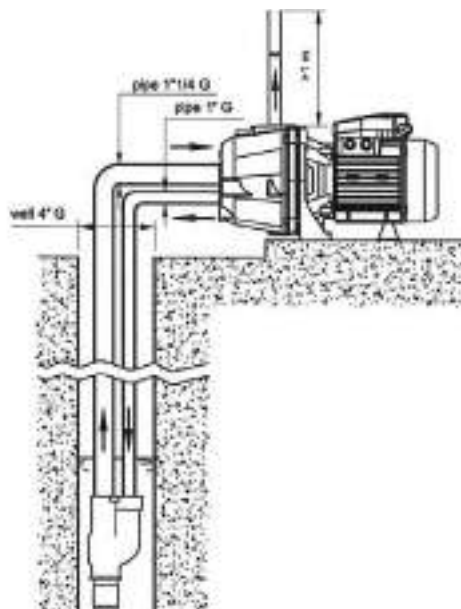
APT 200



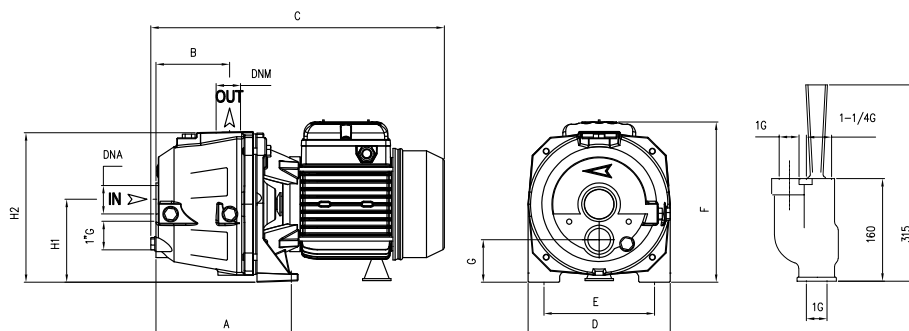
4"



1~ 110V - 60Hz	
TYPE	I (A)
AP 75	7,4
AP 100	9,4



TYPE		P2		P1 (kW)		AMPERE		Ejector type	Suction depth. m	Q (m³/h - l/min)									
1~	3~					1~	3~			0,18	0,36	0,6	0,9	1,2	1,5	1,8	2,1	3	3,6
						1x220 V 60 Hz	3x380 V 60 Hz			3	6	10	15	20	25	30	35	50	60
						H (m)													
AP 75	APT 75	0,8	0,59	0,8	0,81	3,7	1,4	P 20	15 20	31 28	28 23	25 18	22 15	19 13	17 11	15	12		
								P 30	25 30	22 14	16 8	11	8						
AP 100	APT 100	1	0,74	1,02	1,05	4,7	2,3	P 20	15 20	40 37	37 34	34 30	30 25	27 21	24 17	21	18		
								P 30	25 30 35	30 14 12	25 8 4	20	14	11					
AP 150	APT 150	1,5	1,1	1,65	1,65	8,2	3	P 20	15 20 25						50 45	42 37 34	35 30 27	25 21	21
								P 30	35 40 50		49	48 43	49 40 20	41	20				
AP 200	APT 200	2	1,5	2,22	2,22	10,3	4,1	P 20	15 20 25						50	48 44	46 43 40	35 32 28	30 27 23
								P 30	35 40 50			49	46 40	30 -		28	20		



TYPE	DIMENSIONS (mm)														
	A	B	C	D	E	F	G	H1	H2	DNA	DNM	I	L	M	
AP 75	168	82	360	180	140	195	52	97	188	1" ¼ G	1" G	440	200	225	16
AP 100	168	82	360	180	140	195	52	97	188			440	200	225	18
AP 150	125	74	415	220	177	230	60	112	240			525	230	280	28,5
AP 200	125	74	415	220	177	230	60	112	240			525	230	280	29





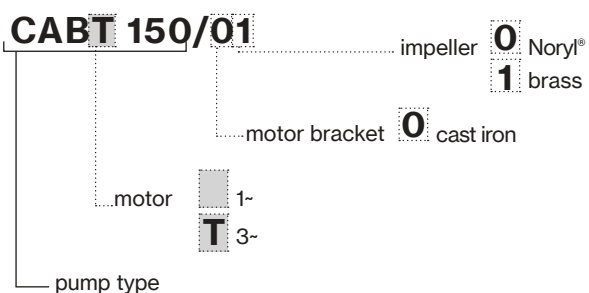
Self-priming centrifugal pumps for water supply (also mixed with air) of small and medium domestic and civil installations, that can be connected to an autoclave tank.

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

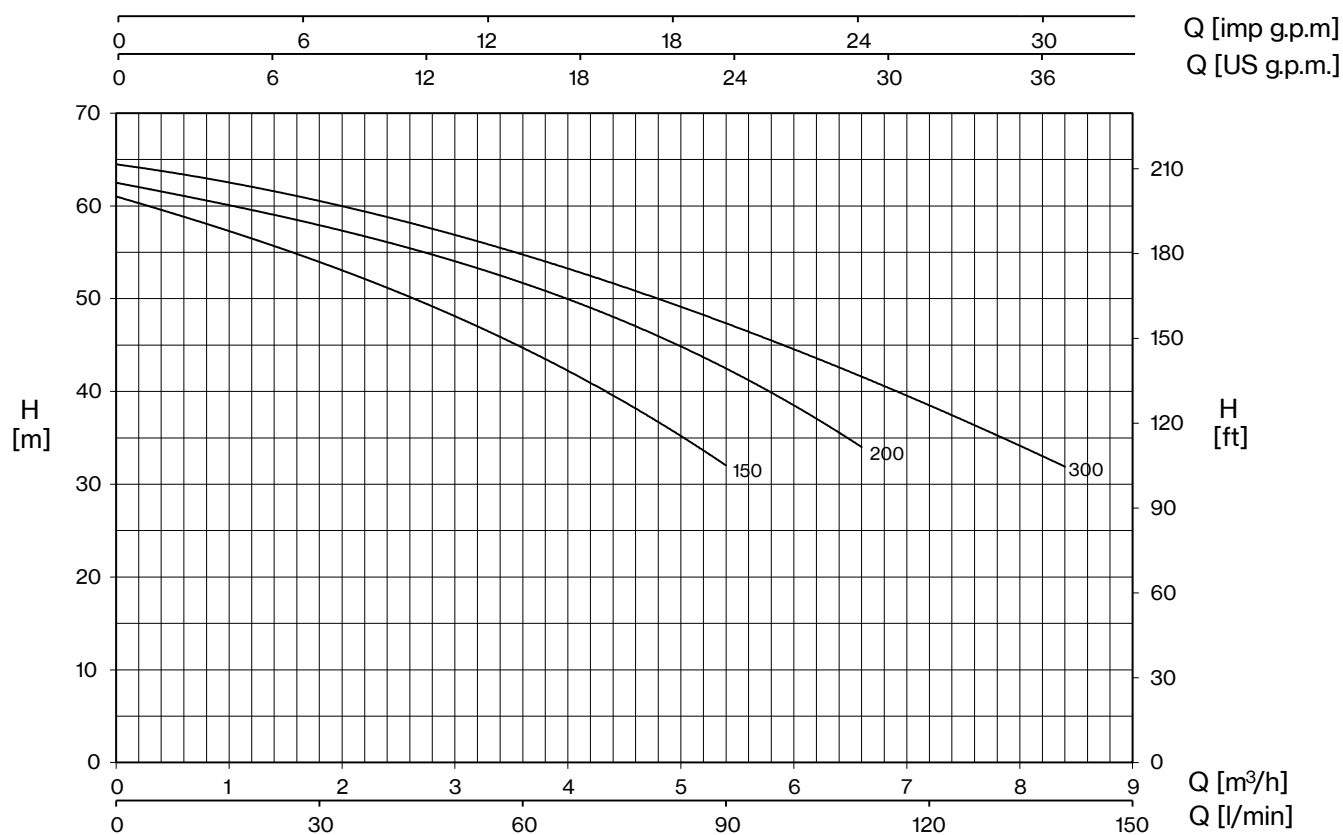
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4



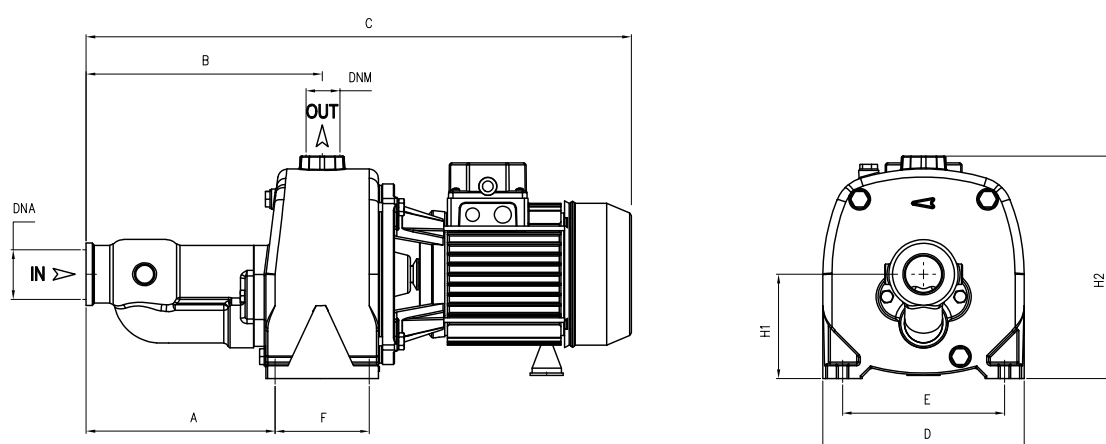
TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CAB	85×110×140	30	85×110×190	42



CAB



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	1,2	1,8	3	4,2	5,4	6,6	7,8	8,4	
								0	20	30	50	70	90	110	130	140	
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
CAB 150	CABT 150	1,5	1,1	1,74	1,68	7,9	3,3	61,0	56,5	54,0	48,0	41,0	32,0				
CAB 200	CABT 200	2	1,5	2,22	2,1	10,3	3,9	62,5	59,5	58,0	54,0	49,0	42,5	34,0			
CAB 300	CABT 300	3	2,2	2,65	2,5	11,8	4,9	64,5	62,0	60,5	57,0	52,5	47,0	42,0	35,0	32,0	



TYPE	DIMENSIONS (mm)										M			Kg
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
CAB 150	204	257	596	220	177	105	112	240			610	235	275	30
CAB 200	204	257	596	220	177	105	112	240	1" ½ G	1" G	610	235	275	30,5
CAB 300	204	257	596	220	177	105	112	240			610	235	275	31,5





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

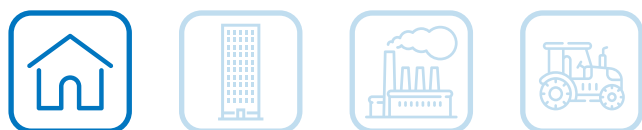
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl®
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416
Liquid temperature	0 - 50 °C
Operating pressure	max 11 bar

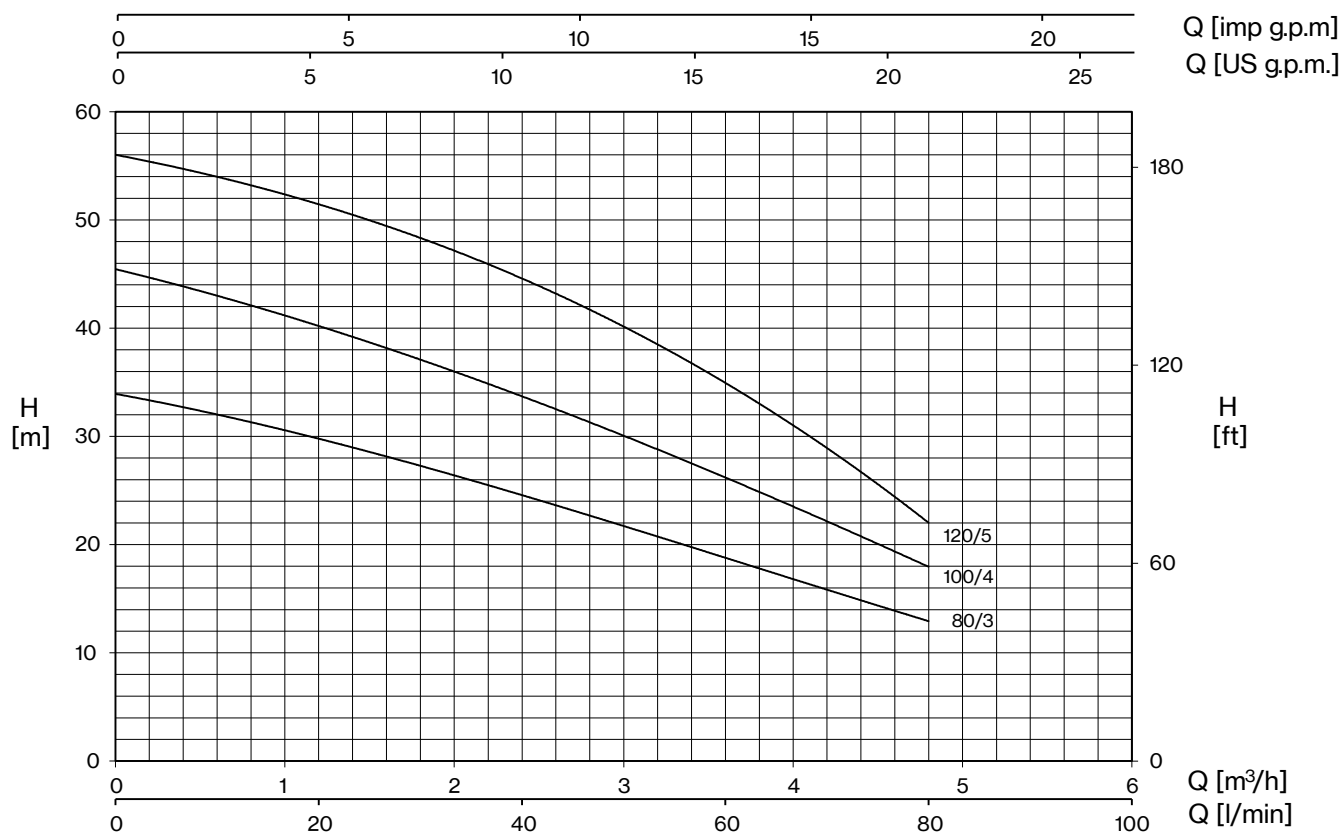
Motor

	3~ 220/380V - 60Hz
2 poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

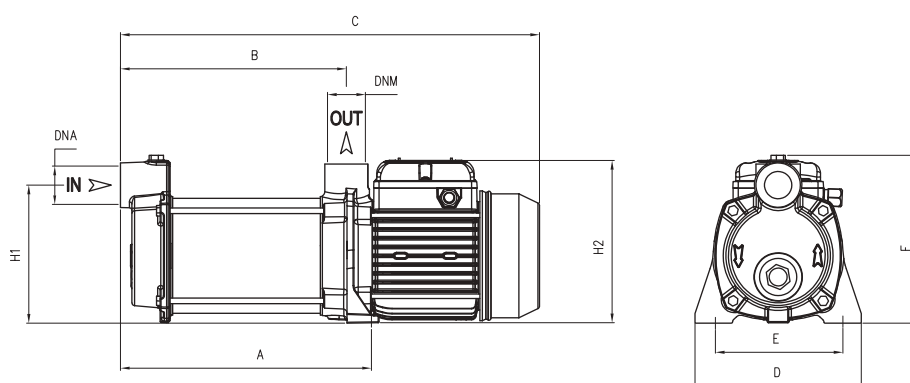
1~ 110V - 60Hz	
TYPE	I (A)
MP 80/3 A	7,6
MP 100/4 A	10,0
MP 120/5 A	12,2

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





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)				
1~	3~					1~	3~	0	1,2	2,4	3,6	4,8
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	20	40	60	80
								H (m)				
MP 80/3 A	MPT 80/3 A	0,8	0,59	0,83	0,88	3,8	1,6	34	29,5	25,0	18,5	13,0
MP 100/4 A	MPT 100/4 A	1	0,74	1,07	1,1	5,0	1,9	45,5	40,0	34,0	26,0	18,0
MP 120/5 A	MPT 120/5 A	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)										M			Kg
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
MP 80/3 A	245	224	425	180	140	185	150	175			440	200	215	14
MP 100/4 A	270	240	450	180	140	185	150	175	1" G	1" G	500	200	215	15,5
MP 120/5 A	295	264	475	180	140	185	150	175			500	200	215	16



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

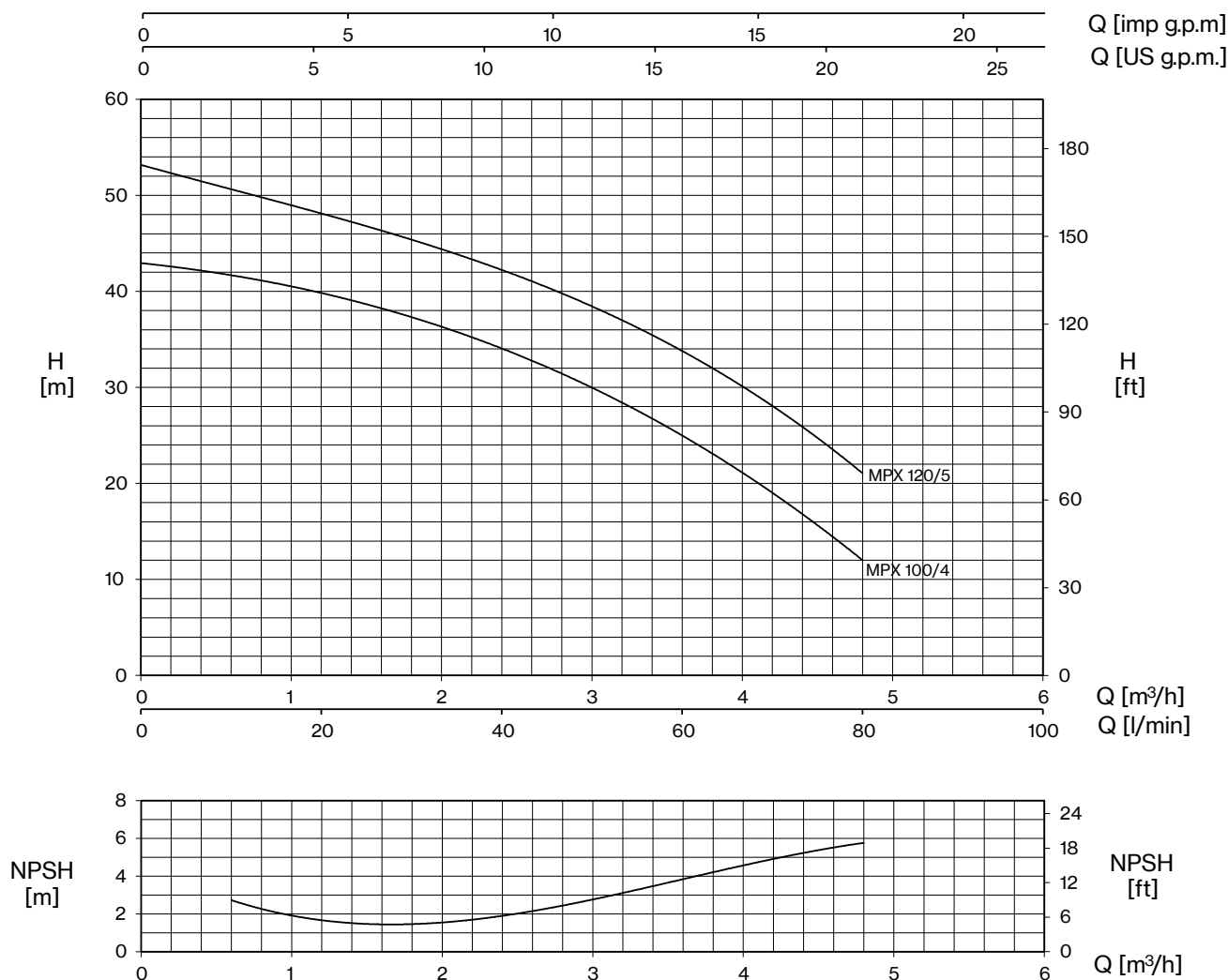
	3~ 220/380V - 60Hz
2 poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
MPX 100/4	10,0
MPX 120/5	12,2

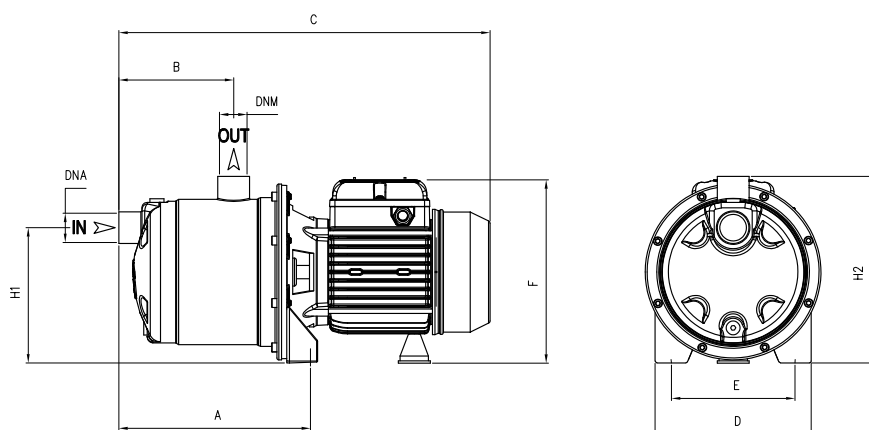
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
MPX	85×110×150	60	85×110×190	80



MPX



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)					
1~	3~					1~	3~	0	0,6	1,2	2,4	3,6	4,8
								0	10	20	40	60	80
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)					
MPX 100/4	MPXT 100/4	1	0,74	1,07	1,1	5	1,9	43,0	41,5	40,0	34,0	25,0	12,0
MPX 120/5	MPXT 120/5	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)										M L M			Kg
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
MPX 100/4	208	128	410	175	140	215	153	210	1" G	1" G	430	210	235	11
MPX 120/5	208	128	410	175	140	215	153	210	1" G	1" G	430	210	235	11,5



MPX (Garden version)

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

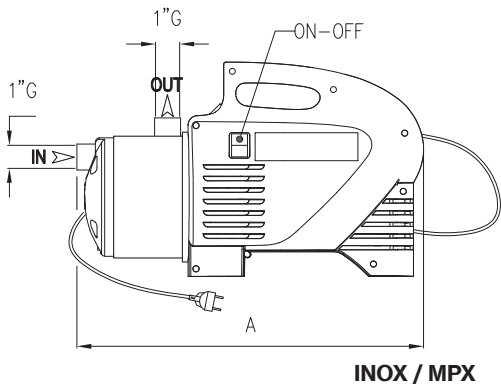
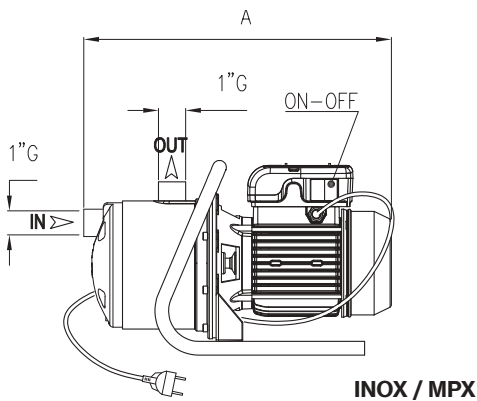


MPX



MPX BOX

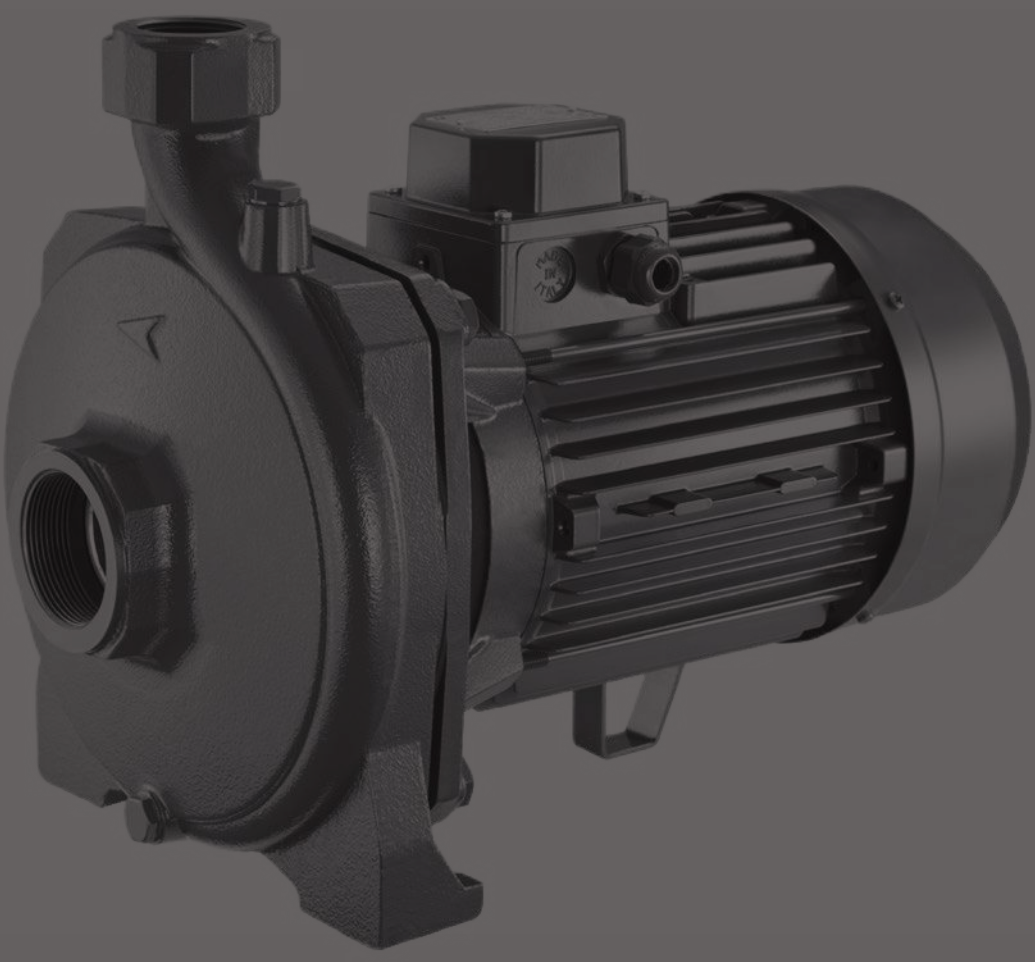
TYPE	P2		P1 (kW)	Pipe		Performance	
				Suction ("G)	Delivery ("G)	Q (l/min)	H (m)
	HP	kW	1~				
MPX 100/4	1	0,74	1,07	1	1	10-80	41,5-12
MPX 120/5	1,2	0,88	1,27	1	1	10-80	51-21



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

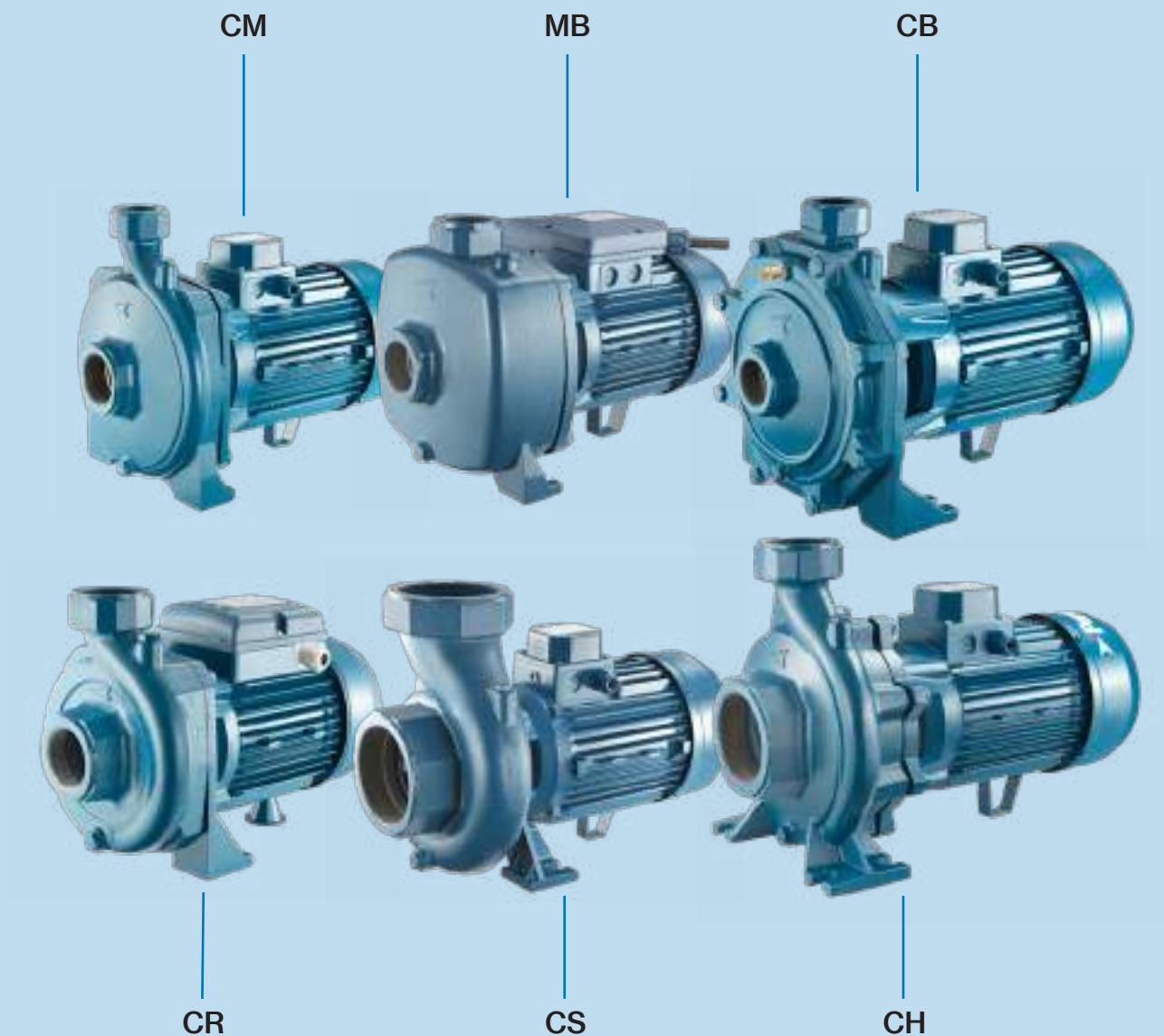






THREADED CENTRIFUGAL

THREADED CENTRIFUGAL PUMPS

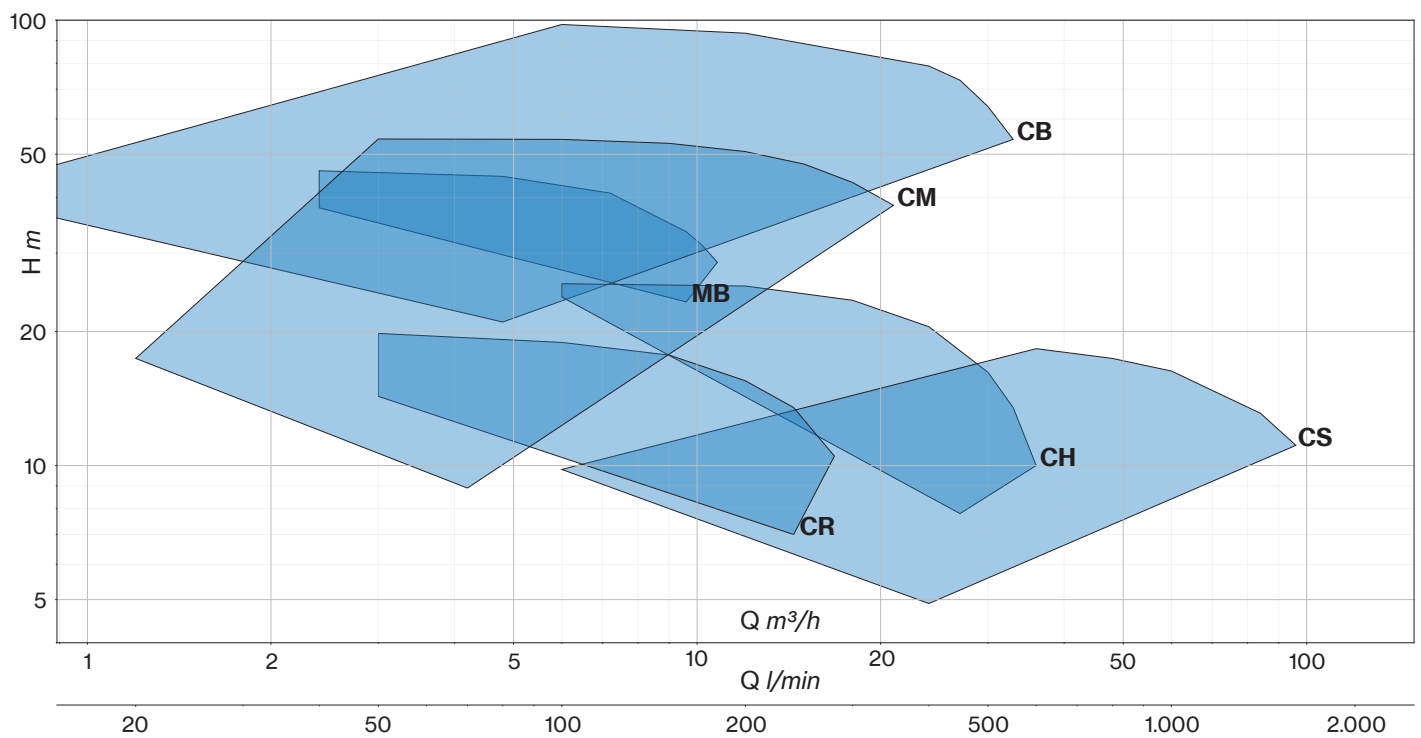


Extremely silent single and double impeller centrifugal pumps, designed for a wide range of applications

Applications:

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

THREADED CENTRIFUGAL PUMPS





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

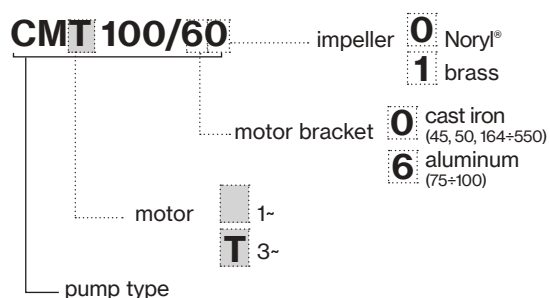
Construction features

Pump body	cast iron
Motor bracket	cast iron (45, 50, 164÷550), aluminum (75÷100)
Impeller	Noryl® (45), Noryl® or brass (50-314) Brass (400-550)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 416 (45-100), stainless steel AISI 303 (164-550)
Liquid temperature	Noryl® impeller: 0 - 50 °C, brass impeller: 0 - 90 °C
Operating pressure	max 6 bar (45-100), max 8 bar (164-550)

Motor

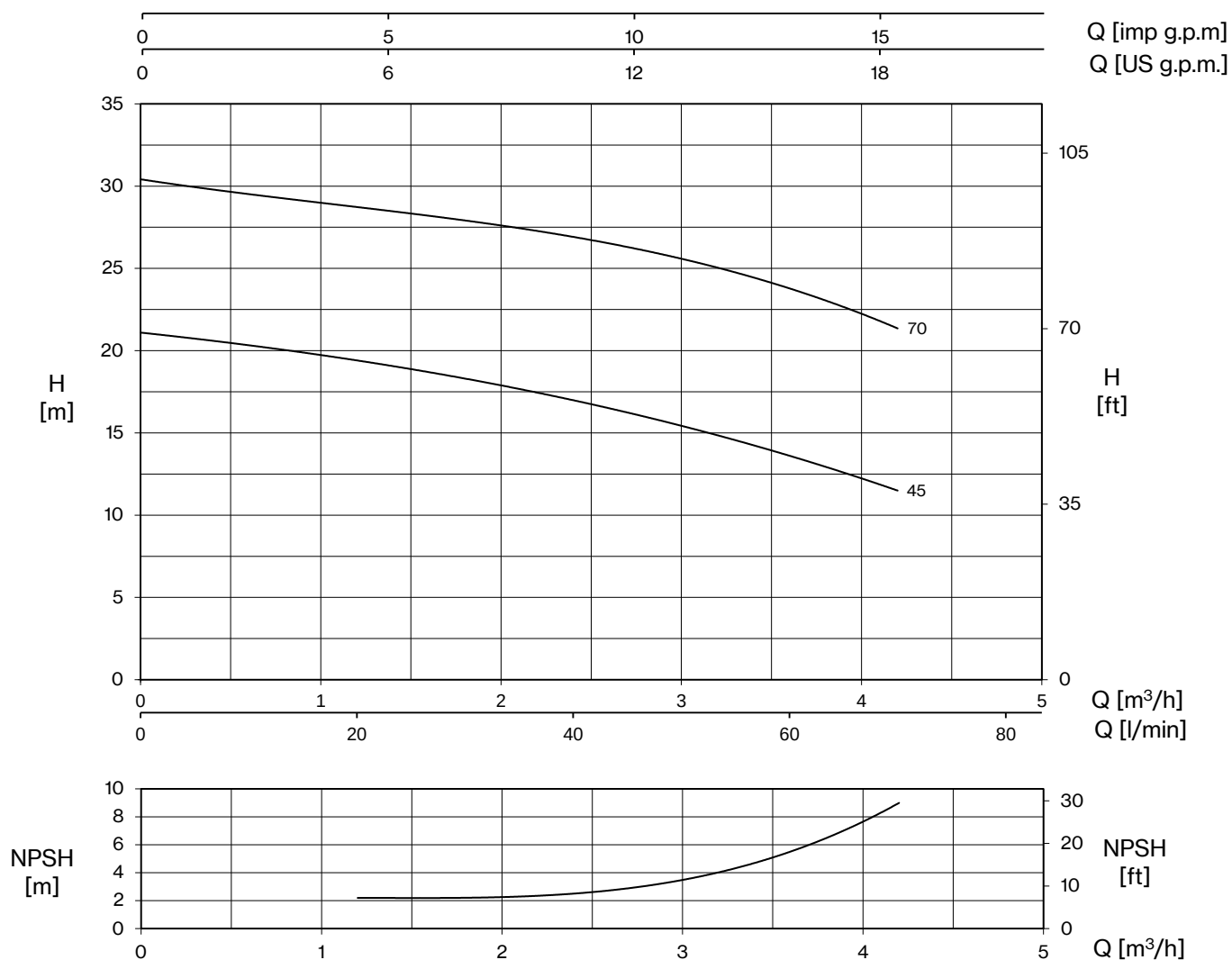
	3~ 220/380V - 60Hz
2 Poles induction moter	1~ 220V - 60Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
CM 45	5,4
CM 70	8,6
CM 50	6,4
CM 75	9,6
CM 100V	10,8
CM 100	12,2

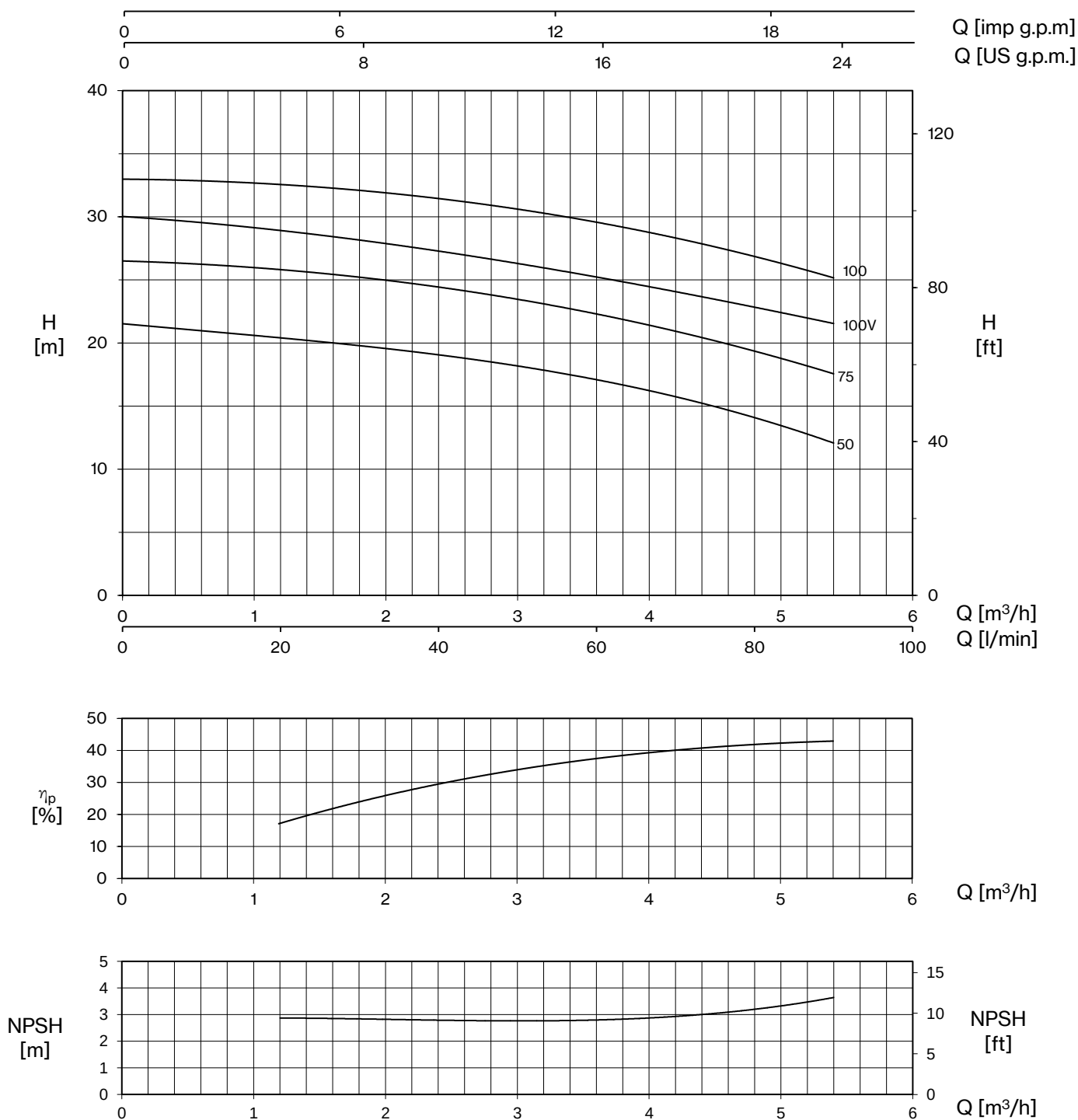


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CM 45-50	80×120×145	102	80×120×190	136
CM 75-100	85×110×145	65	85×110×195	91
CM 164	85×110×140	40	85×110×170	60
CMT 314	85×110×150	24	85×110×180	30
CM 400-550	85×110×150	24	85×110×180	30



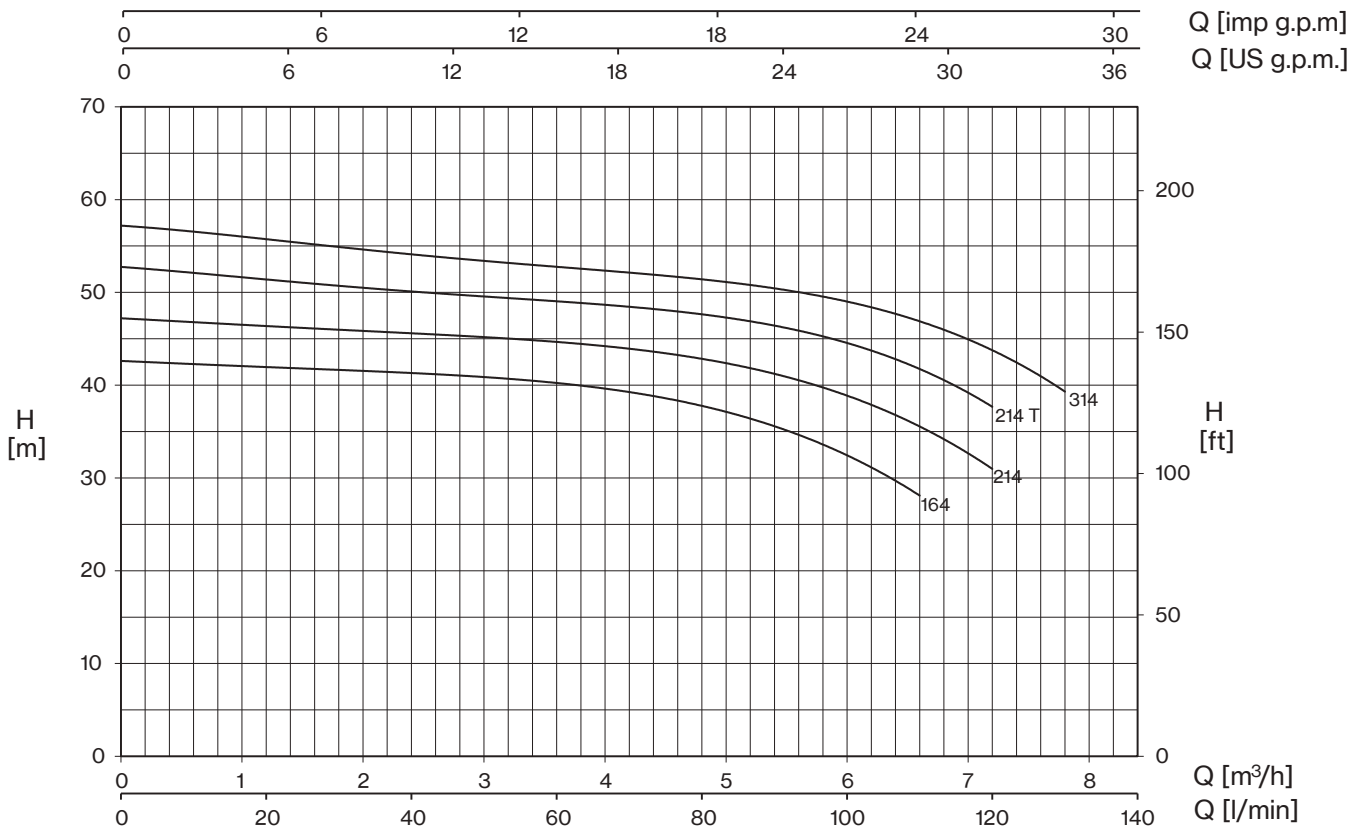


TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)				
1~	3~					1~	3~	0	1,2	2,4	3,6	4,2
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	20	40	60	70
								H (m)				
CM 45	CMT 45	0,4	0,3	0,57	0,62	2,7	1	21,1	19,4	17	13,6	11,5
CM 70	CMT 70	0,6	0,45	0,9	0,94	4,3	1,6	30,4	28,8	26,8	23,9	21,3



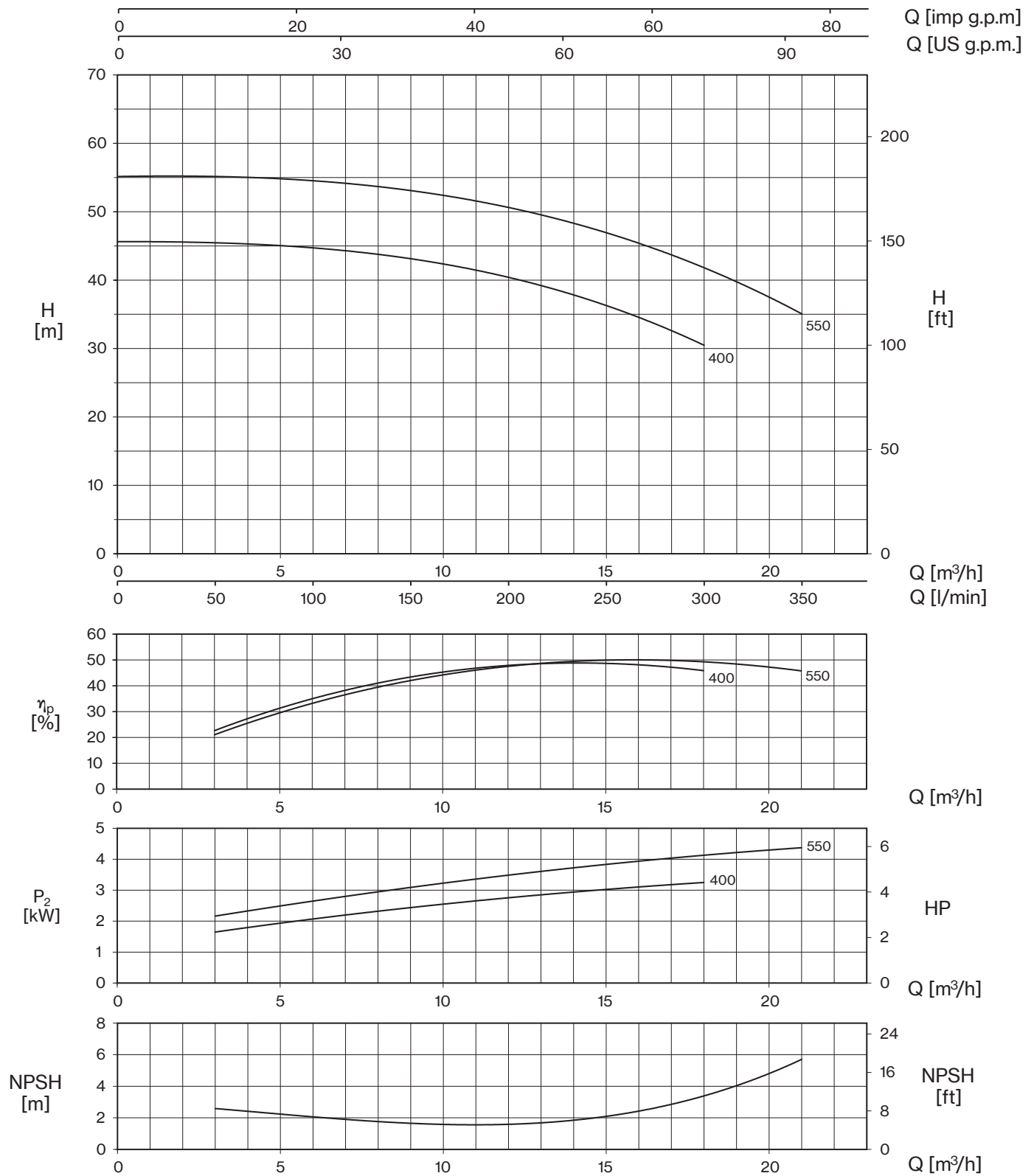
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)					
1~	3~					1~	3~	0	1,2	2,4	3,6	4,8	5,4
						0	20	40	60	80	90		
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)					
CM 50	CMT 50	0,5	0,37	0,68	0,75	3,2	1,3	21,5	20,5	19,0	17,0	14,2	12,0
CM 75	CMT 75	0,8	0,59	0,98	1	4,8	1,8	26,5	25,8	24,5	22,2	19,5	17,5
CM 100 V	-	1	0,74	1,15	-	5,4	-	30,0	29,0	27,2	25,2	22,9	21,5
CM 100	CMT 100	1	0,74	1,3	1,33	6,1	2,2	33,0	32,5	31,5	29,6	26,8	25,2





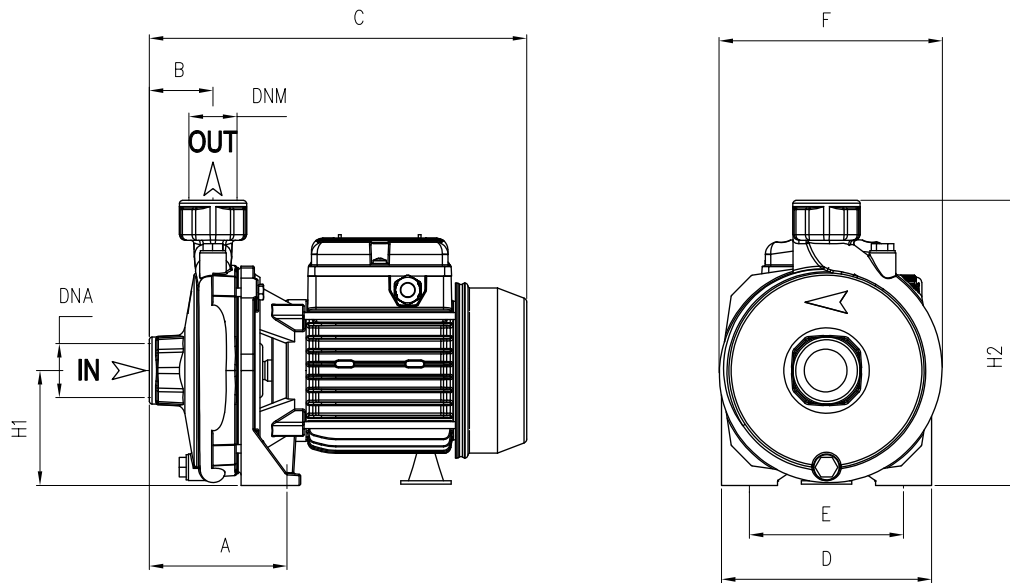
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	1,2	2,4	3,6	4,8	5,4	6,0	6,6	7,2	7,8
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	20	40	60	80	90	100	110	120	130
								H (m)									
CM 164	CMT 164	1,5	1,1	1,93	1,83	9,24	3,57	42,6	42	41,3	40,1	38	35,6	32,2	28,2		
CM 214	-	2	1,5	2,33	-	11	-	47,2	46,4	45,6	44,6	42,8	41,3	39,1	35,2	31,1	
-	CMT 214	2	1,5	-	2,44	-	4,58	52,8	51,2	50,3	49,1	47,5	46,3	44,5	42,1	37,5	
CM 314	CMT 314	3	2,2	3,01	2,78	14,5	5,31	57,3	55,4	54,3	53,1	51,3	50	48,7	47,5	43,9	39,1

CM



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	3	6	9	12	15	18	21
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	50	100	150	200	250	300	350
								H (m)							
CM 400	CMT 400	4	3	3,7	3,7	17,6	7	45,6	45,4	44,9	43	40,3	36,4	30,4	
-	CMT 550	5,5	4	-	5	-	9,4	55,1	55,1	54,7	53,1	50,3	47	42	34,9





TYPE	DIMENSIONS (mm)															
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M			
CM 45	95	45,5	265	150	110	160	82	202	1"G	1"G	290	175	225	8,5		
CM 70	95	45,5	265	150	110	160	82	202			290	170	230	10		
CM 50	95	45,5	265	150	110	160	82	202			290	175	225	9,5		
CM 75	110	46,5	300	180	140	185	97	234			325	200	265	13,5	T 13	
CM 100 V	110	46,5	300	180	140	185	97	234			325	200	265	14	T 13,5	
CM 100	110	46,5	300	180	140	185	97	234			325	200	265	14,5	T 14	
CM 164	117	46,5	348	220	180	225	115	285	1"1/4 G	1"G	370	240	315	23	T 22	
CM 214	117	46,5	348	220	180	225	115	285			370	240	315	24	T 23	
CM 314	117	46,5	410 T 348	220	180	225	115	285			370	240	315	29	T 23,5	
CM 400	108	54	460	240	190	250	133	323	2"G	1"1/4 G	480	255	342	45,5	T 41	
CMT 550	108	54	460	240	190	250	133	323			480	255	342	45,5		



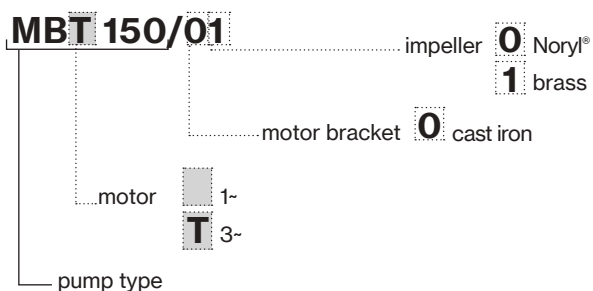
Two impeller compact centrifugal pumps for constructing pressurisation systems for civil and industrial plant: guarantee good ratio between pressure and flow rate.

Construction features

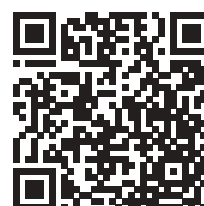
Pump body	cast iron
Motor bracket	cast iron
Impeller	Noryl® or brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303
Liquid temperature	0 - 50 °C
Operating pressure	max 8 bar

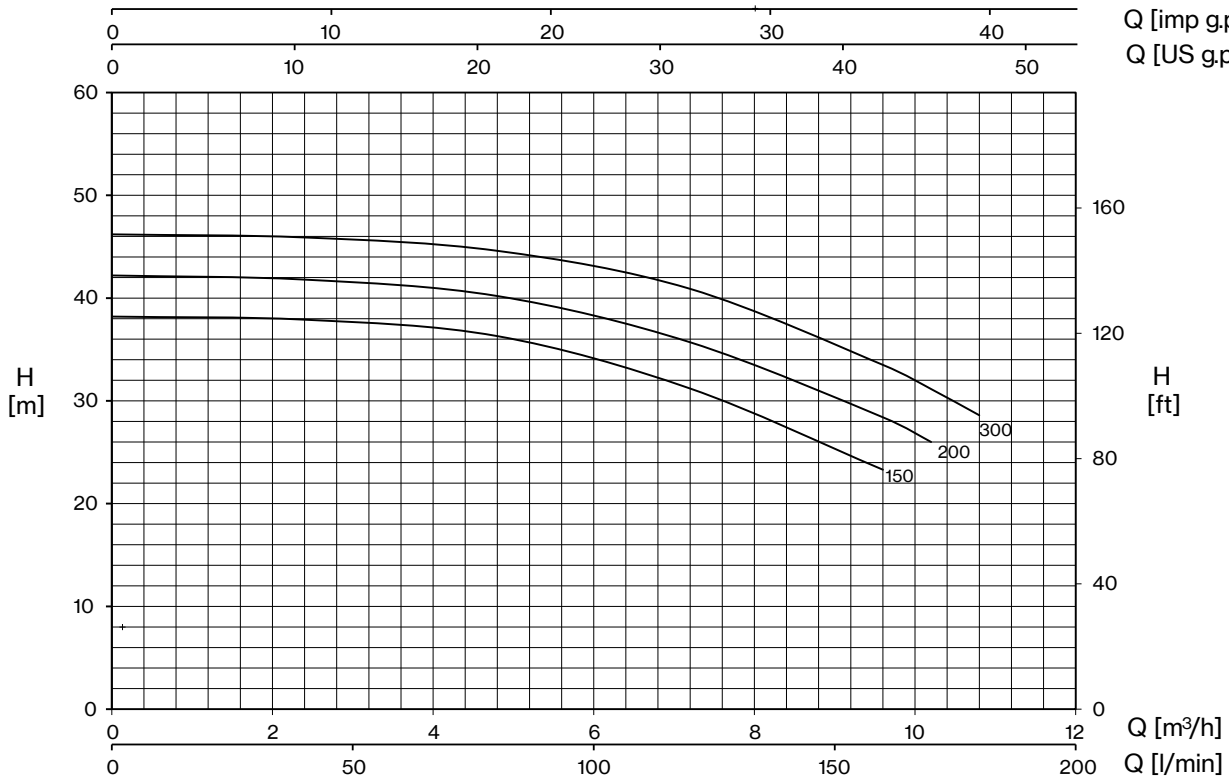
Motor

	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

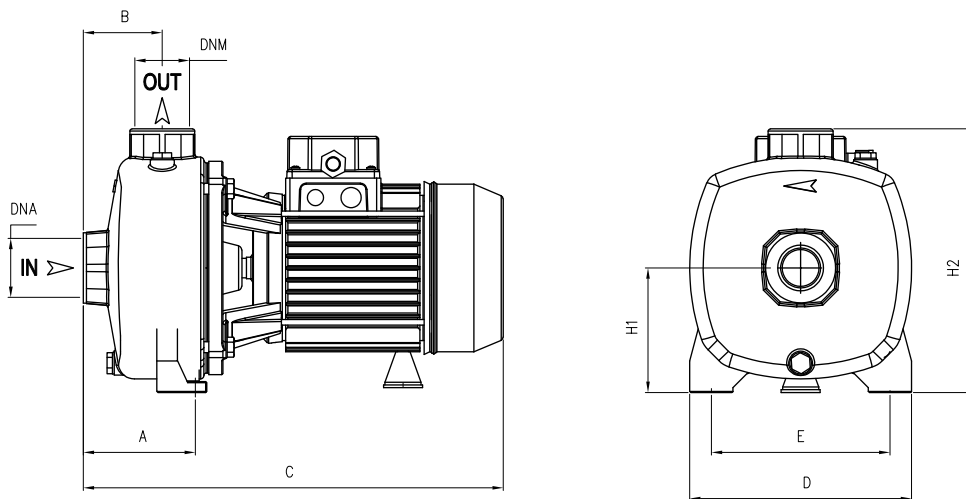


TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
MB	85×110×130	40	85×110×190	60





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	2,4	4,8	7,2	9,6	10,2	10,8
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	40	80	120	160	170	180
H (m)														
MB 150	MBT 150	1,5	1,1	1,6	1,5	7,2	3,1	38,2	37,9	36,3	31,2	23,3		
MB 200	MBT 200	2	1,5	1,85	1,75	8,4	3,4	42,2	41,8	40,2	35,7	28,4	26	
MB 300	MBT 300	3	2,2	2,15	2,05	9,7	4,3	46,2	45,9	44,6	40,9	33,5	31,2	28,6



TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	H1	H2	DNA	DNM	I	L			M
MB 150	108	73	385	205	165	115	242	1"1/2G	1"1/4G	405	225	295	21,5	T 20
MB 200	108	73	385	205	165	115	242			405	225	295	22,5	T 21,5
MB 300	108	73	385	205	165	115	242			405	225	295	23	T 22,5



Two impeller centrifugal pumps for constructing pressurisation systems for civil and industrial plant; the two counterposed impellers guarantee high head and flow rate.

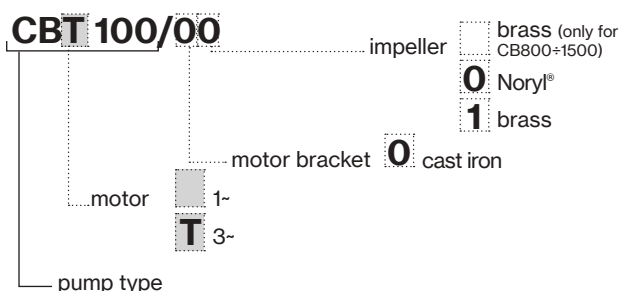
Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	brass or Noryl® (100÷900) brass (800÷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)

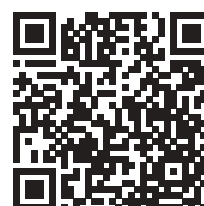
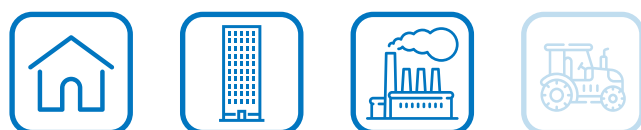
Motor

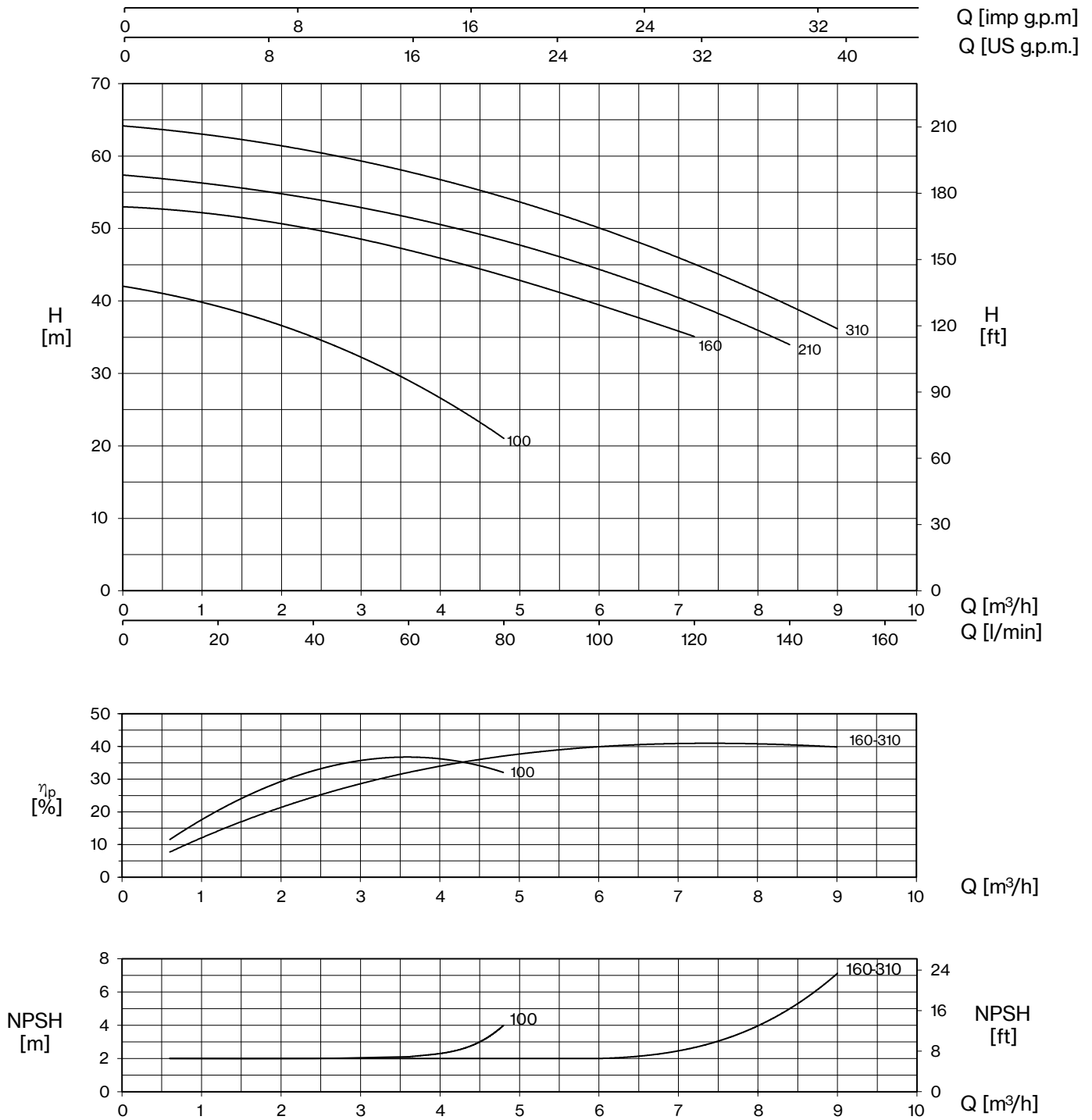
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4 IPX5 (800÷1500)

1~ 110V - 60Hz	
TYPE	I (A)
CB 100	10,8



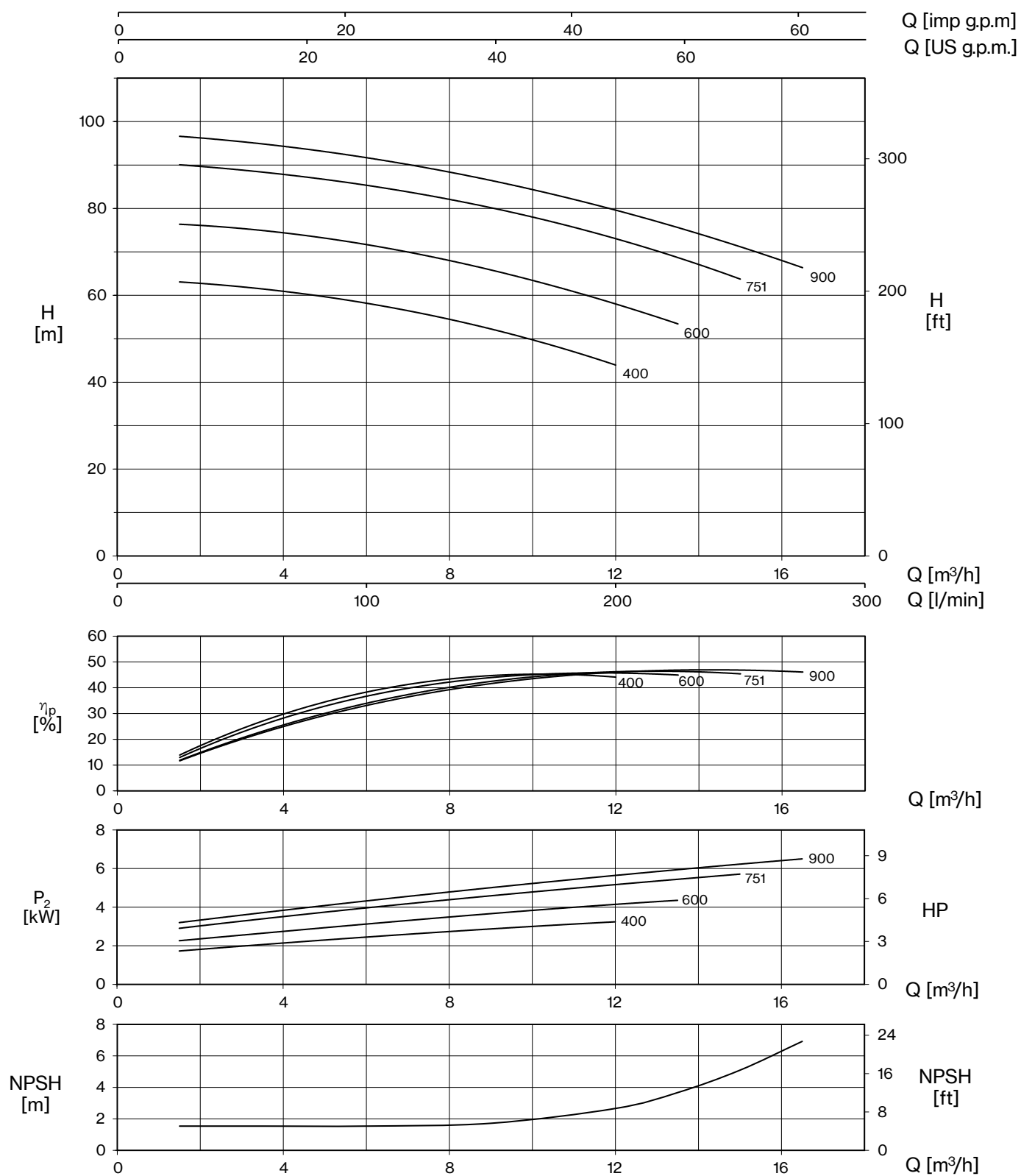
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CB 100	90×110×145	65	90×110×195	91
CB 160- CBT 310	85×110×130	40	85×110×190	60
CB 310	85×110×150	24	85×110×180	30
CB 400-900	80×120×150	24	80×120×180	30
CBT 800-1500	100×120×140	18	100×120×185	24





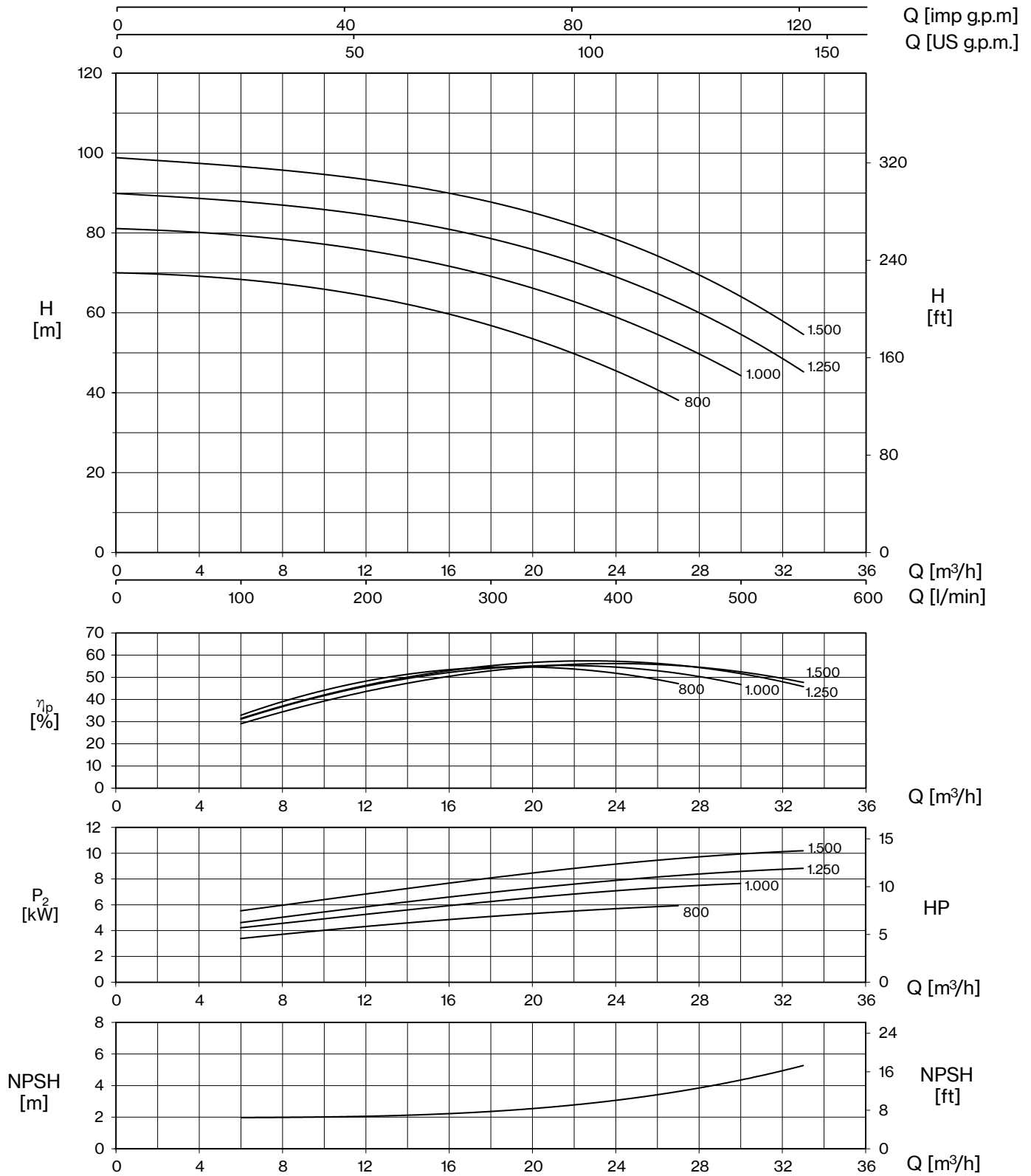
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)											
1~	3~					1~	3~	0	0,6	1,2	1,8	2,4	3,6	4,8	6	7,2	8,4	9	
								0	10	20	30	40	60	80	100	120	140	150	
						HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)							
CB 100	CBT 100	1	0,74	1,17	1,15	5,4	2,4	42	40,8	39,4	37,4	34,7	29,2	21					
CB 160	CBT 160	1,5	1,1	2,30	2,20	10,2	4,1	53	52,5	52	51	50	46,9	43,3	39,7	35			
CB 210	CBT 210	2	1,5	2,60	2,45	11,5	4,8	57,3	56,9	56	55,1	54	51,5	48,4	44,4	39,5	34		
CB 310	CBT 310	3	2,2	2,9	2,80	13,2	5,2	64	63,5	63	61,9	60,6	57,7	54,1	50	45,4	39,4	36	





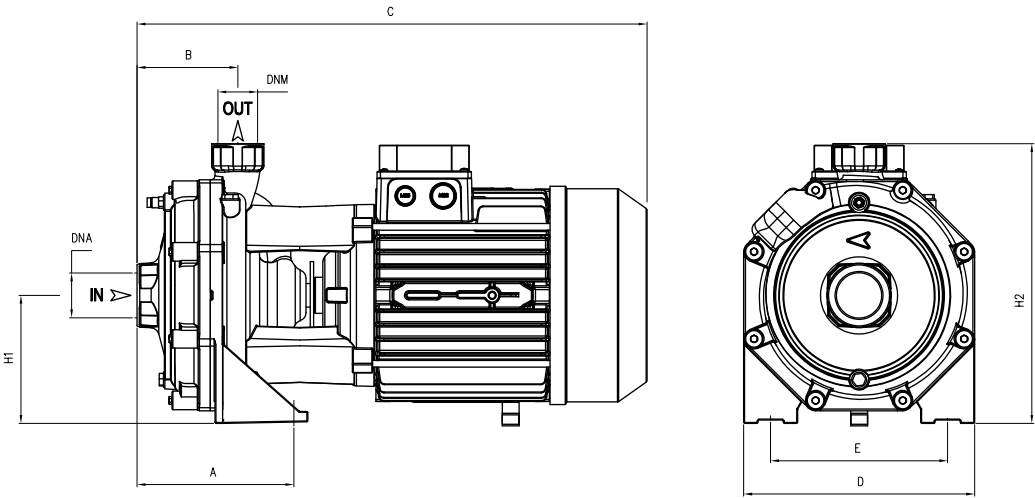
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)													
1~	3~					0	1,5	3	4,5	6	7,5	9	10,5	12	13,5	15	16,5				
																		0	25	50	75
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)													
CB 400	CBT 400	4	3	3,7	3,8	17,7	7,1	64,2	64,1	63,3	61,9	59,9	57,4	54,3	50,4	45,6					
CB 600	CBT 600	5,5	4	5,2	4,9	24,5	9,4	76,9	76,8	76,1	74,7	72,7	69,9	66,6	62,5	58,2	53,7				
-	CBT 751	7,5	5,5	-	6,5	-	12,1	92,9	92,7	91,8	90,4	88,5	85,9	82,8	79,0	74,7	69,9	64,4			
-	CBT 900	10	7,5	-	7,4	-	14,2	98	97,7	96,8	95,4	93,4	90,9	87,8	84,2	80	75,2	70,1	65,1		





TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)							
3~				0	6	12	18	24	27	30	33	
				0	100	200	300	400	450	500	550	
3~	HP	kW	3~	3x380 V 60 Hz	H (m)							
CBT 800	7,5	5,5	6,7	11,5	71,5	70	65,6	56,8	44	36,2		
CBT 1000	10	7,5	8,5	14,6	82	81,3	75,6	68,2	56,1	48,3	41,1	
CBT 1250	12,5	9,2	9,9	17	90,6	90,5	85,8	79	67,5	59,9	51,6	42,7
CBT 1500	15	11	11,5	19,8	101,6	101,9	96,6	89,3	78,8	71,3	62,6	54,9





TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	H1	H2	DNA	DNM	I	L	M		
CB 100	122	72	328	180	140	98	228	1" G	1" G	350	195	265	15,5	T 15
CB 160	115	82	385	210	170	110	265	1" ¼ G		405	225	295	23,5	T 22,5
CB 210	115	82	385	210	170	110	265			405	225	295	24	T 23
CB 310	115	82	385	210	170	110	265			405	225	295	29,5	T 24,5
CB 400	145	95,5	498	266	212	135	305	1" ½ G	1" ¼ G	553	274	318	48	T 44
CB 600	145	95,5	498	266	212	135	305			553	274	318	56,5	T 48
CBT 751	145	95,5	532	266	212	135	305			553	274	318	56	
CBT 900	145	95,5	532	266	212	135	305			553	274	318	62	
CBT 800	190	120	605	275	210	150	330	2" G	1" ¼ G	722	290	370	77	
CBT 1000	190	120	605	275	210	150	330			722	290	370	83	
CBT 1250	190	120	645	275	210	150	330			722	290	370	91	
CBT 1500	190	120	645	275	210	150	330			722	290	370	94,5	





Medium delivery centrifugal pumps for agricultural applications. Equipped with an open impeller that allows the pumping of non-clean liquids, guaranteeing the free passage of small solids ($\varnothing$ max. 10 mm).

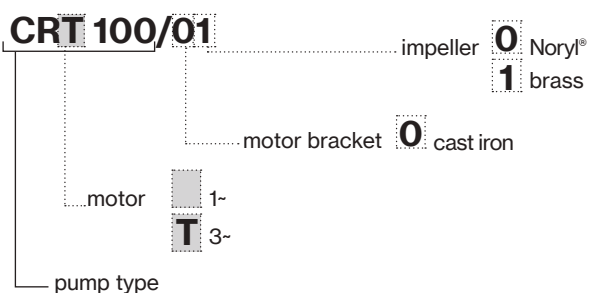
Construction features

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

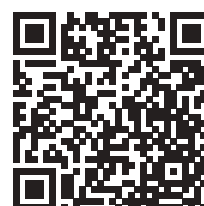
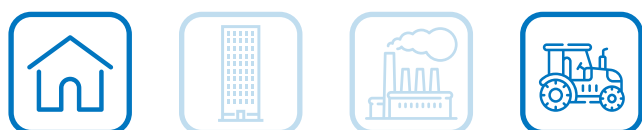
Motor

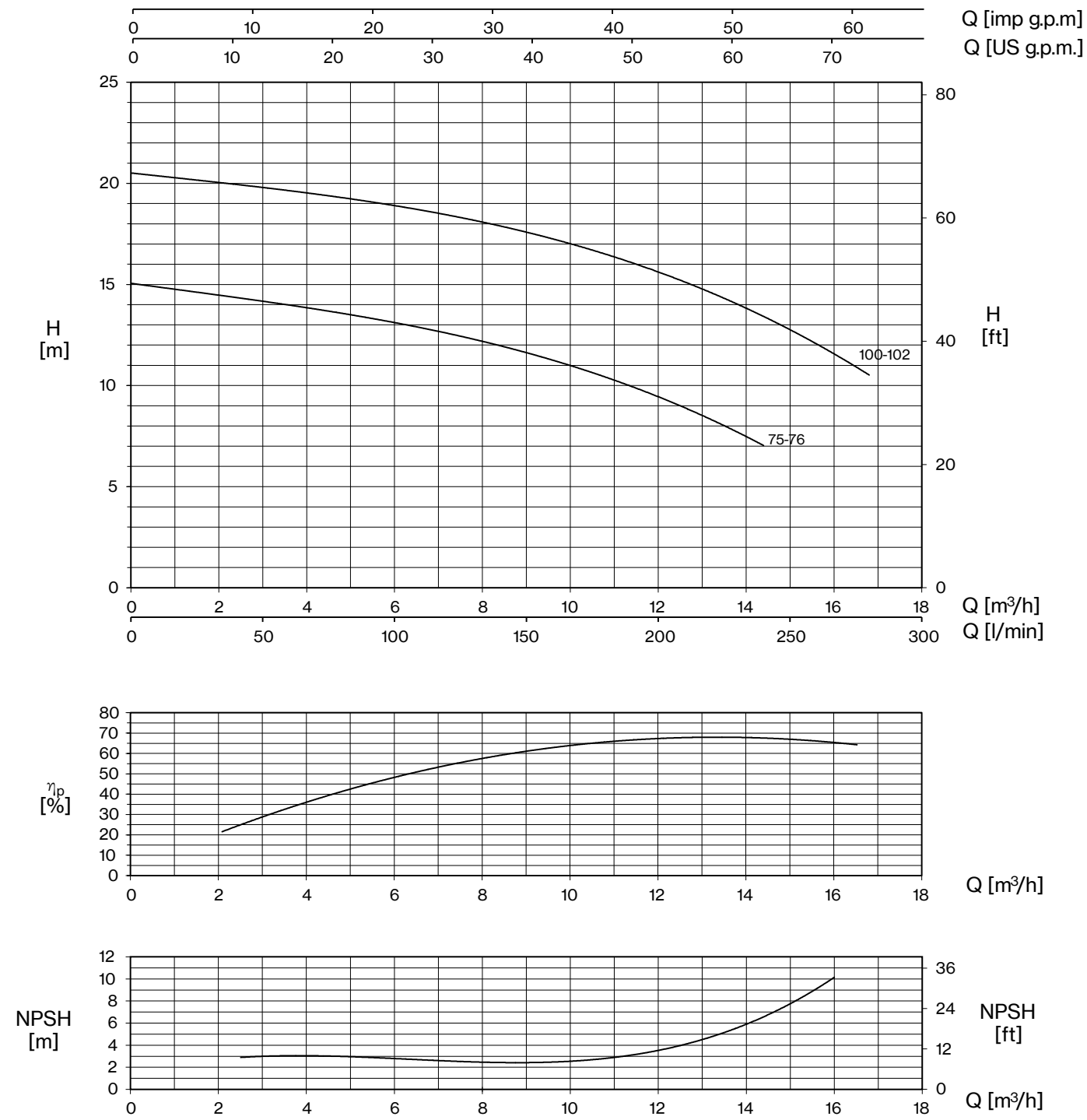
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
CR 75/76	6,8
CR 100/102	10,6

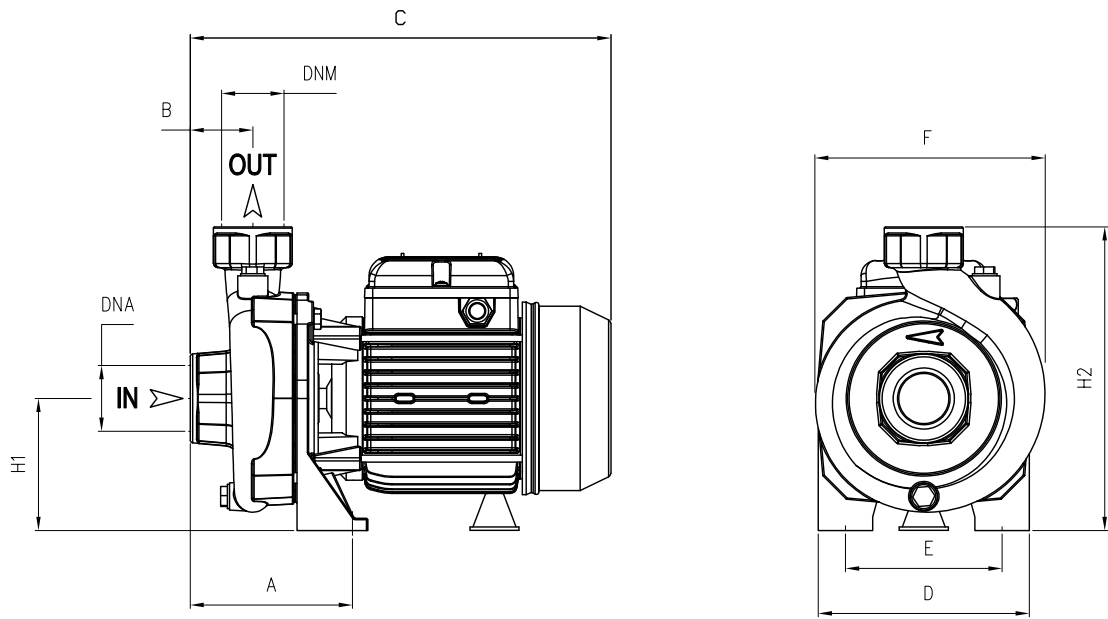


LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CR	85×110×145	65	85×110×195	91





TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)										
1~	3~					1~	3~	0	3	6	9	12	14,4	16,8				
						0	50	100	150	200	240	280						
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)										
CR 75	CRT 75	0,8	0,59	0,73	0,83	3,4	1,5	15	14,3	13	11,6	9,5	7					
CR 76	CRT 76	0,8	0,59	0,73	0,83	3,4	1,5	15	14,3	13	11,6	9,5	7					
CR 100	CRT 100	1	0,74	1,14	1,2	5,3	2,4	20,5	19,8	18,9	17,7	15,5	13,5	10,5				
CR 102	CRT 102	1	0,74	1,14	1,2	5,3	2,4	20,5	19,8	18,9	17,7	15,5	13,5	10,5				



TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	
CR 75	120	45	308	155	115	170	97	222	1" ½ G	1" ¼ G	325	200	265	13
CR 100	120	45	308	155	115	170	97	222			325	200	265	13
CR 76	120	45	308	155	115	170	97	222			325	200	265	14
CR 102	120	45	308	155	115	170	97	222			325	200	265	14



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

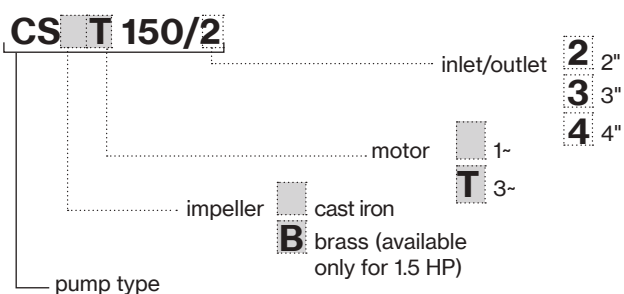
Construction features

Pump body	cast iron
Motor bracket	cast iron
Impeller	cast iron or brass (CSB)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303, stainless steel AISI 416 (CS 75-120)
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar

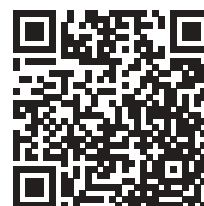
Motor

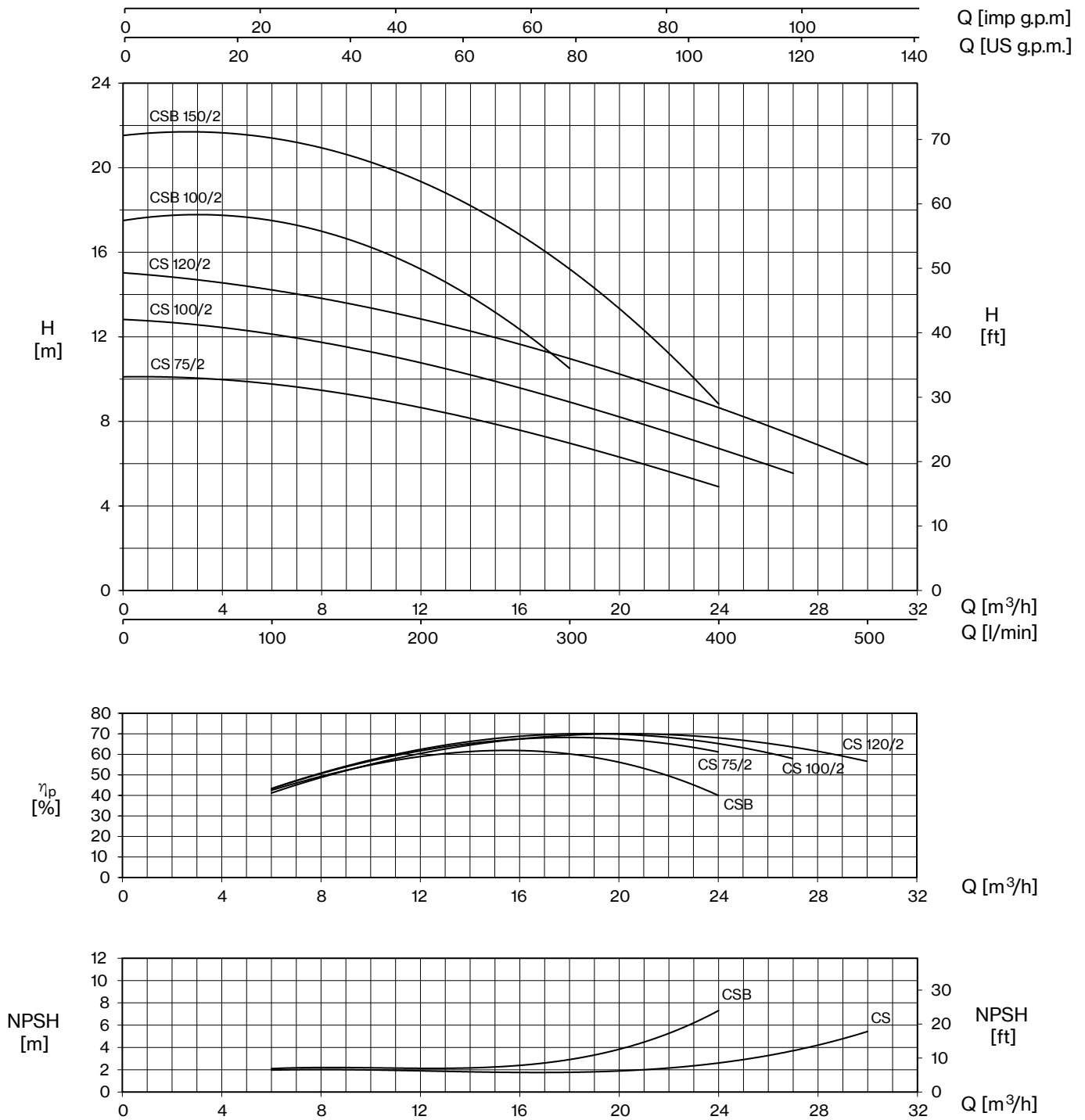
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4

1~ 110V - 60Hz	
TYPE	I (A)
CS 75/2	7,4
CS 100/2	10,6
CS 120/2	12,4
CSB 100/2	12



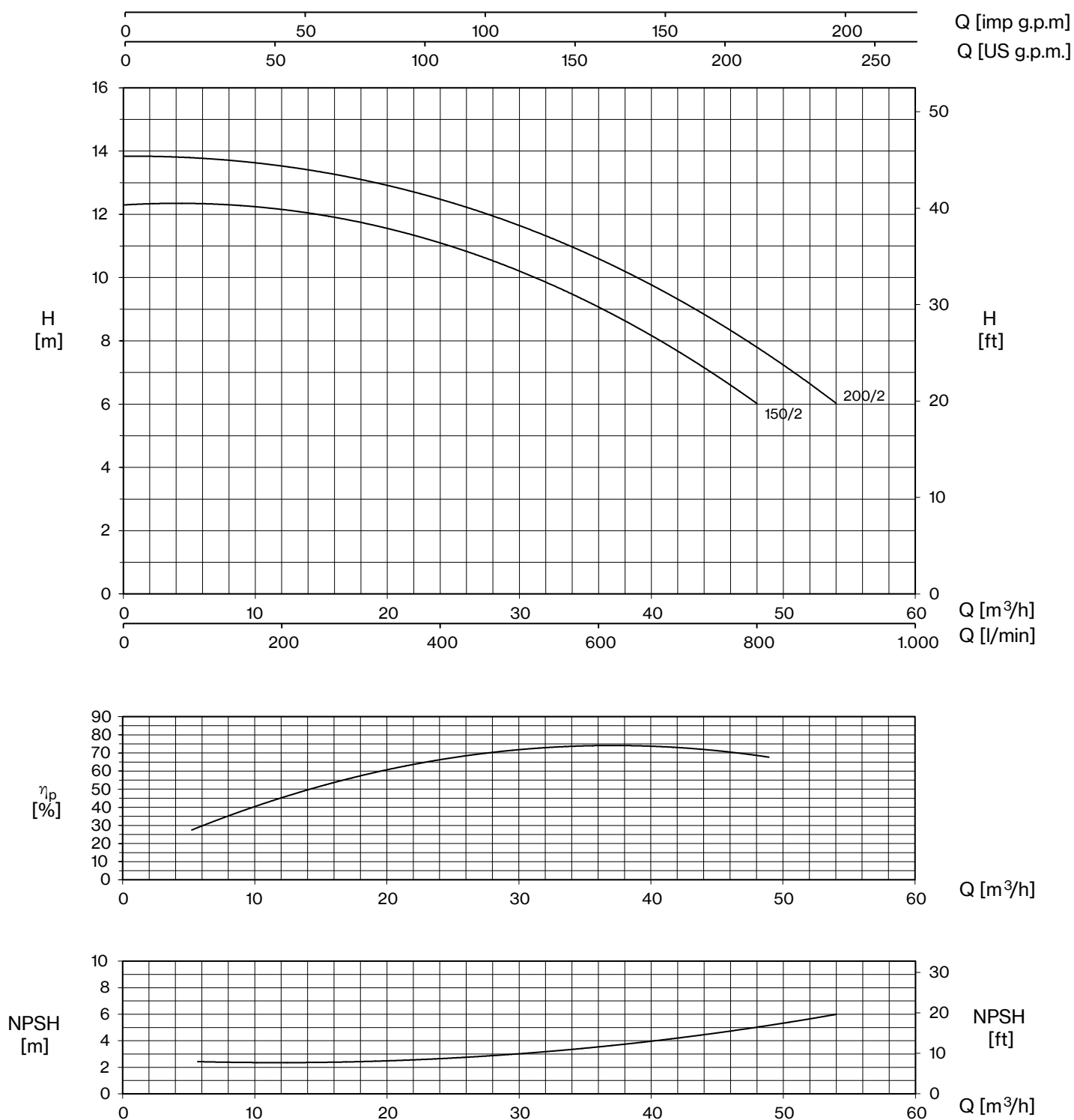
LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CS 75/2-120/2	90×110×145	65	90×110×195	91
CS 150/2-200/2	85×110×140	40	85×110×205	60
CS 200/3-300/3	85×110×150	30	85×110×180	60
CS 450/4-550/4	80×120×150	30	80×120×180	60





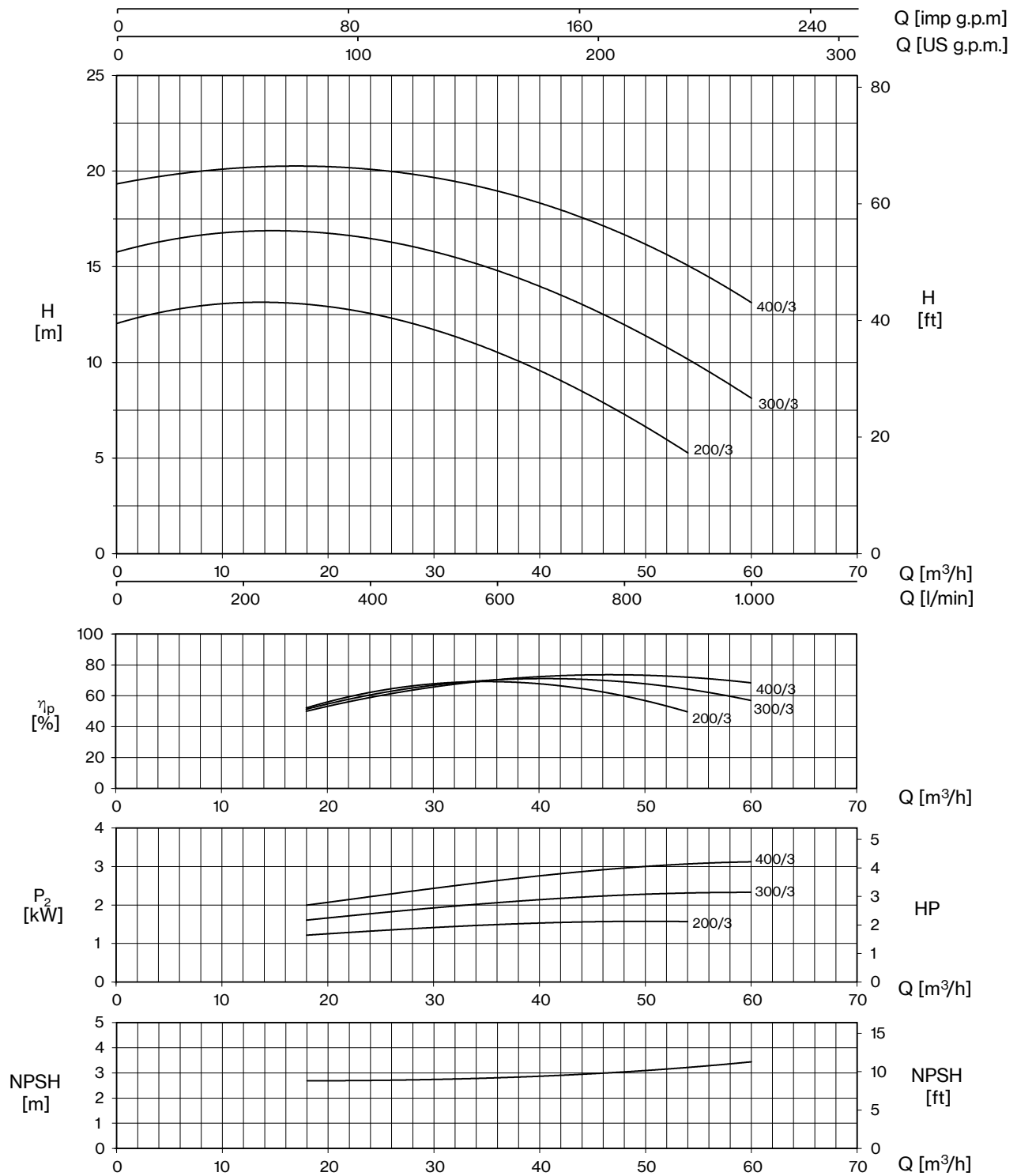
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	6	12	18	24	27	30
								0	100	200	300	400	450	500
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
CS 75/2	CST 75/2	0,8	0,59	0,8	0,75	3,7	1,5	9,7	9,6	8,7	7,2	4,9		
CS 100/2	CST 100/2	1	0,74	1,1	0,95	5,3	1,8	12	11,9	10,9	9,4	7,4	6,2	
CS 120/2	CST 120/2	1,2	0,9	1,3	1,2	6,2	2,2	15	14,8	13,6	12	9,8	8,5	7,2
CSB 100/2	-	1	0,74	1,23	-	6	-	17,5	17,5	15,2	10,5			
CSB 150/2	CSBT 150/2	1,5	1,1	1,78	1,65	8,5	3	21,5	21,5	19,2	15,3	8,8		



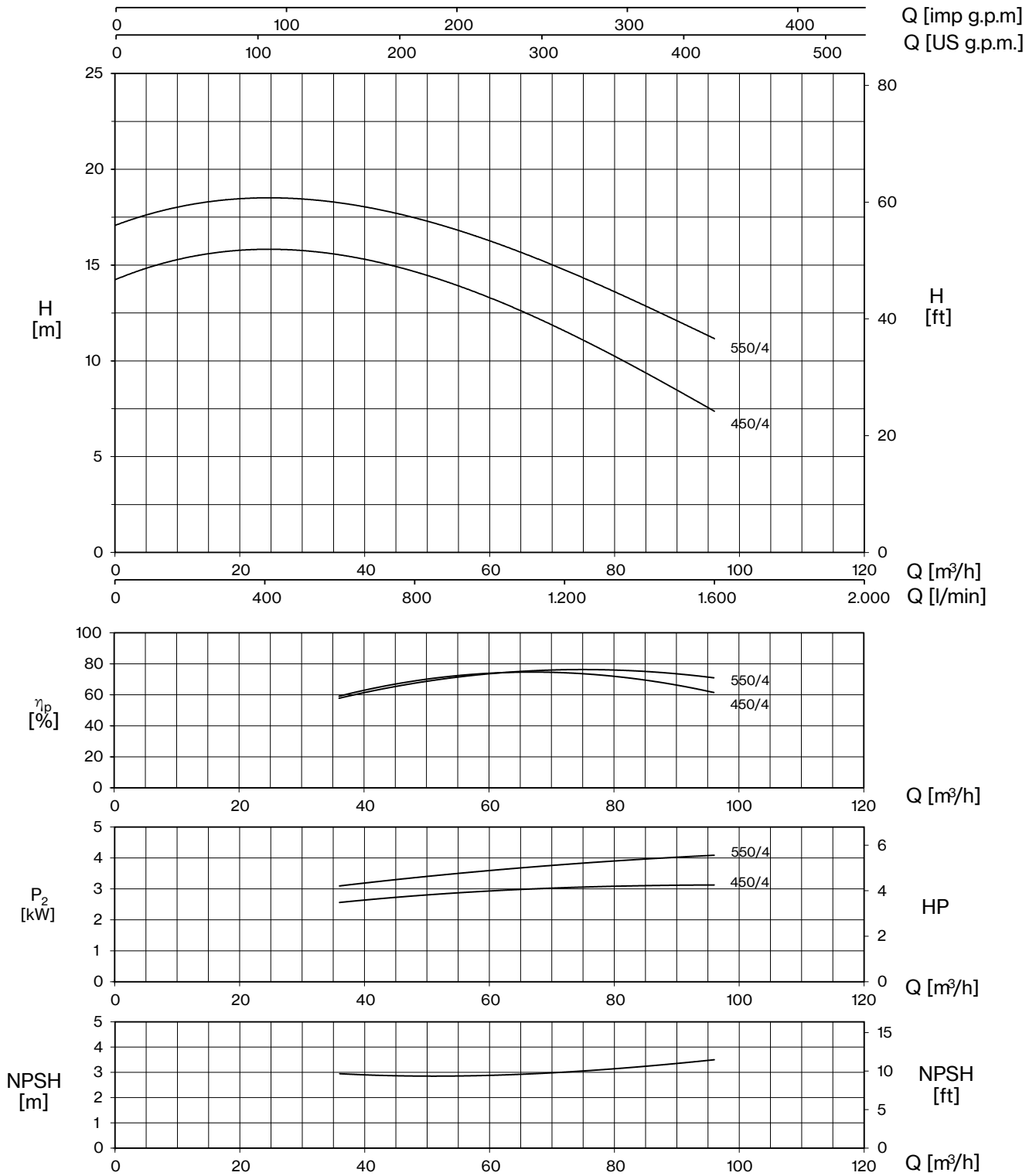


TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	6	12	18	24	30	36	42	48	54
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	100	200	300	400	500	600	700	800	900
								H (m)									
CS 150/2	CST 150/2	1,5	1,1	1,85	1,8	8,8	3,3	12,3	12,3	12,2	11,8	11	10,2	9,1	7,7	6	
CS 200/2	CST 200/2	2	1,5	2,1	2,1	10	3,9	13,8	13,8	13,6	13,1	12,4	11,6	10,6	9,4	7,8	6

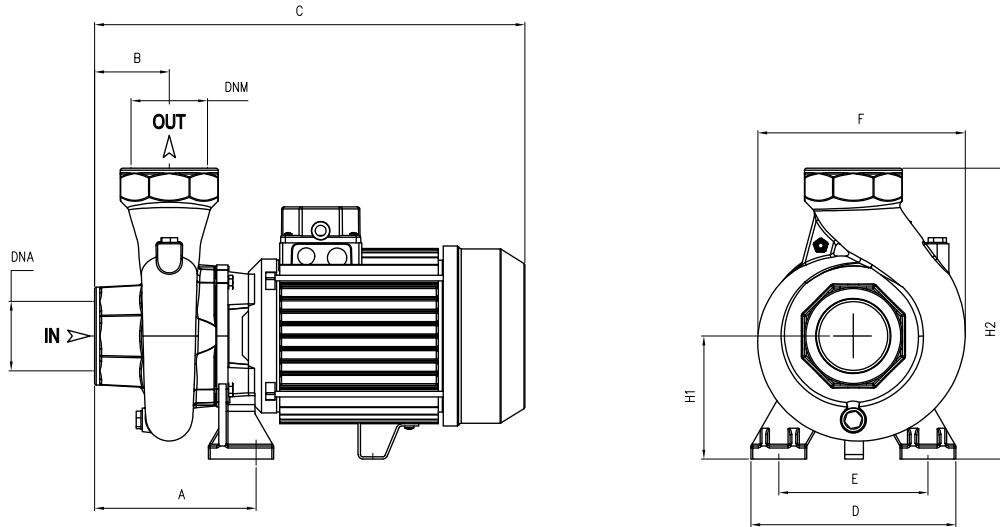




TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	18	24	30	36	42	48	54	60	
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	0	300	400	500	600	700	800	900	1000	
CS 200/3	CST 200/3	2	1,5	2	1,9	9,7	3,8	11,3	12,9	12,6	11,7	10,3	8,5	6,6	4,5		
CS 300/3	CST 300/3	3	2,2	2,8	2,7	13,8	5,3	15,4	16,8	16,7	15,9	14,8	13,4	11,4	9,3	7	
-	CST 400/3	4	3	-	3,5	-	6,7	19,5	20,8	20,6	20	18,9	17,6	15,9	13,9	11,6	



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	36	48	60	72	84	96
						1~	3~	0	600	800	1000	1200	1400	1600
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
CS 450/4	CST 450/4	4	3	3,6	3,6	17,2	6,7	13,9	15,4	14,6	12,8	10,9	9	6,7
-	CST 550/4	5,5	4	-	4,7	-	8,9	16,9	18,7	18	16,4	14,8	12,7	10,5



TYPE	DIMENSIONS (mm)														
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M		
CS 75/2	127	45	315	155	115	178	97	247	2" G	2" G	340	195	280	14,5	T 14
CS 100/2	127	45	315	155	115	178	97	247			340	195	280	16	T 15
CS 120/2	127	45	315	155	115	178	97	247			340	195	280	16	T 15,5
CSB 100/2	130	70	365	180	130	195	90	240			390	230	325	19	
CSB 150/2	130	70	365	180	130	195	90	240	2" G	2" G	390	230	325	20	T 19
CS 150/2	150	53	370	180	140	218	115	285			390	230	325	24,5	T 23,5
CS 200/2	150	53	370	180	140	218	115	285			390	230	325	25	T 24
CS 200/3	176,5	80	485	200	140	225	112	292	3" G	3" G	520	235	320	22,5	T 27,5
CS 300/3	176,5	80	485	200	140	225	112	292			520	235	320	32,5	T 34,5
CST 400/3	176,5	80	485	200	140	225	112	292			520	235	320	37	
CS 450/4	165	85	515	220	160	250	130	330	4" G	4" G	546	265	355	46	T 41,5
CST 550/4	165	85	515	220	160	250	130	330			546	265	355	46	



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

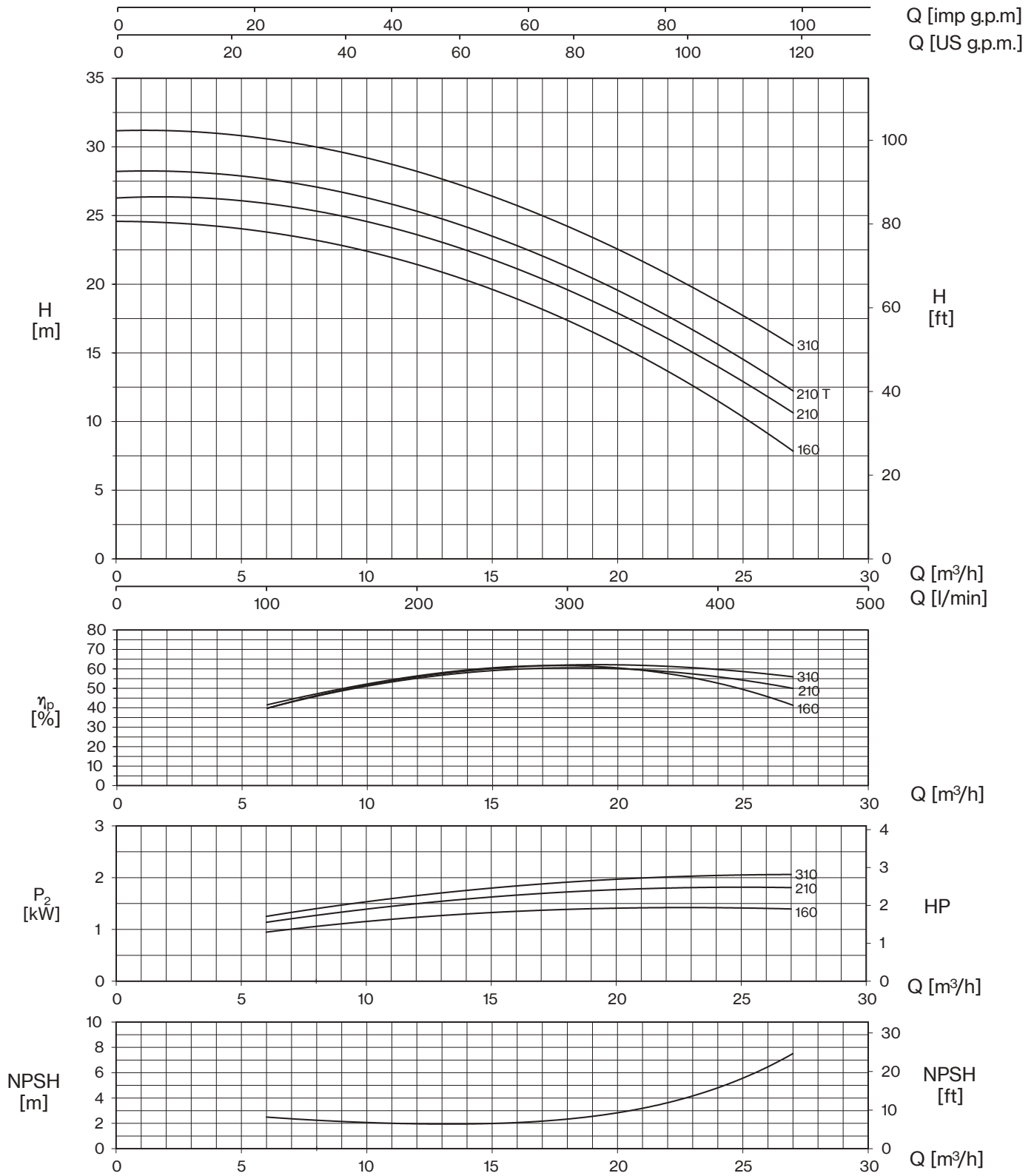
Pump body	cast iron
Motor bracket	cast iron
Impeller	brass (160-310) cast iron (350-550)
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 303
Liquid temperature	0 - 90 °C
Operating pressure	max 6 bar

Motor

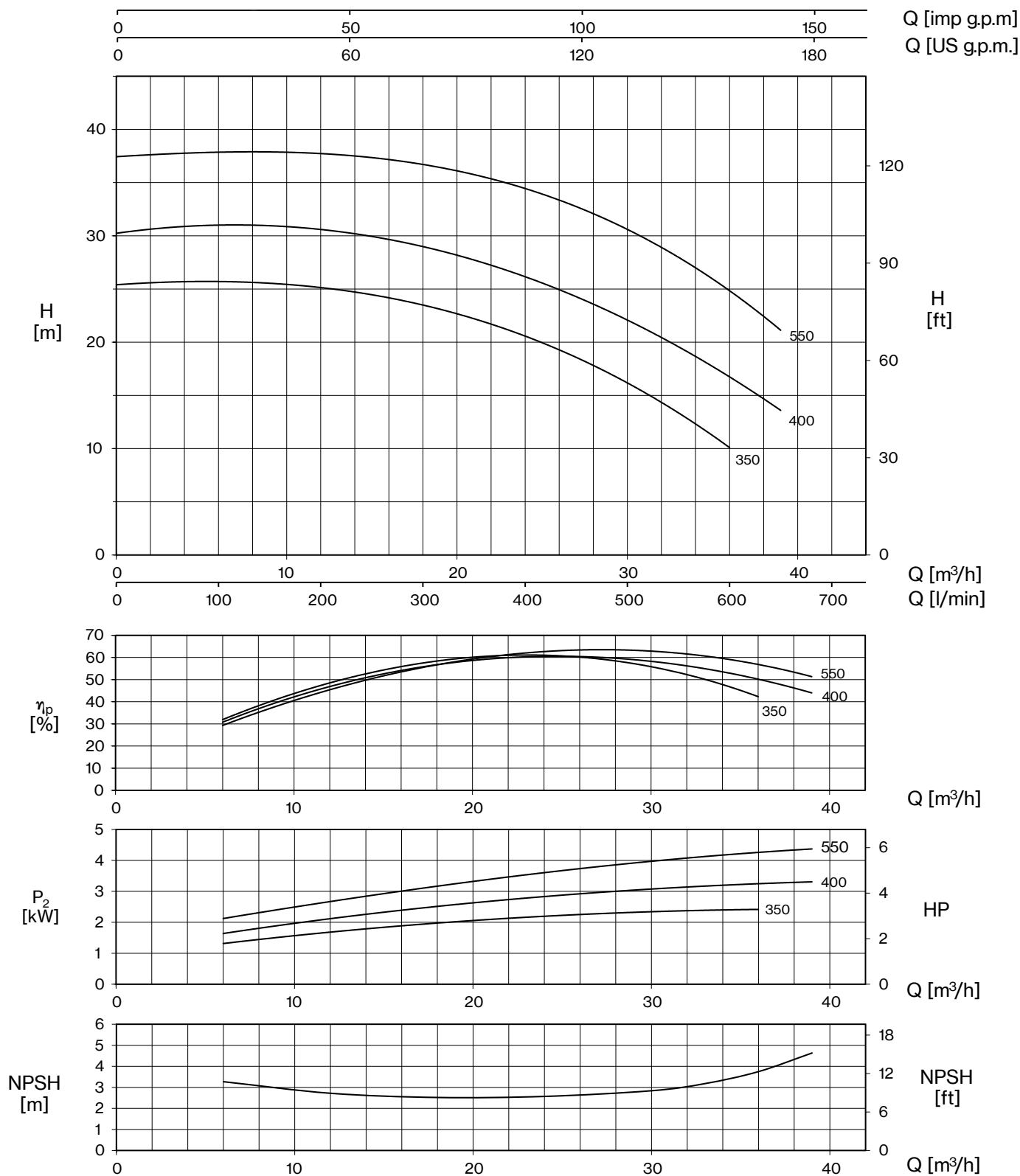
	3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection up to MEC 80)
Insulation class	F
Protection degree	IPX4

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
CH 160-310	85×11×140	40	85×110×195	60
CH 350-550	85×110×150	30	85×110×180	30

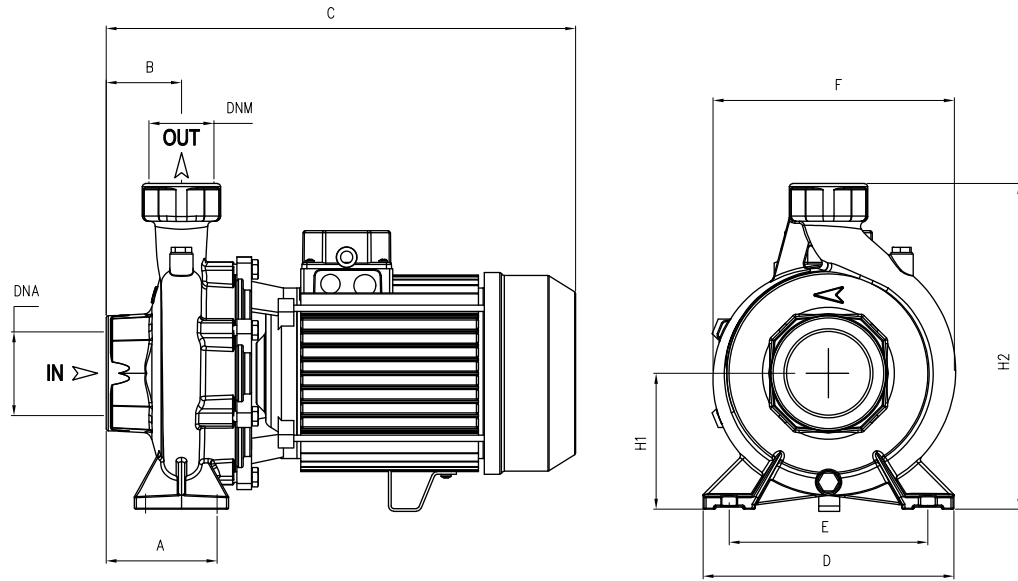




TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	6	9	12	15	18	21	24	27
								0	100	150	200	250	300	350	400	450
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
CH 160	CHT 160	1,5	1,1	1,8	1,8	8,3	3,4	24,5	23,9	22,9	21,4	19,5	17,3	14,7	11,6	7,8
CH 210	-	2	1,5	2,1	-	10,1	-	26,3	25,9	25	23,6	21,7	19,6	17,1	14,1	10,6
-	CHT 210	2	1,5	-	2,2	-	4,7	28,2	27,6	26,7	25,3	23,5	21,3	18,6	15,6	12,2
CH 310	CHT 310	3	2,2	2,8	2,6	12,4	5	31,2	30,5	29,6	28,3	26,4	24,3	21,6	18,6	15,6

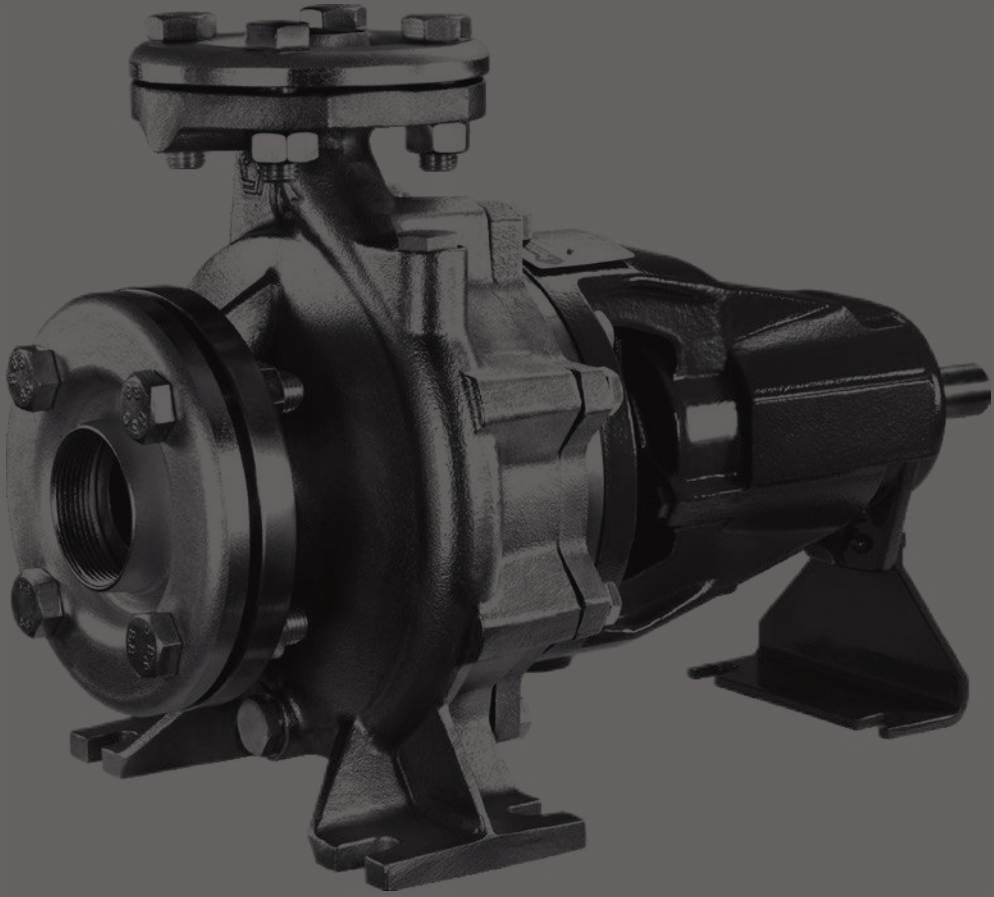
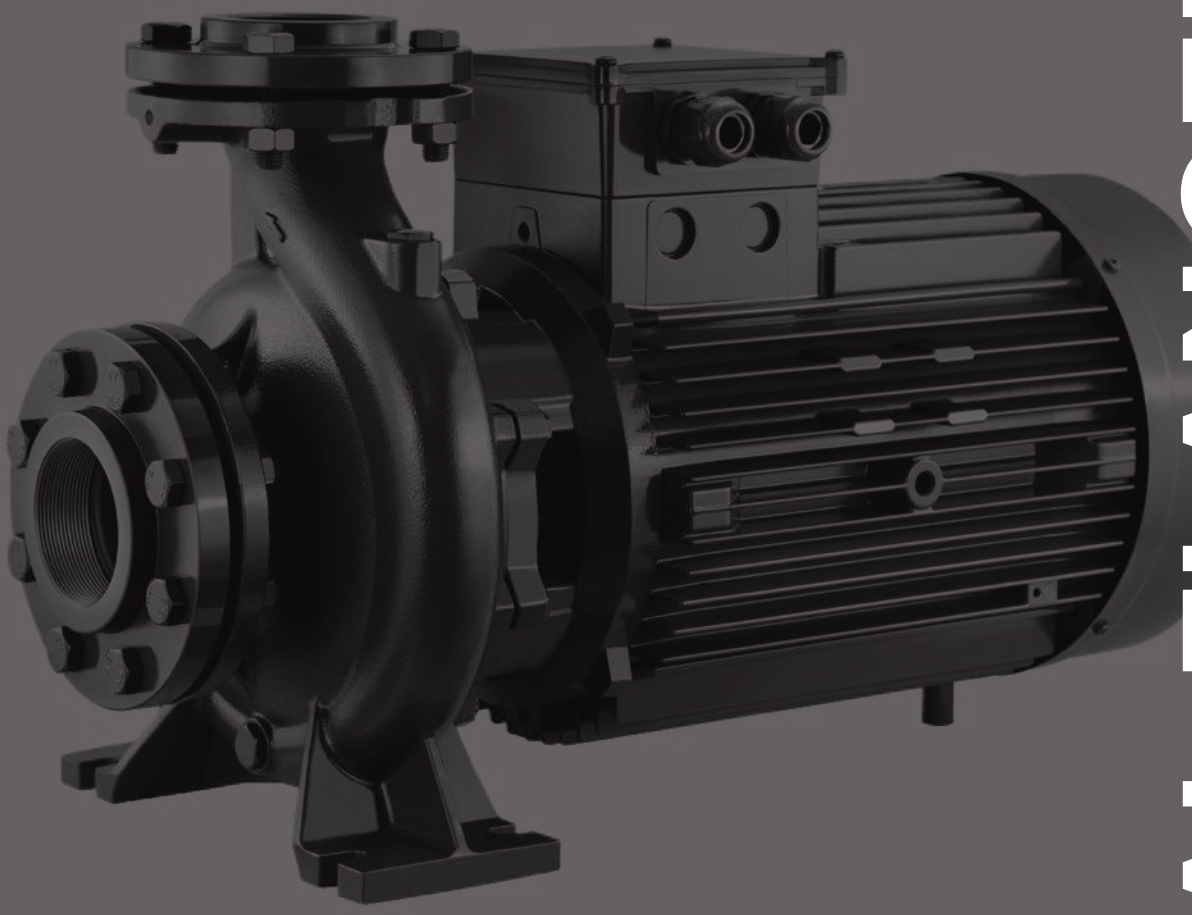


TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	6	12	18	24	30	33	36	39
						0	100	200	300	400	500	550	600	650		
		HP	kW	1~	3~	1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
CH 350	CHT 350	3	2,2	2,7	2,6	13,7	5,3	25	25,6	25	22,8	19,3	14,2	10,8	7,2	
CH 400	CHT 400	4	3	3,6	3,6	17	6,8	30,6	31,1	30,9	29	25,9	21,3	18,3	14,7	10,8
-	CHT 550	5,5	4	-	4,8	-	9,2	37,3	37,7	37,5	36	33,1	28,8	26,1	23,6	20,5



TYPE	DIMENSIONS (mm)														
	A	B	C	D	E	F	H1	H2	DNA	DNM	I	L	M	Kg	
CH 160	105	48	370	200	160	215	110	280	2" G	2" G	390	230	300	24,5	T 23,5
CH 210	105	48	370	200	160	215	110	280			390	230	300	25	
CH 310	105	48	410	200	160	215	110	280			430	230	300	31,5	
CHT 310	105	48	370	200	160	215	110	280			390	230	300	25,5	
CH 350	105	70	465	240	190	240	126	306	3" G	2" G	530	280	355	38	
CHT 350	105	70	425	240	190	240	126	306			530	280	355	35	
CH 400	105	70	480	240	190	240	126	306			530	280	355	45,5	
CHT 400	105	70	465	240	190	240	126	306			530	280	355	38,5	
CHT 550	105	70	480	240	190	240	126	306			530	280	355	45	





CENTRIFUGAL FLANGED

CENTRIFUGAL FLANGED PUMPS

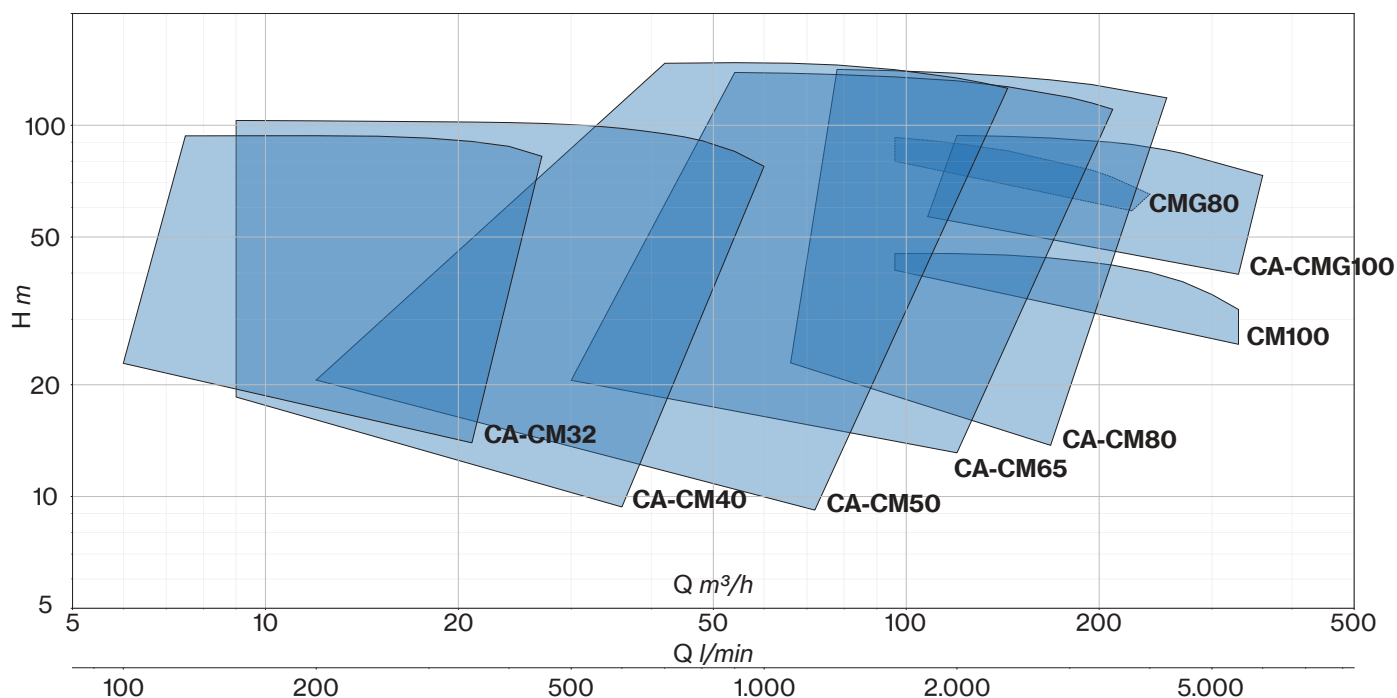


Wide range of centrifugal free axle and monobloc pumps, flanged with axial suction with hydraulic part entirely made of cast iron (CM, CMG, CA), and Aisi 316 (CAX).

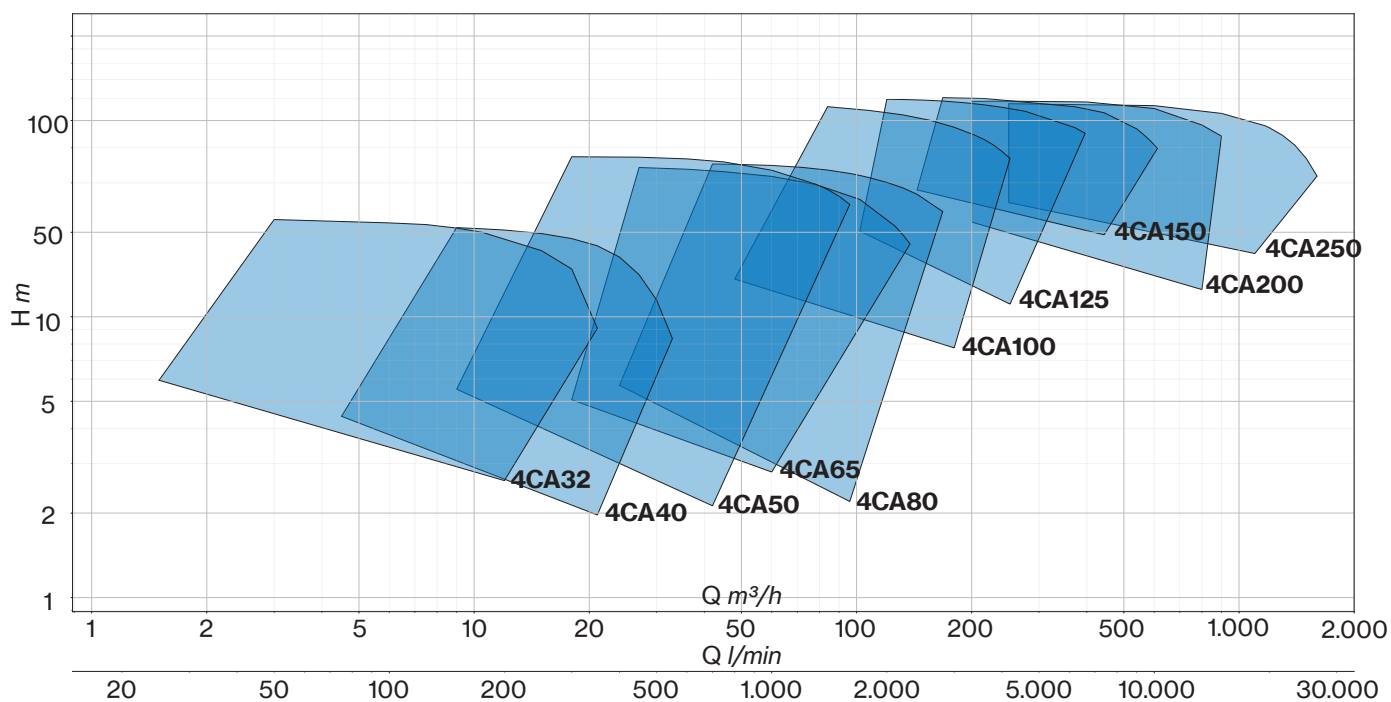
Applications:

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

2 Poles



4 Poles



2 Poles

TYPE	PUMP			
	CM	CMG	CA	CAX
32-160C	●	×	●	●
32-160B	●	×	●	●
32-160A	●	×	●	●
32-200C	●	×	●	●
32-200B1	●	×	×	●
32-200B	●	×	●	●
32-200A1	●	×	×	●
32-200A	●	×	●	●
32-250C	●	×	●	●
32-250B	●	×	●	●
32-250A	●	×	●	●
40-125C	●	×	●	●
40-125B	●	×	●	●
40-125A	●	×	●	●
40-160B	●	×	●	●
40-160A	●	×	●	●
40-160AP	●	×	●	●
40-200B1	●	×	-	●
40-200B	●	×	●	●
40-200A1	●	×	×	●
40-200A	●	×	●	●
40-200AP	●	×	●	●
40-250C	●	×	●	●
40-250B	●	×	●	●
40-250A	●	×	●	●
40-250BM	●	×	●	●
40-250AM	●	×	●	●
50-125B	●	×	●	●
50-125A	●	×	●	●
50-160B1	●	×	×	●
50-160B	●	×	●	●
50-160A1	●	×	×	●
50-160A	●	×	●	●
50-200C	●	×	●	●
50-200B	●	×	●	●
50-200A	●	×	●	●
50-250C	●	×	●	●
50-250B	●	×	●	●
50-250A	●	×	●	●
50-315DN	×	×	●	×
50-315CN	×	×	●	×
50-315BN	×	×	●	×
50-315AN	×	×	●	×
65-125B1	●	×	×	●
65-125B	●	×	●	●
65-125A1	●	×	×	●
65-125A	●	×	●	●
65-160C	●	×	●	●
65-160B	●	×	●	●
65-160A	●	×	●	●
65-200C	●	×	●	●
65-200B	●	×	●	●
65-200A	●	×	●	●
65-250B	●	×	●	●
65-250A	●	×	●	●
65-315CN	×	×	●	×
65-315BN	×	×	●	×
65-315AN	×	×	●	×

TYPE	PUMP			
	CM	CMG	CA	CAX
80-160E	●	×	●	●
80-160D	●	×	●	●
80-160C	●	×	●	●
80-160B	●	×	●	●
80-160A	●	×	●	●
80-200B	●	×	●	●
80-200A	●	×	●	●
80-250B	×	●	●	●
80-250A	×	●	●	●
80-315BN	×	×	●	×
80-315AN	×	×	●	×
100-160B	●	×	×	●
100-160B	●	×	×	●
100-200B	×	●	●	●
100-200A	×	●	●	●
100-250C	×	●	●	●
100-250B	×	●	●	●
100-250A	×	●	●	●

●=Available
×=Not available

Legend

CM: 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.

CMG: 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.

CA-CAX: Single-stage end-suction centrifugal frame-mounted pumps. Dimensions in accordance with EN 733.

4 Poles

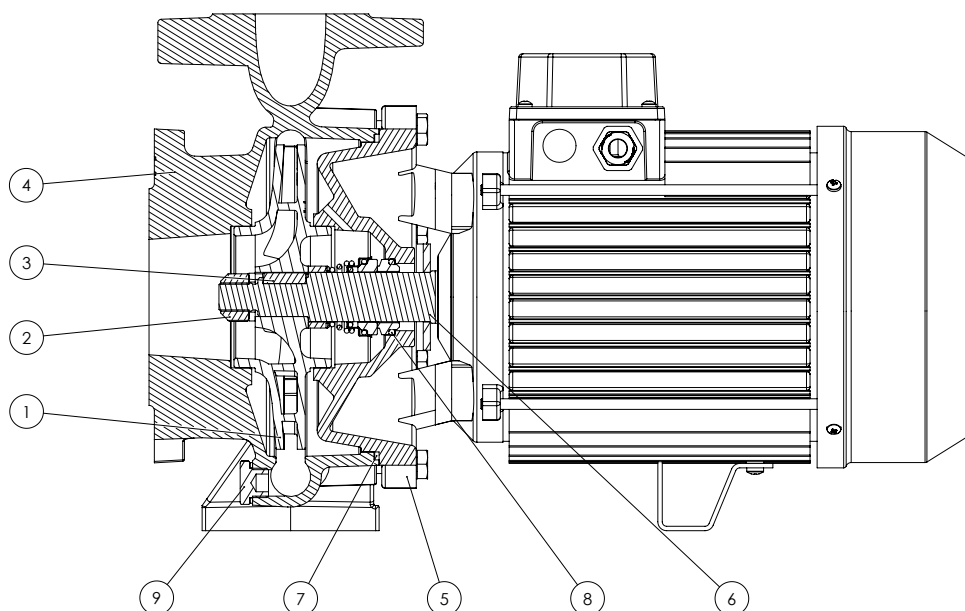
TYPE	PUMP
	4CA
32-160C	●
32-160B	●
32-160A	●
32-200C	●
32-200B1	×
32-200B	●
32-200A1	×
32-200A	●
32-250C	●
32-250B	●
32-250A	●
40-125C	●
40-125B	●
40-125A	●
40-160B	●
40-160A	●
40-160AP	●
40-200B1	×
40-200B	●
40-200A1	×
40-200A	●
40-200AP	●
40-250C	●
40-250B	●
40-250A	●
40-250BM	●
40-250AM	●
50-125B	●
50-125A	●
50-160B1	×
50-160B	●
50-160A1	×
50-160A	●
50-200C	●
50-200B	●
50-200A	●
50-250C	●
50-250B	●
50-250A	●
50-315C	●
50-315B	●
50-315A	●
65-125B1	×
65-125B	●
65-125A1	×
65-125A	●
65-160C	●
65-160B	●
65-160A	●
65-200C	●
65-200B	●
65-200A	●
65-250B	●
65-250A	●
65-315CM	●
65-315BM	●
65-315AM	●

TYPE	PUMP
	4CA
80-160E	●
80-160D	●
80-160C	●
80-160B	●
80-160A	●
80-200B	●
80-200A	●
80-250B	●
80-250A	●
80-315B	●
80-315A	●
100-160B	×
100-160B	×
100-200B	●
100-200A	●
100-250E	●
100-250D	●
100-250A	●
100-315B	●
100-315A	●
100-400C	●
100-400B	●
100-400A	●
125-250B	●
125-250A	●
125-315C	●
125-315B	●
125-315A	●
125-400C	●
125-400B	●
125-400A	●
150-315D	●
150-315C	●
150-315B	●
150-315A	●
150-400C	●
150-400B	●
150-400A	●
Not envisaged in the EN 733 standard	
200-315D	●
200-315C	●
200-315B	●
200-315A	●
200-400C	●
200-400B	●
200-400A	●
250-315C	●
250-315B	●
250-315A	●
250-400D	●
250-400C	●
250-400B	●
250-400A	●

●=Available
×=Not available

CM Series

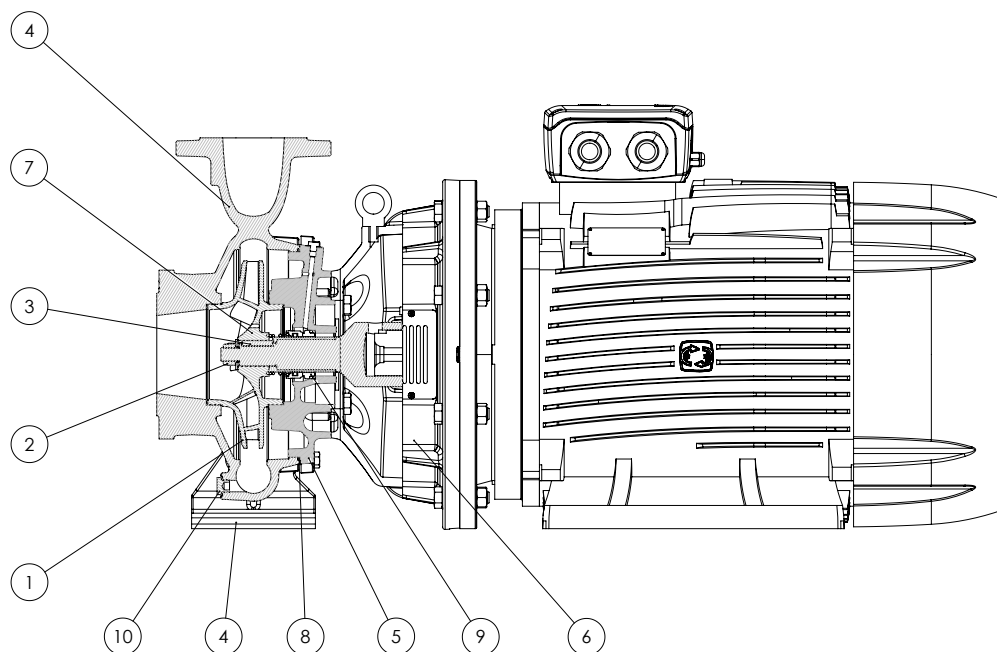
Models list and materials



POS: N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	Impeller	Standard B X	Cast iron G20 Bronze Stainless steel	GJL-200 (JL1030) CuSn10-C (CC480K) X5CrNiMo17-12-2/ 1.4401	ASTM Class 30 UNS C90700 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 for models up to 80-200 Standard from model 80-250	Cast iron G20 Cast iron G25	GJL-200 (JL1030) GJL-250 (JL1040)	ASTM Class 30 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 E V	NBR EPDM 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

CMG Series

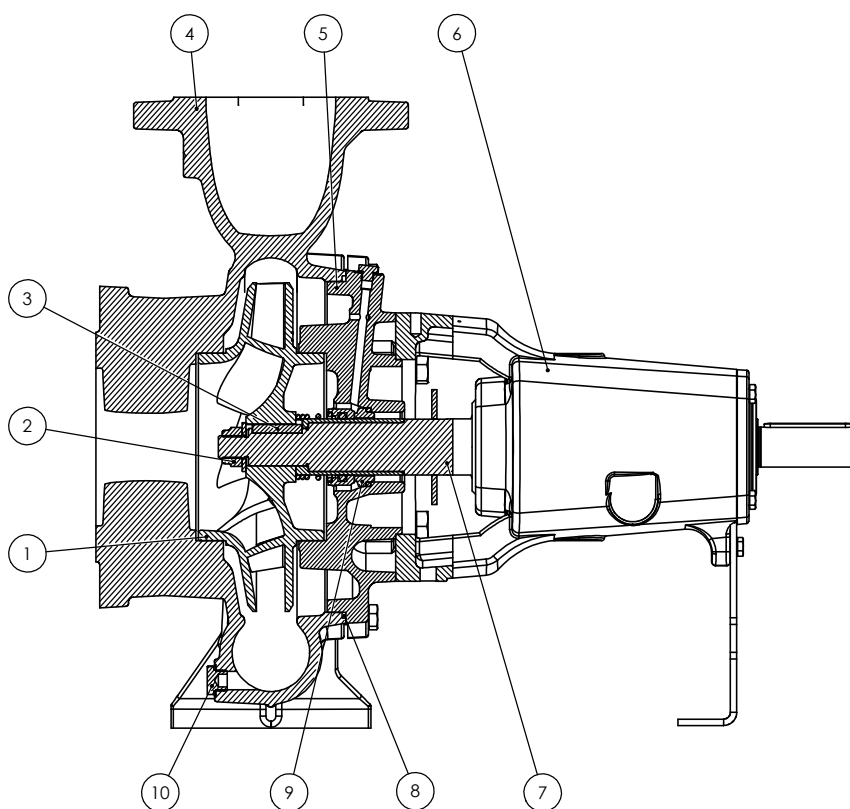
Models list and materials



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 EPDM FKM		
		E			
		V			
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

CA-4CA Series

Models list and materials



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



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; standard supply with counter-flange.

Construction features

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

Motor

2 Poles induction motor	3~ 220/380V - 60Hz
	1~ 220V - 60Hz
Insulation class	F
Protection degree	IPX5

CM 50-160A-B

impeller ☐ cast iron
☒ -B bronze
☒ -X AISI 316

— pump type



TYPE	LOTS			
	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/B	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/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

CMG-CMGX ~3500 r.p.m.

**Centrifugal Flanged
EN 733**



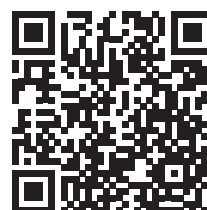
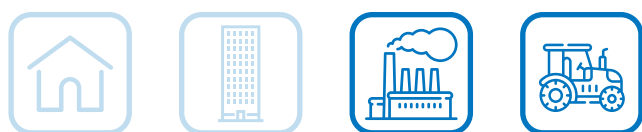
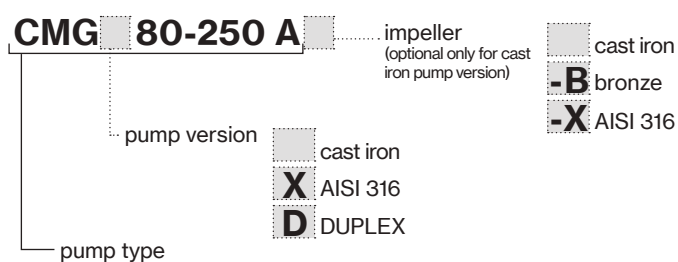
Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems; standard supply with counter-flange.

Construction features

Pump body	cast iron (CMG); stainless steel AISI 316 (CMGX)
Motor bracket	cast iron
Impeller	cast iron, bronze, steel (CMG); steel (CMGX)
Mechanical seal	ceramic-graphite-NBR
Pump shaft end	stainless steel AISI 316
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar

Motor

2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IPX5



CA/CAX

~ 3500 r.p.m.

4CA/4CAX

~ 1750 r.p.m.



CA/4CA



CAX/4CAX



Centrifugal Flanged EN 733

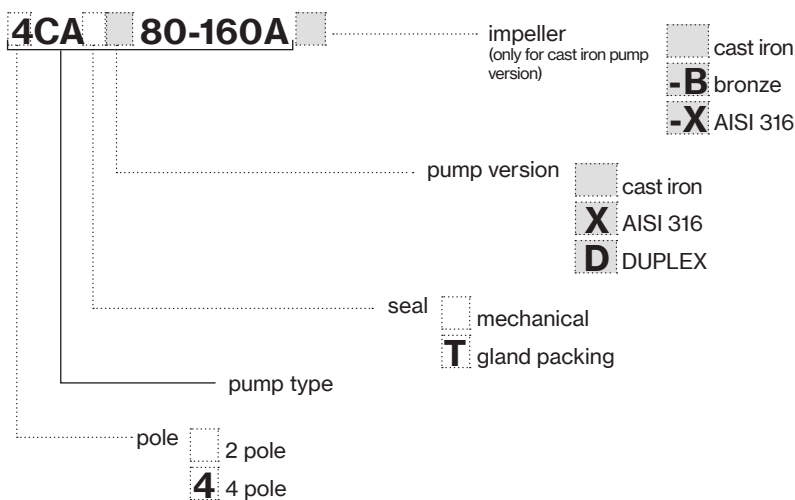
Bare shaft centrifugal pumps constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems. The pumps are supplied with counter-flange.

Construction features

Pump body	cast iron (CA); stainless steel AISI 316 (CAX)
Motor bracket	cast iron
Impeller	cast iron, bronze, steel (CA); stainless steel AISI 316 (CAX)
Seal	mechanical ceramic-graphite-NBR or gland packing graphite impregnated (CAT-CATX)
Pump shaft end	stainless steel AISI 316
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar max 14 bar (... -315 ~ 3500 r.p.m.)

Motor

Available with IE3 efficiency class motor



CA/CAX

~ 3500 r.p.m.

Centrifugal Flanged
EN 733

4CA /4CAX

~ 1750 r.p.m.

Construction variants



CAX
4CAX



CA
4CA

CA/CAX
4CA/4CAX
mechanical seal



CAT/CATX
4CAT/4CATX
gland packing seal



TYPE	P ₂ nom.		1~		3~		Q (m³/h - l/min)											
			P1 max kW	A 1x220V 60 Hz	P ₁ max kW	A 3x380V 60 Hz	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					H (m)											
32-160C	2	1,5	2	9,7	1,9	3,8	23,1	23,0	22,7	22,2	20,8	18,9	16,5	13,6				
32-160B	3	2,2	2,7	13,7	2,6	5,3	28,0	28,1	27,8	27,3	26,1	24,6	22,5	19,6	16,3			
32-160A	4	3	-	-	3,6	6,8	35,3	35,1	34,9	34,5	33,4	32,3	30,4	27,8	24,5	21,0		
32-200C	5,5	4	5,2	24,5	5	9,4	39,3	39,3	39,2	39	38,3	37,3	35,7	33,4	30,5	28,2		
32-200B1	7,5	5,5	-	-	6,6	12,1	47,7	47,6	47,6	47,5	46,9	45,9	44,7	42,9	40,5	37,4		
32-200B	7,5	5,5	-	-	6,7	11,6	47,7	47,6	47,6	47,5	46,9	45,9	44,7	42,9	40,5	37,4	35,7	
32-200A1	10	7,5	-	-	8,6	15,9	58,0	57,5	57,5	57,3	56,7	55,7	54,5	52,9	50,9	48,3	45,1	
32-200A	10	7,5	-	-	8,7	14,9	58,0	57,5	57,5	57,3	56,7	55,7	54,5	52,9	50,9	48,3	45,1	43,0
32-250C	12,5	9,2	-	-	9,9	17	76,2	-	74,3	74,0	72,9	71,2	69	66,4	63,4	59,5		
32-250B	15	11	-	-	12	20,5	87,6	-	85,6	85,4	84,6	83,2	81,1	78,6	75,7	72,3		
32-250A	20	15	-	-	14,1	24,3	96,7	-	95,1	94,9	94,4	93,2	91,4	89,1	86,4	83,2		

TYPE	P ₂ nom.		1~		3~		Q (m³/h - l/min)																	
			P1 max kW	A 1x220V 60 Hz	P ₁ max kW	A 3x380V 60 Hz	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					H (m)																	
40-125C	2	1,5	2	9,7	1,9	3,8	17,7	18,6	18,4	18	17,3	16,4	15,3	14	12,6	10,9	8,9							
40-125B	3	2,2	2,7	13,7	2,7	5,4	22,9	24,1	24,1	23,7	23,1	22,3	21,2	20,1	18,7	17,1	15,1	12,9						
40-125A	4	3	-	-	3,5	6,7	27,3	28,4	28,4	28,3	27,9	27,2	26,4	25,3	23,9	22,2	20,3	18,2	16,0					
40-160B	4	3	3,8	18,1	3,8	7,1	28,3	28,9	28,9	28,8	28,5	27,7	26,6	25,4	23,9	22,2	20,1							
40-160A	5,5	4	5	23,8	4,8	9	32,7	33,8	33,9	33,9	33,6	33,0	32,2	31,2	30,0	28,4	26,6	24,6	22,3					
40-160AP	7,5	5,5	-	-	6	11,3	38,2	39,5	39,8	39,7	39,4	38,8	38,0	37,0	35,7	34,1	32,5	30,8	28,8	26,6	24,2			
40-200B1	7,5	5,5	-	-	6,7	12,2	44,7	45,3	45,2	44,9	44,2	43,2	41,9	40,4	38,4	36,0	33,3	30,5						
40-200B	7,5	5,5	-	-	6,9	12,2	44,7	45,3	45,2	44,9	44,2	43,2	41,9	40,4	38,4	36,0	33,3	30,5	27,2					
40-200A1	10	7,5	-	-	8,9	16,4	55,2	56,3	56,3	56,4	55,9	55	53,8	52,4	50,7	48,6	46,1	43,4						
40-200A	10	7,5	-	-	9,2	15,7	55,2	56,3	56,3	56,4	55,9	55	53,8	52,4	50,7	48,6	46,1	43,4	40,1					
40-200AP	12,5	9,2	-	-	10,4	17,8	60,2	60,8	60,9	60,9	60,5	59,6	58,5	57,2	55,7	53,9	51,6	48,9	45,8	42,8				
40-250C	12,5	9,2	-	-	11,2	19,1	63,2	65,1	65,3	65,2	64,8	64,2	63,3	61,4	59	56,3	53,3							
40-250B	15	11	-	-	13,5	22,7	71,7	73,7	74,1	74	73,7	73,1	71,7	70,1	68,5	66,2	63,2	60,0						
40-250A	20	15	-	-	17,5	29,5	81,3	83,7	84,2	84,3	83,9	82,8	81,6	80,6	79,4	77,9	75,4	72,4	68,9	65,1				
40-250BM max 14 bar	25	18,5	-	-	20,6	35,3	89,8	91,8	91,8	91,4	91,0	90,6	90	89,4	88,8	88,1	87,3	85,7	83,2	80,1	76,5	68,1		
40-250AM max 14 bar	30	22	-	-	24,6	42,2	101,0	102,7	102,8	102,8	102,6	102,2	101,7	101,1	100,2	99,1	98	96,6	94,8	92,5	89,4	81,7	72,6	

TYPE	P ₂ nom.		1~		3~		Q (m³/h - l/min)																		
			P ₁ max kW	A 1x220V 60 Hz	P ₁ max kW	A 3x380V 60 Hz	0	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
	HP	kW					H (m)																		
							0	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
50-125B	4	3	3,7	17,6	3,7	6,8	20,2	20,6	20,5	20,3	20,1	19,8	19,5	19,1	18,7	18,3	17,8	17,3	16,7	16,1	14,5	12,6	10,5	8,4	
50-125A	5,5	4	5	23,5	4,8	9	23,7	24,6	24,5	24,5	24,3	24,1	23,9	23,6	23,3	22,9	22,4	21,9	21,3	20,6	19,2	17,5	15,4	13,4	
50-160B1	7,5	5,5	-	-	6,5	12,1	34,2				35,1	34,8	34,4	33,8	33,1	32,4	31,6	30,8	29,8	28,8	26,6	24,0	21,0		
50-160B	7,5	5,5	-	-	6,6	11,4	34,2				35,1	34,8	34,4	33,8	33,1	32,4	31,6	30,8	29,8	28,8	26,6	24,0	21,0	17,6	
50-160A1	10	7,5	-	-	8,7	16,2	40,5				42,4	42,4	42,2	41,9	41,4	40,8	40,2	39,5	38,7	37,8	35,7	33,2	30,6	27,9	
50-160A	10	7,5	-	-	8,8	15,1	40,5				42,4	42,4	42,2	41,9	41,4	40,8	40,2	39,5	38,7	37,8	35,7	33,2	30,6	27,9	24,5
50-200C	12,5	9,2	-	-	10,3	17,6	48,1					50,2	49,7	49,0	48,2	47,3	46,3	45,2	44,0	42,6	39,4	35,6	30,8	25,2	
50-200B	15	11	-	-	12,3	20,9	54,9					57,1	56,7	56,1	55,3	54,5	53,5	52,4	51,3	50,0	47,0	43,3	39	34,4	
50-200A	20	15	-	-	15	25,7	62					64,9	64,6	64,1	63,5	62,7	61,8	60,7	59,6	58,3	55,5	52,3	48,1	43,5	38,4
50-250C	20	15	-	-	16,5	27,9	67,8						66,7	66,1	65,4	64,6	63,8	62,9	61,7	60,3	56,9	53,3	49,3		
50-250B	25	18,5	-	-	21,1	36	78,1						78,1	77,4	76,7	75,9	75,1	74,1	72,9	71,5	68,3	64,3	59,9	55,6	
50-250A	30	22	-	-	24,5	42	87,2						87,1	86,5	85,9	85,3	84,8	84,1	83,2	82,2	79,6	76,2	72,1	67,7	63,1



TYPE	P ₂ nom.		3~ P ₁ max 3x380V 60 Hz		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
	HP	kW	H (m)																						
65-125B1	7,5	5,5	6,4	11,9	18,2	19,6	19,5	19,4	19,2	19	18,8	18,5	18	17,7	17,5	17,2	16,9	16,4	15	13,7					
65-125B	7,5	5,5	6,7	11,6	18,2	19,6	19,5	19,4	19,2	19	18,8	18,5	18	17,7	17,5	17,2	16,9	16,4	15	13,7	11,9				
65-125A1	10	7,5	8,6	16	23,3	24,7	24,7	24,6	24,5	24,4	24,3	24,1	23,8	23,4	23	22,7	22,3	21,7	20,4	19	17,4				
65-125A	10	7,5	8,7	14,9	23,2	24,7	24,7	24,6	24,5	24,4	24,3	24,1	23,8	23,4	23	22,7	22,3	21,7	20,4	19	17,4	15,1			
65-160C	12,5	9,2	10,3	17,6	29,5					30,7	30,5	30,3	29,8	29,3	28,8	28,2	27,5	26,8	24,9	22,5	19,7	16,8	15,4	13,6	
65-160B	15	11	12,6	21,3	33,9					35,7	35,6	35,4	35	34,5	34	33,4	32,7	32	30,3	28	25,3	22,1	20,4	19	
65-160A	20	15	17	28,7	41,6					44,1	44	43,9	43,7	43,3	42,8	42,3	41,7	41,1	39,8	37,8	35,3	32,3	30,7	28,9	
65-200C	20	15	17	28,9	44,8								45,2	44,5	43,6	42,7	41,8	41	38,6	35	30,9	27	25,5		
65-200B	25	18,5	21,2	36,2	52,1								53,8	53	52,3	51,6	50,8	49,9	47,8	45,4	41,4	37	34,7	32,6	
65-200A	30	22,5	25,3	43,3	59,0								61,9	61,3	60,6	60	59,3	58,6	56,5	54,2	51,4	46,9	44,4	41,8	
65-250B	40	30	32	55,7	79,8								80,8	79,7	78,4	77	75,5	73,9	70,4	66,3	61,2	54,9	51,5	49	
65-250A	50	37	37,1	66,3	90,2								91,8	90,8	89,6	88,1	86,5	85	81,4	77	72	66	62,6	60,7	57,5

TYPE	P ₂ nom.		3~		Q (m³/h - l/min)																	
			P ₁ max kW	A 3x380V 60 Hz	0	66	72	78	84	96	108	120	132	138	144	150	156	168	180	195	210	225
	0	1100			1200	1300	1400	1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	3750		
	HP	kW	H (m)																			
80-160E	12,5	9,2	10,3	17,6	20,7	22,5	21,9	21,3	20,8	19,7	18,8	17,9	16,6	16	15,5	15	14,6	13,5				
80-160D	15	11	12,4	21	23,9	25,9	25,4	24,8	24,3	23,3	22,5	21,8	20,5	19,8	19,1	18,5	18,0	16,9	15,5			
80-160C	20	15	16,0	27,1	29,4	32,6	32,2	31,8	31,3	30,3	29,3	28,2	27,2	26,6	26	25,4	24,8	23,4	21,9	19,2		
80-160B	25	18,5	19,3	33,4	34,9	37,9	37,6	37,3	36,9	36	35	33,9	32,7	32,1	31,5	30,9	30,4	29,2	27,5	24,9	22,3	
80-160A	30	22,5	22,5	39,1	38,8	42,4	42,1	41,8	41,4	40,6	39,7	38,7	37,5	36,8	36,1	35,5	34,9	33,6	32,1	29,8	27,4	24,5

TYPE	P ₂ nom.		3~		Q (m³/h - l/min)																
			P ₁ max kW	A 3x380V 60 Hz	0	84	96	108	120	132	138	144	150	156	168	180	195	210	225	240	
	0	1400			1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	3750	4000			
	HP	kW			H (m)																
80-200B	40	30	33	57,2	49,4	53,8	53	52	51,1	50,2	49,7	49,2	48,7	48,1	47	45,6	43,6	40,8	37,6		
80-200A	50	37	39,2	69,4	56,7	62,1	61,5	60,6	59,7	58,8	58,2	57,7	57,2	56,6	55,4	53,9	51,7	49,4	46,8	43,8	

TYPE	P ₂ nom.		3~		Q (m³/h - l/min)																
			P ₁ max kW	A 3x380V 60 Hz	0	108	120	132	138	144	150	156	168	180	195	210	225	240	270	300	330
	HP	kW			0	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	3750	4000	4500	5000	5500
	H (m)																				
100-160B	40	30	32,7	56,6	40,6	39,4	39,3	39,1	38,9	38,6	38,3	38	37,2	36,4	35,2	34	32,9	31,7	29	25,8	21,8
100-160A	50	37	39,7	70,1	47,6	46,7	46,6	46,4	46,2	46	45,8	45,6	45	44,3	43,3	42,1	41	39,9	37,5	34,4	30,2



CMG-CMGX ~ 3500 r.p.m.

Centrifugal Flanged
EN 733

TYPE	P ₂ nom. kW	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
			H (m) <i>pump input power (kW)</i>																		
80-250B	45	225M	77,2	77,7	76,4	75,2	74	73,3	72,6	70,9	69,1	67,3	64,9	62,3	59,5						
			14,22	32,00	34,32	36,41	37,94	38,70	39,45	41,09	42,67	44,03	45,51	46,76	47,80						
80-250A	55	250M	90	92,0	90,8	89,4	87,9	87	86,1	84,1	81,9	79,7	77,1	74,2	71	68					
			17,04	37,50	39,95	42,26	44,45	45,48	46,46	48,24	49,83	51,32	53,03	54,66	56,20	57,50					
100-200B	45	225M	60,2		60,6	60,2	59,6	59,3	59	58,5	57,9	57,1	55,9	54,6	53	51,3	49,5	47,7	43,4	38,5	
			21,69		29,77	30,83	31,89	32,42	32,96	34,07	35,19	36,32	37,73	39,12	40,37	41,51	42,42	43,16	44,26	45,12	
100-200A	55	250M	65,5		66,3	65,9	65,3	65,0	64,7	64,2	63,7	63,1	62,1	61,0	59,7	58,1	56,4	54,5	50,4	46,1	39,9
			24,80		34,31	35,51	36,72	37,32	37,94	39,19	40,45	41,65	43,02	44,31	45,63	46,97	48,14	49,15	50,77	52,16	52,86
100-250C	55	250M	79,9			81,0	80,7	80,6	80,4	79,9	79,4	78,7	77,7	76,5	74,9	73,1	70,9	68,6	64,1		
	75	280S	25,58			43,12	44,90	45,79	46,68	48,46	50,21	51,90	53,93	55,86	57,68	59,39	60,96	62,44	65,30		
100-250B	75	280S	90			89,9	89,6	89,4	89,2	88,8	88,2	87,6	86,8	85,9	84,7	83,3	81	78,4	73,2	70,9	
			29,82			49,11	51,23	52,27	53,30	55,34	57,27	58,98	60,82	62,59	64,38	66,22	68,39	70,55	73,87	77,92	
100-250A	90	280M	100,5			100,7	100,3	100,1	99,8	99,2	98,4	97,6	96,4	95,0	93,2	91,2	89,3	87,1	81,8	78,7	74
			32,74			54,04	56,39	57,55	58,71	61,08	63,34	65,30	67,40	69,46	71,65	73,82	75,81	77,67	81,17	85,71	88,00



TYPE	P ₂ nom. kW	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	
			H (m) / <i>pump input power (kW)</i>												
32-160C	1,5	90S	23,1 <i>0,53</i>	23,0 <i>0,92</i>	22,7 <i>1,01</i>	22,2 <i>1,09</i>	20,8 <i>1,25</i>	18,9 <i>1,39</i>	16,5 <i>1,52</i>	13,6 <i>1,63</i>					
32-160B	2,2	90L	28,0 <i>0,76</i>	28,1 <i>1,23</i>	27,8 <i>1,34</i>	27,3 <i>1,45</i>	26,1 <i>1,65</i>	24,6 <i>1,83</i>	22,5 <i>2,00</i>	19,6 <i>2,14</i>	16,3 <i>2,26</i>				
32-160A	3	100L	35,3 <i>1,10</i>	35,1 <i>1,64</i>	34,9 <i>1,79</i>	34,5 <i>1,92</i>	33,4 <i>2,18</i>	32,3 <i>2,42</i>	30,4 <i>2,65</i>	27,8 <i>2,84</i>	24,5 <i>3,02</i>	21,0 <i>3,17</i>			
32-200C	4	112M	39,3 <i>1,59</i>	39,3 <i>2,27</i>	39,2 <i>2,46</i>	39,0 <i>2,64</i>	38,3 <i>2,97</i>	37,3 <i>3,31</i>	35,7 <i>3,61</i>	33,4 <i>3,88</i>	30,5 <i>4,13</i>	28,2 <i>4,34</i>			
32-200B	5,5 7,5	132S 132S	47,7 <i>2,23</i>	47,6 <i>3,05</i>	47,6 <i>3,26</i>	47,5 <i>3,49</i>	46,9 <i>3,91</i>	45,9 <i>4,32</i>	44,7 <i>4,70</i>	42,9 <i>5,05</i>	40,5 <i>5,40</i>	37,4 <i>5,70</i>	35,7 <i>5,98</i>		
32-200A	7,5	132S	58,0 <i>2,90</i>	57,5 <i>3,84</i>	57,5 <i>4,09</i>	57,3 <i>4,35</i>	56,7 <i>4,86</i>	55,7 <i>5,34</i>	54,5 <i>5,80</i>	52,9 <i>6,26</i>	50,9 <i>6,67</i>	48,3 <i>7,00</i>	45,1 <i>7,37</i>	43,0 <i>7,74</i>	
32-250C	11	160M	76,2 <i>4,06</i>		74,3 <i>5,60</i>	74,0 <i>5,94</i>	72,9 <i>6,53</i>	71,2 <i>7,08</i>	69,0 <i>7,56</i>	66,4 <i>8,00</i>	63,4 <i>8,48</i>	59,5 <i>8,93</i>			
32-250B	11	160M	87,6 <i>5,29</i>		85,6 <i>7,03</i>	85,4 <i>7,39</i>	84,6 <i>8,09</i>	83,2 <i>8,76</i>	81,1 <i>9,37</i>	78,6 <i>9,96</i>	75,7 <i>10,50</i>	72,3 <i>11,00</i>			
32-250A	15	160M	96,7 <i>6,27</i>		95,1 <i>8,20</i>	94,9 <i>8,61</i>	94,4 <i>9,42</i>	93,2 <i>10,18</i>	91,4 <i>10,92</i>	89,1 <i>11,61</i>	86,4 <i>12,27</i>	83,2 <i>12,85</i>			

TYPE	P ₂ nom. kW	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	
			H (m) / pump input power (kW)																	
40-125C	1,5	90S	17,7	18,6	18,4	18,0	17,3	16,4	15,3	14,0	12,6	10,9	8,9							
	2,2	90L	0,54	0,97	1,11	1,23	1,33	1,43	1,50	1,55	1,59	1,60	1,60							
40-125B	2,2	90L	22,9	24,1	24,1	23,7	23,1	22,3	21,2	20,1	18,7	17,1	15,1	12,9						
	3	100L	1,79	1,33	1,52	1,68	1,83	1,96	2,08	2,17	2,24	2,29	2,32	2,34						
40-125A	3	100L	27,3	28,4	28,4	28,3	27,9	27,2	26,4	25,3	23,9	22,2	20,3	18,2	16,0					
			1,08	1,67	1,90	2,10	2,29	2,45	2,59	2,71	2,82	2,91	2,98	3,02	3,05					
40-160B	3	100L	28,3	28,9	28,9	28,8	28,5	27,7	26,6	25,4	23,9	22,2	20,1							
	4	112M	1,25	1,95	2,16	2,38	2,59	2,77	2,94	3,07	3,18	3,26	3,33							
40-160A	4	112M	32,7	33,8	33,9	33,9	33,6	33,0	32,2	31,2	30,0	28,4	26,6	24,6	22,3					
			1,42	2,22	2,47	2,72	2,95	3,18	3,40	3,60	3,78	3,91	4,02	4,11	4,19					
40-160AP	5,5	132S	38,2	39,5	39,8	39,7	39,4	38,8	38,0	37,0	35,7	34,1	32,5	30,8	28,8	26,6	24,2			
			1,96	2,88	3,18	3,48	3,76	4,02	4,26	4,47	4,66	4,84	5,00	5,14	5,26	5,36	5,43			
40-200B	5,5	132S	44,7	45,3	45,2	44,9	44,2	43,2	41,9	40,4	38,4	36,0	33,3	30,5	27,2					
	7,5	132S	2,31	3,35	3,71	4,06	4,42	4,71	4,98	5,26	5,49	5,70	5,89	6,04	6,11					
40-200A	7,5	132S	55,2	56,3	56,3	56,4	55,9	55,0	53,8	52,4	50,7	48,6	46,1	43,4	40,1					
	11	160M	3,25	4,46	4,91	5,35	5,76	6,16	6,53	6,87	7,20	7,50	7,77	8,03	8,24					
40-200AP	11	160M	60,2	60,8	60,9	60,9	60,5	59,6	58,5	57,2	55,7	53,9	51,6	48,9	45,8	42,8				
			3,63	4,95	5,45	5,94	6,39	6,82	7,22	7,60	7,96	8,29	8,61	8,90	9,17	9,41				
40-250C	11	160M	63,2	65,1	65,3	65,2	64,8	64,2	63,3	61,4	59,0	56,3	53,3							
			3,99	5,67	6,23	6,79	7,32	7,85	8,36	8,79	9,22	9,67	10,11							
40-250B	11	160M	71,7	73,7	74,1	74,0	73,7	73,1	71,7	70,1	68,5	66,2	63,2	60,0						
			4,97	6,76	7,41	8,08	8,68	9,23	9,75	10,26	10,79	11,32	11,84	12,36						
40-250A	15	160M	81,3	83,7	84,2	84,3	83,9	82,8	81,6	80,6	79,4	77,9	75,4	72,4	68,9	65,1				
			6,31	8,36	9,11	9,80	10,47	11,13	11,78	12,42	13,08	13,74	14,34	14,89	15,42	15,93				
40-250BM max 14 bar	18,5	160L	89,8	91,8	91,8	91,4	91,0	90,6	90,0	89,4	88,8	88,1	87,3	85,7	83,2	80,1	76,5	68,1		
			7,12	9,03	9,70	10,39	11,08	11,78	12,49	13,25	14,00	14,69	15,34	15,97	16,58	17,17	17,77	18,93		
40-250AM max 14 bar	22	180M	101,0	102,7	102,8	102,8	102,6	102,2	101,7	101,1	100,2	99,1	98,0	96,6	94,8	92,5	89,4	81,7		
			8,17	10,36	11,11	11,86	12,62	13,46	14,29	15,10	15,89	16,65	17,43	18,20	18,91	19,59	20,27	21,57		
																		72,6		



TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																		
50-125B	3	100L	20,2 <i>1,29</i>	20,6 <i>1,68</i>	20,5 <i>1,82</i>	20,3 <i>1,96</i>	20,1 <i>2,10</i>	19,8 <i>2,23</i>	19,5 <i>2,36</i>	19,1 <i>2,47</i>	18,7 <i>2,57</i>	18,3 <i>2,67</i>	17,8 <i>2,75</i>	17,3 <i>2,84</i>	16,7 <i>2,91</i>	16,1 <i>2,98</i>	14,5 <i>3,09</i>	12,6 <i>3,15</i>	10,5 <i>3,17</i>	8,4 <i>3,18</i>	
50-125A	4	112M	23,7 <i>1,48</i>	24,6 <i>2,05</i>	24,5 <i>2,23</i>	24,5 <i>2,40</i>	24,3 <i>2,55</i>	24,1 <i>2,70</i>	23,9 <i>2,86</i>	23,6 <i>3,02</i>	23,3 <i>3,18</i>	22,9 <i>3,31</i>	22,4 <i>3,44</i>	21,9 <i>3,56</i>	21,3 <i>3,66</i>	20,6 <i>3,76</i>	19,2 <i>3,92</i>	17,5 <i>4,04</i>	15,4 <i>4,12</i>	13,4 <i>4,18</i>	
50-160B	5,5	132S	34,2 <i>2,10</i>				35,1 <i>3,96</i>	34,8 <i>4,20</i>	34,4 <i>4,43</i>	33,8 <i>4,64</i>	33,1 <i>4,84</i>	32,4 <i>5,03</i>	31,6 <i>5,20</i>	30,8 <i>5,36</i>	29,8 <i>5,49</i>	28,8 <i>5,60</i>	26,6 <i>5,77</i>	24,0 <i>5,86</i>	21,0 <i>5,89</i>	17,6 <i>5,81</i>	
50-160A	7,5	132S	40,5 <i>2,71</i>				42,4 <i>4,85</i>	42,4 <i>5,14</i>	42,2 <i>5,42</i>	41,9 <i>5,70</i>	41,4 <i>5,97</i>	40,8 <i>6,22</i>	40,2 <i>6,46</i>	39,5 <i>6,68</i>	38,7 <i>6,88</i>	37,8 <i>7,06</i>	35,7 <i>7,37</i>	33,2 <i>7,60</i>	30,6 <i>7,76</i>	27,9 <i>7,84</i>	24,5 <i>7,89</i>
50-200C	11	160M	48,1 <i>2,84</i>					50,2 <i>6,10</i>	49,7 <i>6,46</i>	49,0 <i>6,79</i>	48,2 <i>7,08</i>	47,3 <i>7,34</i>	46,3 <i>7,61</i>	45,2 <i>7,89</i>	44,0 <i>8,14</i>	42,6 <i>8,36</i>	39,4 <i>8,70</i>	35,6 <i>8,96</i>	30,8 <i>9,12</i>	25,2 <i>9,19</i>	
50-200B	11	160M	54,9 <i>3,77</i>					57,1 <i>7,35</i>	56,7 <i>7,74</i>	56,1 <i>8,12</i>	55,3 <i>8,48</i>	54,5 <i>8,81</i>	53,5 <i>9,13</i>	52,4 <i>9,43</i>	51,3 <i>9,72</i>	50,0 <i>9,99</i>	47,0 <i>10,44</i>	43,3 <i>10,79</i>	39,0 <i>11,07</i>	34,4 <i>11,26</i>	
50-200A	15	160M	62,0 <i>4,39</i>					64,9 <i>8,40</i>	64,6 <i>8,87</i>	64,1 <i>9,35</i>	63,5 <i>9,81</i>	62,7 <i>10,21</i>	61,8 <i>10,57</i>	60,7 <i>10,91</i>	59,6 <i>11,26</i>	58,3 <i>11,60</i>	55,5 <i>12,19</i>	52,3 <i>12,67</i>	48,1 <i>13,08</i>	43,5 <i>13,40</i>	38,4 <i>13,65</i>
50-250C	15	160M	67,8 <i>4,54</i>					66,7 <i>9,60</i>	66,1 <i>10,13</i>	65,4 <i>10,64</i>	64,6 <i>11,13</i>	63,8 <i>11,60</i>	62,9 <i>12,04</i>	61,7 <i>12,47</i>	60,3 <i>12,88</i>	58,9 <i>13,66</i>	56,9 <i>14,38</i>	53,3 <i>15,04</i>	49,3 <i>15,43</i>		
50-250B	18,5	160L	78,1 <i>6,13</i>					78,1 <i>11,96</i>	77,4 <i>12,59</i>	76,7 <i>13,18</i>	75,9 <i>13,75</i>	75,1 <i>14,29</i>	74,1 <i>14,82</i>	72,9 <i>15,33</i>	71,5 <i>15,84</i>	68,3 <i>16,83</i>	64,3 <i>17,74</i>	59,9 <i>18,59</i>	55,6 <i>19,37</i>		
50-250A	22	180M	87,2 <i>7,03</i>					87,1 <i>13,27</i>	86,5 <i>14,00</i>	85,9 <i>14,71</i>	85,3 <i>15,37</i>	84,8 <i>16,00</i>	84,1 <i>16,61</i>	83,2 <i>17,20</i>	82,2 <i>17,76</i>	79,6 <i>18,83</i>	76,2 <i>19,84</i>	72,1 <i>20,79</i>	67,7 <i>21,72</i>	63,1 <i>22,60</i>	

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>															
50-315DN No EN 733; only CA version	37	200L	87,8 <i>11,19</i>	90,4 <i>20,11</i>	90,3 <i>20,82</i>	90,2 <i>21,53</i>	89,9 <i>22,91</i>	89,2 <i>24,19</i>	88,2 <i>25,41</i>	87,1 <i>26,59</i>	86,0 <i>27,71</i>	84,8 <i>28,79</i>	82,4 <i>30,91</i>	79,9 <i>32,95</i>	76,9 <i>34,81</i>	73,4 <i>36,56</i>		
50-315CN No EN 733; only CA version	45	225M	101,8 <i>13,32</i>	105,0 <i>23,97</i>	104,9 <i>24,80</i>	104,8 <i>25,62</i>	104,3 <i>27,25</i>	103,7 <i>28,79</i>	102,7 <i>30,21</i>	101,5 <i>31,54</i>	100,3 <i>32,85</i>	99,1 <i>34,15</i>	96,7 <i>36,68</i>	94,1 <i>39,07</i>	91,3 <i>41,26</i>	88,7 <i>43,26</i>		
50-315BN No EN 733; only CA version	55	250M	122,3 <i>17,44</i>	124,3 <i>29,30</i>	124,4 <i>30,29</i>	124,5 <i>31,27</i>	124,7 <i>33,28</i>	124,4 <i>35,14</i>	123,6 <i>36,80</i>	122,5 <i>38,34</i>	121,3 <i>39,85</i>	119,9 <i>41,39</i>	116,6 <i>44,41</i>	113,3 <i>47,32</i>	110,1 <i>50,01</i>	107,1 <i>52,39</i>	105,4 <i>53,60</i>	103,5 <i>54,83</i>
50-315AN No EN 733; only CA version	75	280S	146,1 <i>22,75</i>	146,9 <i>35,89</i>	147,1 <i>37,06</i>	147,3 <i>38,23</i>	147,4 <i>40,53</i>	147,3 <i>42,67</i>	146,9 <i>44,71</i>	146,3 <i>46,70</i>	145,3 <i>48,67</i>	144,1 <i>50,61</i>	141,2 <i>54,26</i>	137,9 <i>57,62</i>	134,1 <i>60,84</i>	130,0 <i>63,78</i>	127,9 <i>65,11</i>	125,8 <i>66,34</i>

TYPE	P ₂ nom. kW	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		
			H (m) / <i>pump input power (kW)</i>																						
65-125B	5,5	132S	18,2	19,6	19,5	19,4	19,2	19,0	18,8	18,5	18,0	17,7	17,5	17,2	16,9	16,4	15,0	13,7	11,9						
	7,5	132S	2,35	3,52	3,63	3,73	3,82	3,92	4,01	4,10	4,27	4,48	4,71	4,93	5,13	5,31	5,56	5,83	5,88						
65-125A	7,5	132S	23,2	24,7	24,7	24,6	24,5	24,4	24,3	24,1	23,8	23,4	23,0	22,7	22,3	21,7	20,4	19,0	17,4	15,1					
			2,95	4,39	4,54	4,70	4,85	4,99	5,14	5,28	5,55	5,80	6,05	6,30	6,52	6,72	7,08	7,40	7,72	7,76					
65-160C	11	160M	29,5						30,7	30,5	30,3	29,8	29,3	28,8	28,2	27,5	26,8	24,9	22,5	19,7	16,8	15,4	13,6		
			3,15						5,71	5,91	6,10	6,47	6,83	7,18	7,51	7,79	8,05	8,50	8,83	9,08	9,24	9,28	9,29		
65-160B	11	160M	33,9						35,7	35,6	35,4	35,0	34,5	34,0	33,4	32,7	32,0	30,3	28,0	25,3	22,1	20,4	19,0		
			3,86						6,88	7,11	7,34	7,80	8,25	8,66	9,04	9,39	9,72	10,30	10,76	11,11	11,37	11,46	11,53		
65-160A	15	160M	41,6						44,1	44,0	43,9	43,7	43,3	42,8	42,3	41,7	41,1	39,8	37,8	35,3	32,3	30,7	28,9		
			4,80						8,63	8,92	9,22	9,80	10,39	10,94	11,45	11,91	12,34	13,84	14,52	15,06	15,29	15,48			
65-200C	15	160M	44,8										45,2	44,5	43,6	42,7	41,8	41,0	38,6	35,0	30,9	27,0	25,5		
			4,49										10,62	11,19	11,78	12,34	12,85	13,31	14,08	14,67	15,12	15,43	15,53		
65-200B	18,5	160L	52,1										53,8	53,0	52,3	51,6	50,8	49,9	47,8	45,4	41,4	37,0	34,7	32,6	
	22,5	180M	5,55										12,73	13,50	14,16	14,74	15,32	15,95	17,03	17,85	18,58	19,13	19,33	19,50	
65-200A	22,5	180M	59,0										61,9	61,3	60,6	60,0	59,3	58,6	56,5	54,2	51,4	46,9	44,4	41,8	
			6,71										14,86	15,68	16,48	17,26	18,02	18,74	20,01	21,06	21,91	22,74	23,09	23,37	
65-250B	30	200L	79,8										80,8	79,7	78,4	77,0	75,5	73,9	70,4	66,3	61,2	54,9	51,5	49,0	
			8,51										19,89	20,96	21,91	22,77	23,59	24,43	25,96	27,20	28,06	28,90	29,24	29,48	
65-250A	37	200L	90,2										91,8	90,8	89,6	88,1	86,5	85,0	81,4	77,0	72,0	66,0	62,6	60,7	57,5
			10,18										23,00	24,23	25,41	26,54	27,56	28,41	29,97	31,48	32,60	33,40	33,71	34,07	34,35



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TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																		
65-315CN only CA version	55	250M	89,1 <i>14,88</i>	94,6 <i>27,27</i>	94,6 <i>28,69</i>	94,6 <i>30,09</i>	94,2 <i>31,43</i>	93,7 <i>32,74</i>	93,3 <i>34,03</i>	92,1 <i>36,56</i>	90,4 <i>39,10</i>	88,6 <i>41,55</i>	86,9 <i>43,80</i>	86,1 <i>44,88</i>	85,2 <i>45,95</i>	84,2 <i>47,04</i>	83,1 <i>48,12</i>	80,8 <i>50,26</i>	78,2 <i>52,38</i>		
65-315BN only CA version	75	280S	109,3 <i>19,73</i>	113,8 <i>33,93</i>	114,0 <i>35,64</i>	114,2 <i>37,33</i>	114,2 <i>38,93</i>	113,9 <i>40,50</i>	113,6 <i>42,10</i>	112,4 <i>45,26</i>	110,7 <i>48,26</i>	108,6 <i>51,13</i>	106,5 <i>53,82</i>	105,4 <i>55,13</i>	104,4 <i>56,45</i>	103,4 <i>57,80</i>	102,5 <i>59,17</i>	100,7 <i>61,90</i>	98,5 <i>64,51</i>	94,8 <i>67,56</i>	
65-315AN only CA version	90	280M	132,5 <i>26,42</i>	137,4 <i>43,32</i>	137,9 <i>45,51</i>	138,3 <i>47,69</i>	138,4 <i>49,75</i>	138,3 <i>51,74</i>	138,1 <i>53,71</i>	137,3 <i>57,58</i>	135,8 <i>61,35</i>	133,8 <i>64,98</i>	131,7 <i>68,43</i>	130,6 <i>70,11</i>	129,5 <i>71,78</i>	128,4 <i>73,47</i>	127,3 <i>75,17</i>	125,2 <i>78,50</i>	123,0 <i>81,56</i>	120,1 <i>84,90</i>	116,3 <i>89,60</i>

TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)																		
			0	66	72	78	84	96	108	120	132	138	144	150	156	168	180	195	210	225	240
			0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	3750	4000
			H (m) / <i>pump input power (kW)</i>																		
80-160E	11	160M	20,7 <i>4,46</i>	22,5 <i>7,05</i>	21,9 <i>7,17</i>	21,3 <i>7,28</i>	20,8 <i>7,41</i>	19,7 <i>7,69</i>	18,8 <i>8,09</i>	17,9 <i>8,49</i>	16,6 <i>8,69</i>	16,0 <i>8,80</i>	15,5 <i>8,93</i>	15,0 <i>9,06</i>	14,6 <i>9,18</i>	13,5 <i>9,35</i>					
80-160D	11	160M	23,9 <i>5,03</i>	25,9 <i>8,11</i>	25,4 <i>8,30</i>	24,8 <i>8,49</i>	24,3 <i>8,70</i>	23,3 <i>9,18</i>	22,5 <i>9,64</i>	21,8 <i>10,07</i>	20,5 <i>10,40</i>	19,8 <i>10,54</i>	19,1 <i>10,67</i>	18,5 <i>10,82</i>	18,0 <i>10,98</i>	16,9 <i>11,22</i>	15,5 <i>11,34</i>				
80-160C	15	160M	29,4 <i>5,73</i>	32,6 <i>9,88</i>	32,2 <i>10,20</i>	31,8 <i>10,51</i>	31,3 <i>10,82</i>	30,3 <i>11,44</i>	29,3 <i>12,05</i>	28,2 <i>12,57</i>	27,2 <i>12,96</i>	26,6 <i>13,16</i>	26,0 <i>13,40</i>	25,4 <i>13,65</i>	24,8 <i>13,88</i>	23,4 <i>14,24</i>	21,9 <i>14,49</i>	19,2 <i>14,56</i>			
80-160B	18,5	160L	34,9 <i>6,98</i>	37,9 <i>11,63</i>	37,6 <i>12,05</i>	37,3 <i>12,44</i>	36,9 <i>12,82</i>	36,0 <i>13,54</i>	35,0 <i>14,25</i>	33,9 <i>14,91</i>	32,7 <i>15,44</i>	32,1 <i>15,66</i>	31,5 <i>15,89</i>	30,9 <i>16,13</i>	30,4 <i>16,38</i>	29,2 <i>16,86</i>	27,5 <i>17,27</i>	24,9 <i>17,65</i>	22,3 <i>17,84</i>		
80-160A	22,5	180M	38,8 <i>7,79</i>	42,4 <i>12,99</i>	42,1 <i>13,42</i>	41,8 <i>13,88</i>	41,4 <i>14,39</i>	40,6 <i>15,40</i>	39,7 <i>16,21</i>	38,7 <i>16,88</i>	37,5 <i>17,54</i>	36,8 <i>17,86</i>	36,1 <i>18,17</i>	35,5 <i>18,46</i>	34,9 <i>18,75</i>	33,6 <i>19,27</i>	32,1 <i>19,73</i>	29,8 <i>20,20</i>	27,4 <i>20,54</i>	24,5 <i>20,69</i>	
80-200B	30	200L	49,4 <i>9,37</i>				53,8 <i>18,68</i>	53,0 <i>20,00</i>	52,0 <i>21,30</i>	51,1 <i>22,63</i>	50,2 <i>23,96</i>	49,7 <i>24,56</i>	49,2 <i>25,08</i>	48,7 <i>25,53</i>	48,1 <i>25,94</i>	47,0 <i>26,75</i>	45,6 <i>27,57</i>	43,6 <i>28,51</i>	40,8 <i>29,35</i>	37,6 <i>30,00</i>	
80-200A	37	200L	56,7 <i>10,55</i>				62,1 <i>21,49</i>	61,5 <i>23,09</i>	60,6 <i>24,74</i>	59,7 <i>26,30</i>	58,8 <i>27,78</i>	58,2 <i>28,47</i>	57,7 <i>29,12</i>	57,2 <i>29,71</i>	56,6 <i>30,27</i>	55,4 <i>31,30</i>	53,9 <i>32,34</i>	51,7 <i>33,60</i>	49,4 <i>34,65</i>	46,8 <i>35,49</i>	43,8 <i>36,21</i>
80-250B	45	225M	77,2 <i>14,22</i>					77,7 <i>32,00</i>	76,4 <i>34,32</i>	75,2 <i>36,41</i>	74,0 <i>37,94</i>	73,3 <i>38,70</i>	72,6 <i>39,45</i>	71,8 <i>40,27</i>	70,9 <i>41,09</i>	69,1 <i>42,67</i>	67,3 <i>44,03</i>	64,9 <i>45,51</i>	62,3 <i>46,76</i>	59,5 <i>47,80</i>	
80-250A	55	250M	90,0 <i>17,04</i>					92,0 <i>37,50</i>	90,8 <i>39,95</i>	89,4 <i>42,26</i>	87,9 <i>44,45</i>	87,0 <i>45,48</i>	86,1 <i>46,46</i>	85,1 <i>47,37</i>	84,1 <i>48,24</i>	81,9 <i>49,83</i>	79,7 <i>51,32</i>	77,1 <i>53,03</i>	74,2 <i>54,66</i>	71,0 <i>56,20</i>	68,0 <i>57,50</i>

TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)																		
			0	108	120	132	138	144	150	156	168	180	195	210	225	240	255	270	300	330	360
			0	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000
			H (m) / <i>pump input power (kW)</i>																		
100-200B	45	225M	60,2	60,6	60,2	59,6	59,3	59,0	58,8	58,5	57,9	57,1	55,9	54,6	53,0	51,3	49,5	47,7	43,4	38,5	
			<i>21,69</i>	<i>29,77</i>	<i>30,83</i>	<i>31,89</i>	<i>32,42</i>	<i>32,96</i>	<i>33,51</i>	<i>34,07</i>	<i>35,19</i>	<i>36,32</i>	<i>37,73</i>	<i>39,12</i>	<i>40,37</i>	<i>41,51</i>	<i>42,42</i>	<i>43,16</i>	<i>44,26</i>	<i>45,12</i>	
100-200A	55	250M	65,5	66,3	65,9	65,3	65,0	64,7	64,5	64,2	63,7	63,1	62,1	61,0	59,7	58,1	56,4	54,5	50,4	46,1	39,9
			<i>24,80</i>	<i>34,31</i>	<i>35,51</i>	<i>36,72</i>	<i>37,32</i>	<i>37,94</i>	<i>38,56</i>	<i>39,19</i>	<i>40,45</i>	<i>41,65</i>	<i>43,02</i>	<i>44,31</i>	<i>45,63</i>	<i>46,97</i>	<i>48,14</i>	<i>49,15</i>	<i>50,77</i>	<i>52,16</i>	<i>52,86</i>
100-250C	55	250M	79,9		81,0	80,7	80,6	80,4	80,2	79,9	79,4	78,7	77,7	76,5	74,9	73,1	70,9	68,6	64,1		
	75	280S	<i>25,58</i>		<i>43,12</i>	<i>44,90</i>	<i>45,79</i>	<i>46,68</i>	<i>47,57</i>	<i>48,46</i>	<i>50,21</i>	<i>51,90</i>	<i>53,93</i>	<i>55,86</i>	<i>57,68</i>	<i>59,39</i>	<i>60,96</i>	<i>62,44</i>	<i>65,30</i>		
100-250B	75	280S	90,0		89,9	89,6	89,4	89,2	89,0	88,8	88,2	87,6	86,8	85,9	84,7	83,3	81,0	78,4	73,2	70,9	
			<i>29,82</i>		<i>49,11</i>	<i>51,23</i>	<i>52,27</i>	<i>53,30</i>	<i>54,32</i>	<i>55,34</i>	<i>57,27</i>	<i>58,98</i>	<i>60,82</i>	<i>62,59</i>	<i>64,38</i>	<i>66,22</i>	<i>68,39</i>	<i>70,55</i>	<i>73,87</i>	<i>77,92</i>	
100-250A	90	280M	100,5		100,7	100,3	100,1	99,8	99,5	99,2	98,4	97,6	96,4	95,0	93,2	91,2	89,3	87,1	81,8	78,7	74,0
			<i>32,74</i>		<i>54,04</i>	<i>56,39</i>	<i>57,55</i>	<i>58,71</i>	<i>59,90</i>	<i>61,08</i>	<i>63,34</i>	<i>65,30</i>	<i>67,40</i>	<i>69,46</i>	<i>71,65</i>	<i>73,82</i>	<i>75,81</i>	<i>77,67</i>	<i>81,17</i>	<i>85,71</i>	<i>88,00</i>



TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)											
			0	1,5	3	4,5	6	7,5	9	10,5	12	15	18	21
			0	25	50	75	100	125	150	175	200	250	300	350
			H (m) / <i>pump input power (kW)</i>											
32-160C	0,37	71M	5,9 <i>0,15</i>	5,9 <i>0,18</i>	5,8 <i>0,20</i>	5,5 <i>0,22</i>	5,3 <i>0,24</i>	4,8 <i>0,26</i>	4,3 <i>0,28</i>	3,5 <i>0,28</i>	2,6 <i>0,29</i>			
32-160B	0,37	71M	7,2 <i>0,18</i>	7,2 <i>0,21</i>	7,1 <i>0,24</i>	6,7 <i>0,27</i>	6,4 <i>0,29</i>	5,9 <i>0,31</i>	5,3 <i>0,33</i>	4,6 <i>0,34</i>	3,6 <i>0,36</i>			
32-160A	0,55	80M	8,8 <i>0,22</i>	8,8 <i>0,26</i>	8,7 <i>0,29</i>	8,5 <i>0,31</i>	8,2 <i>0,35</i>	7,9 <i>0,37</i>	7,4 <i>0,39</i>	6,9 <i>0,41</i>	6,1 <i>0,43</i>	4,0 <i>0,45</i>		
32-200C	0,75	80M	11,0 <i>0,26</i>		10,8 <i>0,39</i>	10,6 <i>0,43</i>	10,2 <i>0,47</i>	9,9 <i>0,51</i>	9,4 <i>0,54</i>	8,9 <i>0,57</i>	8,4 <i>0,59</i>	6,7 <i>0,66</i>	4,2 <i>0,71</i>	
32-200B	1,1	90S	13,0 <i>0,38</i>		12,7 <i>0,47</i>	12,5 <i>0,51</i>	12,2 <i>0,56</i>	11,7 <i>0,61</i>	11,2 <i>0,66</i>	10,6 <i>0,70</i>	10,1 <i>0,74</i>	8,7 <i>0,78</i>	6,3 <i>0,81</i>	
32-200A	1,1	90S	15,9 <i>0,44</i>		15,7 <i>0,53</i>	15,5 <i>0,57</i>	15,3 <i>0,66</i>	15,0 <i>0,71</i>	14,5 <i>0,77</i>	13,8 <i>0,82</i>	13,2 <i>0,88</i>	11,7 <i>0,98</i>	9,5 <i>1,04</i>	6,8 <i>1,10</i>
32-250C	1,5	90L	17,5 <i>0,55</i>		17,2 <i>0,75</i>	16,9 <i>0,79</i>	16,6 <i>0,85</i>	16,2 <i>0,90</i>	15,7 <i>0,95</i>	15,1 <i>1,00</i>	14,4 <i>1,04</i>	12,5 <i>1,09</i>	10,0 <i>1,18</i>	6,5 <i>1,21</i>
32-250B	1,5	90L	20,3 <i>0,75</i>		20,0 <i>0,87</i>	19,7 <i>0,93</i>	19,4 <i>1,00</i>	19,0 <i>1,06</i>	18,4 <i>1,14</i>	17,8 <i>1,19</i>	17,0 <i>1,24</i>	15,3 <i>1,33</i>	12,6 <i>1,39</i>	8,3 <i>1,42</i>
32-250A	2,2	100L	22,6 <i>0,80</i>		22,2 <i>0,95</i>	21,9 <i>1,03</i>	21,6 <i>1,10</i>	21,3 <i>1,18</i>	20,7 <i>1,24</i>	20,0 <i>1,30</i>	18,9 <i>1,36</i>	17,2 <i>1,46</i>	14,8 <i>1,52</i>	9,1 <i>1,55</i>

TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)													
			0	4,5	6	7,5	9	10,5	12	15	18	21	24	27	30	33
			0	75	100	125	150	175	200	250	300	350	400	450	500	550
			H (m) / <i>pump input power (kW)</i>													
40-125C	0,37	71M	4,2 <i>0,15</i>	4,4 <i>0,18</i>	4,3 <i>0,19</i>	4,2 <i>0,21</i>	4,1 <i>0,23</i>	4,0 <i>0,23</i>	3,8 <i>0,25</i>	3,4 <i>0,26</i>	2,8 <i>0,27</i>	2,0 <i>0,29</i>				
40-125B	0,37	71M	5,4 <i>0,19</i>	5,5 <i>0,22</i>	5,5 <i>0,25</i>	5,4 <i>0,26</i>	5,3 <i>0,28</i>	5,2 <i>0,29</i>	5,0 <i>0,31</i>	4,6 <i>0,34</i>	4,0 <i>0,35</i>	3,3 <i>0,37</i>				
40-125A	0,55	80M	6,2 <i>0,23</i>	6,3 <i>0,28</i>	6,3 <i>0,30</i>	6,2 <i>0,32</i>	6,1 <i>0,34</i>	6,0 <i>0,36</i>	5,8 <i>0,38</i>	5,4 <i>0,40</i>	4,9 <i>0,43</i>	4,2 <i>0,44</i>	3,4 <i>0,46</i>			
40-160B	0,55	80M	7,4 <i>0,21</i>	7,5 <i>0,29</i>	7,6 <i>0,34</i>	7,4 <i>0,37</i>	7,2 <i>0,40</i>	7,0 <i>0,42</i>	6,8 <i>0,43</i>	6,1 <i>0,45</i>	4,9 <i>0,47</i>	3,7 <i>0,48</i>	2,5 <i>0,47</i>			
40-160A	0,75	80M	8,8 <i>0,23</i>	8,9 <i>0,34</i>	9,0 <i>0,38</i>	8,9 <i>0,41</i>	8,7 <i>0,45</i>	8,5 <i>0,47</i>	8,3 <i>0,49</i>	7,5 <i>0,53</i>	6,6 <i>0,57</i>	5,6 <i>0,59</i>	4,5 <i>0,60</i>			
40-160AP	0,75 1,10	80M 90S	11,1 <i>0,32</i>	11,1 <i>0,47</i>	11,3 <i>0,52</i>	11,3 <i>0,56</i>	11,1 <i>0,60</i>	10,9 <i>0,64</i>	10,6 <i>0,67</i>	10,0 <i>0,72</i>	9,0 <i>0,77</i>	8,0 <i>0,81</i>	6,8 <i>0,84</i>			
40-200B	1,1	90S	11,3 <i>0,36</i>		11,4 <i>0,52</i>	11,3 <i>0,56</i>	11,1 <i>0,60</i>	10,8 <i>0,64</i>	10,5 <i>0,68</i>	9,6 <i>0,75</i>	8,5 <i>0,78</i>	6,9 <i>0,81</i>	4,7 <i>0,84</i>			
40-200A	1,1	90S	13,8 <i>0,37</i>		13,9 <i>0,64</i>	13,8 <i>0,72</i>	13,6 <i>0,74</i>	13,4 <i>0,79</i>	13,2 <i>0,82</i>	12,3 <i>0,91</i>	11,3 <i>0,99</i>	10,0 <i>1,06</i>	8,3 <i>1,13</i>			
40-200AP	1,1 1,5	90S 90L	14,8 <i>0,41</i>		14,9 <i>0,69</i>	14,8 <i>0,79</i>	14,6 <i>0,81</i>	14,4 <i>0,86</i>	14,2 <i>0,90</i>	13,3 <i>0,99</i>	12,3 <i>1,08</i>	11,0 <i>1,16</i>	9,4 <i>1,23</i>			
40-250C	1,5	90L	15,7 <i>0,61</i>				15,2 <i>0,93</i>	15,0 <i>0,98</i>	14,7 <i>1,04</i>	14,0 <i>1,14</i>	12,8 <i>1,22</i>	11,1 <i>1,32</i>	9,1 <i>1,38</i>	6,6 <i>1,45</i>		
40-250B	2,2	100L	18,3 <i>0,73</i>				18,2 <i>1,13</i>	17,9 <i>1,19</i>	17,7 <i>1,24</i>	17,1 <i>1,39</i>	16,2 <i>1,51</i>	14,9 <i>1,62</i>	12,9 <i>1,73</i>	10,7 <i>1,82</i>	8,3 <i>1,89</i>	
40-250A	2,2	100L	20,9 <i>0,89</i>				20,8 <i>1,32</i>	20,6 <i>1,40</i>	20,4 <i>1,47</i>	19,8 <i>1,62</i>	19,0 <i>1,75</i>	17,9 <i>1,88</i>	16,3 <i>2,00</i>	14,1 <i>2,10</i>	11,5 <i>2,21</i>	8,4 <i>2,34</i>

TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)																
			0	9	10,5	12	15	18	21	24	27	30	33	36	39	42	45	48	54
			0	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	900
			H (m) / <i>pump input power (kW)</i>																
50-125B	0,55	80M	5,3 <i>0,15</i>	5,5 <i>0,23</i>	5,5 <i>0,25</i>	5,4 <i>0,28</i>	5,3 <i>0,32</i>	5,1 <i>0,38</i>	4,9 <i>0,40</i>	4,7 <i>0,44</i>	4,4 <i>0,45</i>	4,1 <i>0,46</i>	3,6 <i>0,47</i>	3,1 <i>0,47</i>	2,6 <i>0,48</i>	2,1 <i>0,49</i>			
50-125A	0,75	80M	6,2 <i>0,23</i>	6,4 <i>0,38</i>	6,4 <i>0,39</i>	6,3 <i>0,41</i>	6,3 <i>0,44</i>	6,1 <i>0,48</i>	6,0 <i>0,51</i>	5,8 <i>0,55</i>	5,5 <i>0,59</i>	5,2 <i>0,62</i>	4,8 <i>0,63</i>	4,4 <i>0,64</i>	3,9 <i>0,64</i>	3,4 <i>0,64</i>	2,9 <i>0,63</i>		
50-160B	0,75	80M	7,9 <i>0,23</i>	8 <i>0,43</i>	7,9 <i>0,45</i>	7,8 <i>0,47</i>	7,7 <i>0,51</i>	7,3 <i>0,56</i>	6,9 <i>0,60</i>	6,4 <i>0,63</i>	5,9 <i>0,65</i>	5,3 <i>0,66</i>	4,7 <i>0,67</i>	4 <i>0,68</i>	3,2 <i>0,68</i>	2,3 <i>0,67</i>			
50-160A	1,1	90S	9,4 <i>0,34</i>	9,4 <i>0,55</i>	9,4 <i>0,57</i>	9,3 <i>0,59</i>	9,2 <i>0,65</i>	9 <i>0,72</i>	8,7 <i>0,77</i>	8,3 <i>0,80</i>	7,8 <i>0,82</i>	7,2 <i>0,84</i>	6,7 <i>0,86</i>	6 <i>0,87</i>	5,4 <i>0,88</i>	4,7 <i>0,88</i>	3,9 <i>0,89</i>	3,1 <i>0,88</i>	
50-200C	1,1	90S	12,0 <i>0,39</i>	12 <i>0,63</i>	11,8 <i>0,68</i>	11,7 <i>0,72</i>	11,2 <i>0,79</i>	10,7 <i>0,83</i>	10 <i>0,86</i>	9,3 <i>0,89</i>	8,2 <i>0,91</i>	7,2 <i>0,93</i>	6 <i>0,94</i>	4,6 <i>0,94</i>	3,2 <i>0,95</i>				
50-200B	1,5	90L	13,1 <i>0,48</i>		13,1 <i>0,77</i>	13,1 <i>0,83</i>	12,7 <i>0,92</i>	12,2 <i>1,02</i>	11,6 <i>1,09</i>	10,9 <i>1,14</i>	10,0 <i>1,18</i>	9,2 <i>1,22</i>	8,2 <i>1,24</i>	7,0 <i>1,27</i>	5,7 <i>1,27</i>	4,2 <i>1,27</i>			
50-200A	1,5	90L	14,8 <i>0,54</i>		14,7 <i>0,87</i>	14,5 <i>0,92</i>	14,4 <i>1,03</i>	13,9 <i>1,14</i>	13,4 <i>1,22</i>	12,7 <i>1,28</i>	11,9 <i>1,32</i>	11,0 <i>1,36</i>	10,0 <i>1,40</i>	8,9 <i>1,43</i>	7,6 <i>1,45</i>	6,3 <i>1,47</i>	4,6 <i>1,48</i>		
50-250C	2,2	100L	17,9 <i>0,58</i>			17,7 <i>1,24</i>	17,4 <i>1,32</i>	16,9 <i>1,47</i>	16,4 <i>1,59</i>	15,8 <i>1,71</i>	14,9 <i>1,80</i>	14,2 <i>1,89</i>	13,4 <i>1,97</i>	12,4 <i>2,04</i>	11,0 <i>2,10</i>	9,5 <i>2,16</i>	7,5 <i>2,22</i>		
50-250B	3	100L	19,9 <i>0,79</i>				19,6 <i>1,58</i>	19,1 <i>1,72</i>	18,8 <i>1,85</i>	18,2 <i>1,97</i>	17,5 <i>2,07</i>	16,7 <i>2,19</i>	15,7 <i>2,28</i>	14,6 <i>2,37</i>	13,6 <i>2,45</i>	12,0 <i>2,52</i>	10,4 <i>2,58</i>	8,2 <i>2,64</i>	
50-250A	4	112M	23,0 <i>0,90</i>				22,7 <i>1,84</i>	22,5 <i>2,07</i>	22,2 <i>2,21</i>	21,8 <i>2,42</i>	21,1 <i>2,60</i>	20,4 <i>2,78</i>	19,5 <i>2,95</i>	18,7 <i>3,12</i>	17,7 <i>3,28</i>	16,6 <i>3,43</i>	15,2 <i>3,53</i>	13,4 <i>3,62</i>	8,4 <i>3,74</i>



TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																			
50-315C No EN 733	5,5	132M	24,4 <i>1,64</i>	24,7 <i>2,58</i>	24,7 <i>2,77</i>	24,6 <i>2,96</i>	24,5 <i>3,15</i>	24,3 <i>3,33</i>	24,0 <i>3,50</i>	23,7 <i>3,66</i>	23,4 <i>3,82</i>	23,1 <i>3,96</i>	22,8 <i>4,11</i>	22,5 <i>4,24</i>	21,9 <i>4,51</i>	21,1 <i>4,77</i>	20,2 <i>5,01</i>	19,2 <i>5,23</i>	18,1 <i>5,43</i>	16,8 <i>5,62</i>		
50-315B No EN 733	7,5	132M	31,3 <i>2,35</i>	31,4 <i>3,54</i>	31,4 <i>3,78</i>	31,3 <i>4,01</i>	31,3 <i>4,24</i>	31,2 <i>4,47</i>	30,9 <i>4,68</i>	30,6 <i>4,89</i>	30,3 <i>5,08</i>	29,9 <i>5,27</i>	29,5 <i>5,46</i>	29,1 <i>5,64</i>	28,2 <i>5,99</i>	27,3 <i>6,32</i>	26,5 <i>6,61</i>	25,5 <i>6,89</i>	24,4 <i>7,14</i>	23,1 <i>7,37</i>	21,6 <i>7,58</i>	
50-315A No EN 733	11	160M	37,5 <i>3,06</i>	37,2 <i>4,39</i>	37,2 <i>4,65</i>	37,1 <i>4,92</i>	37,0 <i>5,18</i>	36,9 <i>5,45</i>	36,7 <i>5,72</i>	36,5 <i>5,97</i>	36,3 <i>6,22</i>	36,0 <i>6,45</i>	35,8 <i>6,68</i>	35,2 <i>6,90</i>	34,3 <i>7,31</i>	33,3 <i>7,69</i>	32,1 <i>8,04</i>	30,9 <i>8,37</i>	29,7 <i>8,69</i>	28,4 <i>8,96</i>	26,9 <i>9,18</i>	25,1 <i>9,37</i>

TYPE	P ₂ nom. kW	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
			0	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1500
			H (m) / <i>pump input power (kW)</i>																		
65-125B	0,75	80M	4,9 <i>0,31</i>	5,1 <i>0,48</i>	5,1 <i>0,50</i>	5,0 <i>0,53</i>	5,0 <i>0,55</i>	4,9 <i>0,57</i>	4,7 <i>0,60</i>	4,6 <i>0,63</i>	4,5 <i>0,64</i>	4,3 <i>0,66</i>	4,0 <i>0,67</i>	3,8 <i>0,68</i>	3,3 <i>0,69</i>	2,8 <i>0,68</i>					
65-125A	1,1	90S	6,1 <i>0,40</i>	6,3 <i>0,60</i>	6,2 <i>0,63</i>	6,1 <i>0,66</i>	6,1 <i>0,69</i>	6,0 <i>0,73</i>	5,9 <i>0,76</i>	5,8 <i>0,79</i>	5,7 <i>0,80</i>	5,5 <i>0,82</i>	5,3 <i>0,83</i>	5,0 <i>0,85</i>	4,7 <i>0,86</i>	4,3 <i>0,88</i>	3,7 <i>0,88</i>	3,0 <i>0,88</i>			
65-160C	1,5	90L	7,3 <i>0,44</i>			7,6 <i>0,80</i>	7,5 <i>0,85</i>	7,3 <i>0,89</i>	7,2 <i>0,93</i>	7,0 <i>0,96</i>	6,8 <i>0,99</i>	6,7 <i>1,01</i>	6,4 <i>1,02</i>	6,2 <i>1,04</i>	5,7 <i>1,07</i>	5,1 <i>1,12</i>	4,4 <i>1,13</i>	3,6 <i>1,13</i>	2,9 <i>1,13</i>		
65-160B	1,5	90L	8,4 <i>0,47</i>			8,6 <i>0,86</i>	8,4 <i>0,90</i>	8,3 <i>0,95</i>	8,2 <i>1,01</i>	8,0 <i>1,06</i>	7,8 <i>1,11</i>	7,6 <i>1,14</i>	7,4 <i>1,17</i>	7,2 <i>1,19</i>	6,5 <i>1,25</i>	5,9 <i>1,28</i>	5,2 <i>1,31</i>	4,4 <i>1,33</i>	3,6 <i>1,34</i>		
65-160A	2,2	100L	9,8 <i>0,66</i>			9,9 <i>1,06</i>	9,9 <i>1,14</i>	9,8 <i>1,20</i>	9,6 <i>1,25</i>	9,5 <i>1,30</i>	9,3 <i>1,34</i>	9,1 <i>1,39</i>	8,9 <i>1,42</i>	8,7 <i>1,46</i>	8,2 <i>1,52</i>	7,6 <i>1,58</i>	6,8 <i>1,63</i>	6,1 <i>1,67</i>	5,3 <i>1,72</i>	4,6 <i>1,72</i>	
65-200C	2,2	100L	11,0 <i>0,48</i>				11,6 <i>1,26</i>	11,5 <i>1,35</i>	11,4 <i>1,44</i>	11,3 <i>1,53</i>	11,2 <i>1,60</i>	10,9 <i>1,66</i>	10,5 <i>1,72</i>	10,3 <i>1,79</i>	9,7 <i>1,90</i>	9,1 <i>1,96</i>	8,3 <i>2,01</i>	7,4 <i>2,06</i>	6,5 <i>2,11</i>	5,0 <i>2,14</i>	
65-200B	3	100L	12,3 <i>0,69</i>				13,1 <i>1,45</i>	13,0 <i>1,51</i>	12,8 <i>1,61</i>	12,7 <i>1,70</i>	12,5 <i>1,77</i>	12,3 <i>1,88</i>	12,1 <i>1,95</i>	11,9 <i>2,01</i>	11,3 <i>2,11</i>	10,6 <i>2,21</i>	10,0 <i>2,29</i>	9,0 <i>2,36</i>	8,0 <i>2,42</i>	7,0 <i>2,48</i>	
65-200A	3	100L	14,0 <i>1,12</i>				14,8 <i>1,74</i>	14,7 <i>1,82</i>	14,6 <i>1,92</i>	14,5 <i>2,02</i>	14,2 <i>2,10</i>	14,0 <i>2,18</i>	13,9 <i>2,26</i>	13,7 <i>2,34</i>	13,3 <i>2,48</i>	12,7 <i>2,59</i>	12,0 <i>2,70</i>	11,3 <i>2,81</i>	10,3 <i>2,91</i>	9,3 <i>3,00</i>	
65-250B	4 5,5	112M 132S	20,6 <i>1,42</i>				21,0 <i>2,87</i>	20,8 <i>2,98</i>	20,4 <i>3,18</i>	20,1 <i>3,38</i>	19,8 <i>3,50</i>	19,3 <i>3,61</i>	18,8 <i>3,70</i>	18,4 <i>3,78</i>	17,3 <i>3,87</i>	16,0 <i>3,97</i>	14,5 <i>4,07</i>	12,9 <i>4,17</i>	11,2 <i>4,19</i>	8,7 <i>4,21</i>	
65-250A	5,5	132S	22,8 <i>1,58</i>				22,9 <i>3,41</i>	22,5 <i>3,56</i>	22,1 <i>3,70</i>	21,7 <i>3,79</i>	21,4 <i>3,88</i>	20,9 <i>4,00</i>	20,4 <i>4,11</i>	19,2 <i>4,31</i>	18,0 <i>4,44</i>	16,9 <i>4,58</i>	15,4 <i>4,71</i>	13,6 <i>4,71</i>	11,5 <i>4,75</i>	8,8 <i>4,79</i>	

TYPE	P ₂ nom. kW	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		
			H (m) / <i>pump input power (kW)</i>																									
65-315CM	7,5	132M	22,2 <i>1,82</i>	23,3 <i>3,30</i>	23,3 <i>3,46</i>	23,2 <i>3,63</i>	23,1 <i>3,79</i>	23,0 <i>3,95</i>	22,9 <i>4,11</i>	22,8 <i>4,27</i>	22,6 <i>4,42</i>	22,1 <i>4,72</i>	21,6 <i>5,02</i>	21,2 <i>5,30</i>	20,7 <i>5,57</i>	20,2 <i>5,84</i>	19,6 <i>6,10</i>	18,9 <i>6,36</i>	18,2 <i>6,60</i>	17,4 <i>6,84</i>	16,5 <i>7,06</i>	15,6 <i>7,27</i>	14,5 <i>7,47</i>	13,5 <i>7,66</i>				
65-315BM	11	160M	27,4 <i>2,47</i>	28,2 <i>4,17</i>	28,2 <i>4,37</i>	28,2 <i>4,58</i>	28,2 <i>4,78</i>	28,1 <i>4,98</i>	28,0 <i>5,17</i>	27,8 <i>5,36</i>	27,6 <i>5,54</i>	27,2 <i>5,91</i>	26,7 <i>6,26</i>	26,2 <i>6,60</i>	25,7 <i>6,93</i>	25,2 <i>7,26</i>	24,6 <i>7,57</i>	24,1 <i>7,88</i>	23,4 <i>8,18</i>	22,7 <i>8,47</i>	21,8 <i>8,76</i>	20,8 <i>9,03</i>	19,8 <i>9,29</i>	18,9 <i>9,54</i>	18,1 <i>9,78</i>			
65-315AM	11	160M	32,9 <i>3,20</i>	33,4 <i>5,15</i>	33,4 <i>5,38</i>	33,4 <i>5,60</i>	33,3 <i>5,83</i>	33,3 <i>6,04</i>	33,2 <i>6,25</i>	33,1 <i>6,46</i>	32,9 <i>6,67</i>	32,3 <i>7,12</i>	31,8 <i>7,55</i>	31,2 <i>7,97</i>	30,6 <i>8,36</i>	30,0 <i>8,75</i>	29,4 <i>9,10</i>	28,7 <i>9,44</i>	28,1 <i>9,77</i>	27,3 <i>10,10</i>	26,4 <i>10,44</i>	25,3 <i>10,78</i>	24,2 <i>11,11</i>	23,2 <i>11,41</i>	22,1 <i>11,68</i>	20,9 <i>11,94</i>		

[illegible]

TYPE	P ₂ nom. kW	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
			H (m) / pump input power (kW)														
80-315B	11	160M	27,7 <u>2,99</u>	28,3 <u>5,48</u>	28,2 <u>5,88</u>	27,9 <u>6,67</u>	27,2 <u>7,42</u>	26,4 <u>8,09</u>	25,4 <u>8,67</u>	24,9 <u>8,95</u>	24,4 <u>9,21</u>	23,3 <u>9,74</u>	21,9 <u>10,28</u>	20,5 <u>10,66</u>	19,9 <u>10,85</u>		
80-315A	15	160L	34,5 <u>4,29</u>	35,0 <u>7,30</u>	34,9 <u>7,78</u>	34,6 <u>8,75</u>	34,0 <u>9,66</u>	33,3 <u>10,53</u>	32,4 <u>11,37</u>	31,9 <u>11,77</u>	31,3 <u>12,17</u>	30,1 <u>12,91</u>	28,8 <u>13,50</u>	27,3 <u>14,05</u>	26,4 <u>14,31</u>	25,5 <u>14,56</u>	23,7 <u>15,04</u>

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																
100-200B	5,5	132S	14,5 <u>2,81</u>	14,6 <u>3,57</u>	14,3 <u>3,82</u>	14,0 <u>4,07</u>	13,6 <u>4,32</u>	13,2 <u>4,56</u>	12,9 <u>4,66</u>	12,7 <u>4,76</u>	11,9 <u>4,94</u>	11,1 <u>5,07</u>	10,2 <u>5,16</u>	9,7 <u>5,20</u>	9,2 <u>5,23</u>	8,1 <u>5,26</u>	6,9 <u>5,27</u>		
100-200A	7,5	132M	16,3 <u>3,12</u>	16,5 <u>4,06</u>	16,3 <u>4,35</u>	16,0 <u>4,63</u>	15,7 <u>4,93</u>	15,3 <u>5,25</u>	15,1 <u>5,40</u>	14,9 <u>5,54</u>	14,2 <u>5,80</u>	13,4 <u>6,00</u>	12,6 <u>6,15</u>	12,1 <u>6,20</u>	11,6 <u>6,26</u>	10,5 <u>6,36</u>	9,4 <u>6,43</u>	8,1 <u>6,47</u>	
100-250E	7,5	132M	18,0 <u>3,08</u>		18,1 <u>4,89</u>	18,0 <u>5,29</u>	17,7 <u>5,67</u>	17,3 <u>6,02</u>	17,1 <u>6,19</u>	16,8 <u>6,37</u>	16,0 <u>6,70</u>	15,1 <u>6,99</u>	14,2 <u>7,24</u>	13,7 <u>7,35</u>	13,1 <u>7,45</u>	12,0 <u>7,61</u>	10,6 <u>7,73</u>		
100-250D	7,5	132M	21,2		21,1	20,8	20,5	20,1	19,8	19,5	18,8	17,9	16,8	16,3	15,7	14,5	13,2	11,8	
	11	160M	<u>3,40</u>		<u>5,67</u>	<u>6,13</u>	<u>6,55</u>	<u>6,92</u>	<u>7,10</u>	<u>7,27</u>	<u>7,60</u>	<u>7,94</u>	<u>8,25</u>	<u>8,38</u>	<u>8,49</u>	<u>8,69</u>	<u>8,85</u>	<u>9,00</u>	
100-250A	11	160M	24,3 <u>3,97</u>		23,9 <u>6,41</u>	23,6 <u>6,94</u>	23,2 <u>7,44</u>	22,7 <u>7,90</u>	22,4 <u>8,12</u>	22,1 <u>8,32</u>	21,4 <u>8,70</u>	20,6 <u>9,06</u>	19,5 <u>9,40</u>	19,0 <u>9,55</u>	18,3 <u>9,69</u>	17,0 <u>9,92</u>	15,6 <u>10,11</u>	14,2 <u>10,27</u>	12,7 <u>10,43</u>

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>															
100-315B	15	160L	31,1 <i>5,27</i>	31,5 <i>9,67</i>	30,7 <i>10,42</i>	29,8 <i>11,09</i>	29,3 <i>11,41</i>	28,9 <i>11,71</i>	27,9 <i>12,27</i>	26,9 <i>12,79</i>	26,0 <i>13,27</i>	25,5 <i>13,50</i>	25,0 <i>13,72</i>	23,8 <i>14,12</i>	22,4 <i>14,50</i>	20,7 <i>14,84</i>	19,0 <i>15,14</i>	17,3 <i>15,39</i>
100-315A	18,5	180M	36,3 <i>6,29</i>	36,8 <i>11,39</i>	36,0 <i>12,31</i>	35,0 <i>13,12</i>	34,5 <i>13,49</i>	34,0 <i>13,84</i>	33,1 <i>14,51</i>	32,2 <i>15,12</i>	31,2 <i>15,69</i>	30,7 <i>15,97</i>	30,1 <i>16,23</i>	29,0 <i>16,76</i>	27,7 <i>17,26</i>	26,2 <i>17,71</i>	24,5 <i>18,11</i>	22,7 <i>18,46</i>

TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)															
			0	84	96	102	108	120	132	144	150	156	168	180	192	204	216	228
			0	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800
			H (m) / pump input power (kW)															
100-400C	22	180L	41,8 <u>7,59</u>	41,2 <u>14,71</u>	40,2 <u>15,77</u>	39,6 <u>16,29</u>	39,1 <u>16,77</u>	38,0 <u>17,58</u>	36,9 <u>18,31</u>	35,8 <u>19,06</u>	35,2 <u>19,42</u>	34,6 <u>19,78</u>	33,4 <u>20,48</u>	32,2 <u>21,14</u>	30,7 <u>21,72</u>	29,1 <u>22,24</u>	27,3 <u>22,71</u>	25,5 <u>23,18</u>
100-400B	30	200L	50,0 <u>9,48</u>	49,1 <u>18,22</u>	48,4 <u>19,48</u>	47,9 <u>20,10</u>	47,5 <u>20,70</u>	46,4 <u>21,84</u>	45,2 <u>22,92</u>	44,0 <u>23,89</u>	43,3 <u>24,35</u>	42,2 <u>24,80</u>	41,5 <u>25,66</u>	40,3 <u>26,49</u>	38,9 <u>27,38</u>	37,3 <u>28,21</u>	35,6 <u>28,88</u>	33,8 <u>29,47</u>
100-400A	37	225S	58,6 <u>11,70</u>	57,5 <u>21,90</u>	56,7 <u>23,46</u>	56,3 <u>24,23</u>	55,8 <u>24,96</u>	54,8 <u>26,30</u>	53,6 <u>27,56</u>	52,4 <u>28,74</u>	51,7 <u>29,31</u>	51,1 <u>29,87</u>	49,7 <u>31,02</u>	48,3 <u>32,13</u>	47,2 <u>33,18</u>	46,1 <u>34,16</u>	44,6 <u>35,04</u>	42,6 <u>35,79</u>
																40,5 <u>36,47</u>	38,5 <u>37,10</u>	

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																
125-250B	11	160M	21,0 <i>7,40</i>	21,9 <i>9,38</i>	21,6 <i>9,50</i>	20,9 <i>9,70</i>	20,1 <i>9,88</i>	19,4 <i>10,09</i>	19,0 <i>10,20</i>	18,5 <i>10,31</i>	17,9 <i>10,52</i>	17,1 <i>10,72</i>	16,2 <i>10,89</i>	15,1 <i>11,03</i>	13,9 <i>11,12</i>	12,6 <i>11,16</i>	11,5 <i>11,15</i>	10,2 <i>11,08</i>	
125-250A	15	160L	25,0 <i>8,48</i>	26,4 <i>11,32</i>	26,1 <i>11,53</i>	25,6 <i>11,92</i>	25,0 <i>12,25</i>	24,3 <i>12,57</i>	24,0 <i>12,75</i>	23,8 <i>12,96</i>	23,2 <i>13,41</i>	22,5 <i>13,79</i>	21,7 <i>14,13</i>	20,8 <i>14,41</i>	19,8 <i>14,64</i>	18,7 <i>14,84</i>	17,5 <i>15,01</i>	16,3 <i>15,13</i>	13,7 <i>15,22</i>



4CA-4CAX ~ EN 733

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																	
125-315C	22	180L	22,7	24,6	24,4	24,1	24,0	23,8	23,5	23,2	22,8	22,5	22,2	21,9	21,4	20,8	19,1	12,3		
			7,94	13,06	13,61	14,19	14,49	14,79	15,40	16,00	16,61	17,20	17,76	18,30	18,80	19,26	20,06	21,35		
125-315B	30	200L	30,1	31,9	31,9	31,7	31,6	31,5	31,3	31,0	30,6	30,3	30,0	29,7	29,3	28,9	27,8	22,2	20,3	
			10,95	17,09	17,84	18,58	18,96	19,35	20,17	21,04	21,89	22,64	23,31	23,94	24,60	25,31	26,68	29,64	30,62	
125-315A	37	225S	34,7	37,1	37,2	37,1	37,0	36,9	36,7	36,4	36,1	35,8	35,5	35,1	34,7	34,3	33,3	28,9	26,8	
			12,41	20,09	21,03	22,01	22,50	22,99	23,95	24,86	25,74	26,59	27,39	28,13	28,85	29,57	31,09	35,18	36,24	
125-400C	45	225M	46,2	47,6	47,5	47,2	47,0	46,9	46,5	46,1	45,7	45,2	44,7	44,2	43,7	43,2	42,4	36,5	33,8	
			13,91	24,65	25,83	27,03	27,62	28,20	29,31	30,30	31,22	32,17	33,24	34,42	35,62	36,73	38,53	43,95	45,52	
125-400B	55	250M	53,4	54,5	54,3	54,1	54,0	53,9	53,5	53,2	52,7	52,3	51,7	51,2	50,6	50,0	48,8	44,6	42,0	39,1
			16,79	28,74	30,15	31,55	32,25	32,94	34,30	35,60	36,85	38,07	39,30	40,56	41,82	43,06	45,43	51,75	53,55	55,27
125-400A	75	280S	58,6	59,5	59,4	59,2	59,1	59,0	58,7	58,3	57,8	57,4	56,8	56,3	55,7	55,1	53,9	49,9	47,2	45,0
			18,95	31,66	33,20	34,74	35,52	36,29	37,81	39,30	40,77	42,22	43,66	45,09	46,50	47,87	50,49	57,63	59,76	61,83

TYPE	P ₂ nom. kW	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	
			H (m) / <i>pump input power (kW)</i>																				
150-315D	30	200L	23,9 <i>15,21</i>	27,0 <i>20,50</i>	27,0 <i>20,74</i>	26,9 <i>20,99</i>	26,8 <i>21,50</i>	26,6 <i>22,01</i>	26,4 <i>22,53</i>	26,2 <i>23,04</i>	25,9 <i>23,53</i>	25,6 <i>24,00</i>	25,3 <i>24,44</i>	25,0 <i>24,85</i>	24,3 <i>25,63</i>	21,5 <i>27,81</i>	20,4 <i>28,56</i>	19,2 <i>29,30</i>	 <i>30,78</i>				
150-315C	37	225S	28,4 <i>16,50</i>	31,8 <i>23,70</i>	31,8 <i>24,01</i>	31,8 <i>24,32</i>	31,8 <i>24,94</i>	31,7 <i>25,57</i>	31,5 <i>26,20</i>	31,4 <i>26,82</i>	31,2 <i>27,42</i>	31,0 <i>28,00</i>	30,8 <i>28,55</i>	30,5 <i>29,09</i>	29,9 <i>30,10</i>	27,5 <i>33,00</i>	26,6 <i>34,06</i>	25,7 <i>35,17</i>	23,2 <i>37,00</i>	19,6 <i>38,00</i>			
150-315B	45	225M	32,2 <i>18,32</i>	36,3 <i>26,50</i>	36,3 <i>26,85</i>	36,3 <i>27,21</i>	36,2 <i>27,93</i>	36,1 <i>28,65</i>	36,0 <i>29,37</i>	35,8 <i>30,09</i>	35,6 <i>30,80</i>	35,4 <i>31,50</i>	35,2 <i>32,18</i>	35,0 <i>32,86</i>	34,7 <i>33,49</i>	32,8 <i>38,00</i>	31,8 <i>39,24</i>	30,7 <i>40,48</i>	28,0 <i>42,60</i>	24,5 <i>44,00</i>	20,8 <i>45,50</i>		
150-315A	55	250M	39,4 <i>20,63</i>	41,0 <i>30,00</i>	41,0 <i>30,40</i>	40,9 <i>30,81</i>	40,8 <i>31,62</i>	40,7 <i>32,44</i>	40,5 <i>33,26</i>	40,4 <i>34,08</i>	40,2 <i>34,89</i>	40,0 <i>35,70</i>	39,8 <i>36,50</i>	39,6 <i>37,30</i>	39,2 <i>38,90</i>	37,6 <i>43,50</i>	36,9 <i>44,94</i>	36,0 <i>46,33</i>	34,1 <i>49,00</i>	31,7 <i>51,50</i>	28,0 <i>53,50</i>	26,0 <i>54,50</i>	

TYPE	P ₂ nom. kW	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
			H (m) / <i>pump input power (kW)</i>																		
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	53,7 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



4CA - 4CAX ~ 1750 r.p.m.

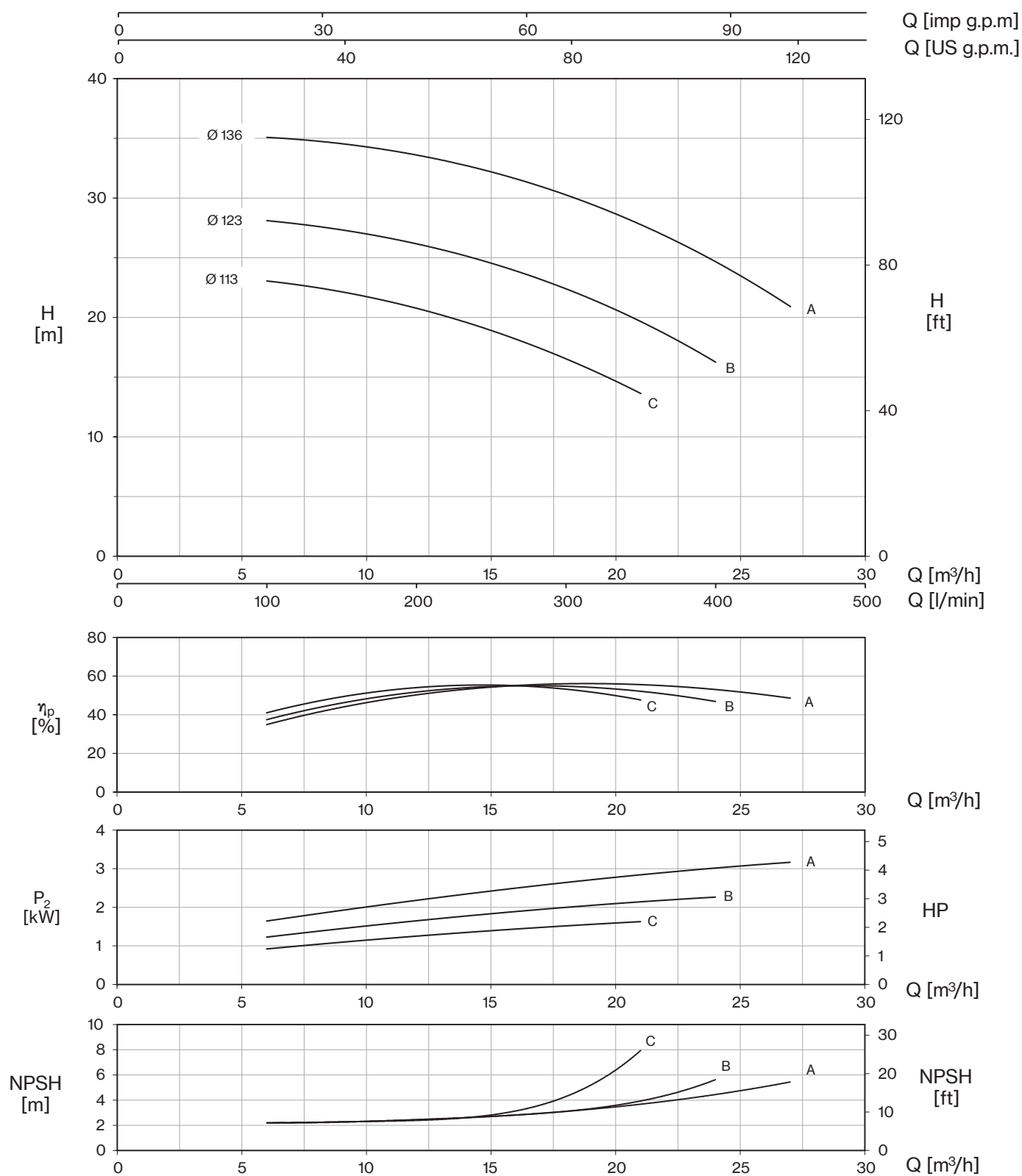
Machines complementing the existing range, not envisaged in the EN 733 standard

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

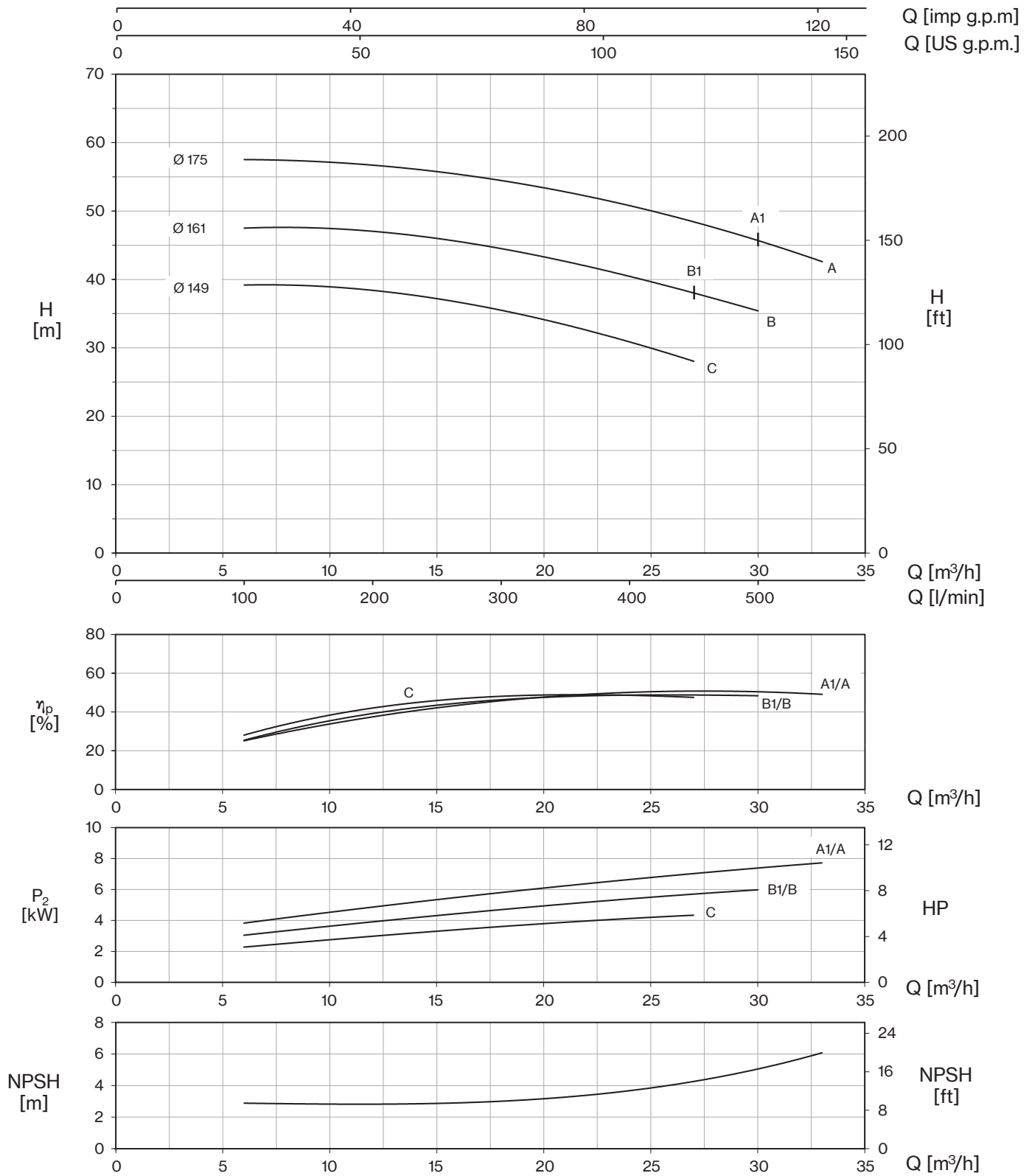
TYPE	P ₂ nom. kW	Motor Size	Q (m³/h - l/min)													
			0	250	400	600	800	850	900	1100	1170	1200	1300	1400	1500	1600
			0	4167	6667	10000	13333	14167	15000	18333	19500	20000	21667	23333	25000	26667
			H (m) / pump input power (kW)													
250-315B	75	280S	33,2 43,46	33,0 54,77	32,7 61,20	31,8 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 48,00	39,9 61,74	39,9 71,25	39,0 84,15	36,9 95,73	36,1 98,36	35,2 100,80	30,6 108,97	28,6 111,27	27,7 112,17	24,3 114,78			
	132	315M	44,0 53,83	45,8 71,89	45,9 83,20	44,9 98,11	42,7 112,06	42,0 115,25	41,2 118,20	37,2 128,07	35,4 130,85	34,5 131,93	31,3 135,08	27,4 137,50		
250-400C	160	315L	50,0 64,57	51,7 84,18	51,8 97,49	51,0 115,36	49,0 131,10	48,4 134,76	47,6 138,27	43,9 151,48	42,3 155,58	41,5 157,12	38,5 161,60	34,8 164,88	30,3 167,09	
	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	
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



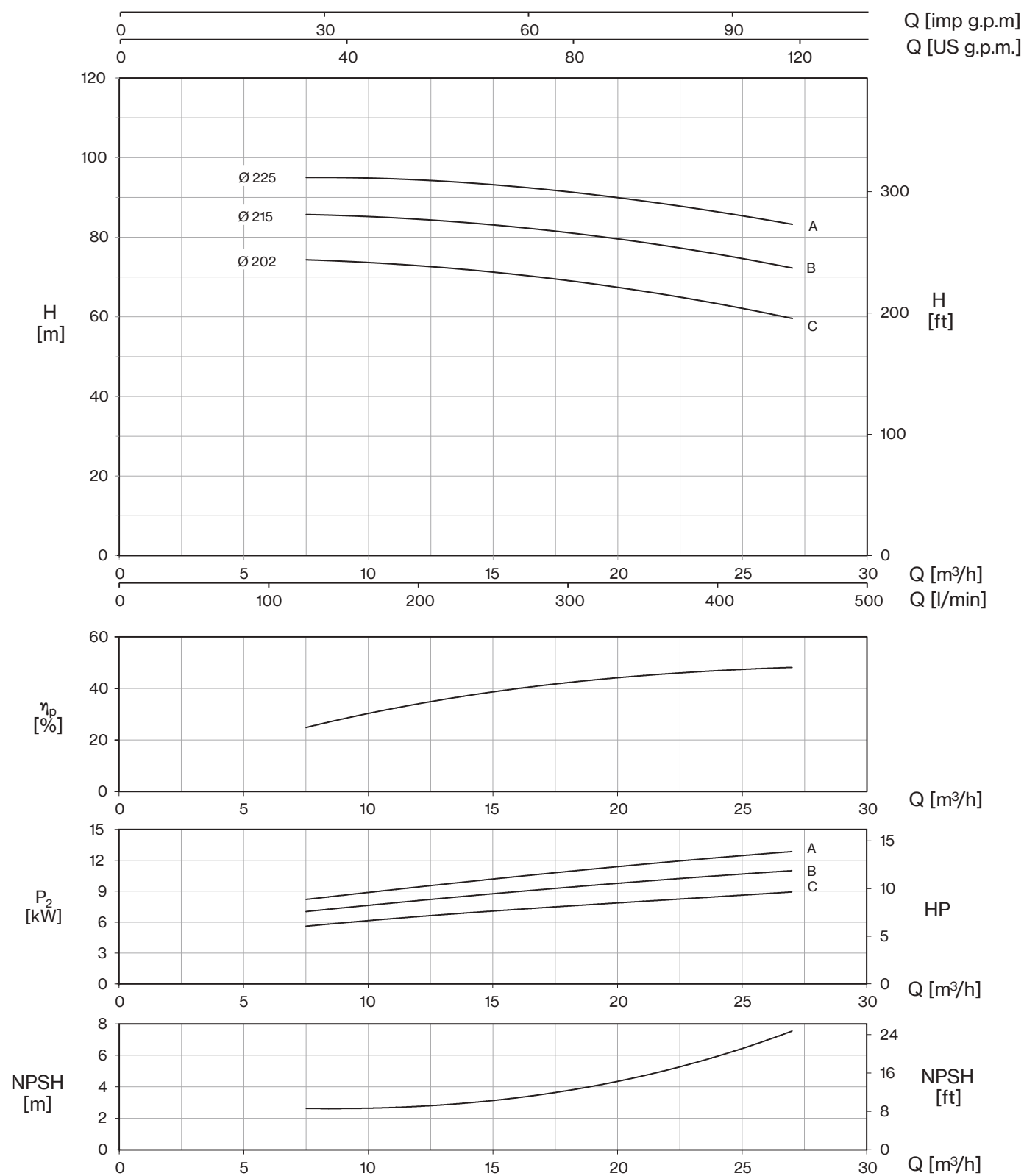
32-160



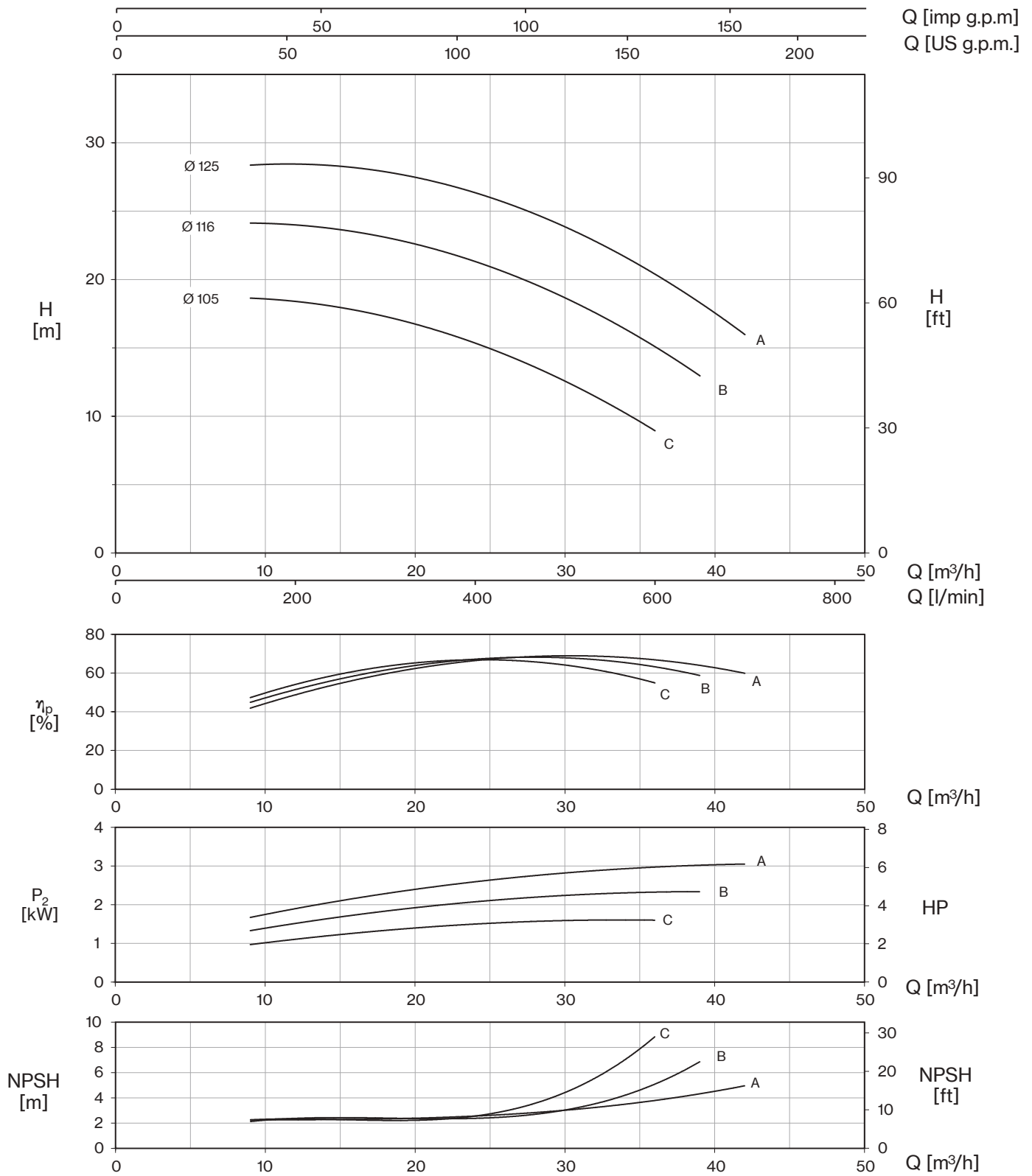
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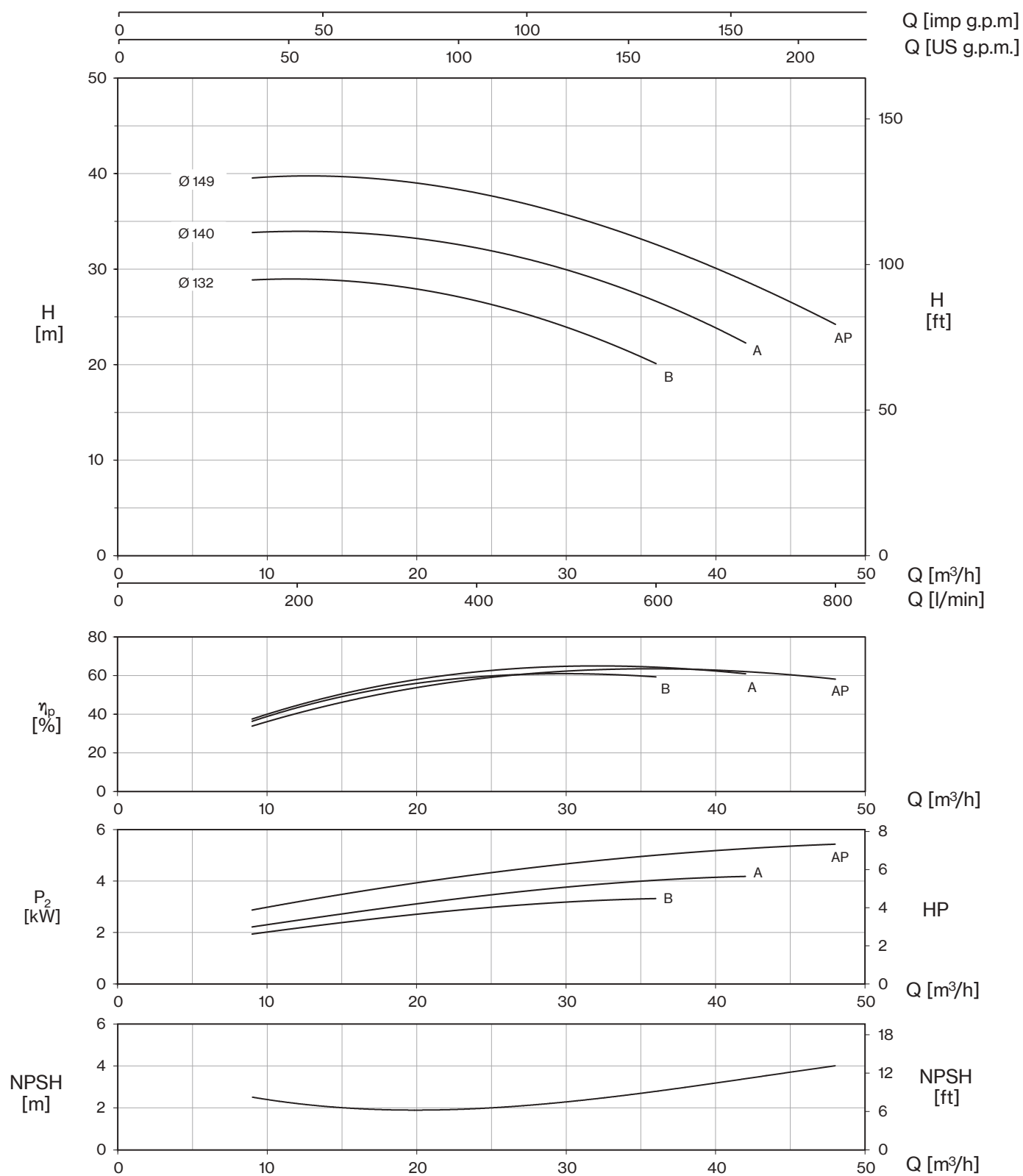
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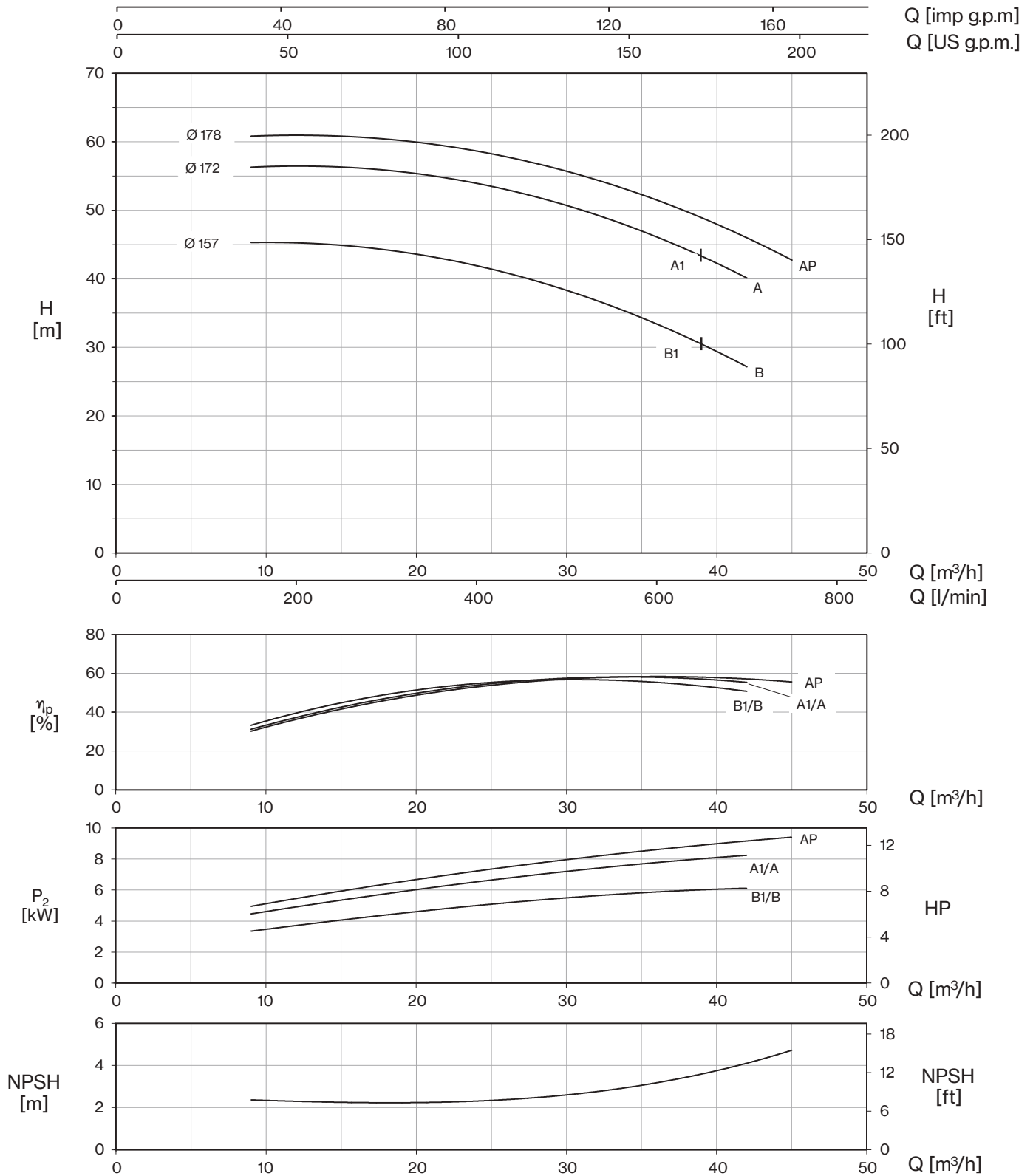
40-125



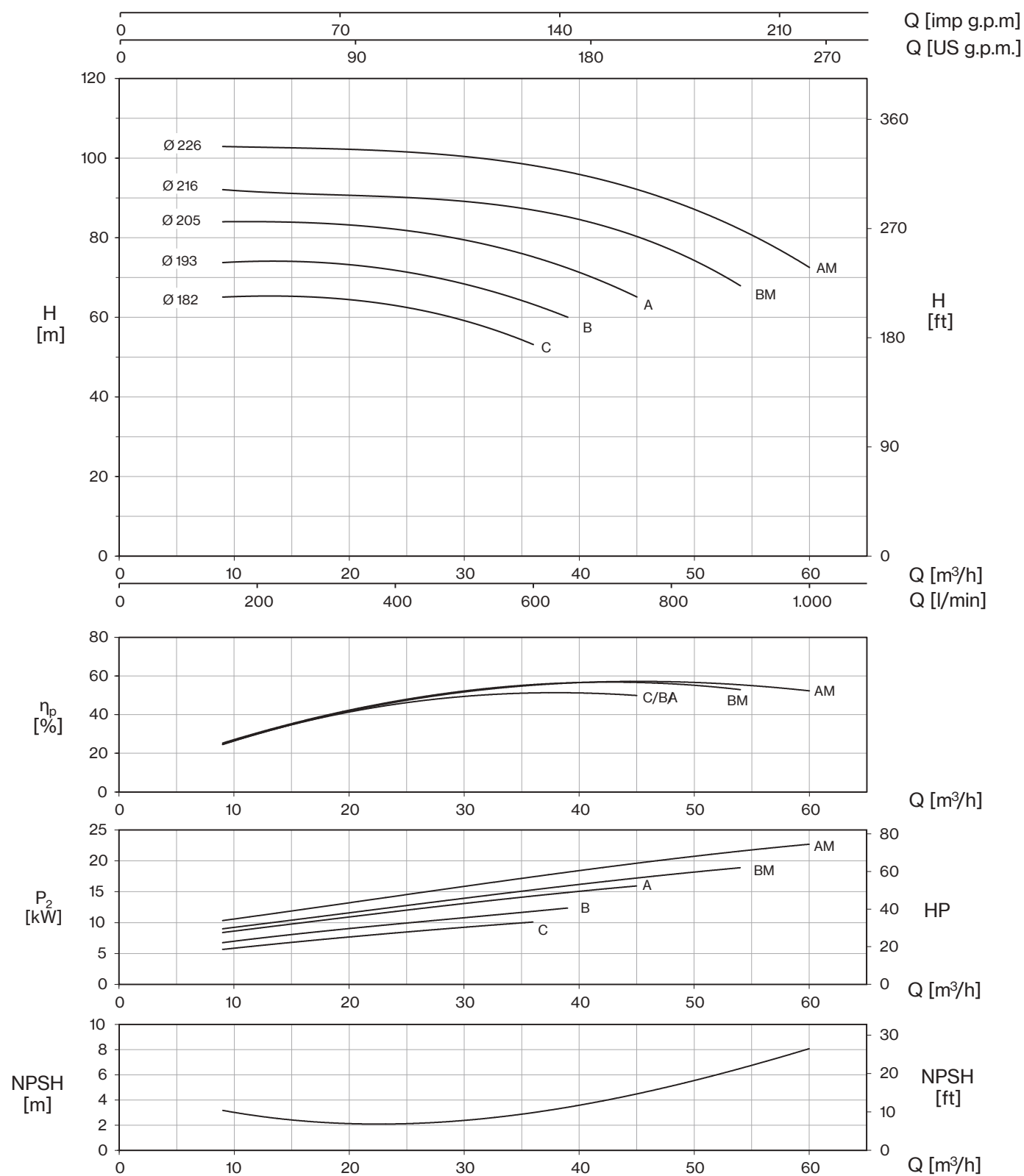
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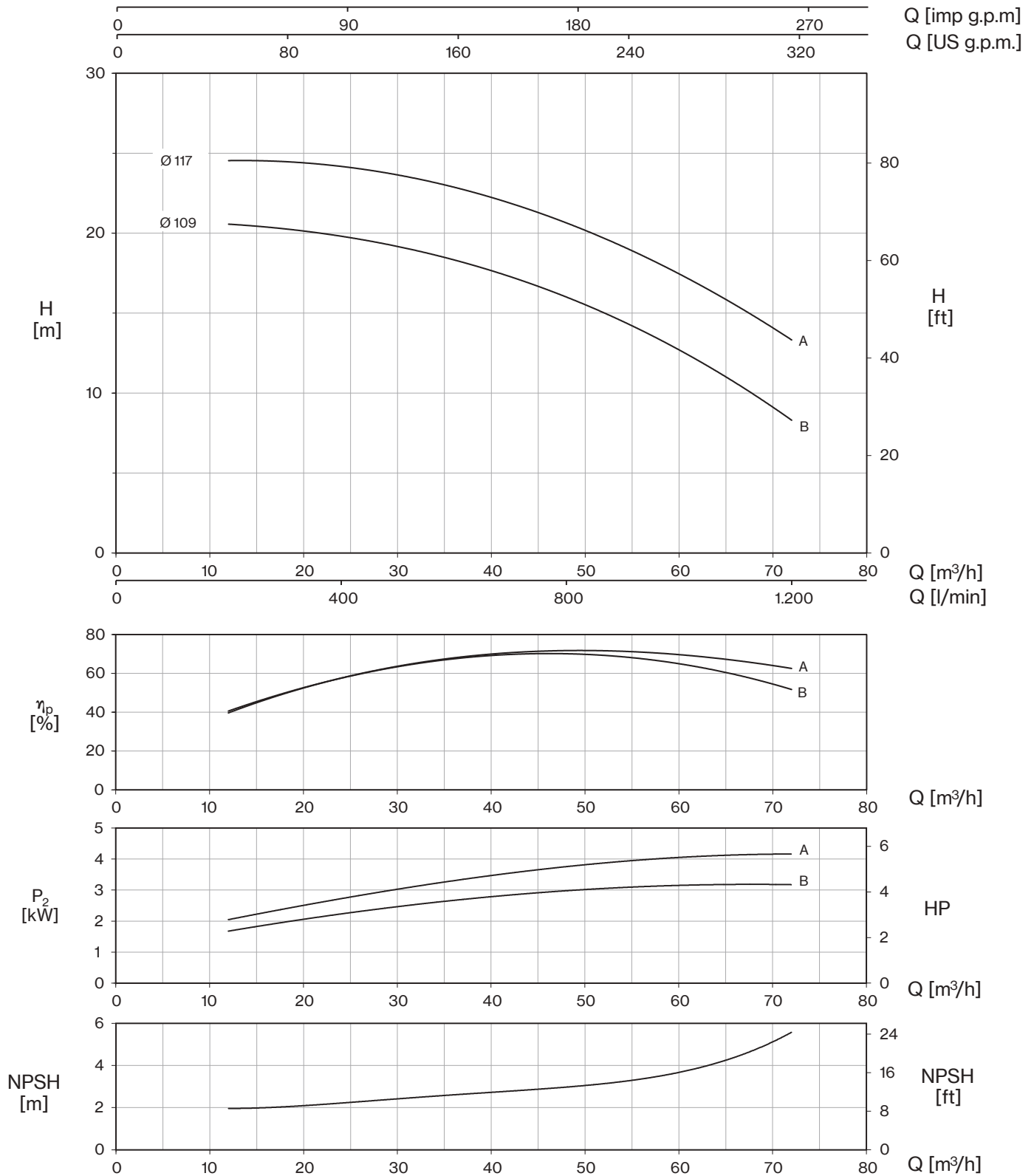
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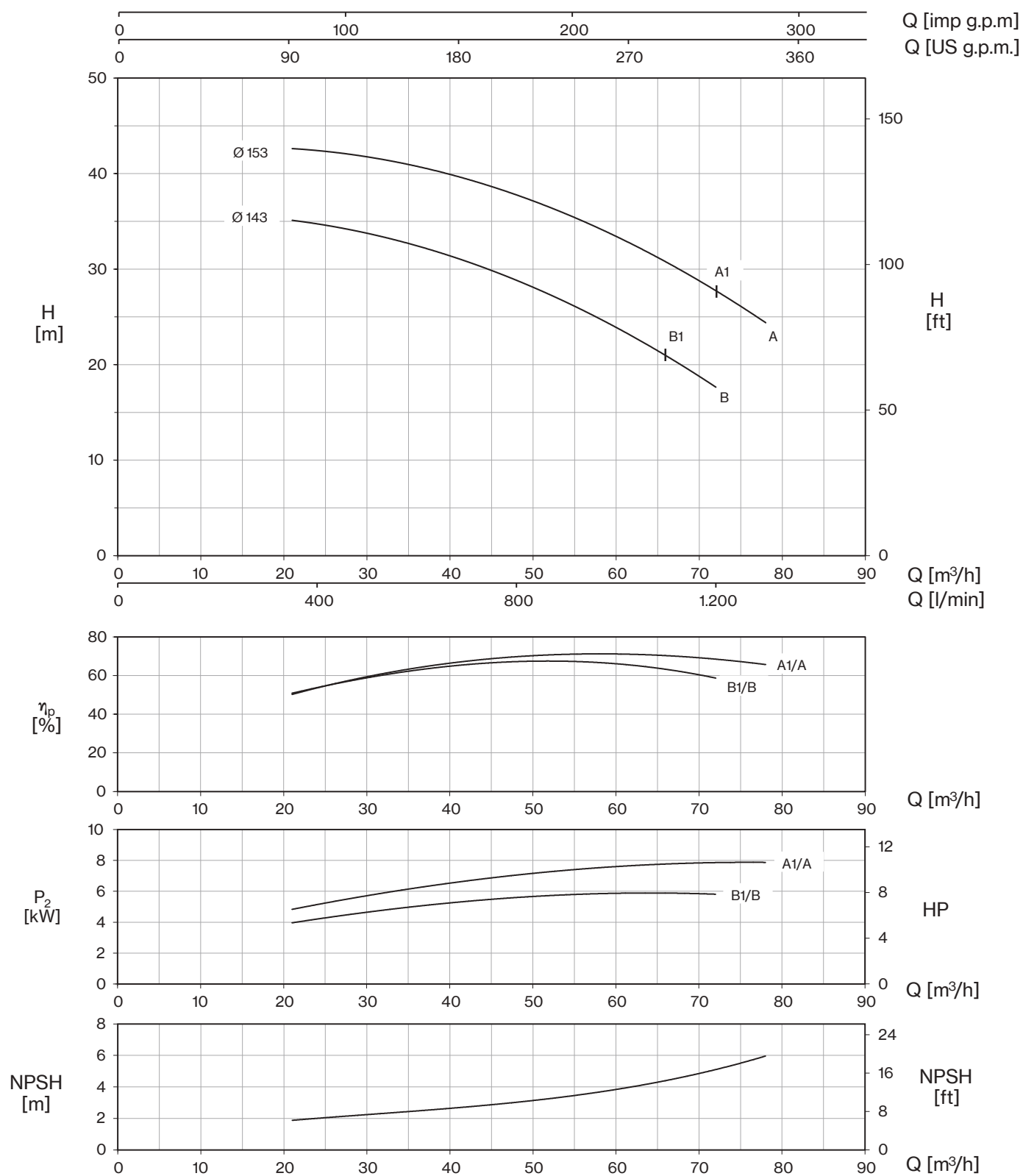
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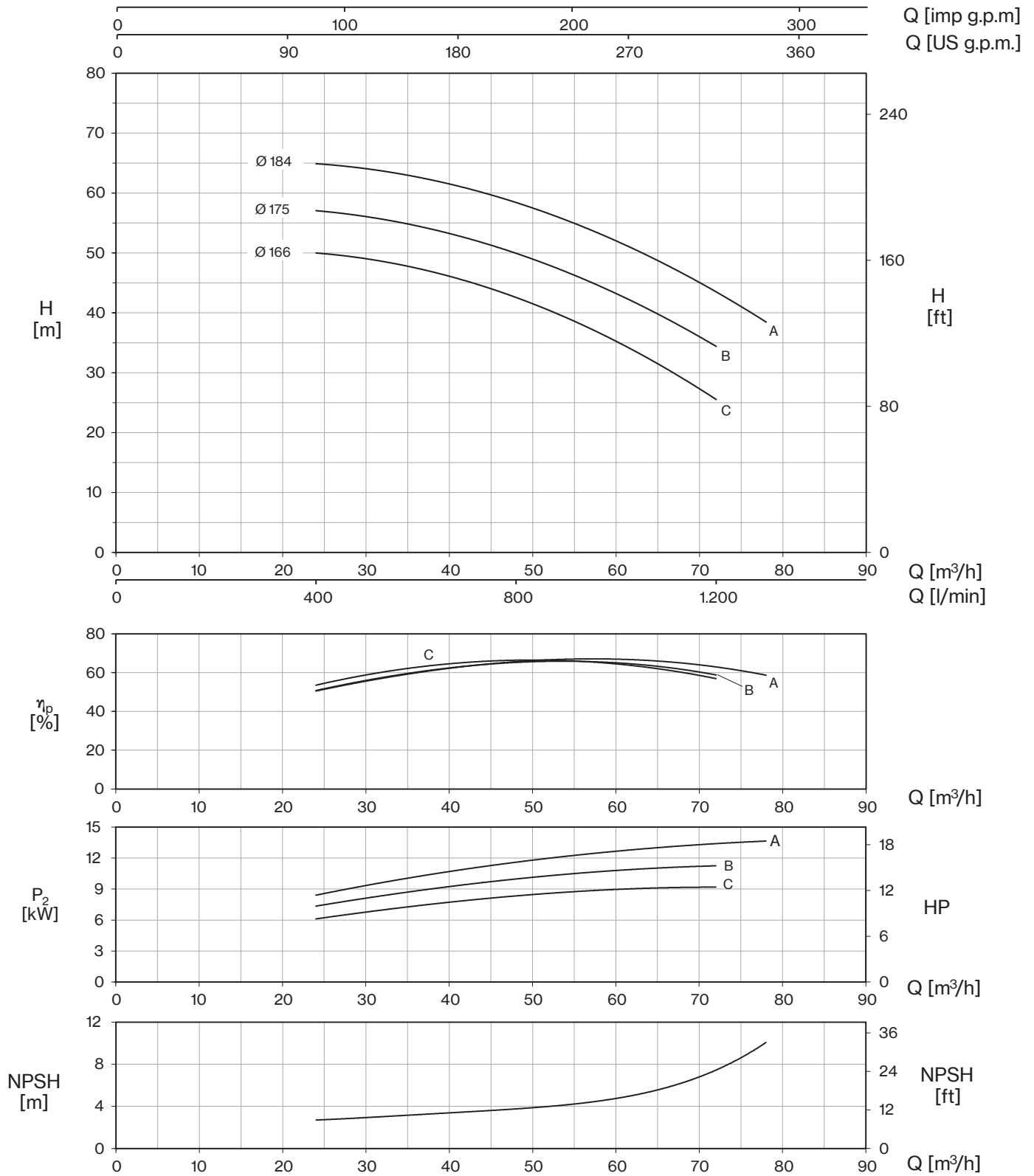
50-125



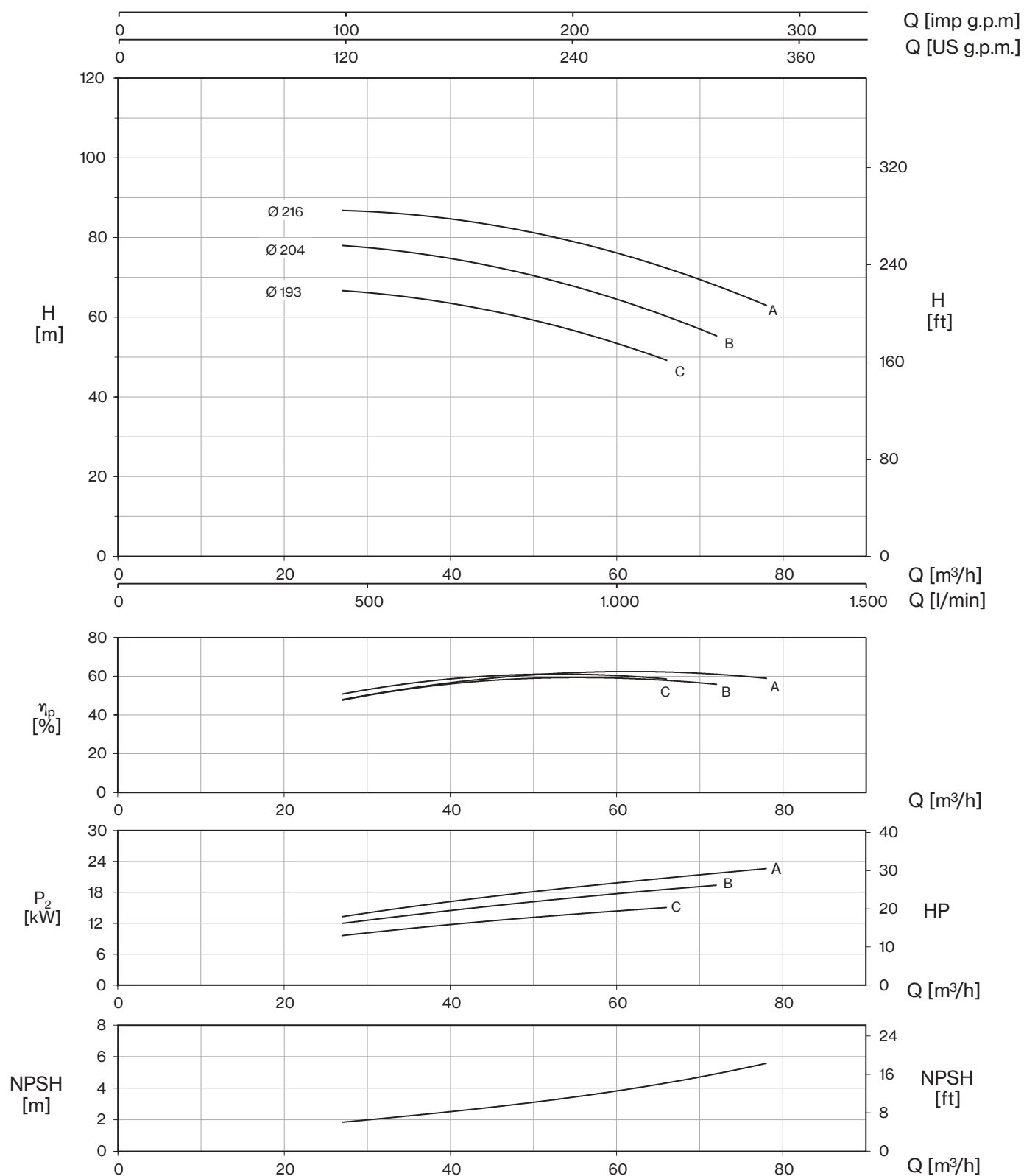
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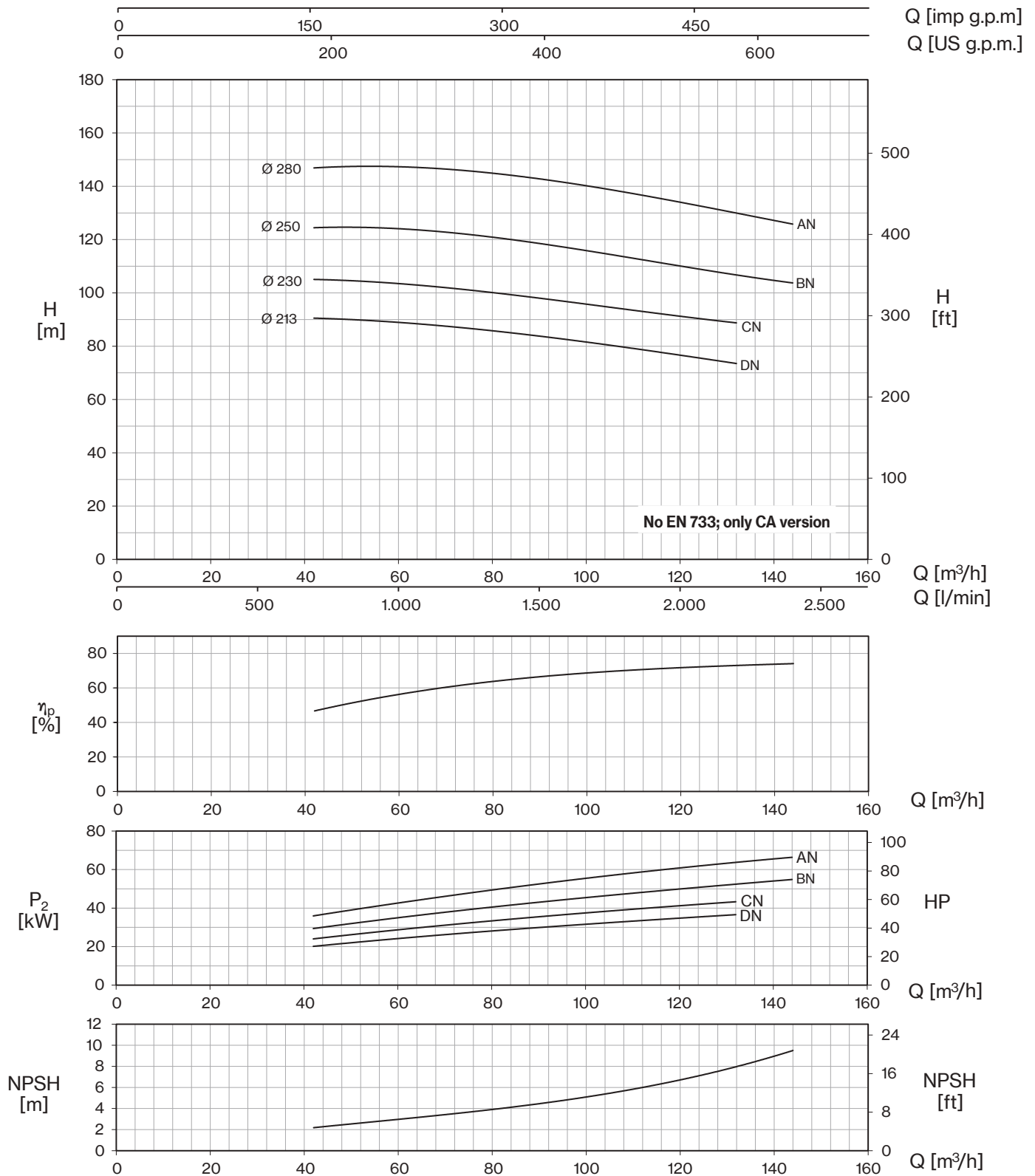
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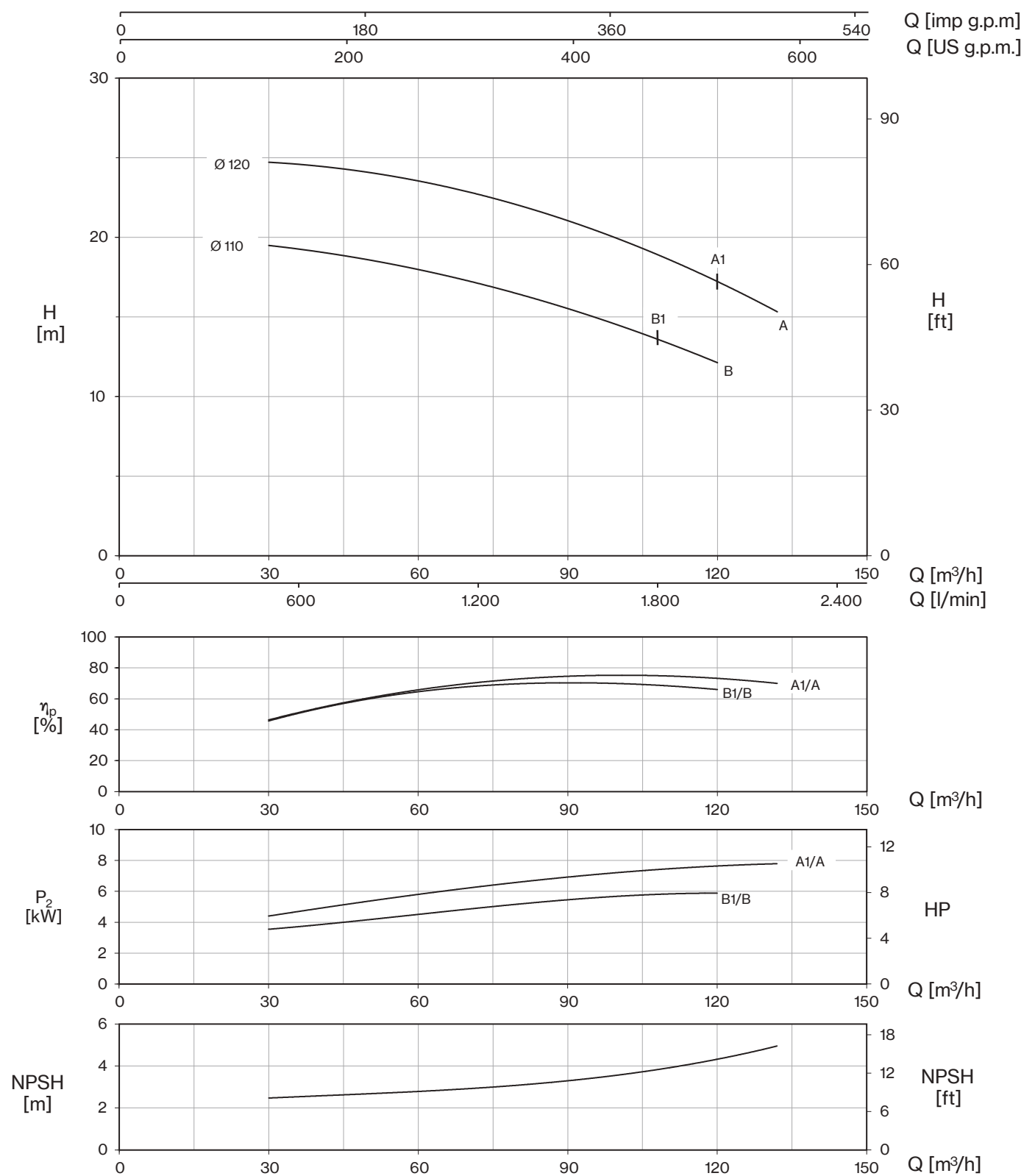
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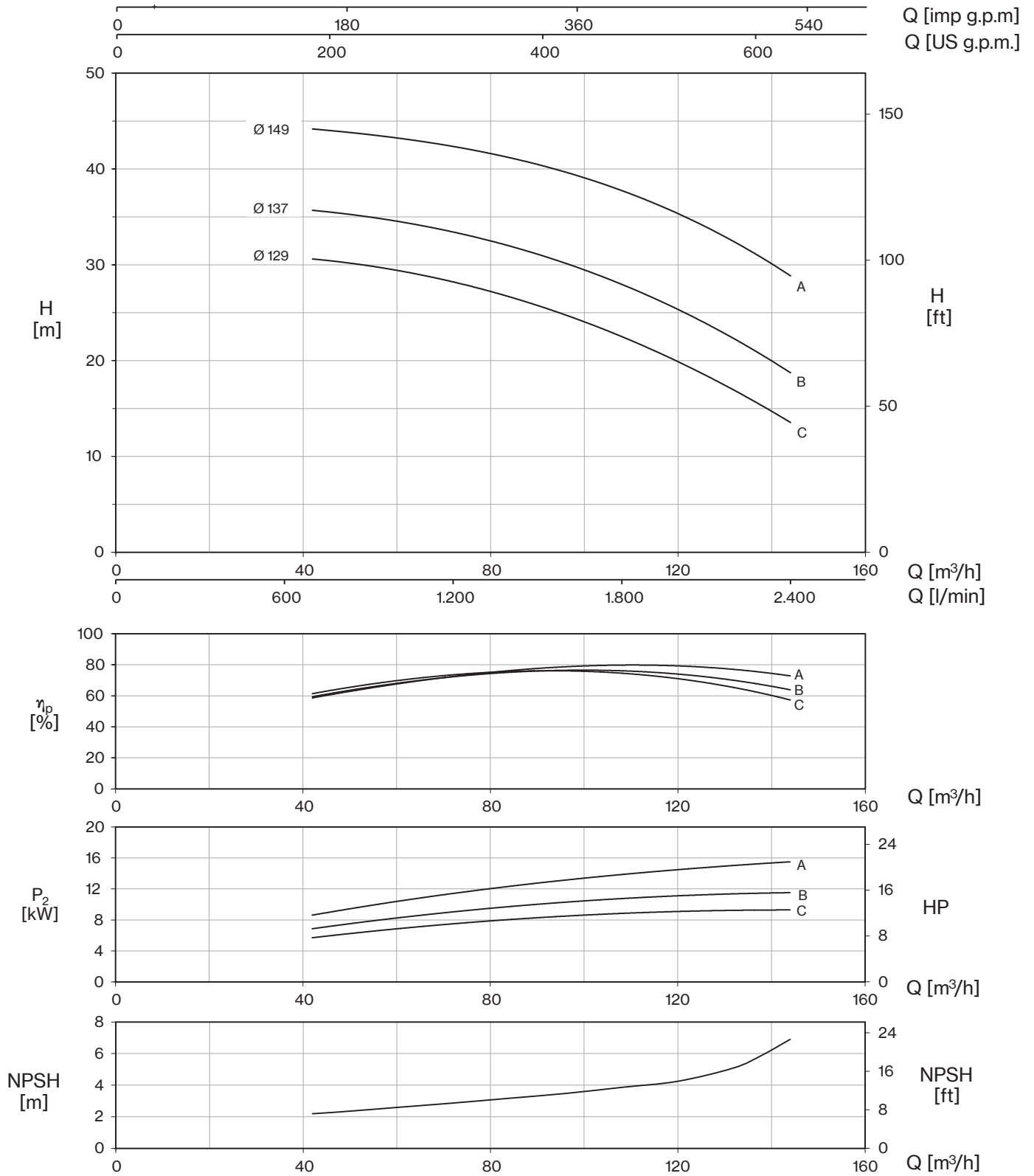
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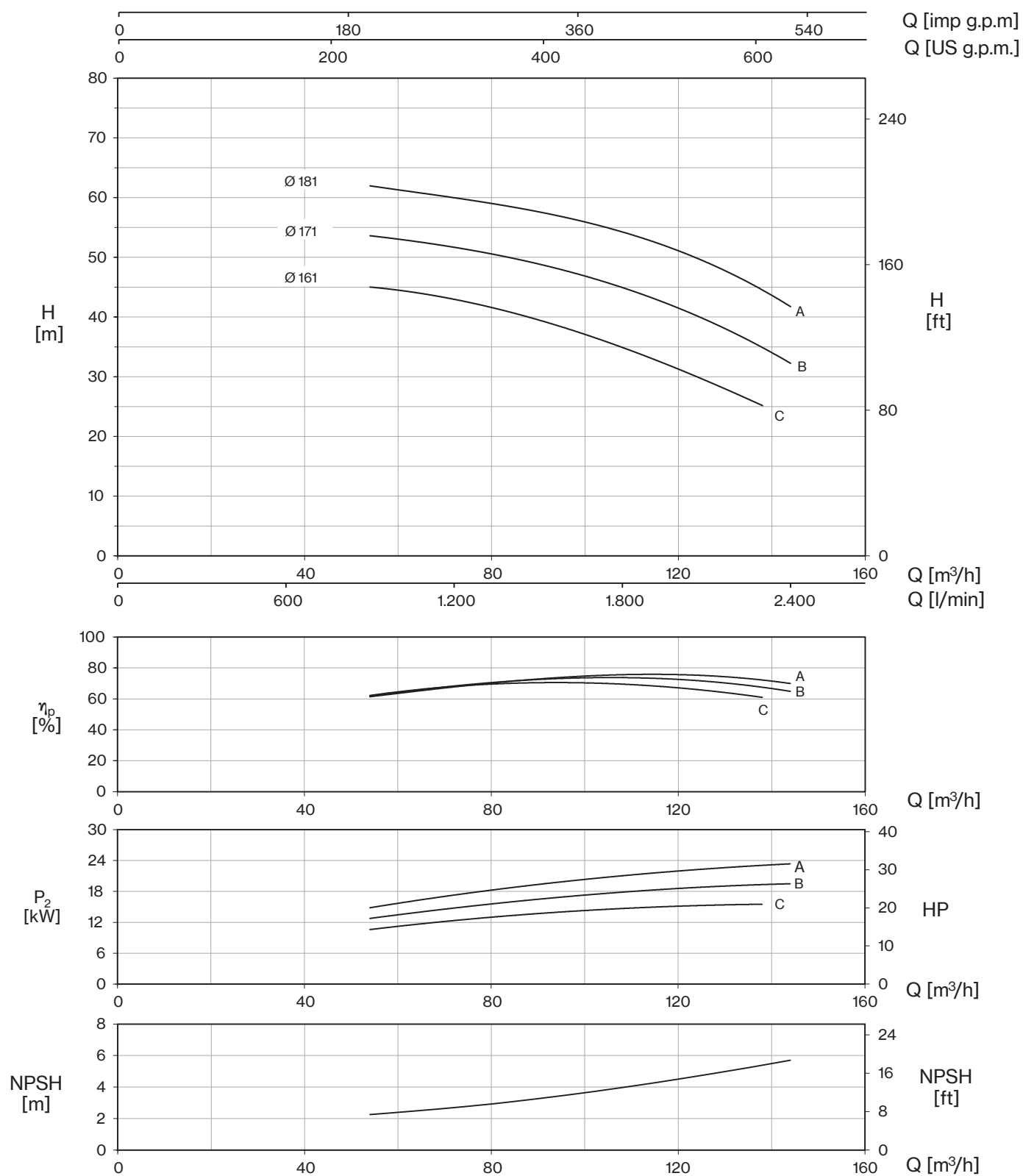
65-125



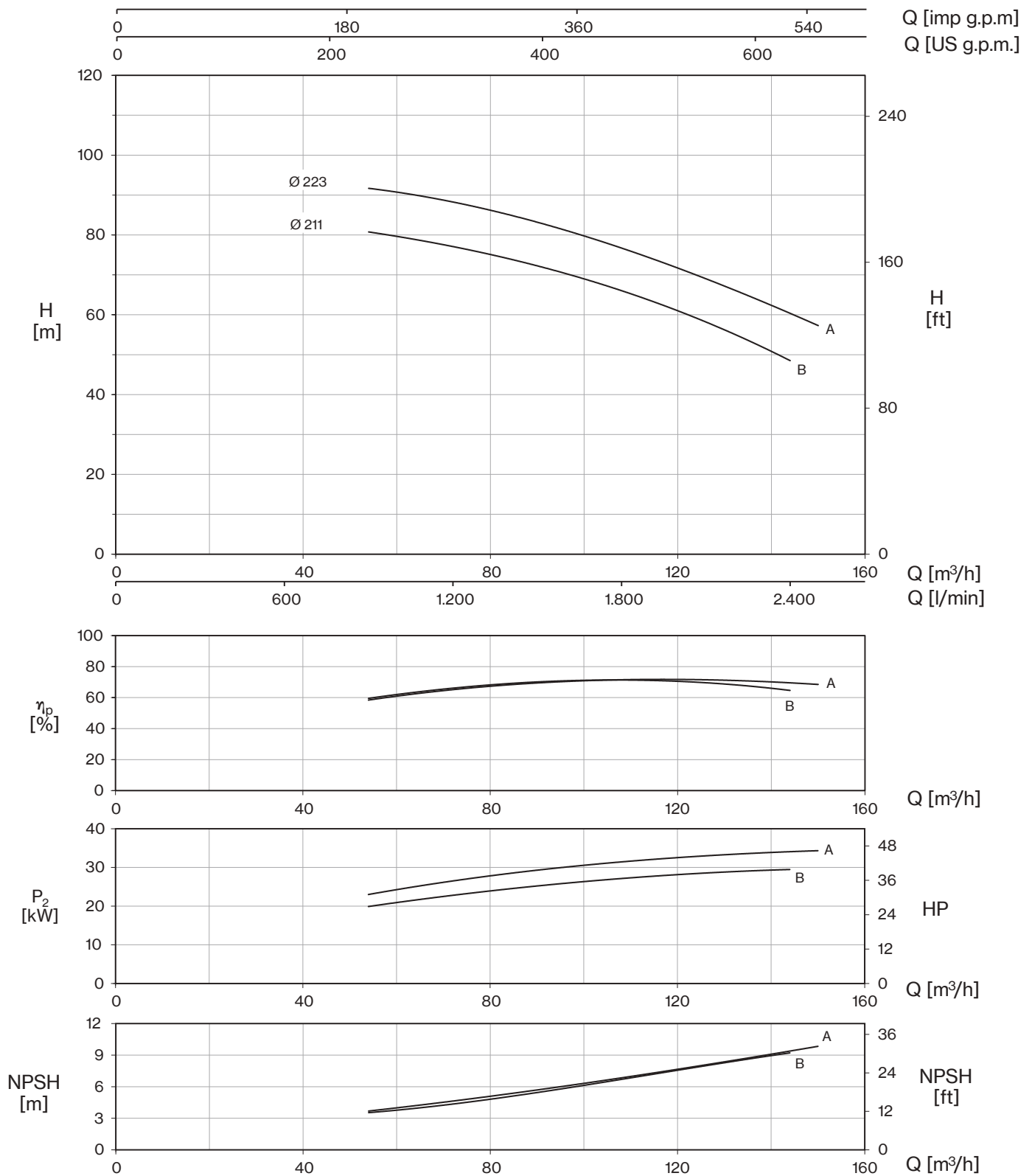
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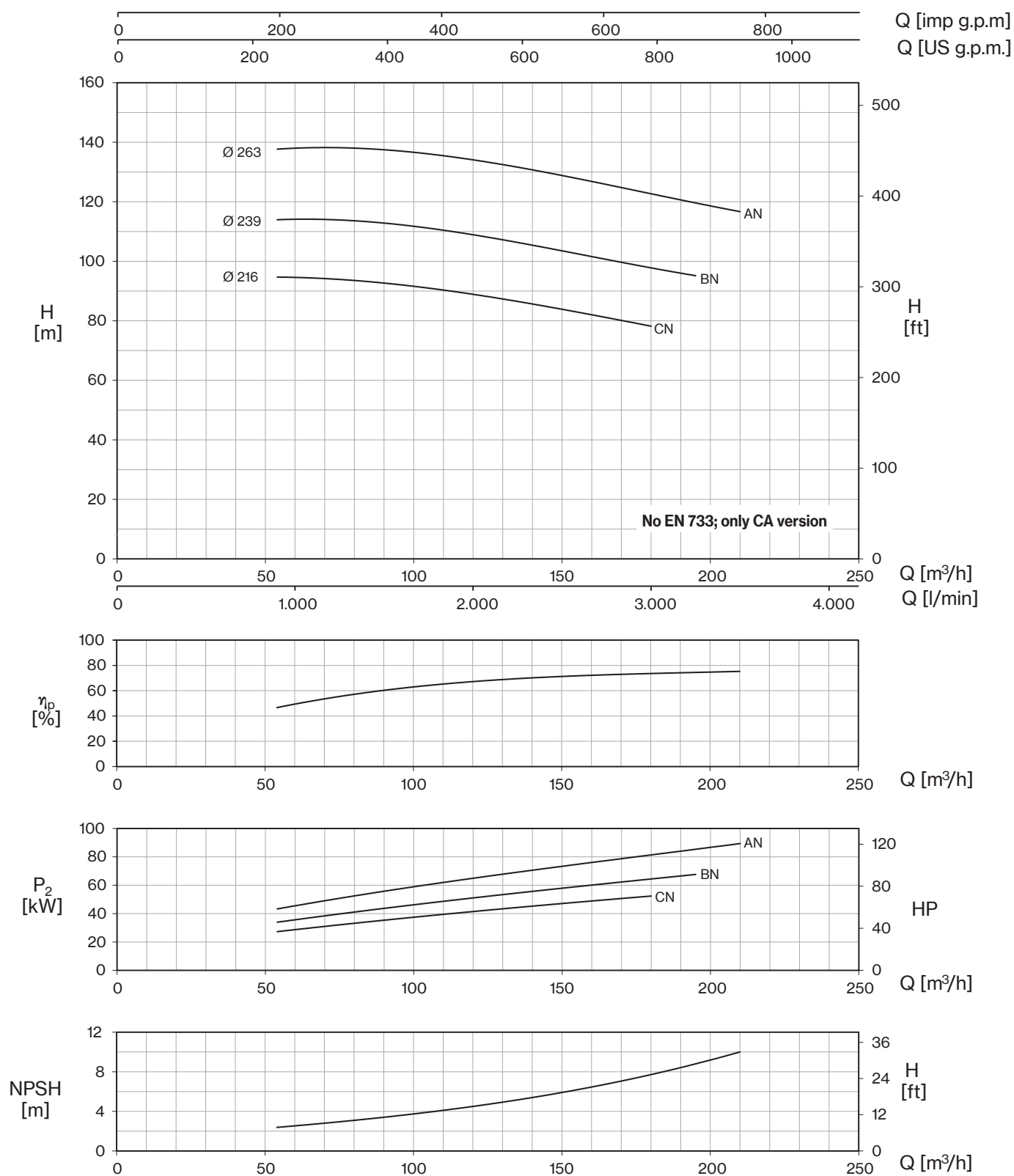
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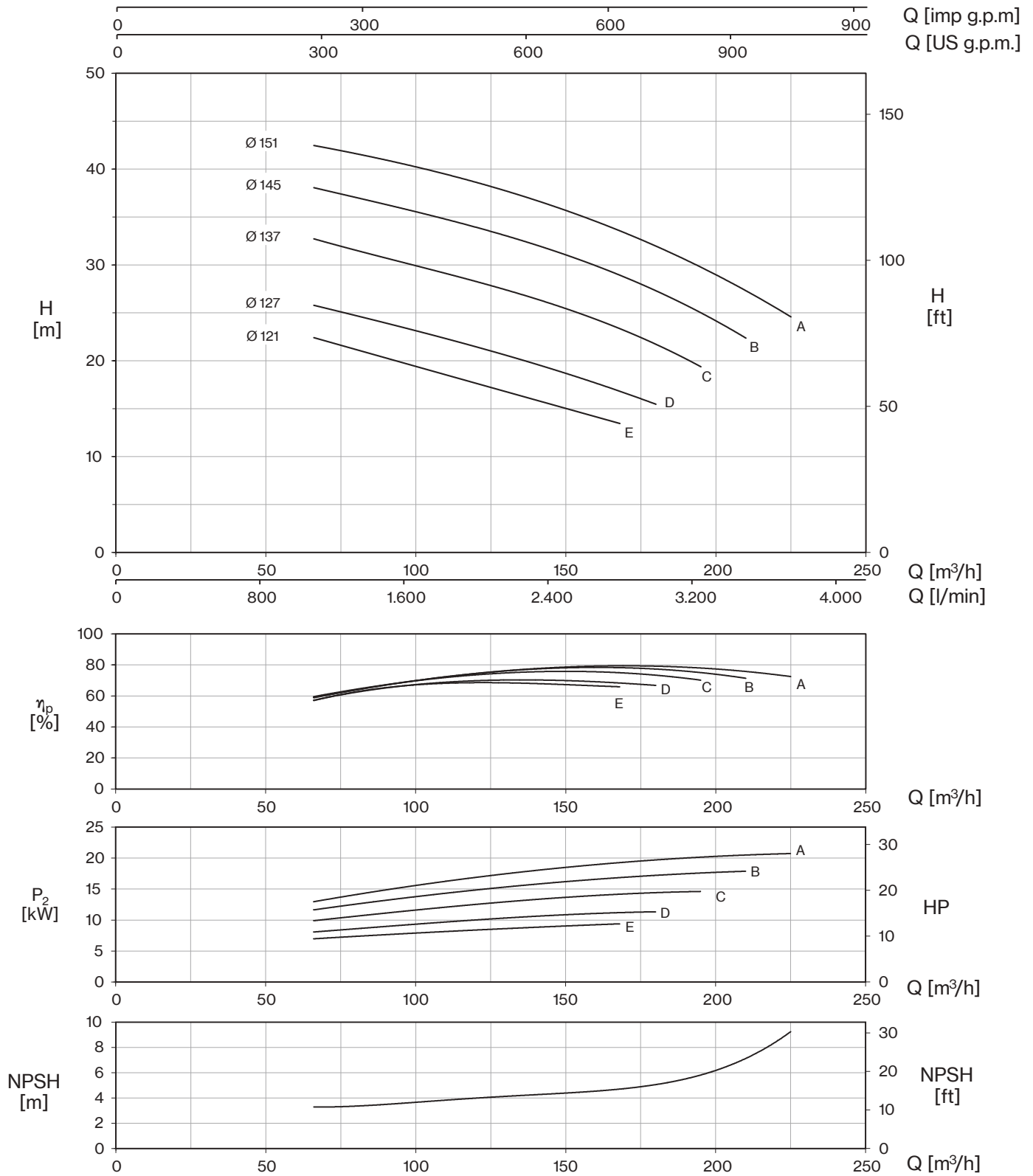
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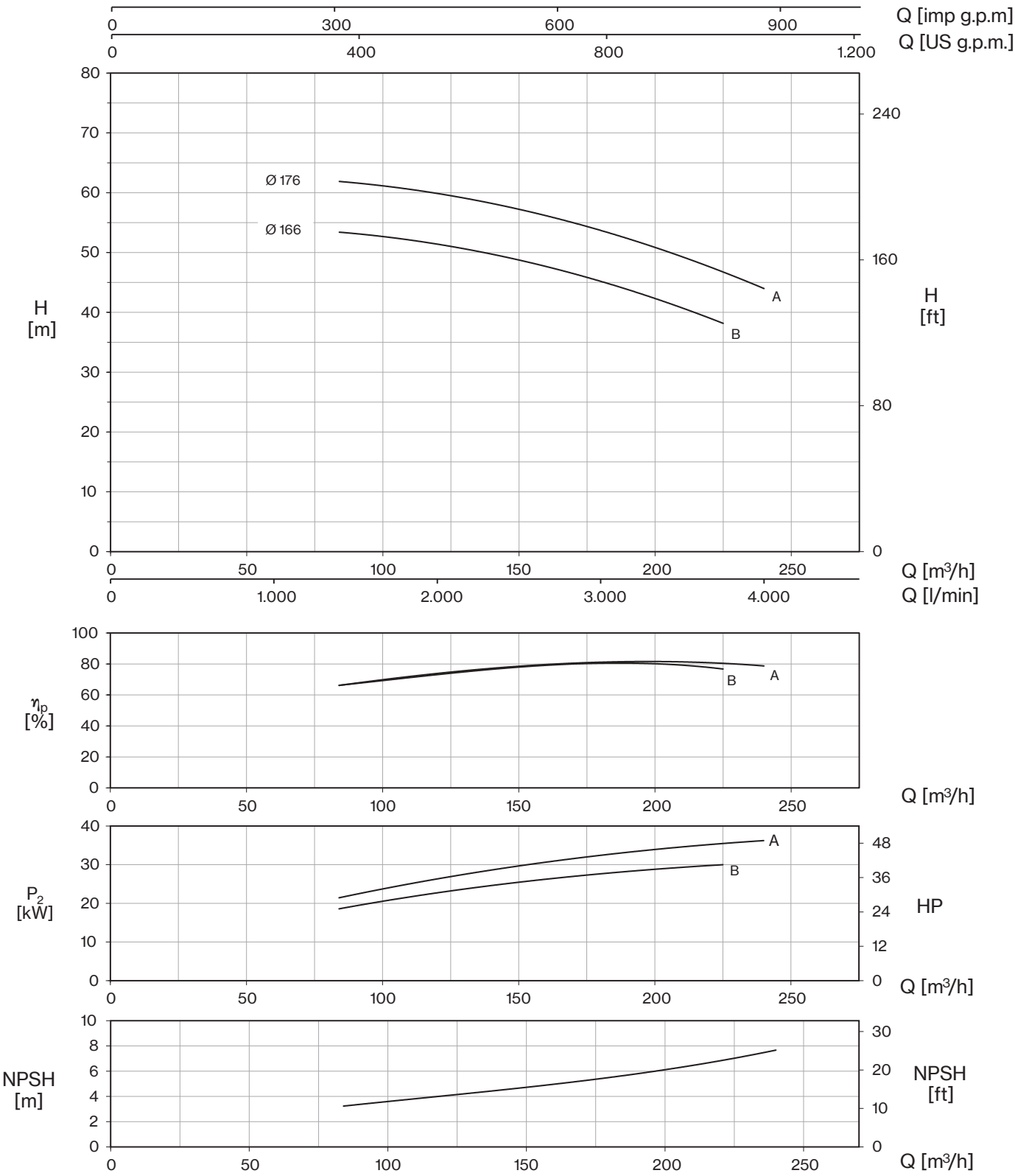
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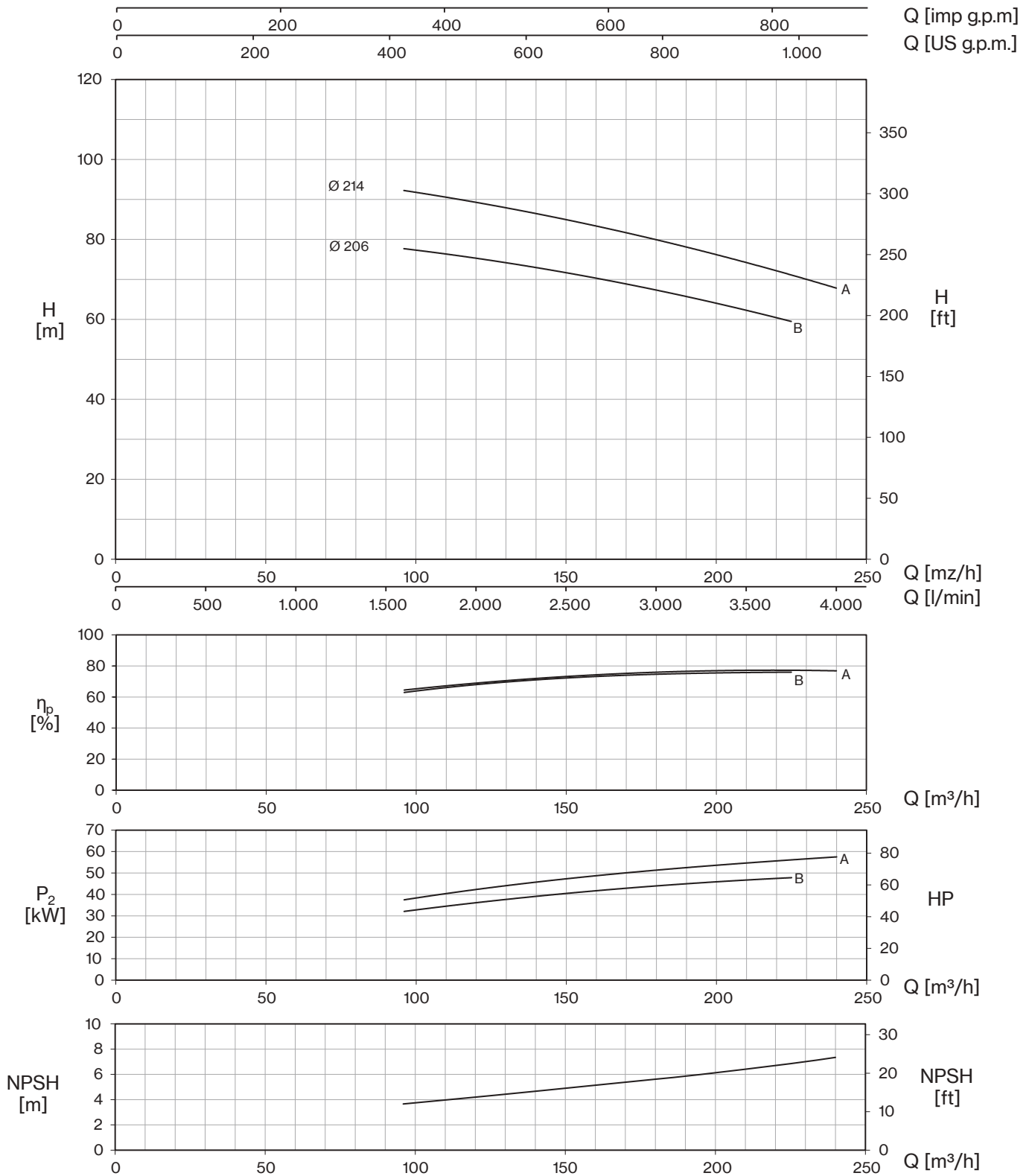
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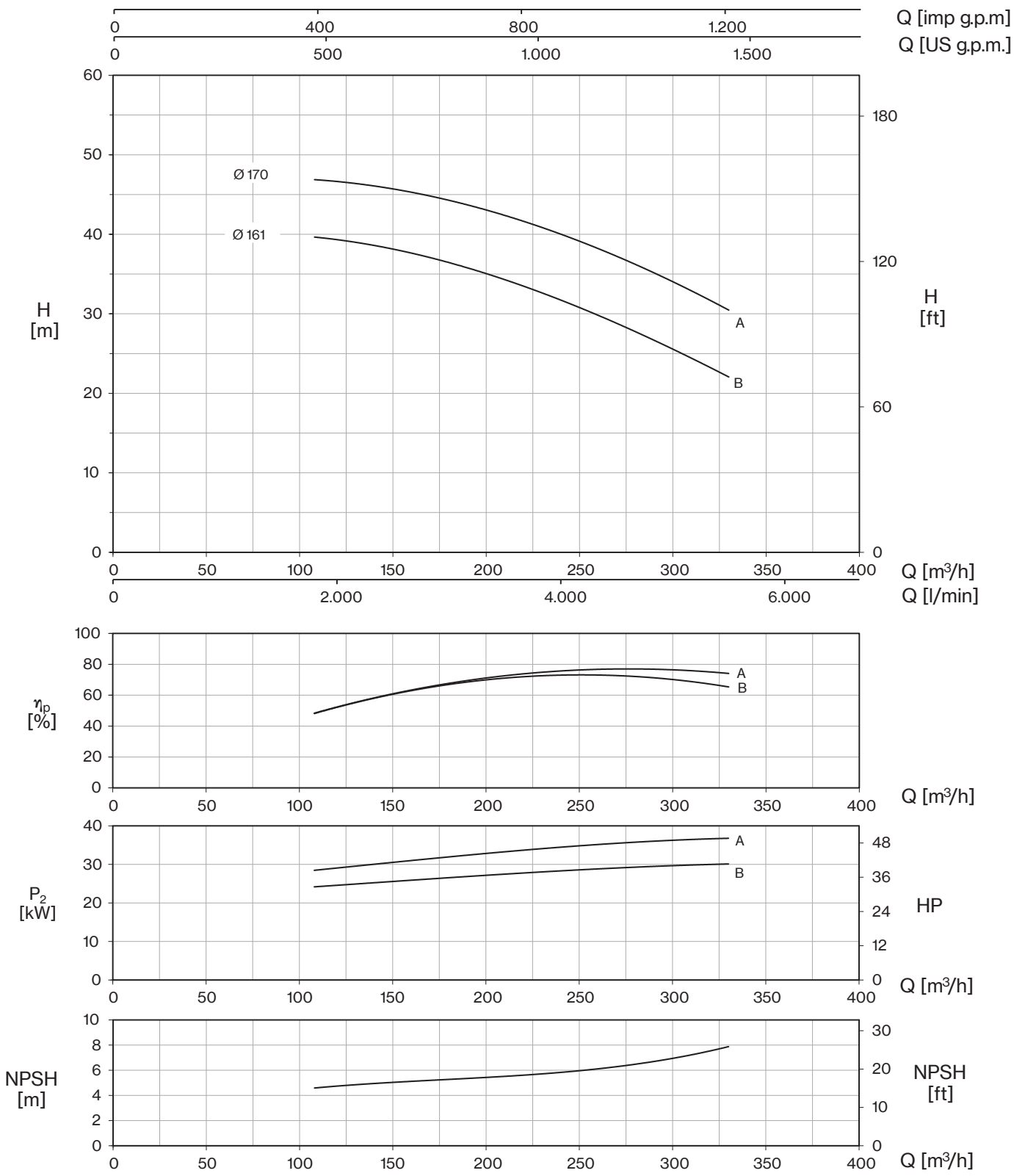
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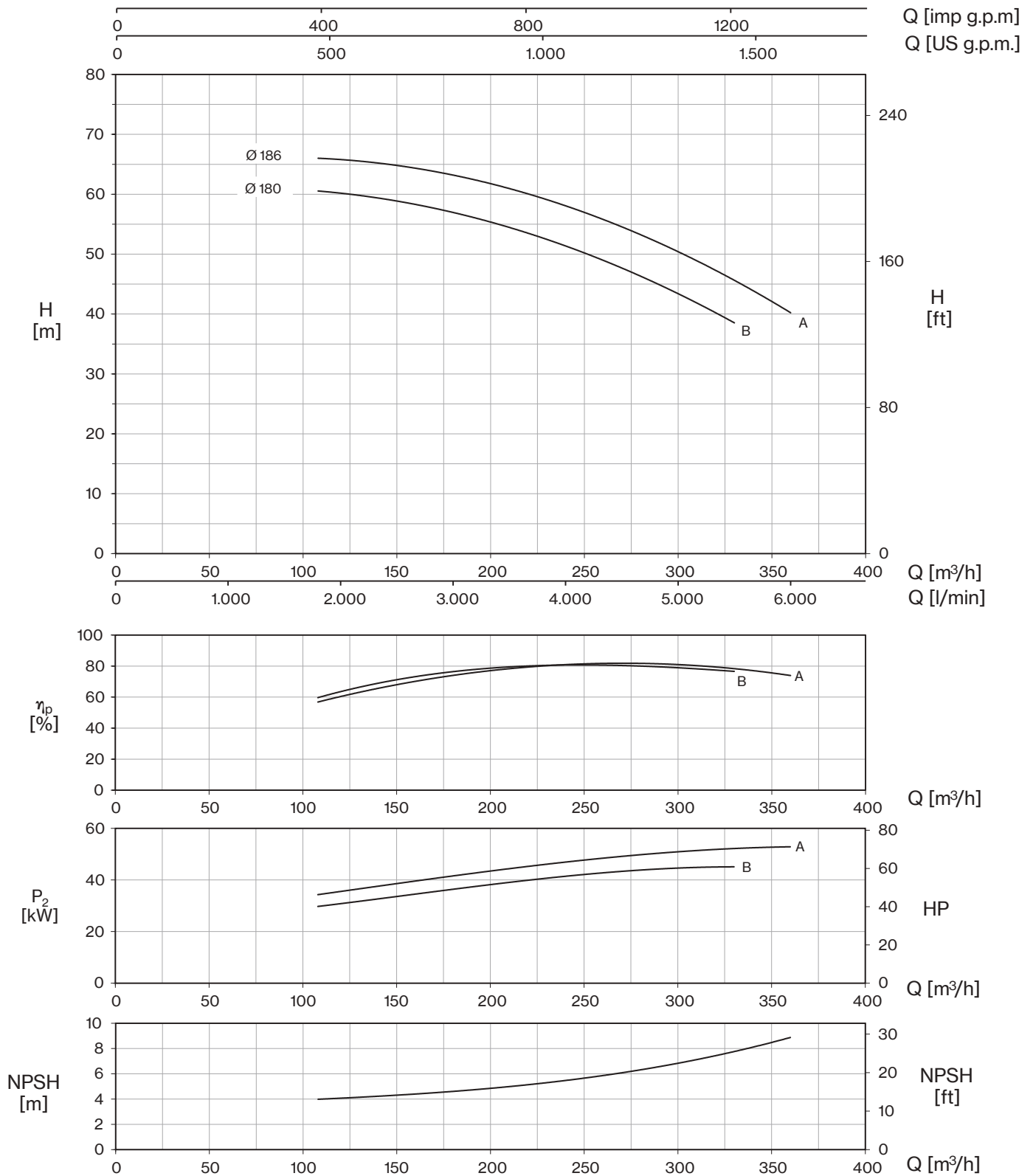
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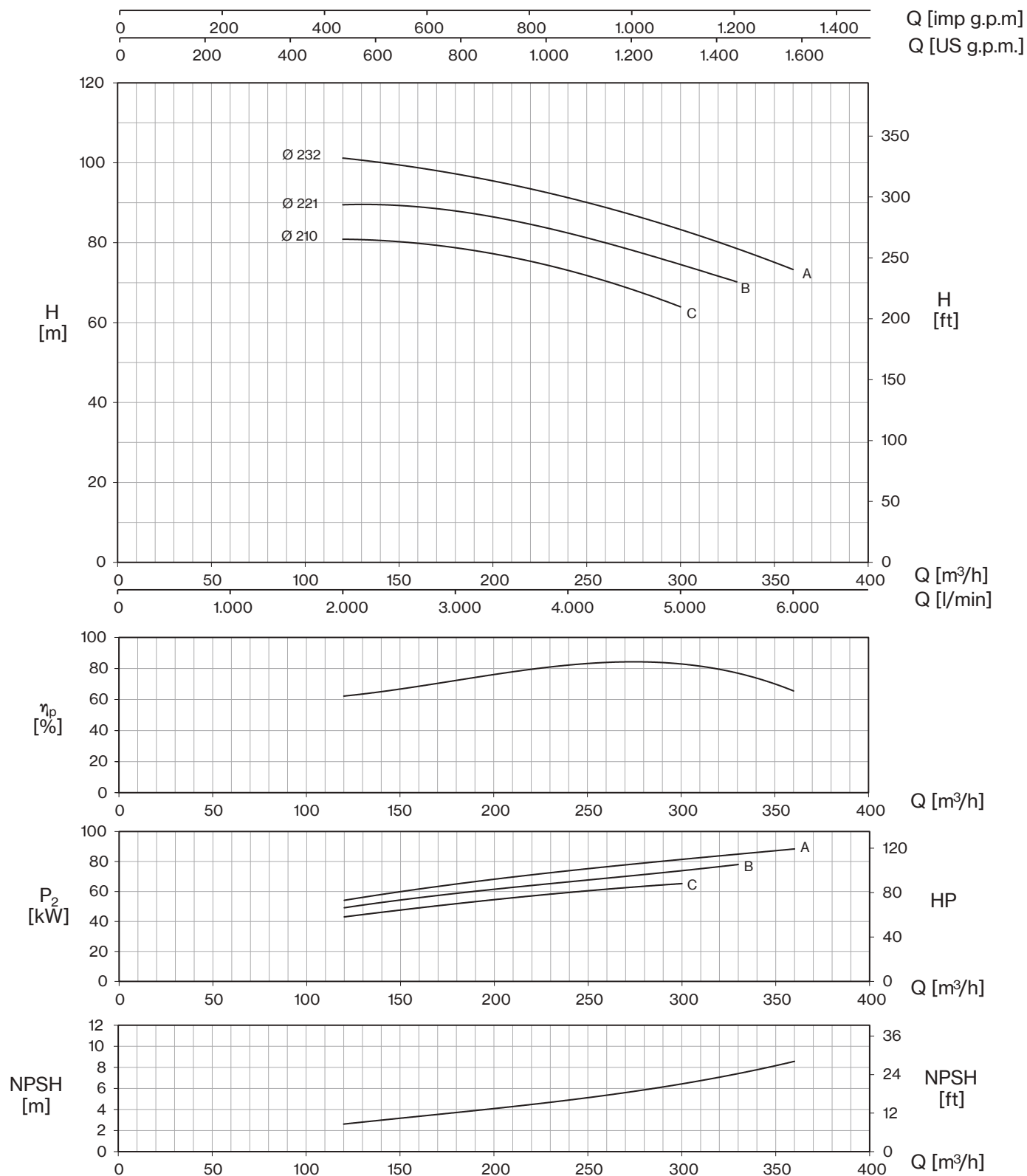
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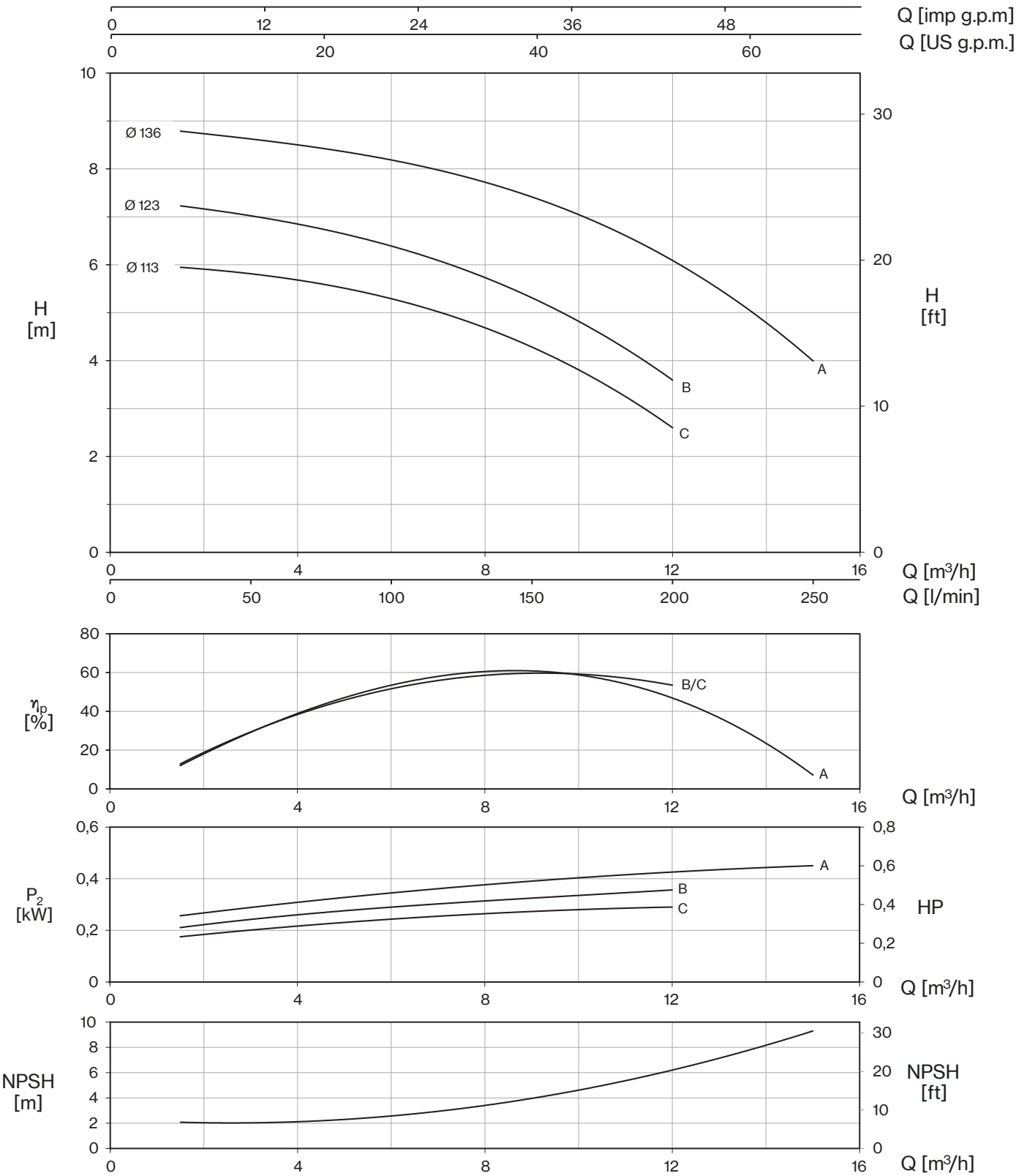
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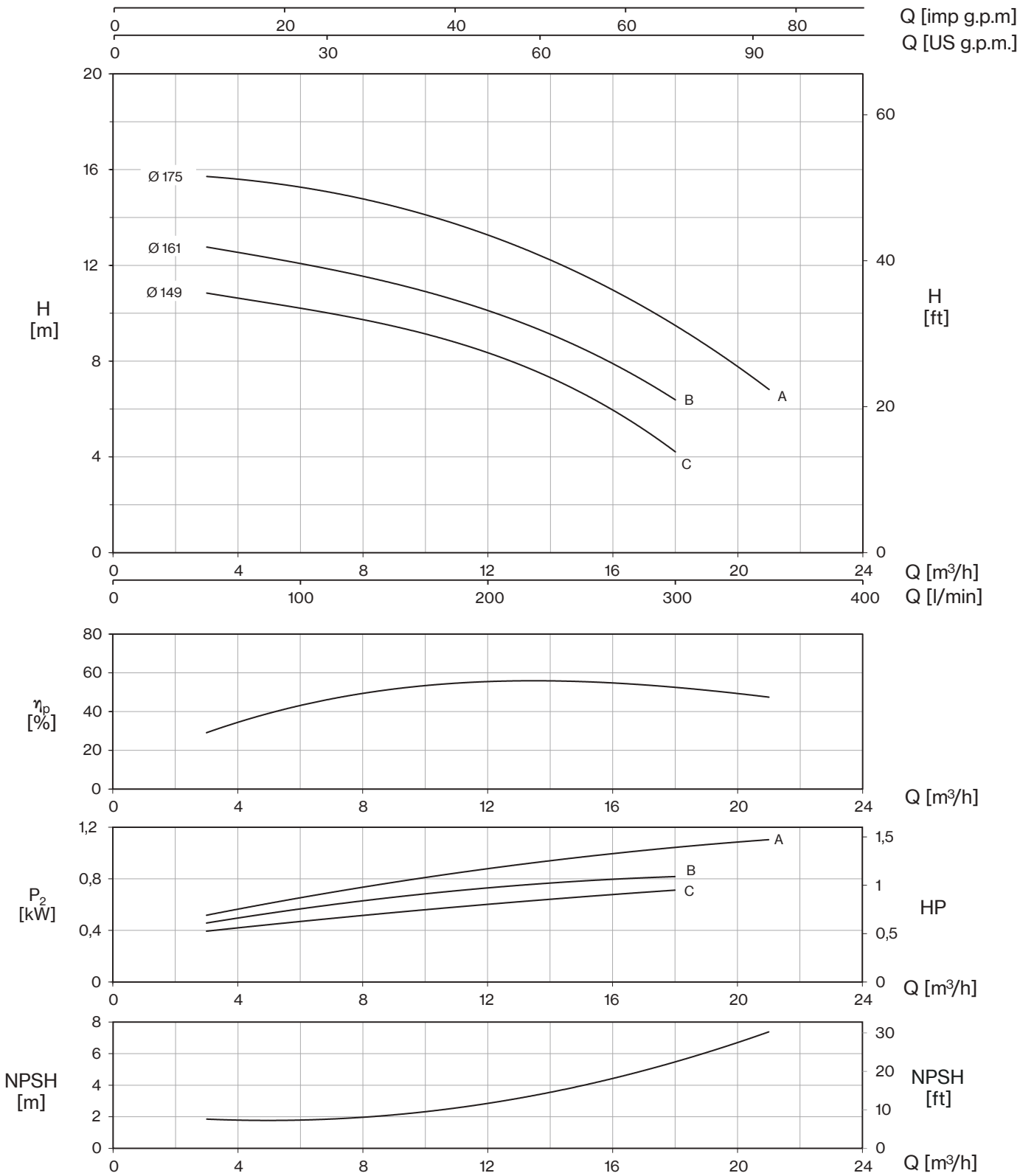
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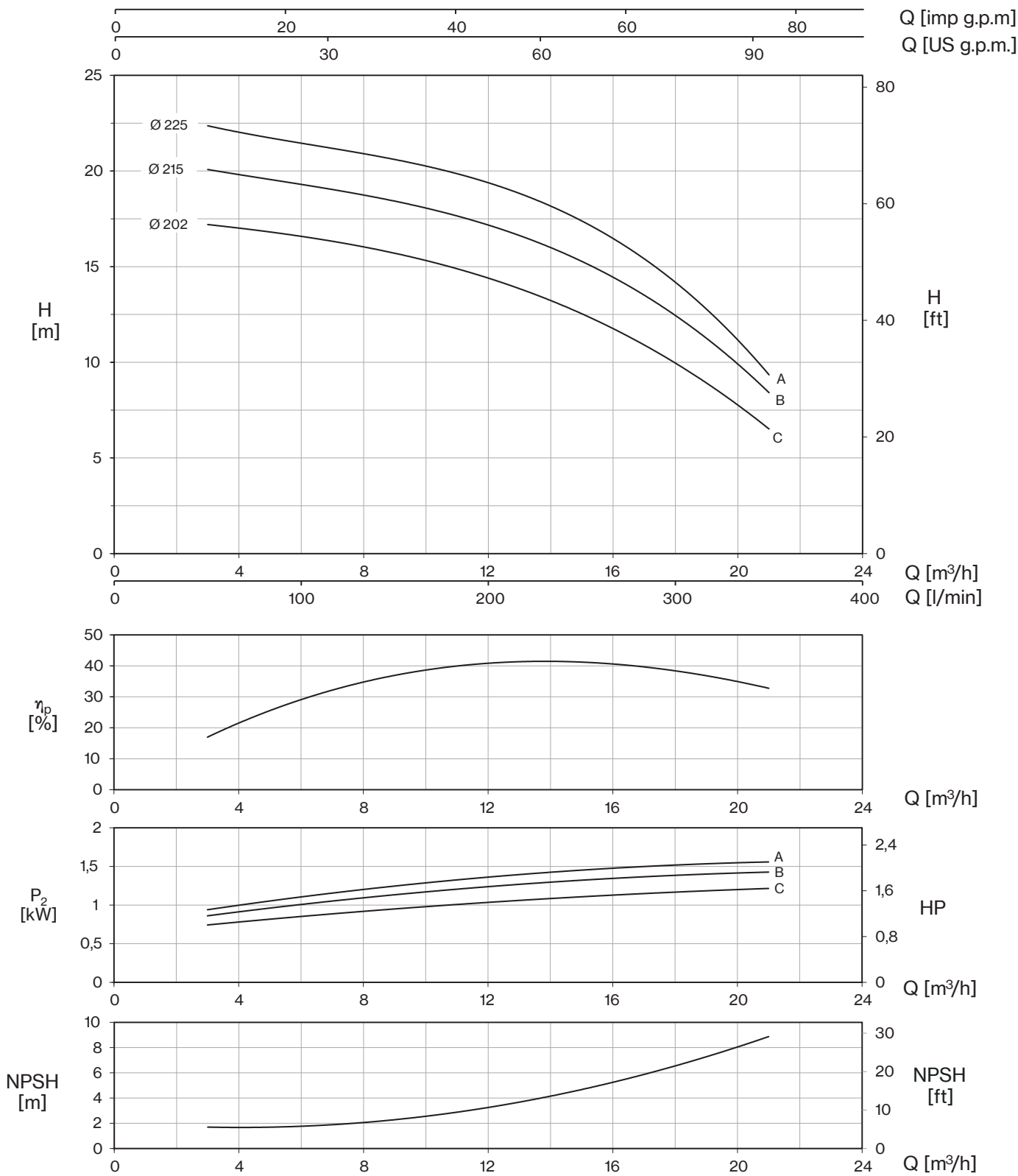
32-160



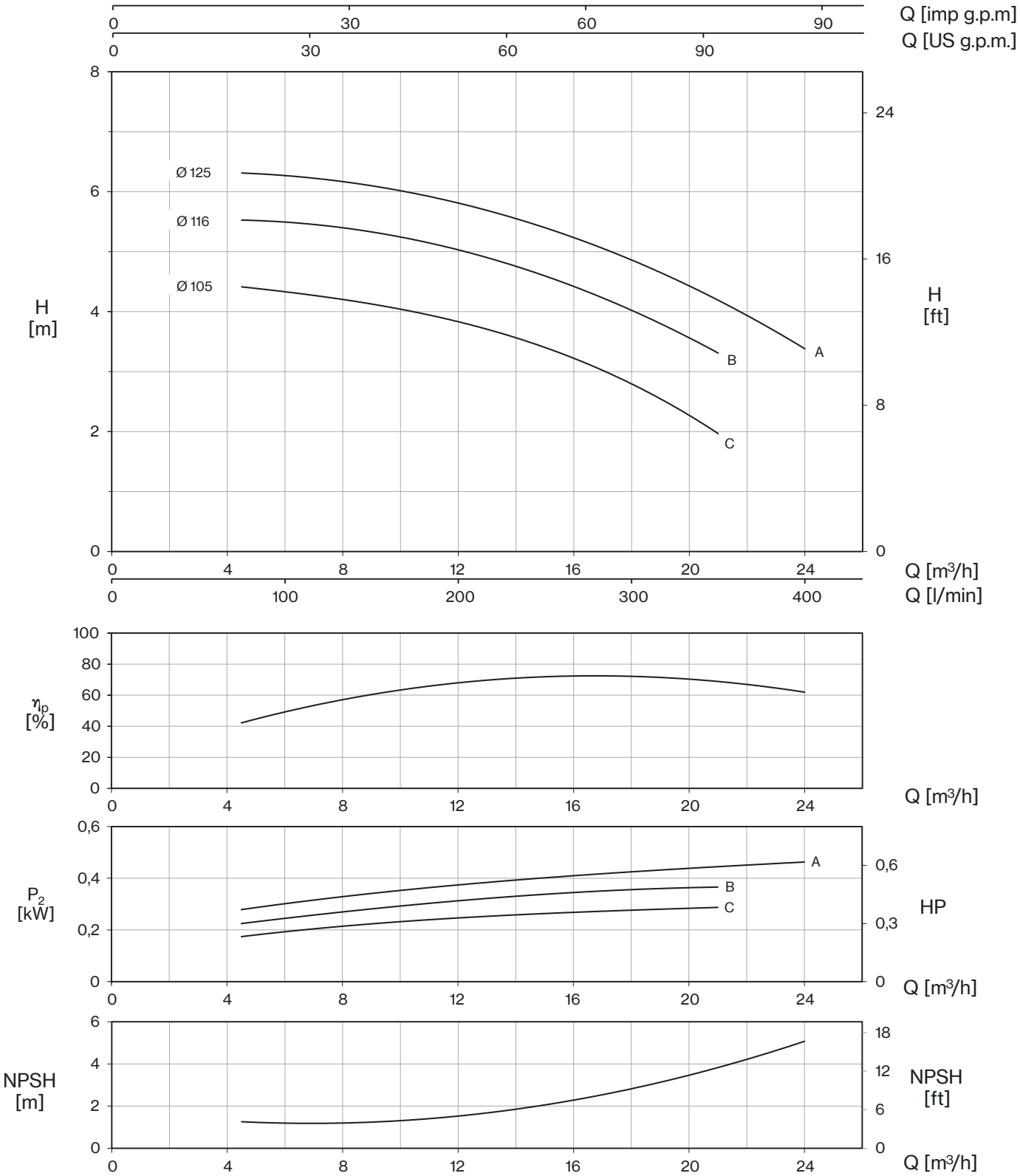
32-200



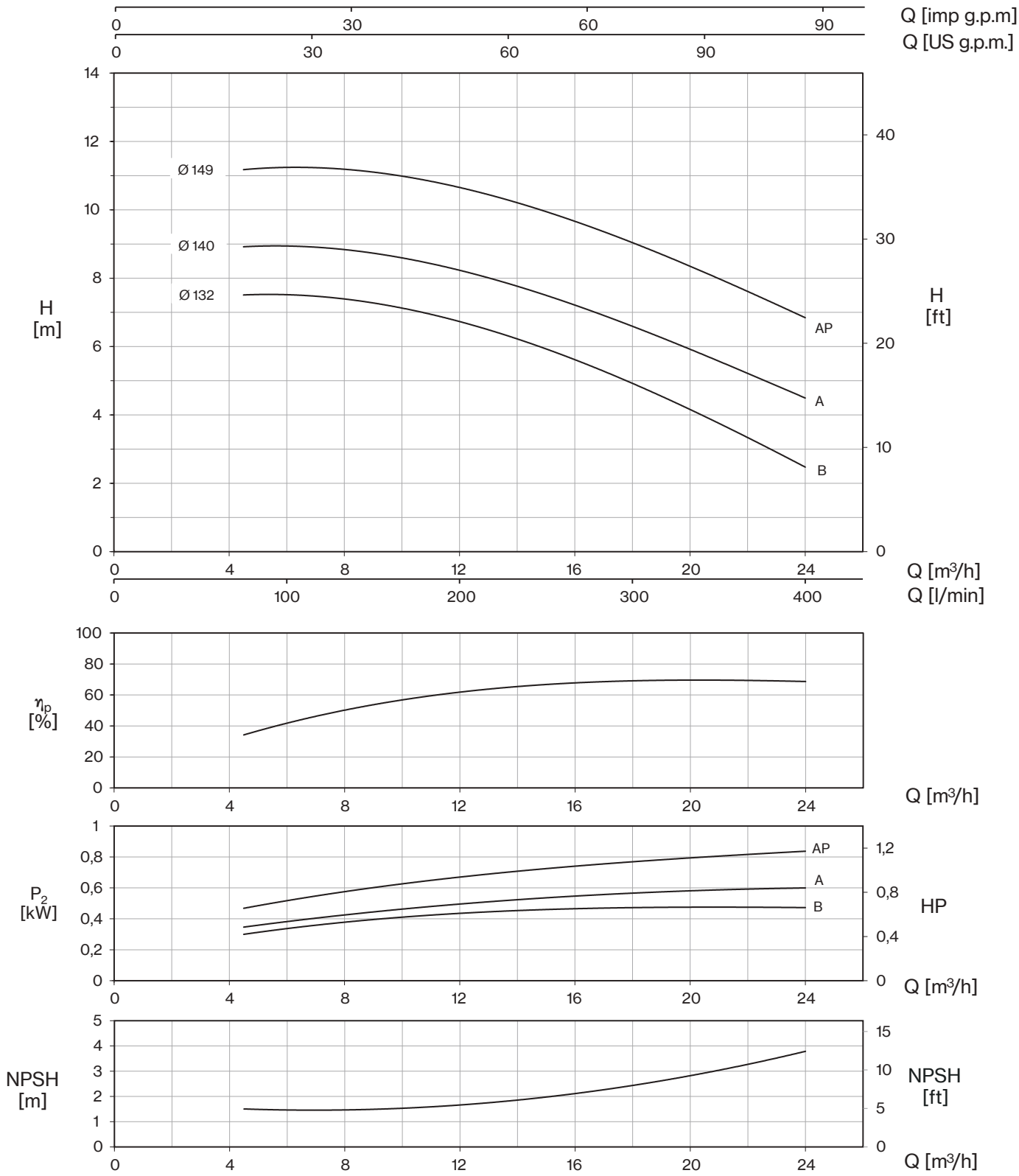
32-250



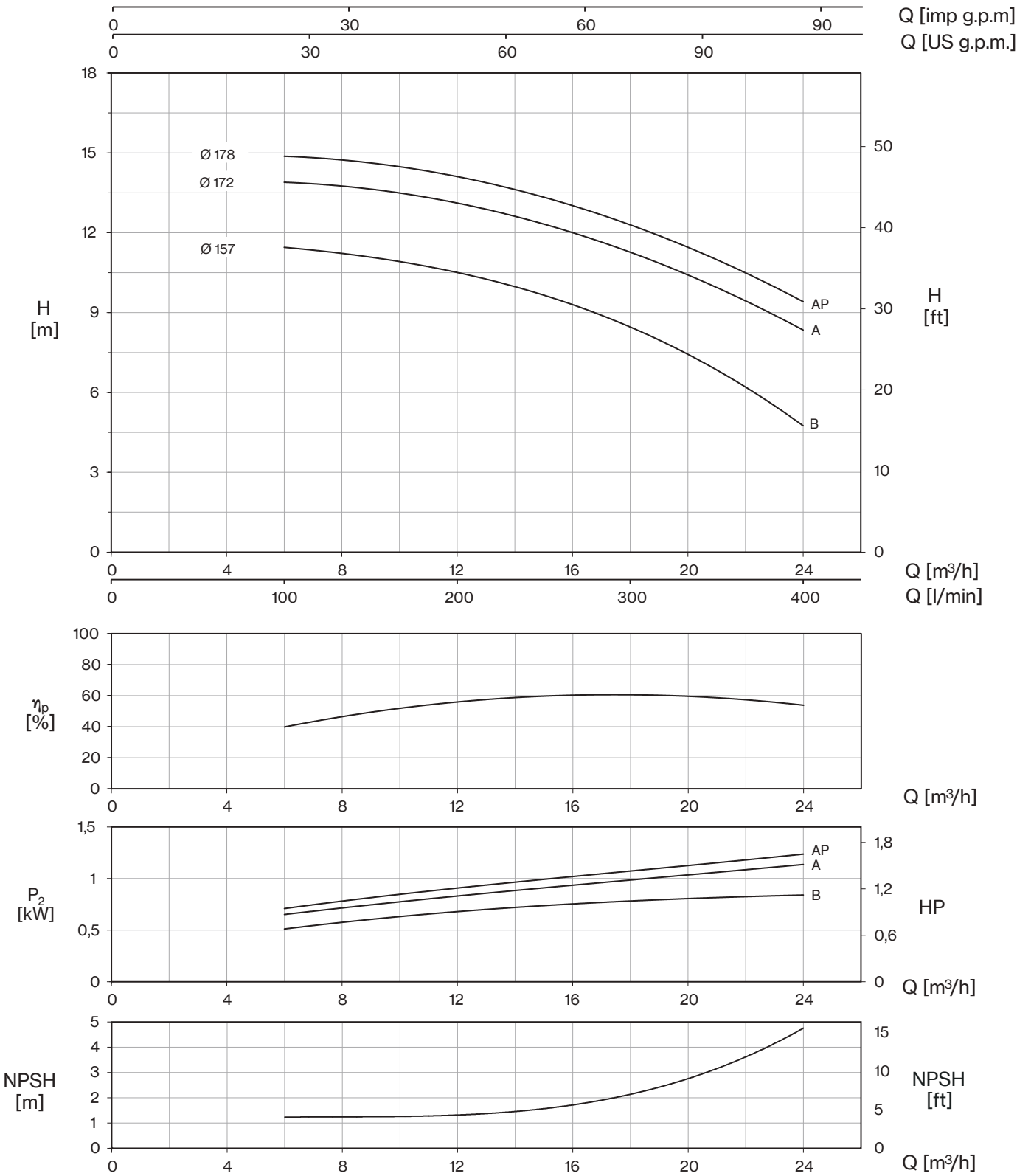
40-125



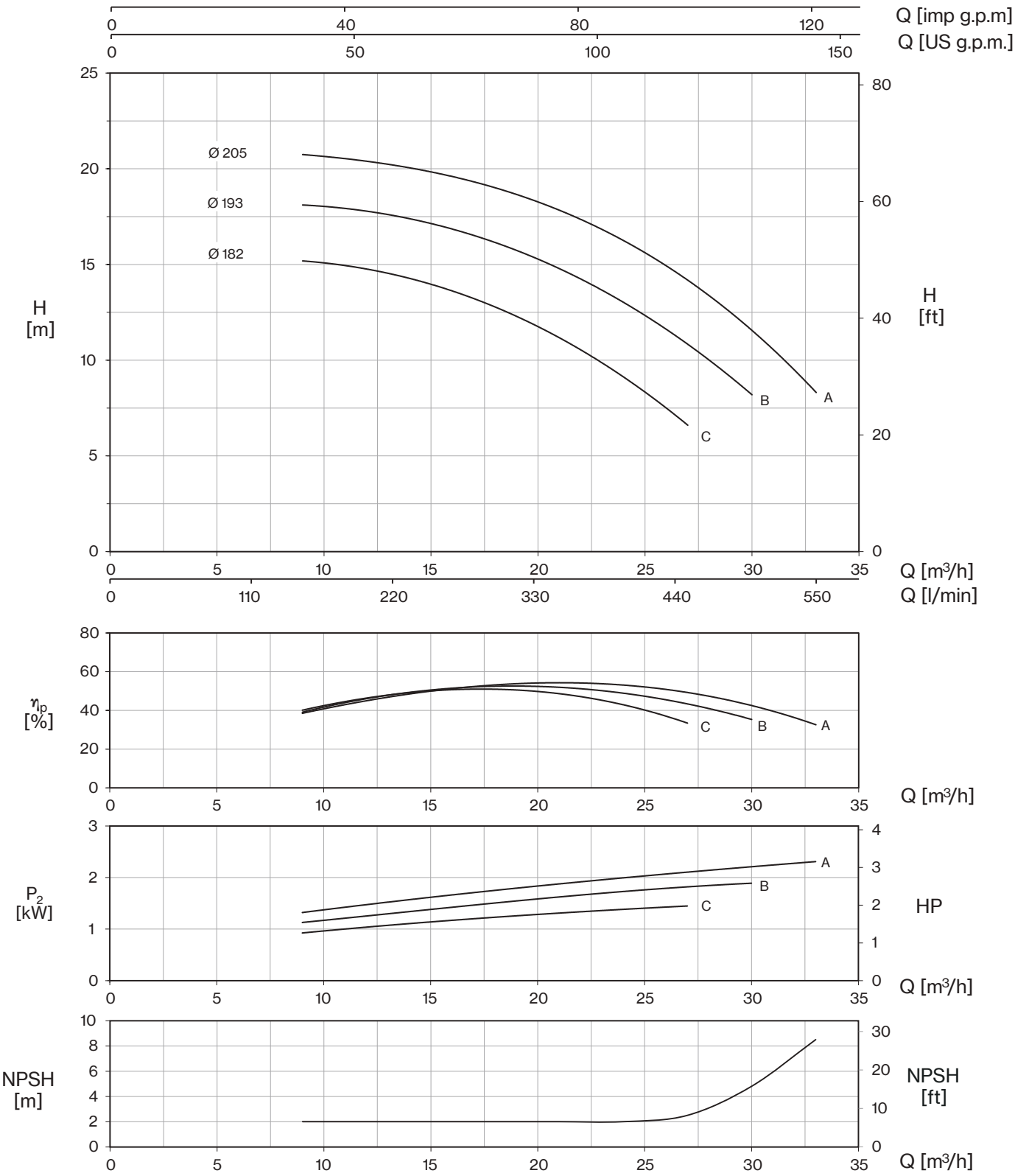
40-160



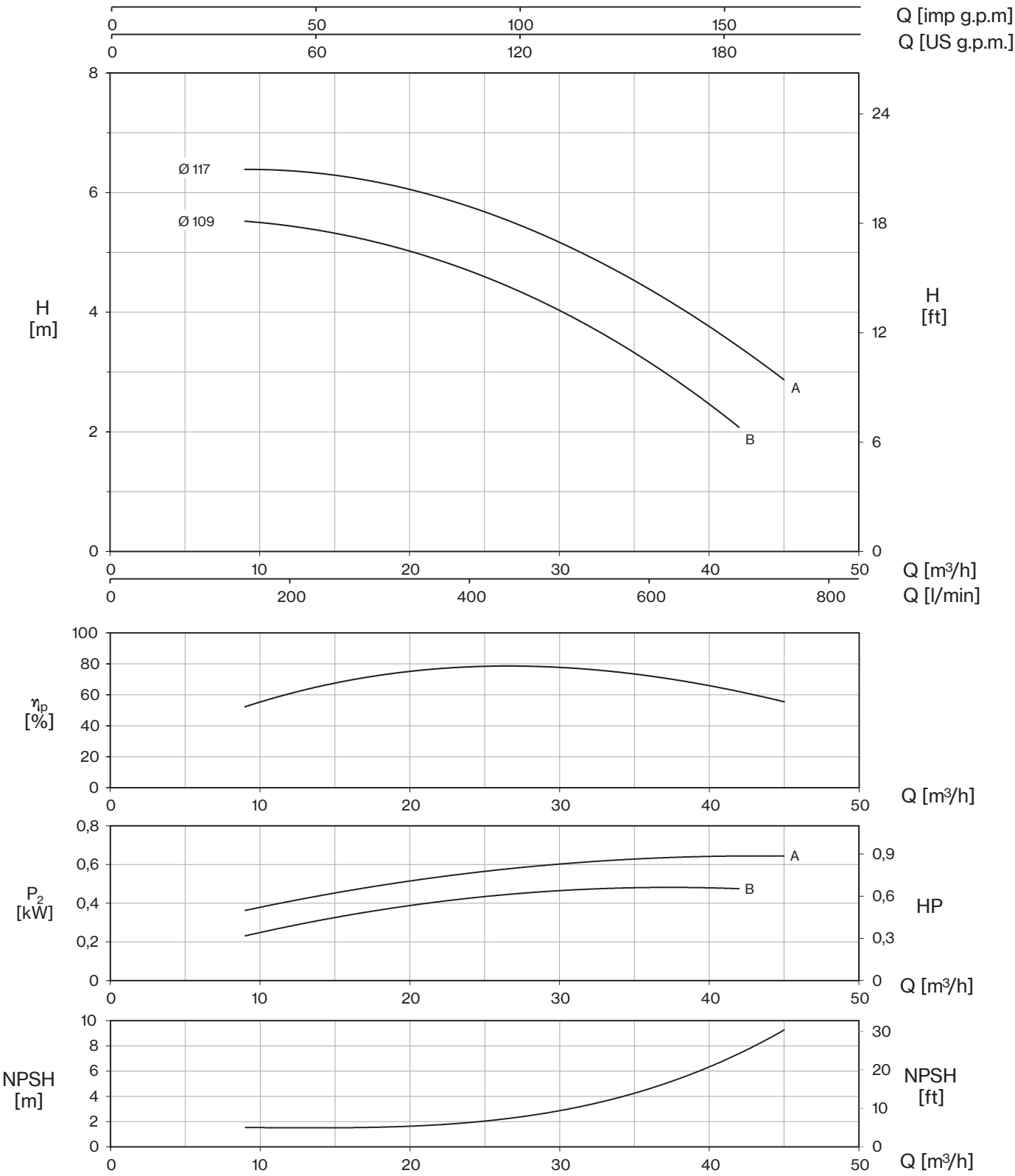
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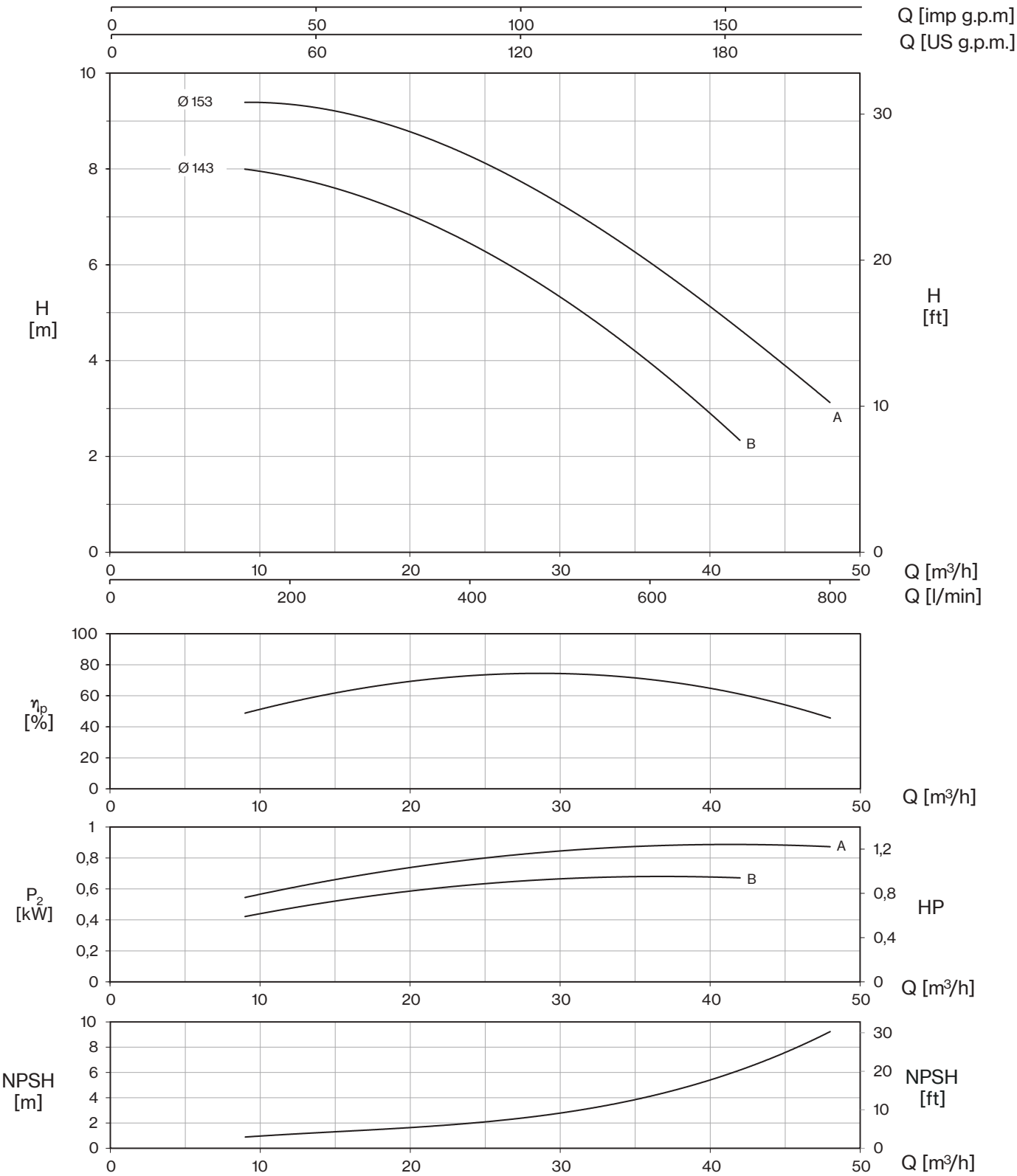
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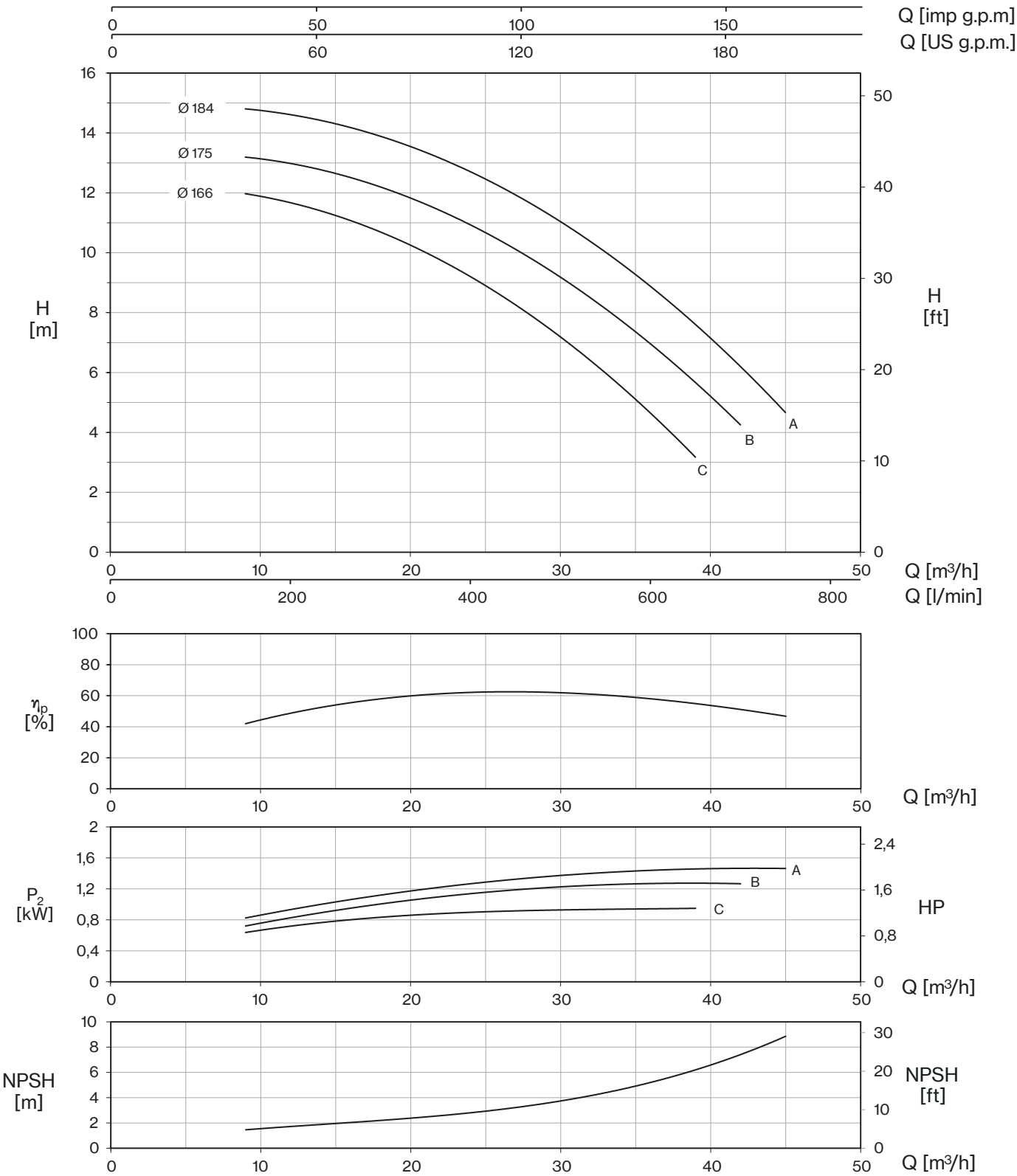
50-125



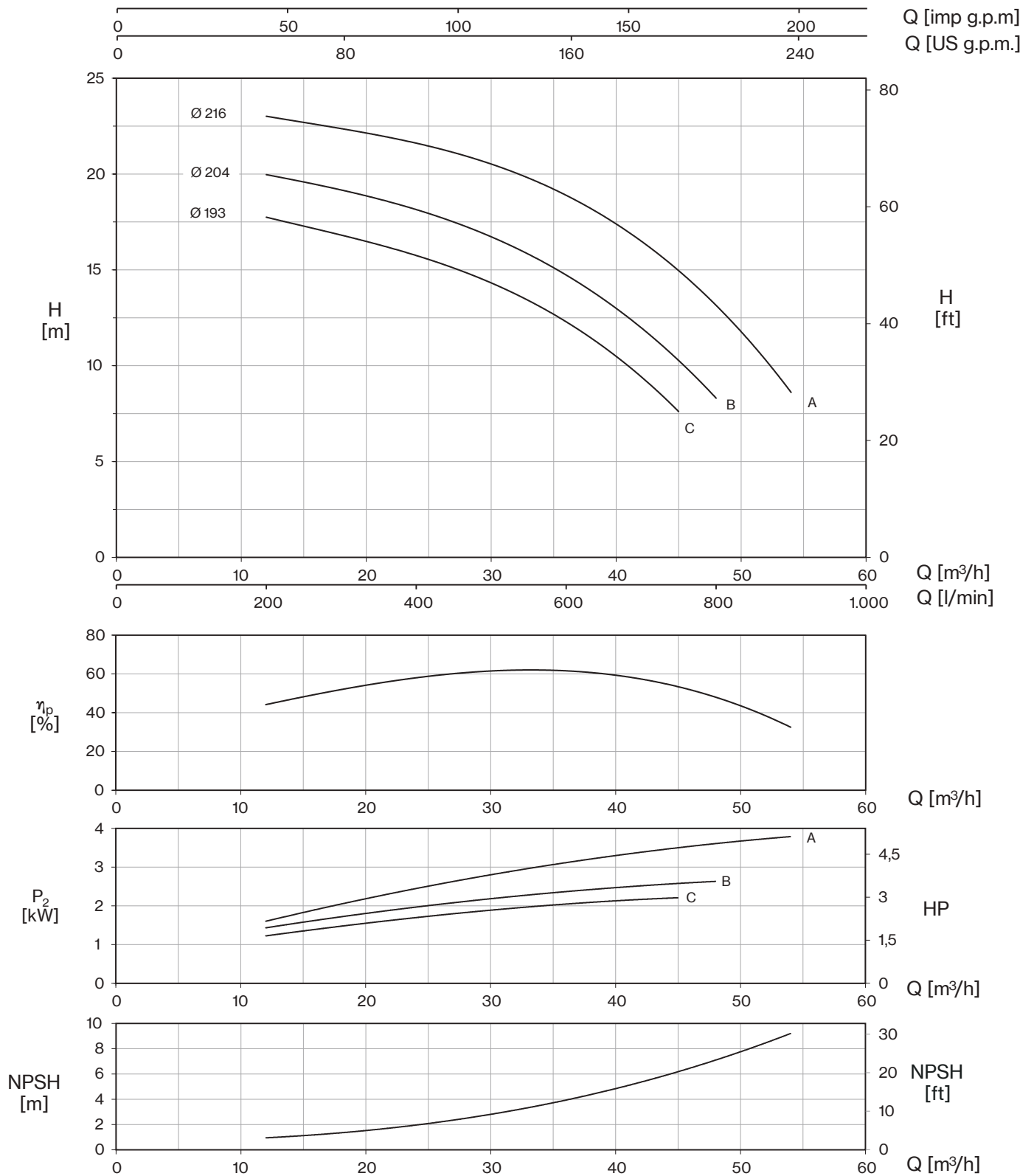
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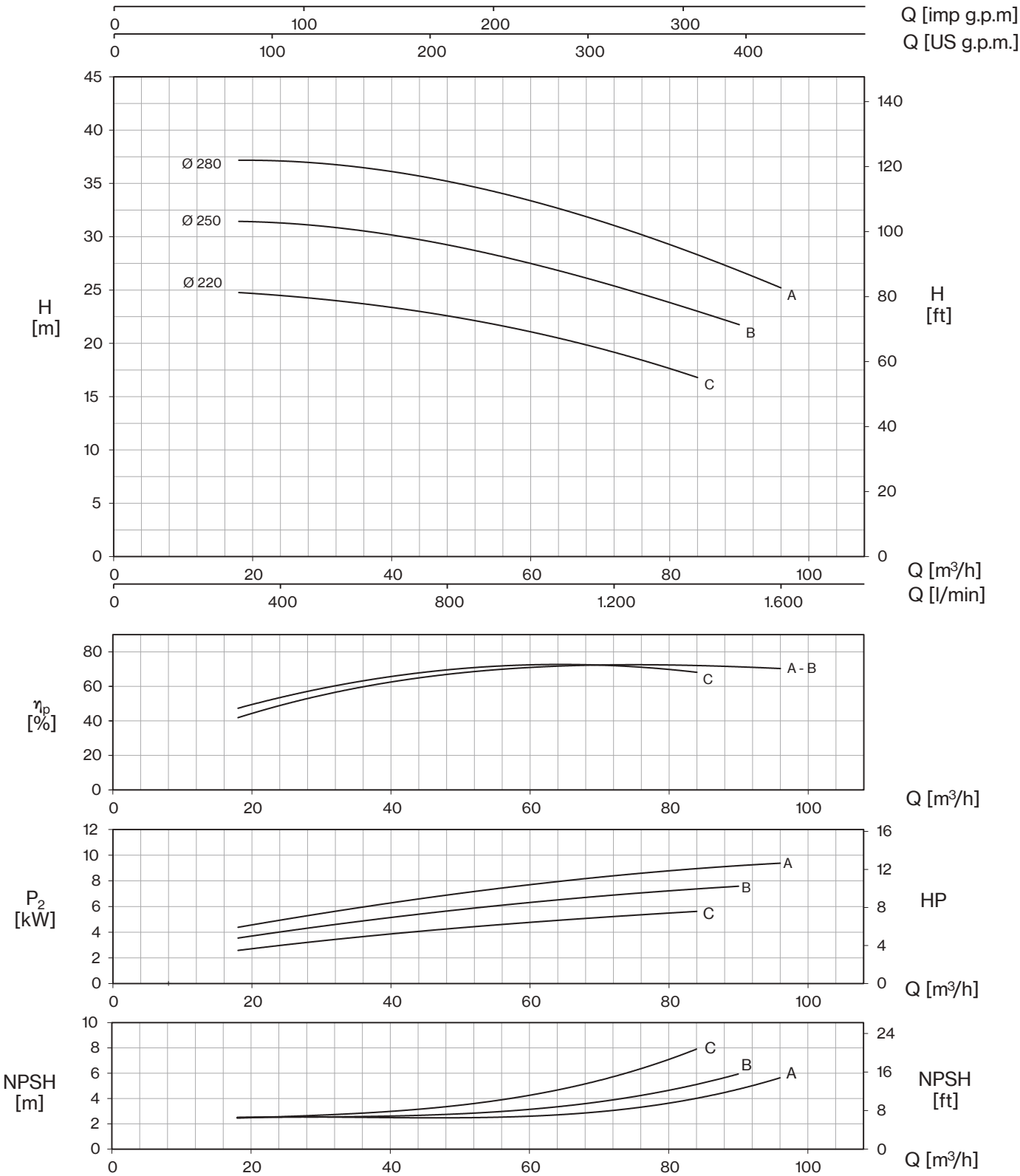
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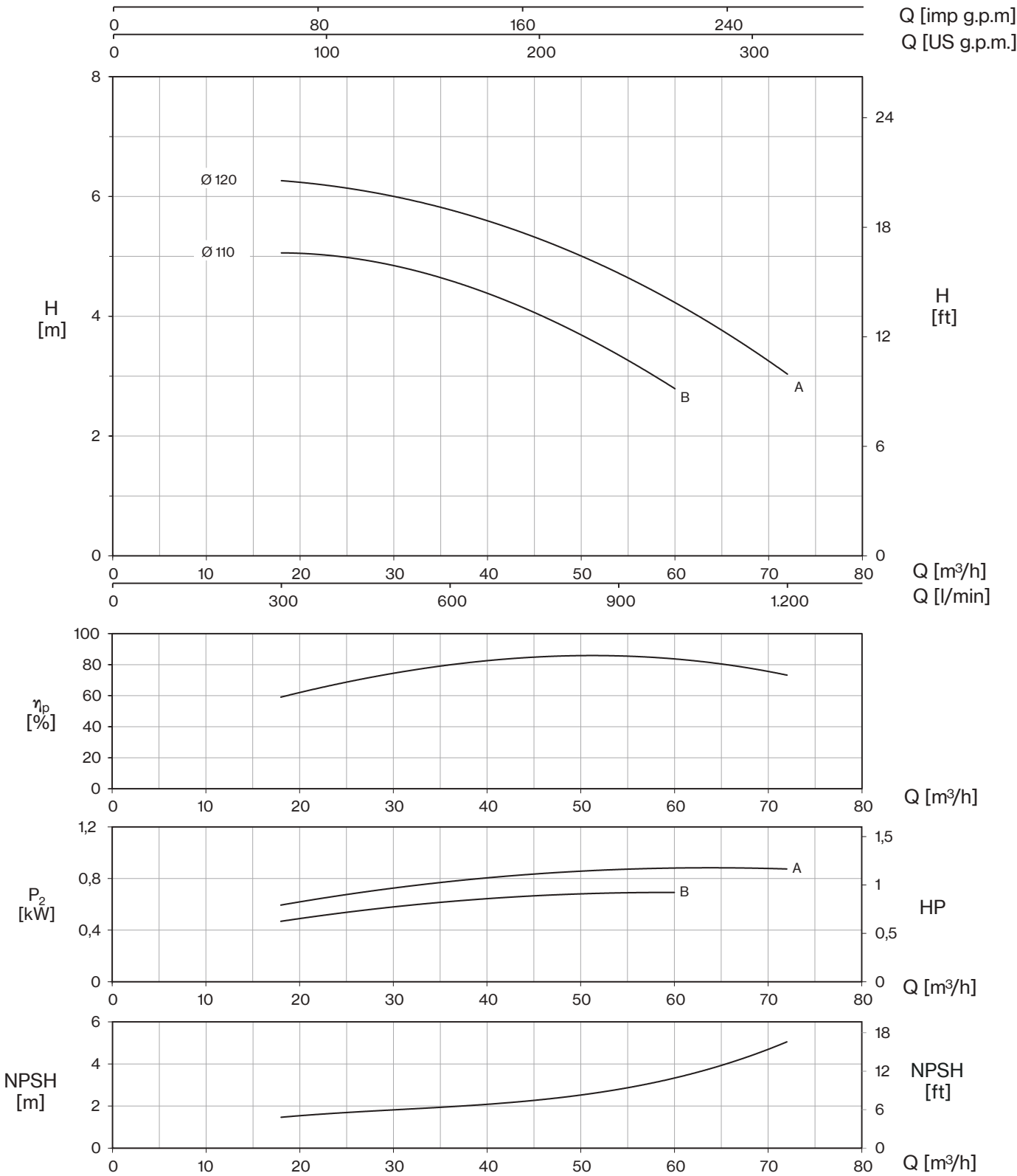
50-250



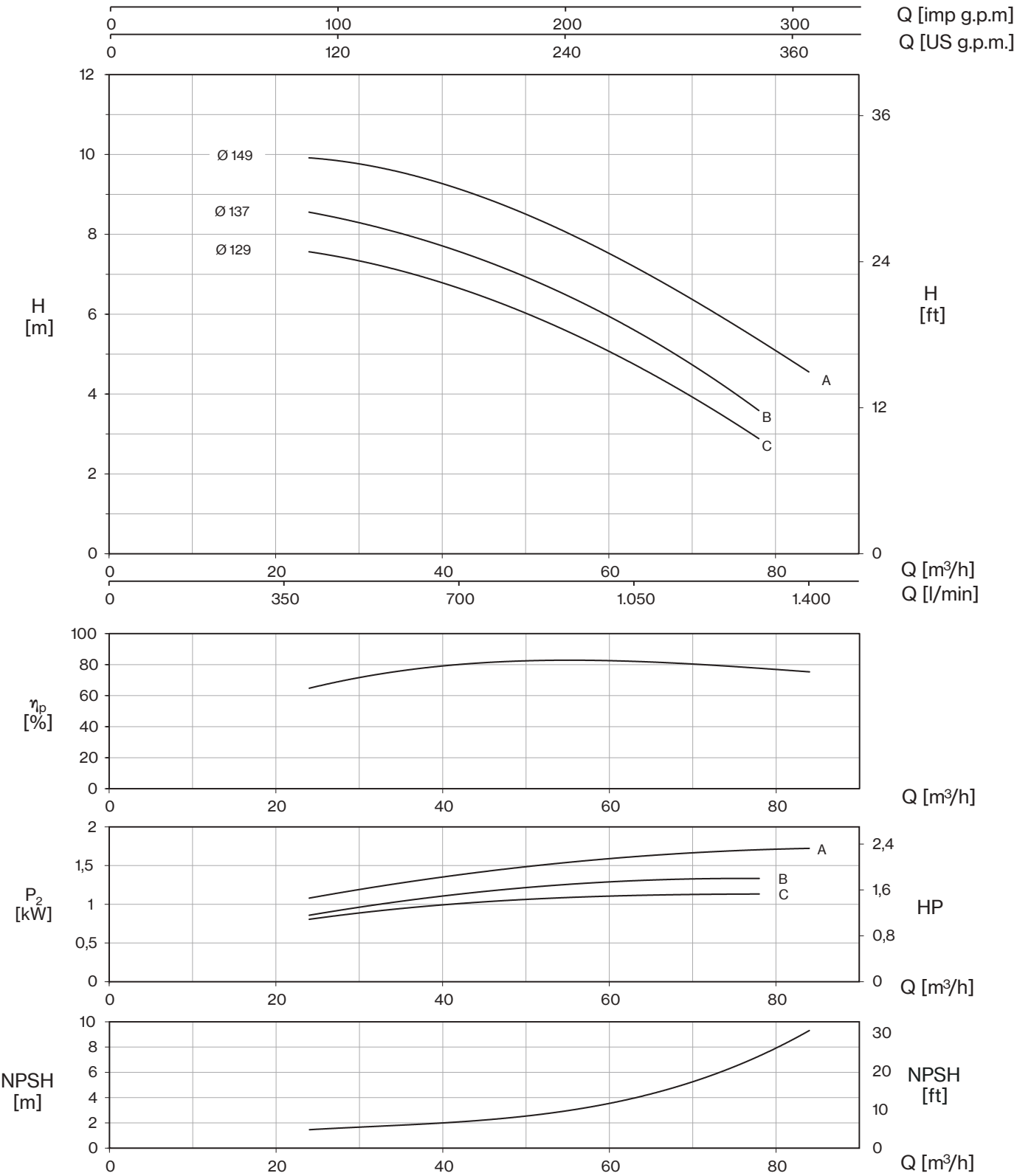
50-315



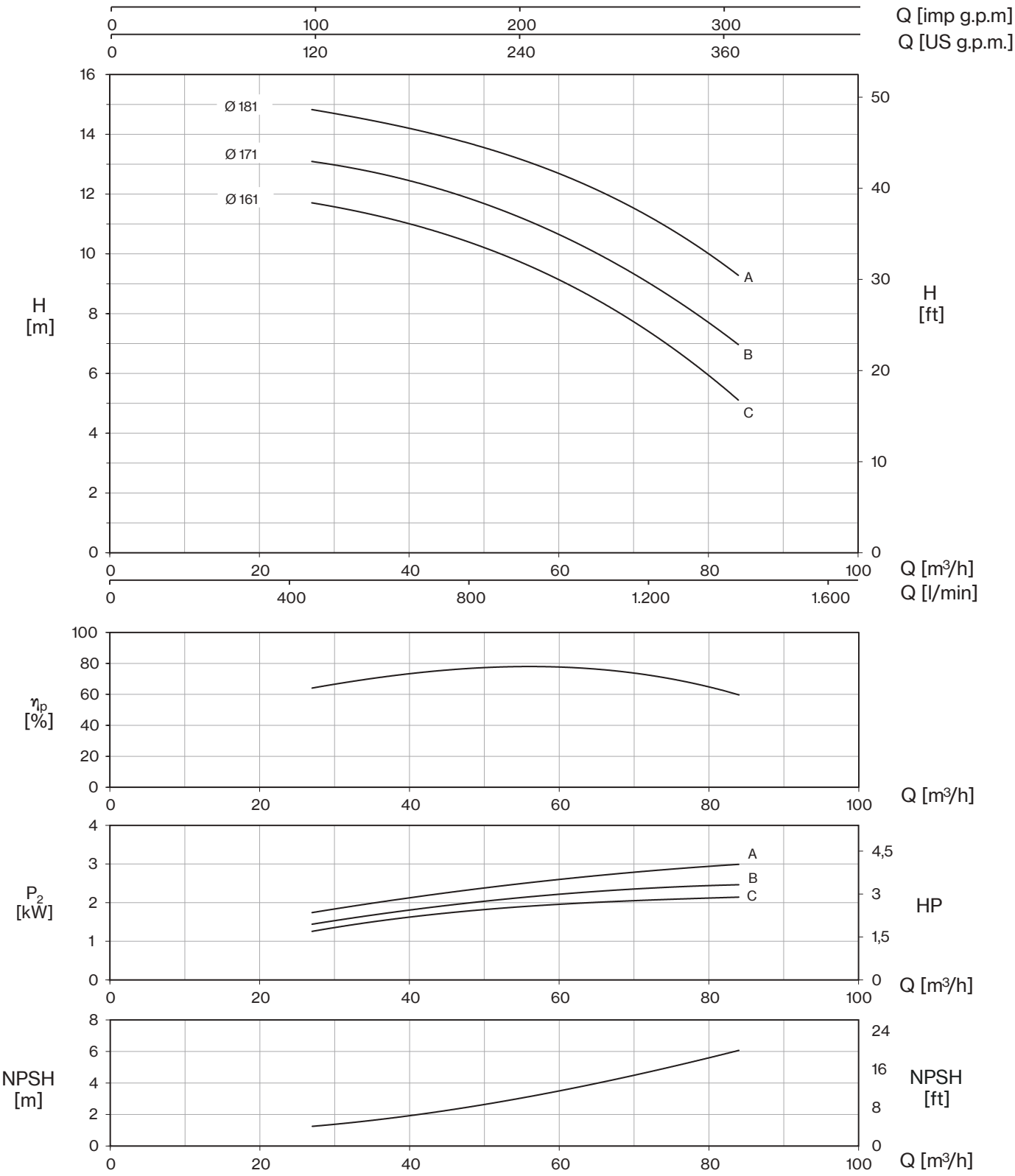
65-125



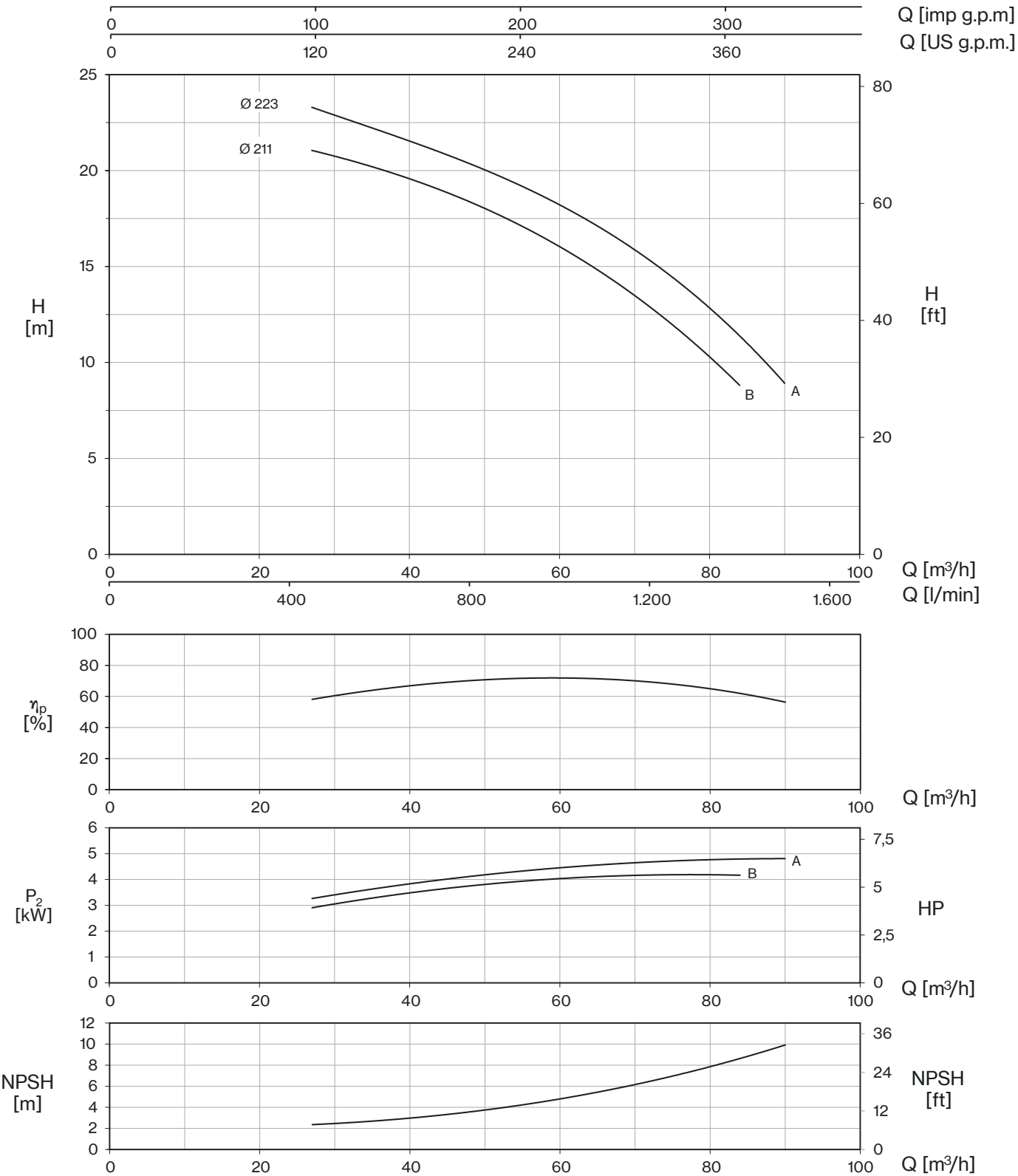
65-160



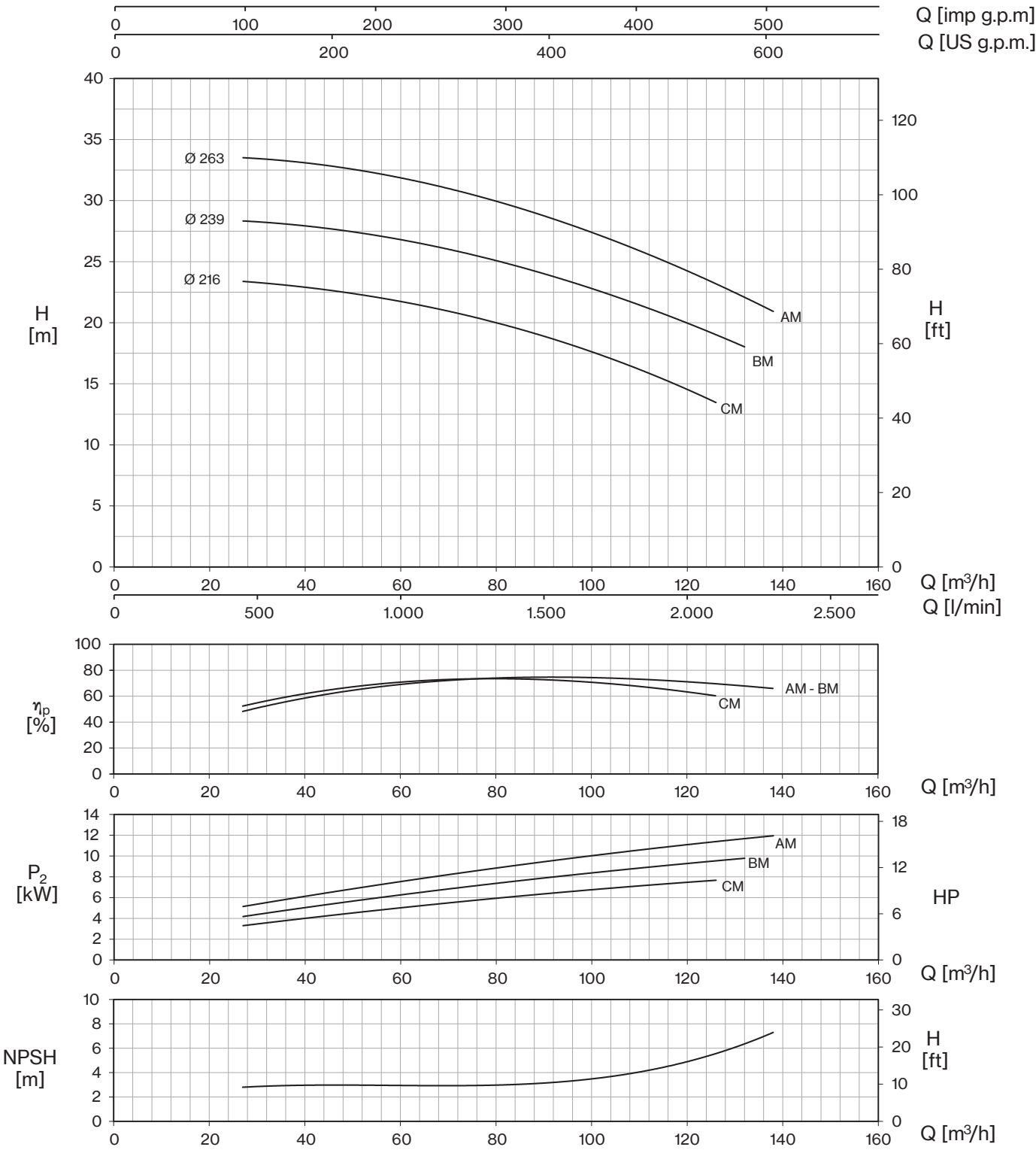
65-200



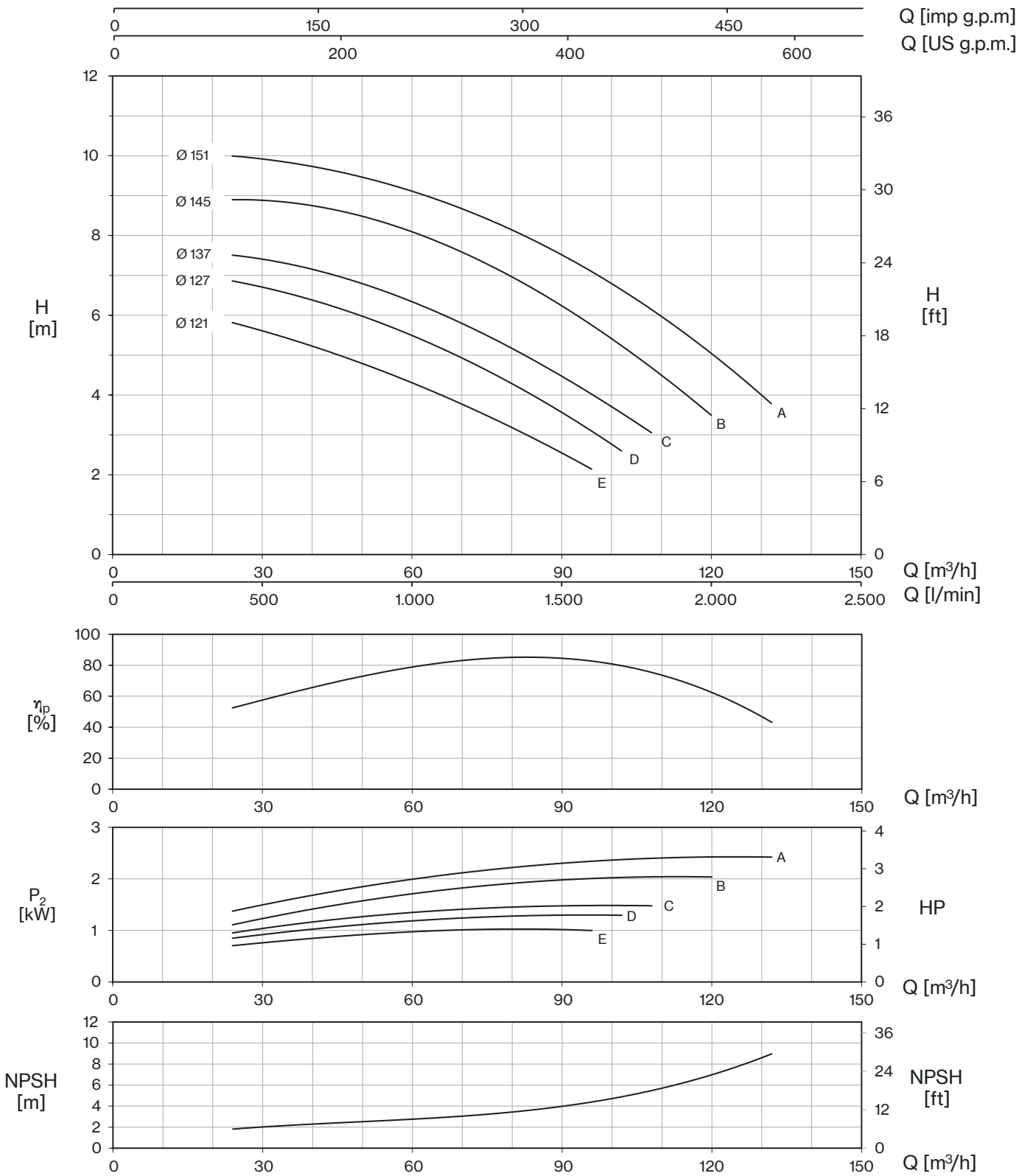
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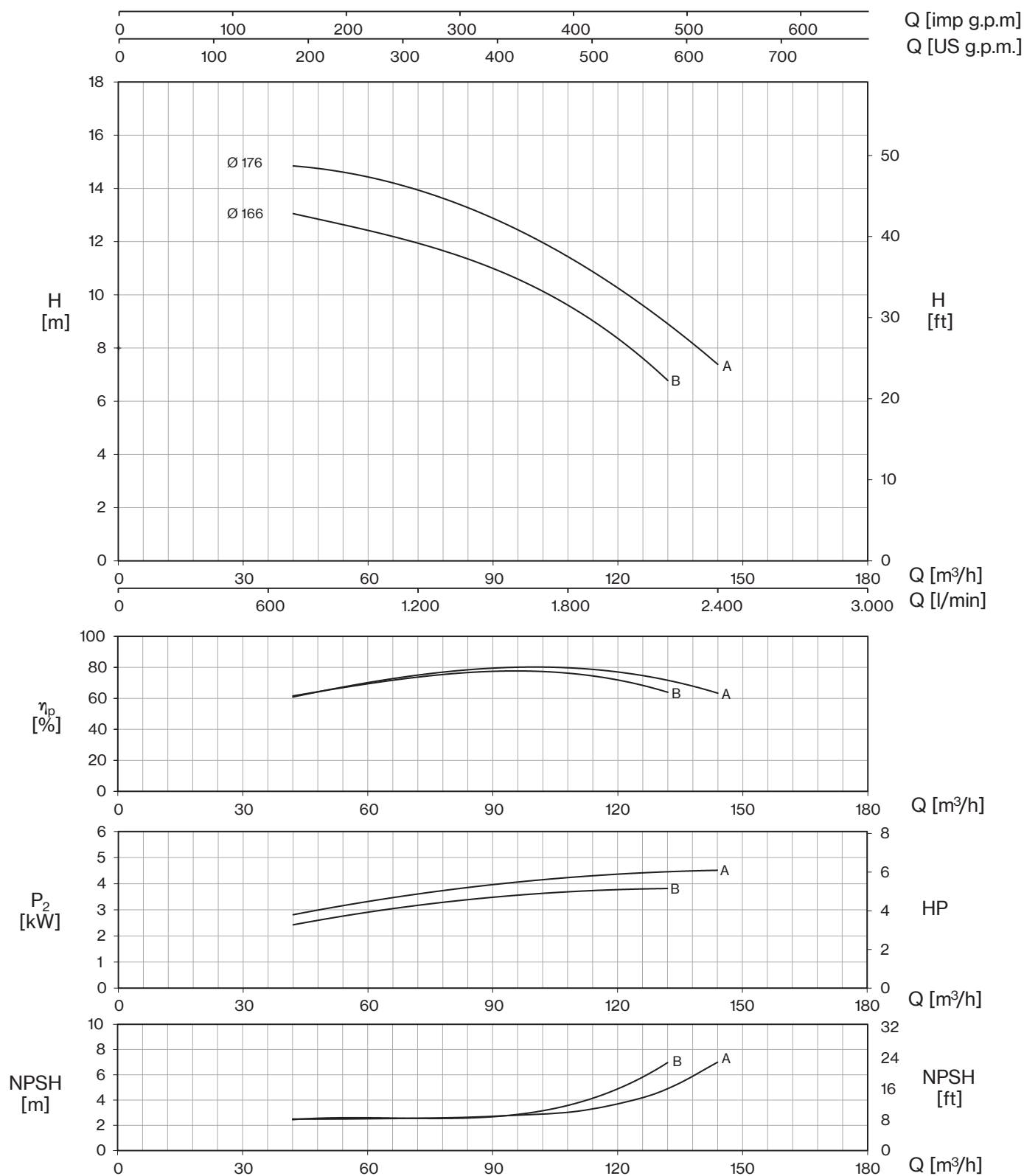
65-315



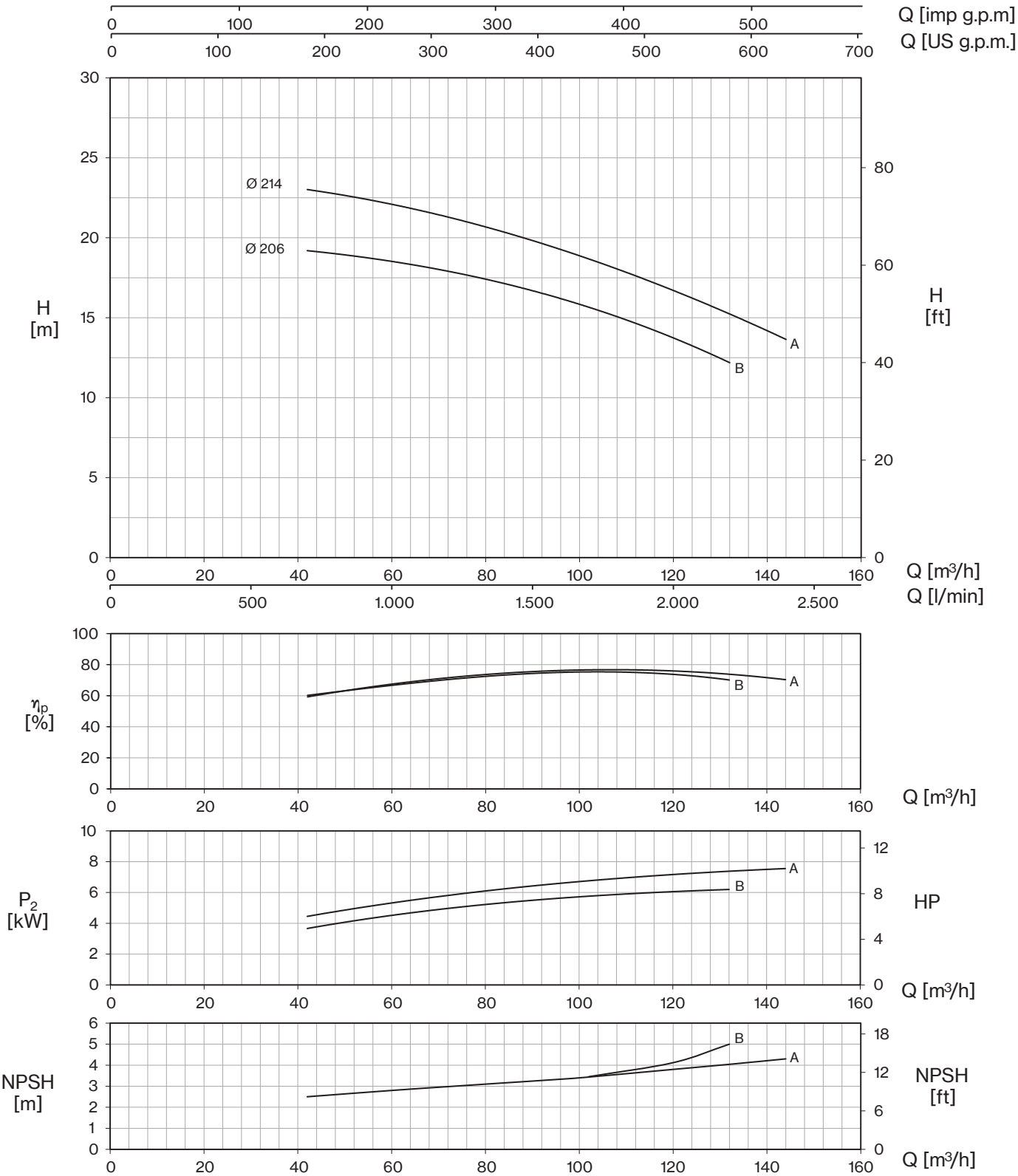
80-160



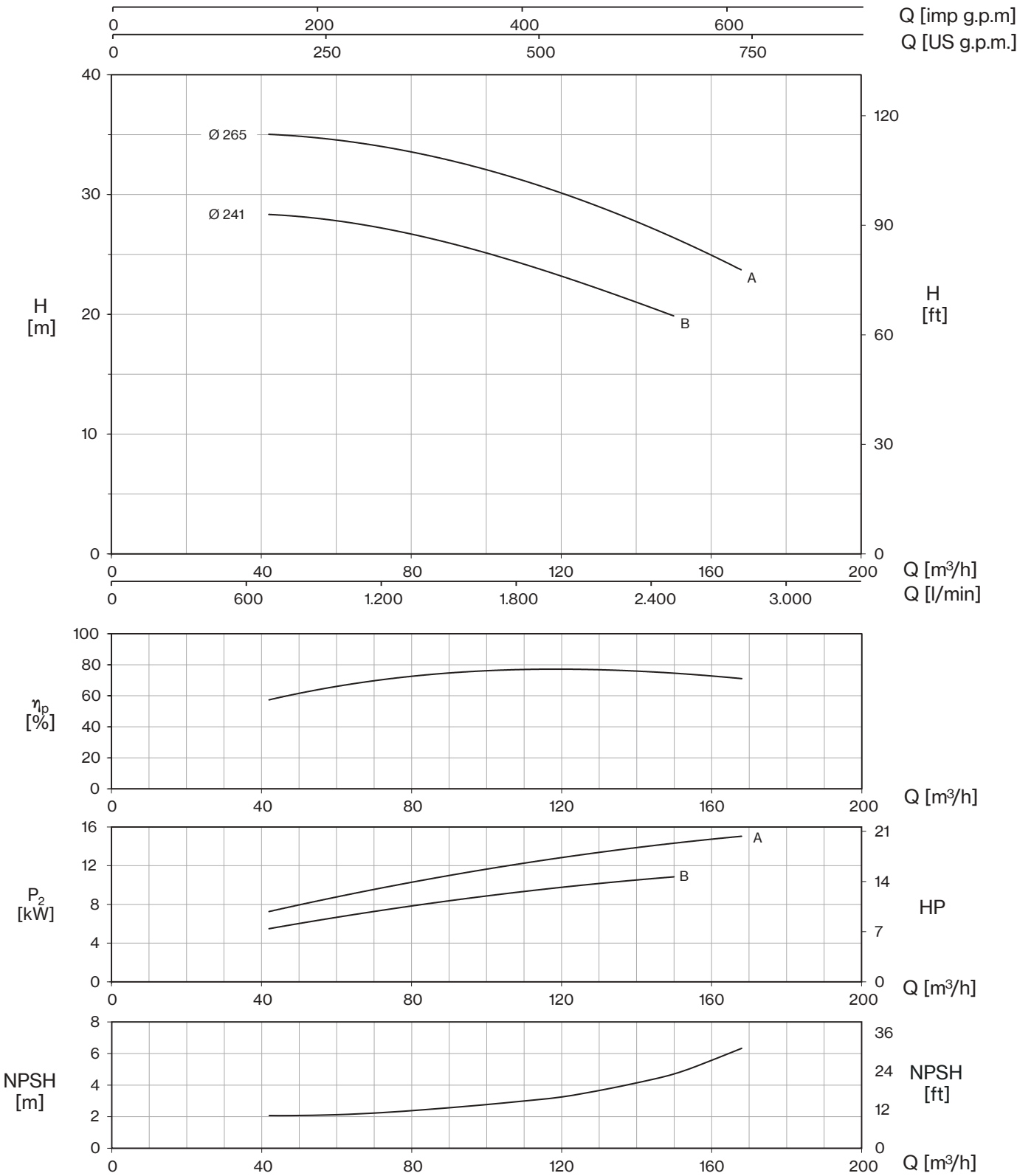
80-200



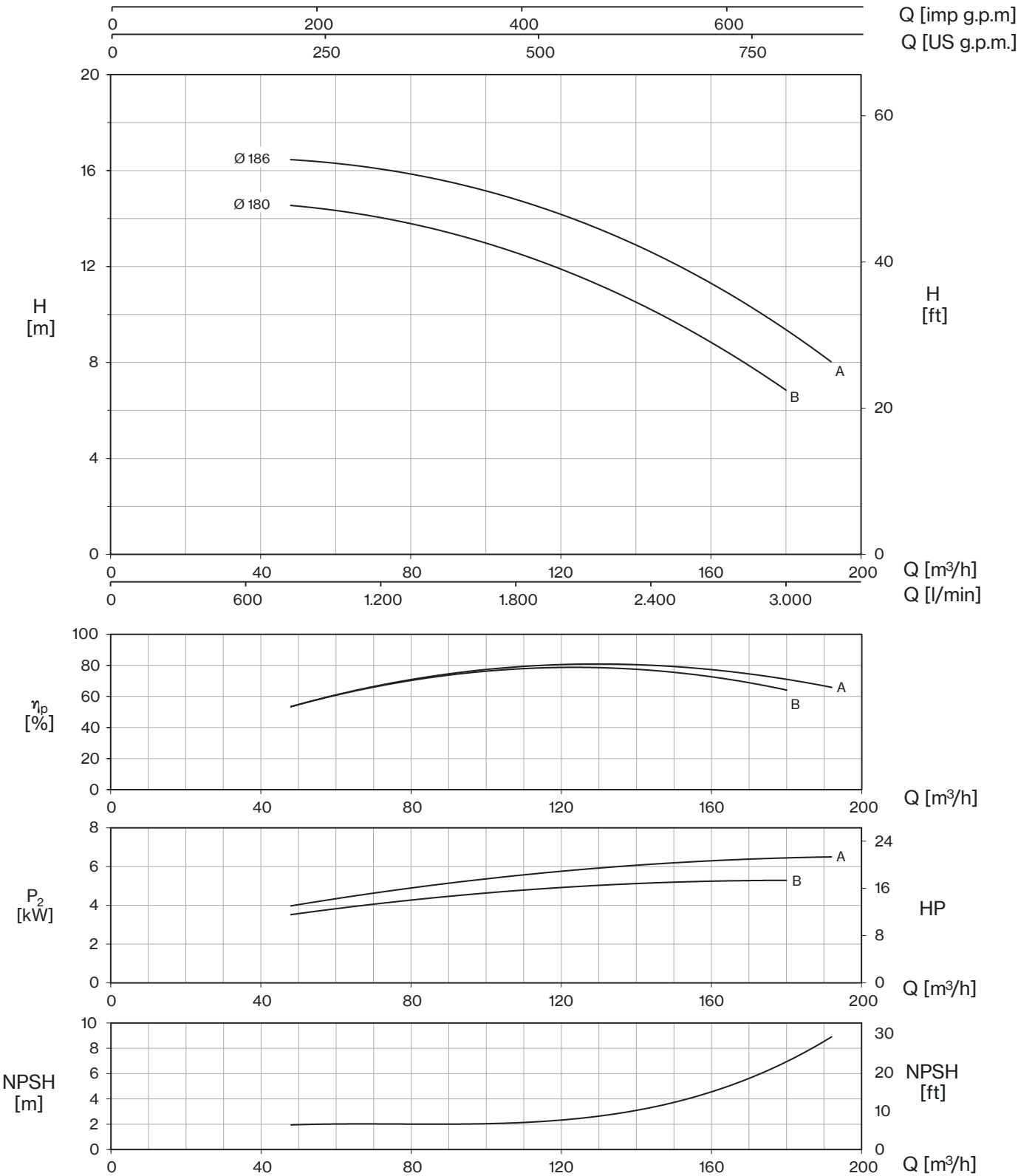
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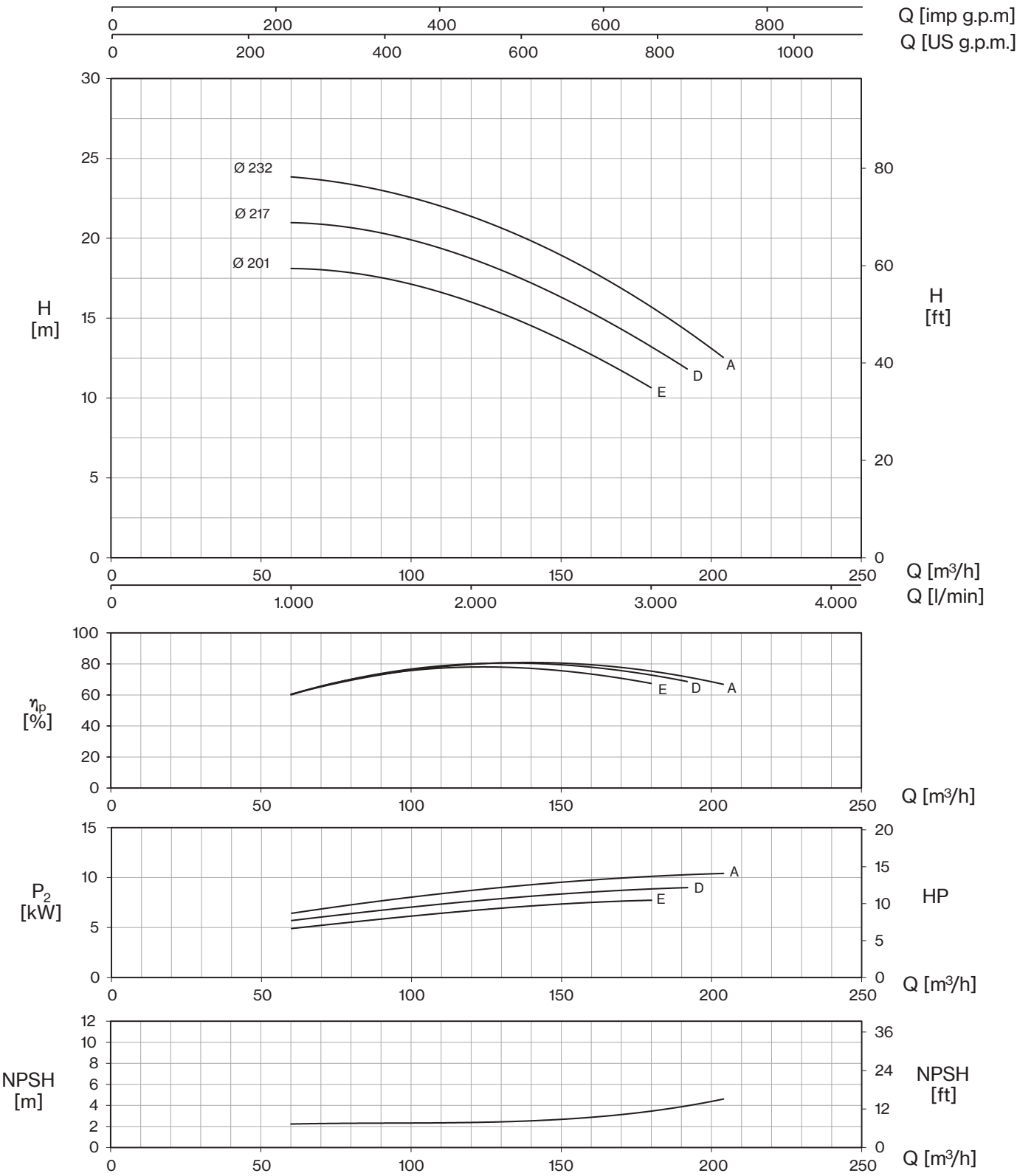
80-315



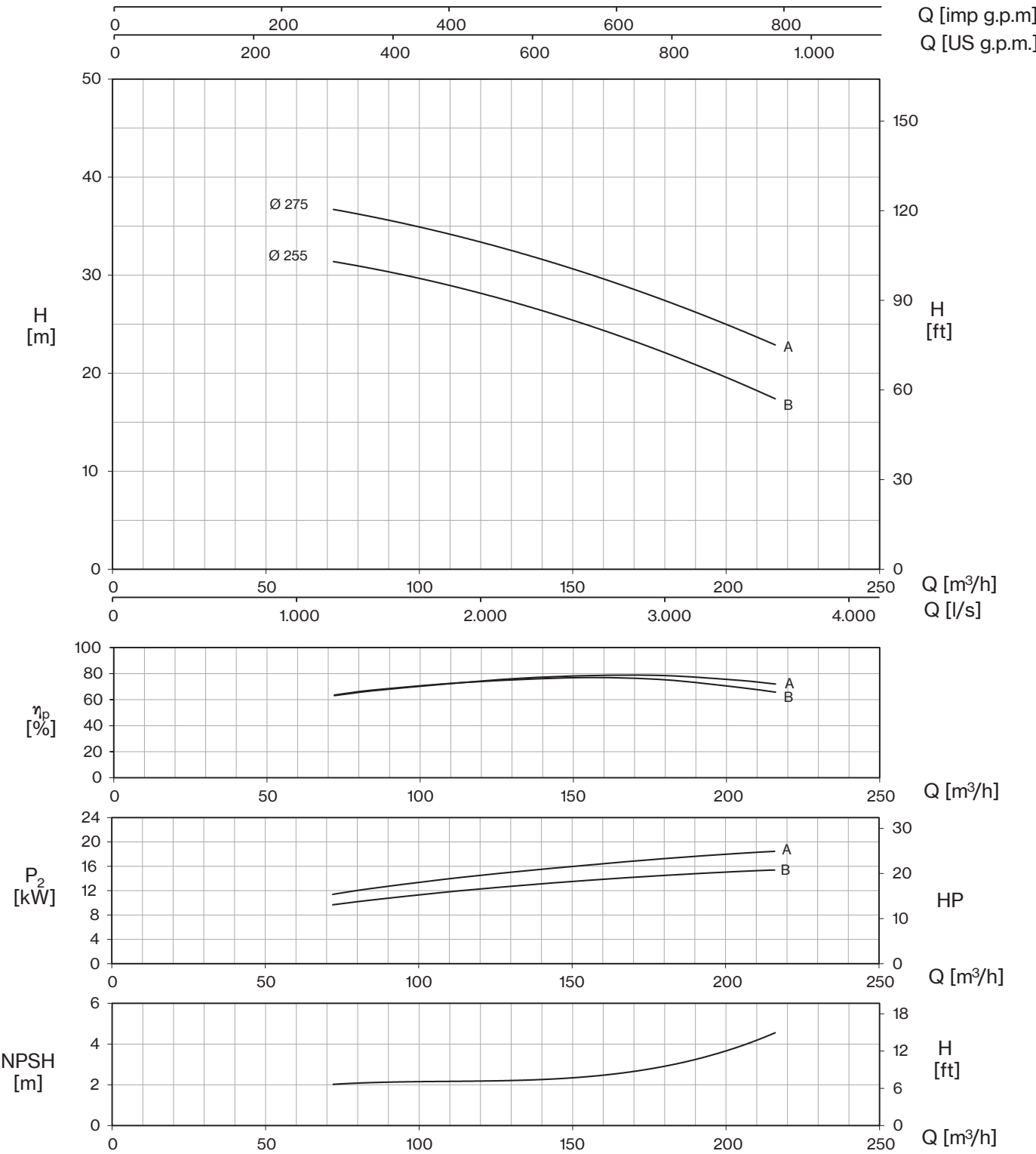
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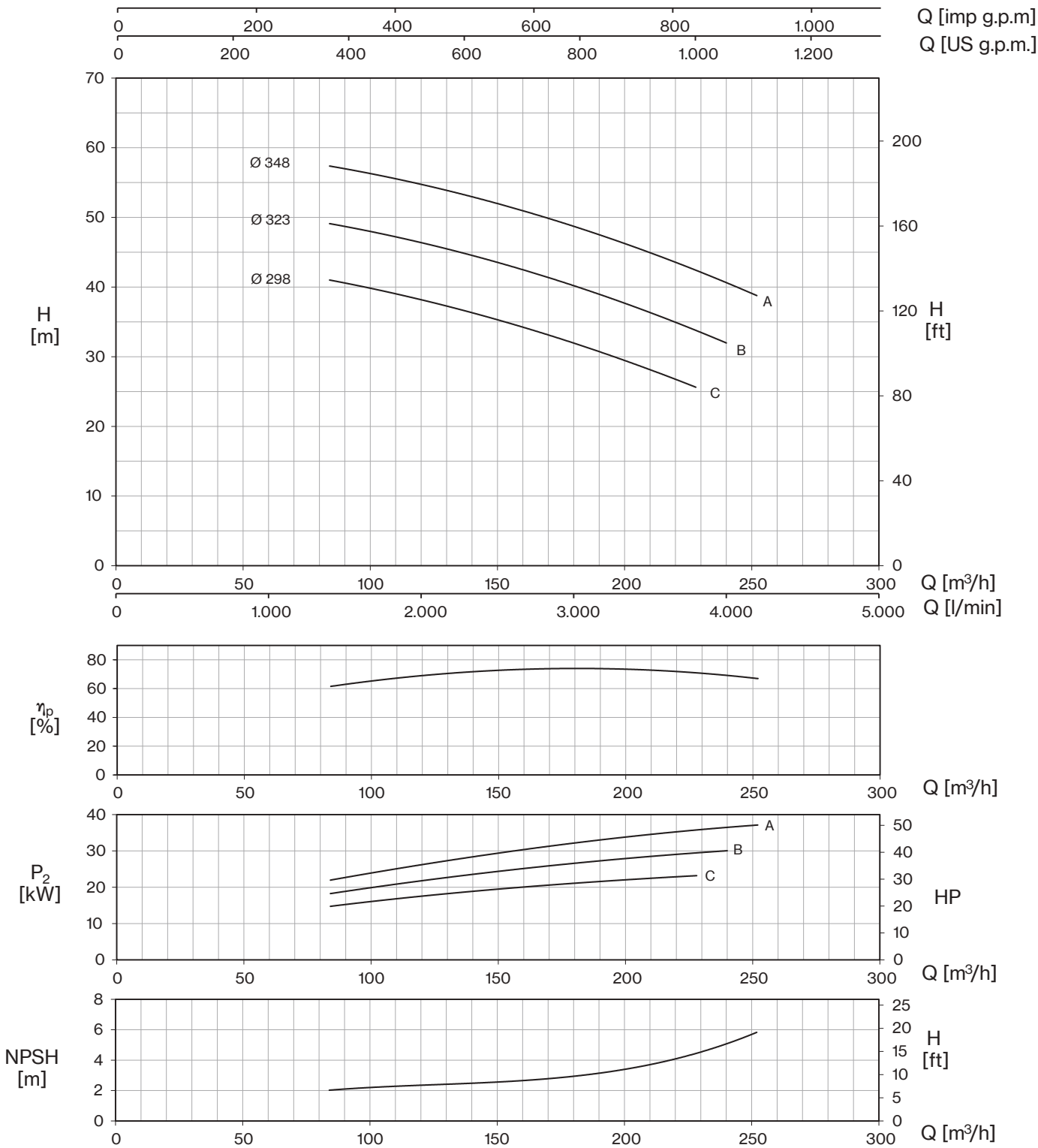
100-250



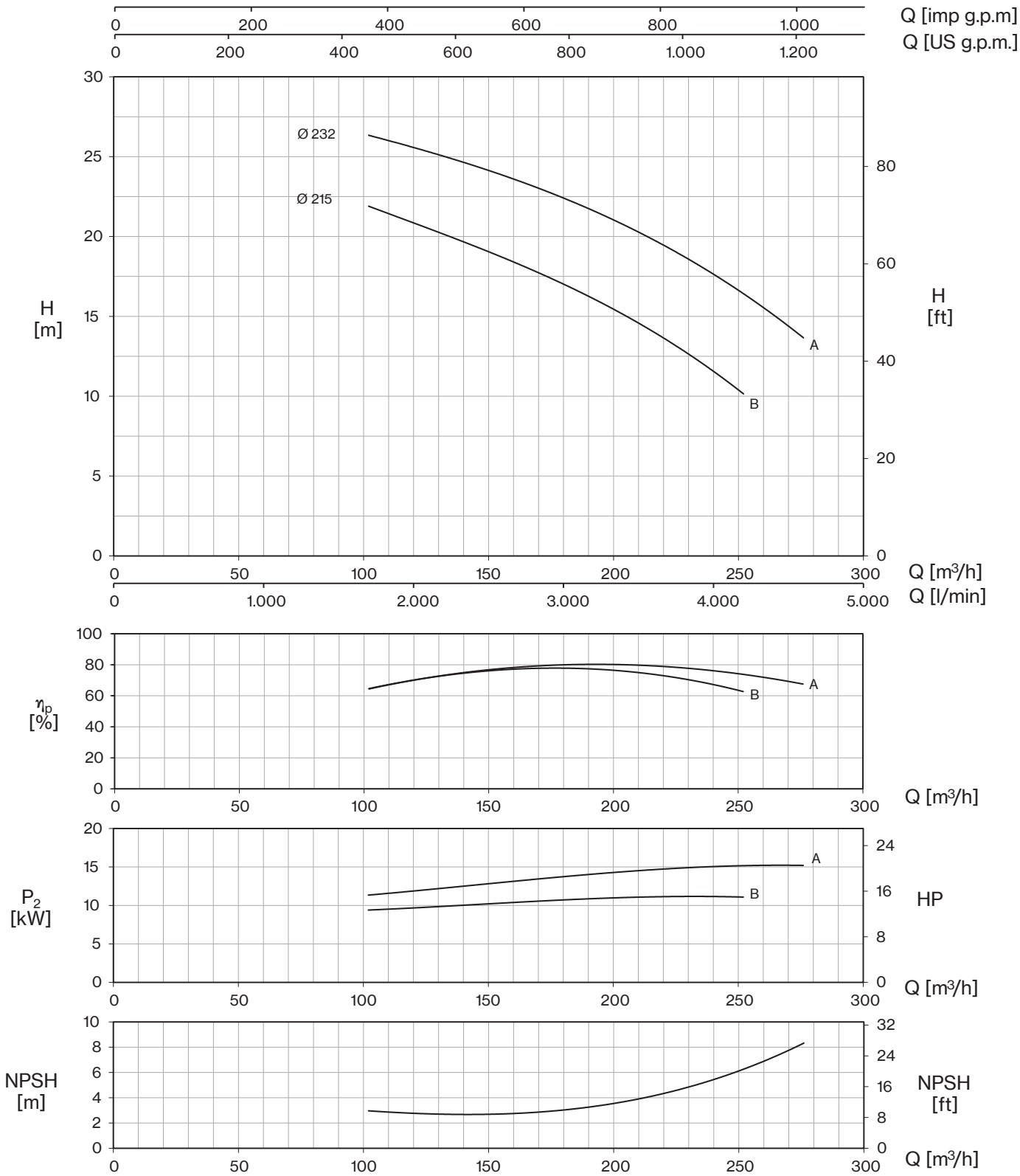
100-315



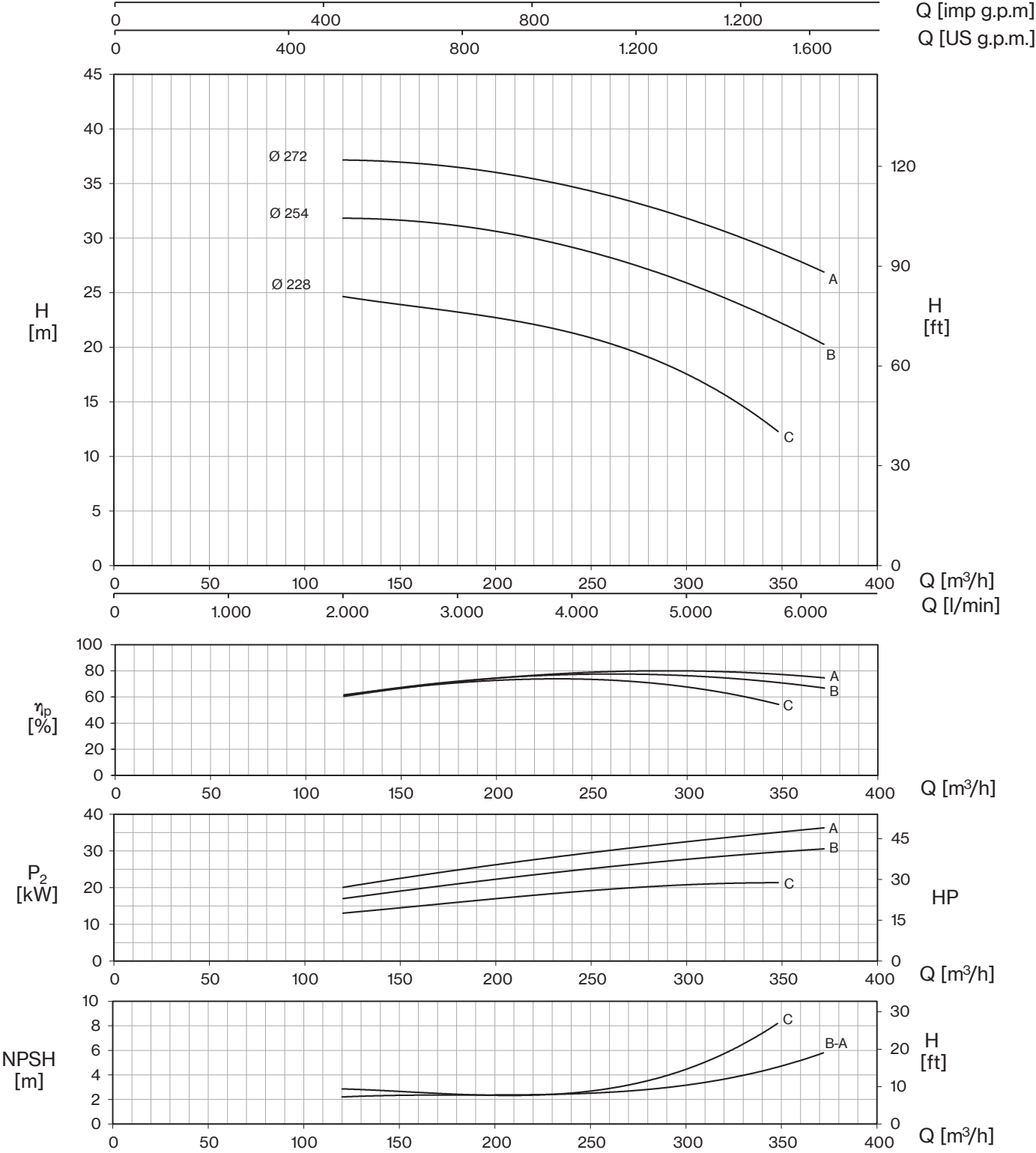
100-400



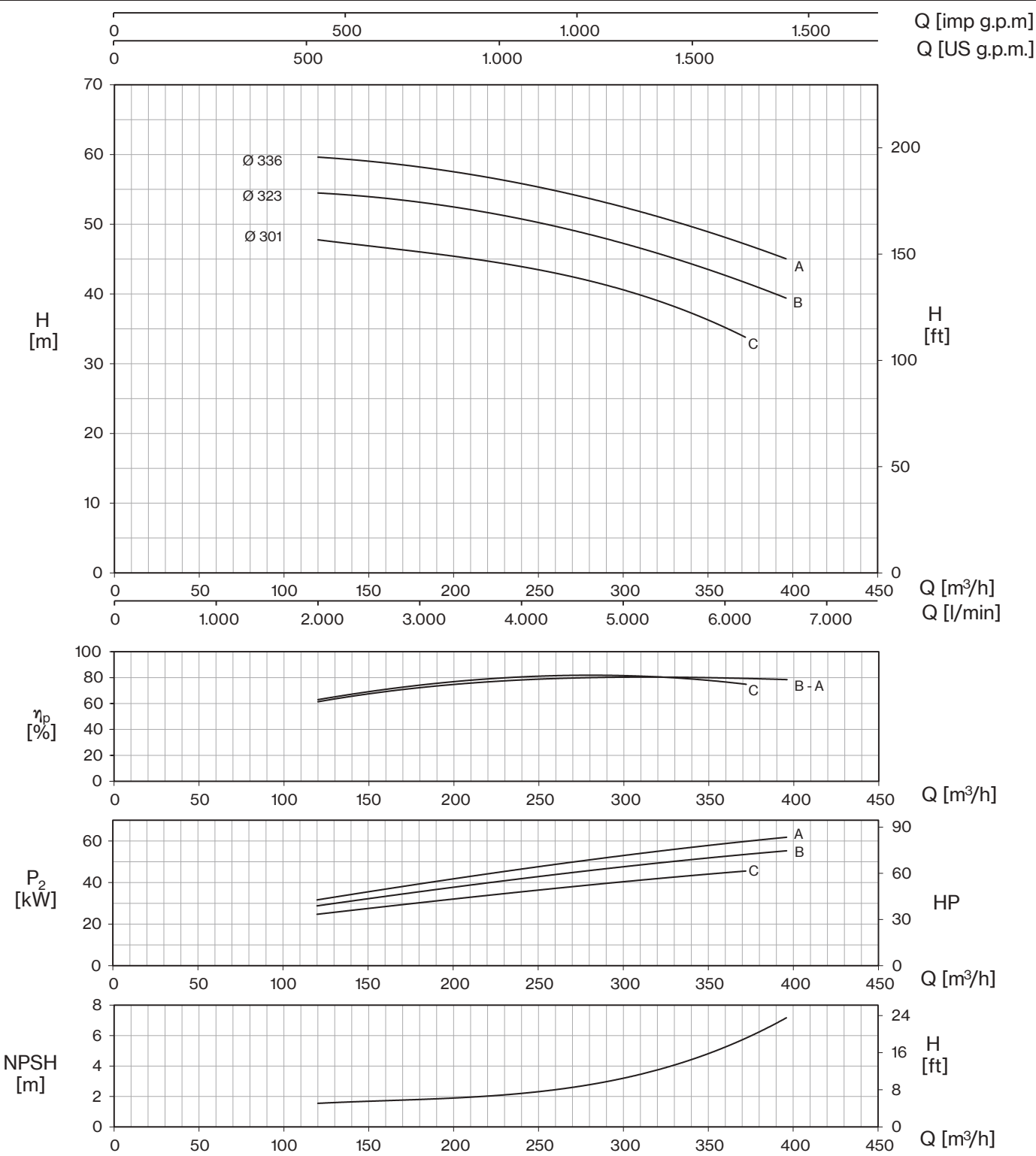
125-250



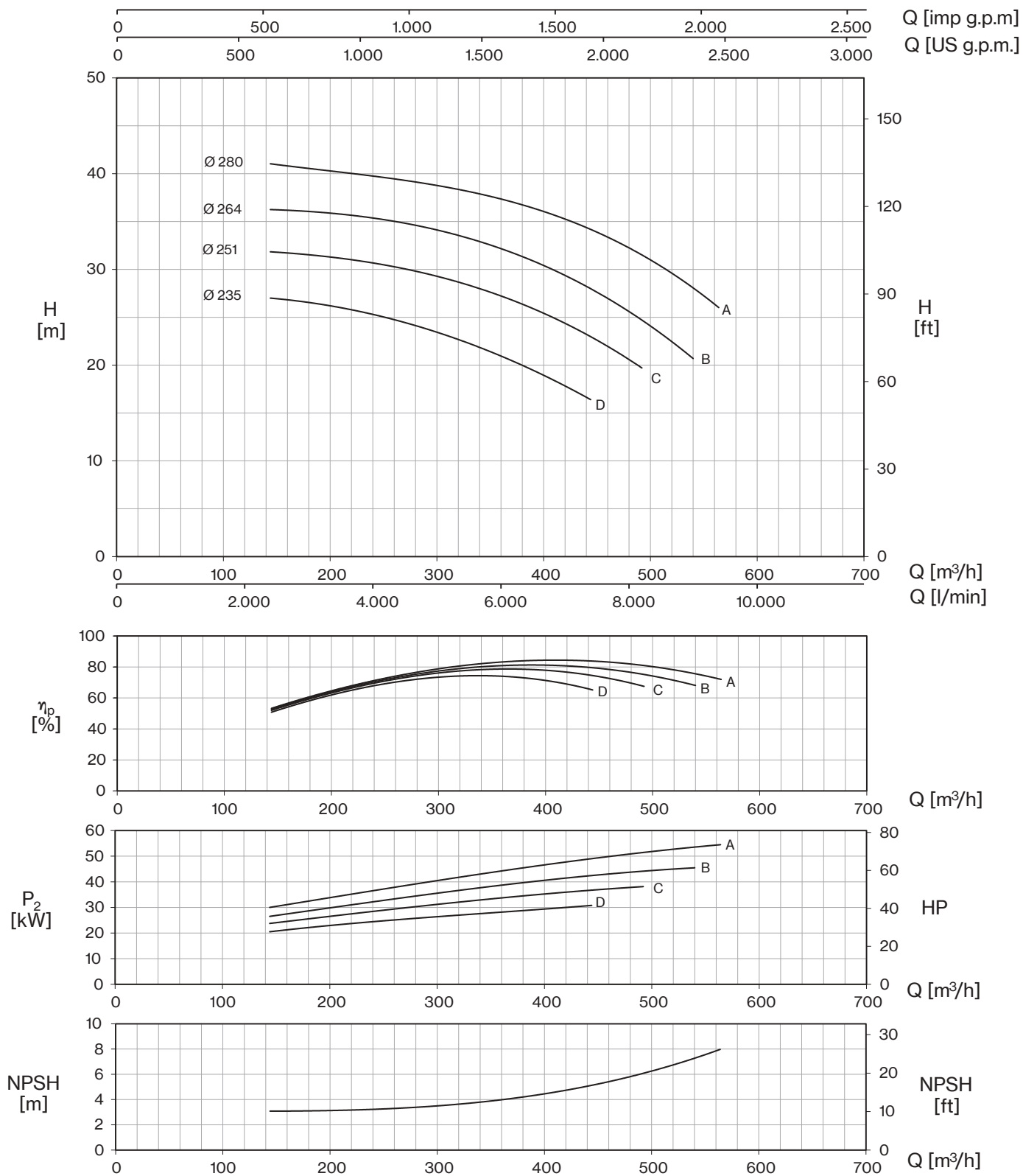
125-315



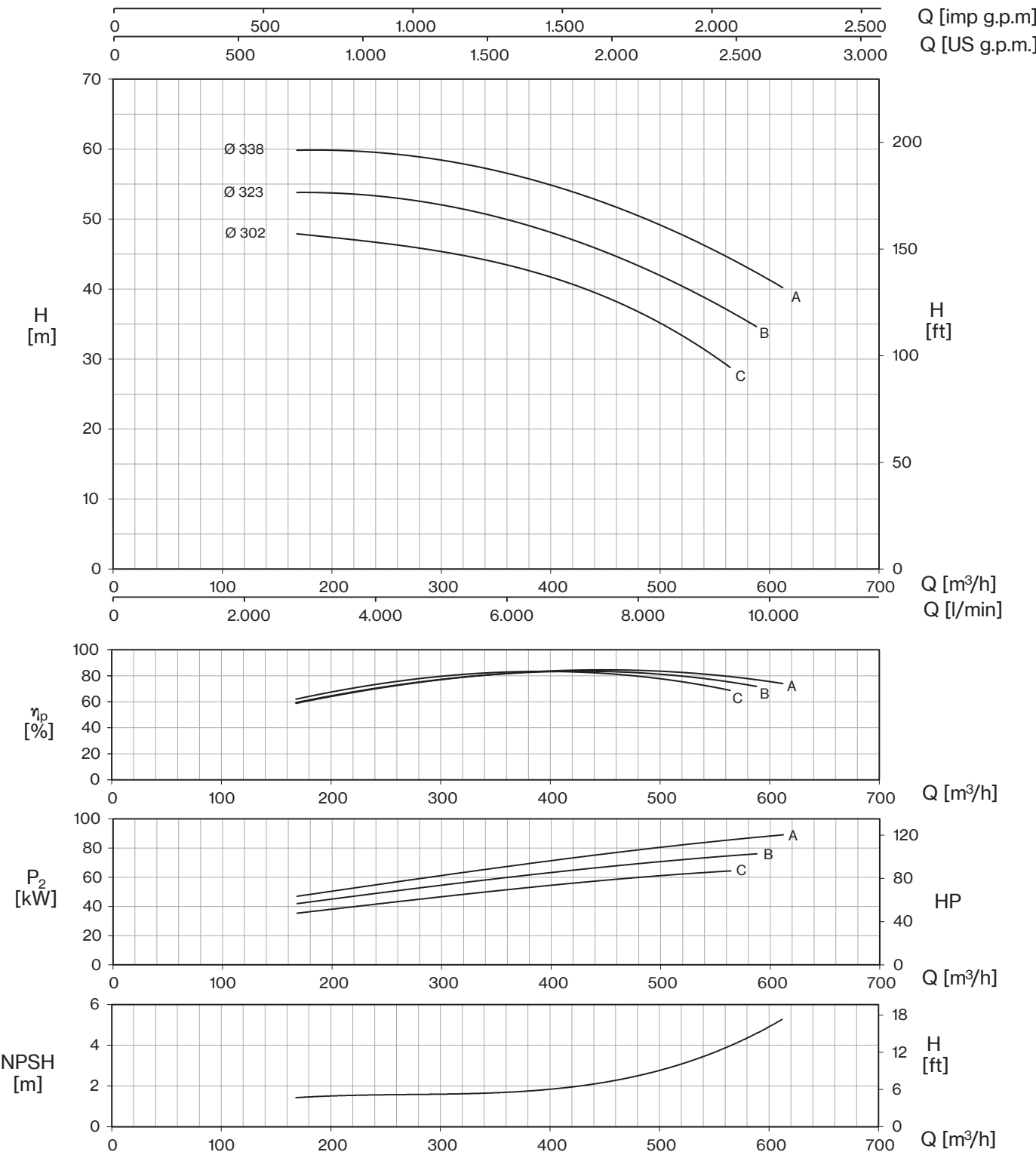
125-400



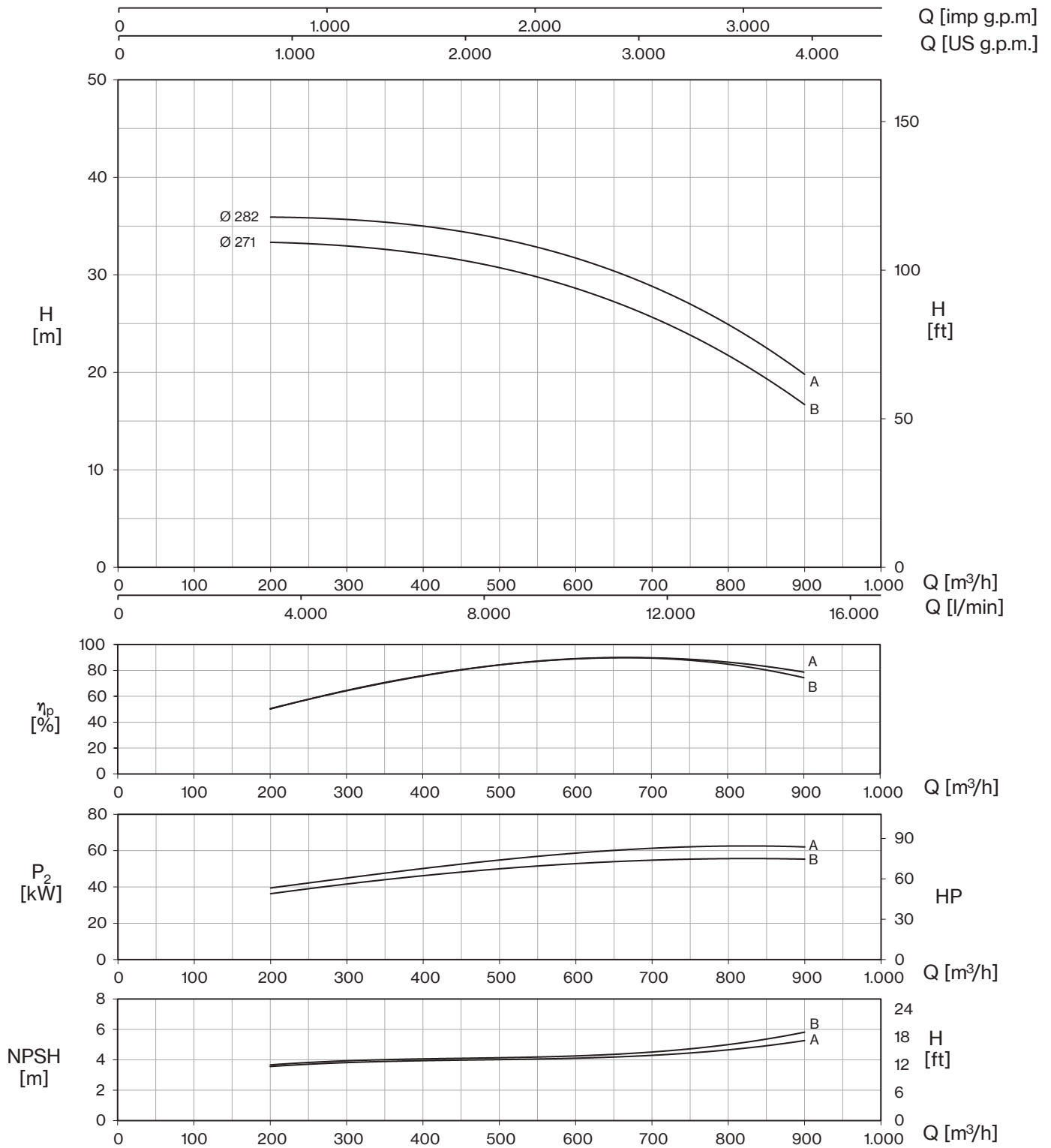
150-315



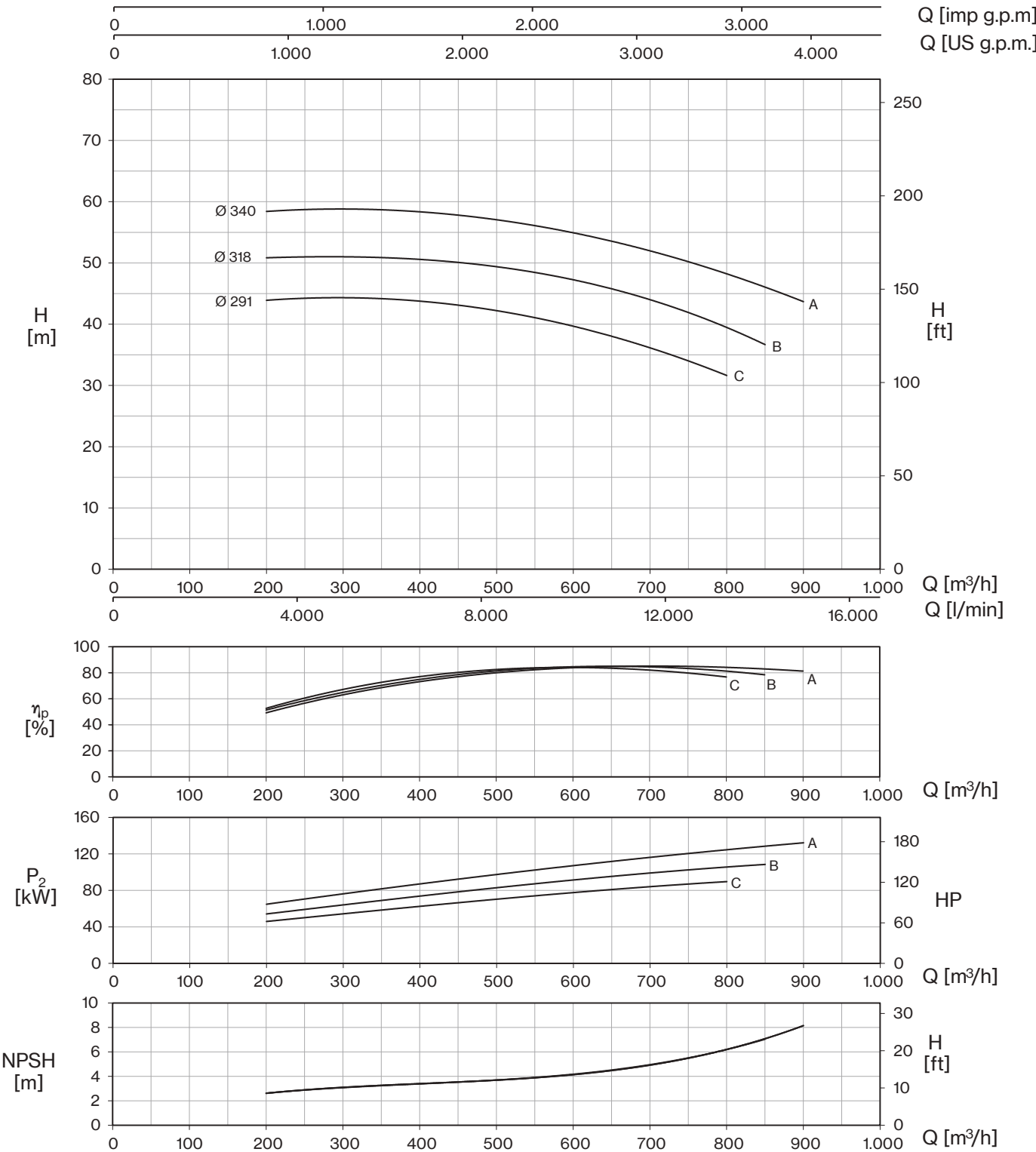
150-400



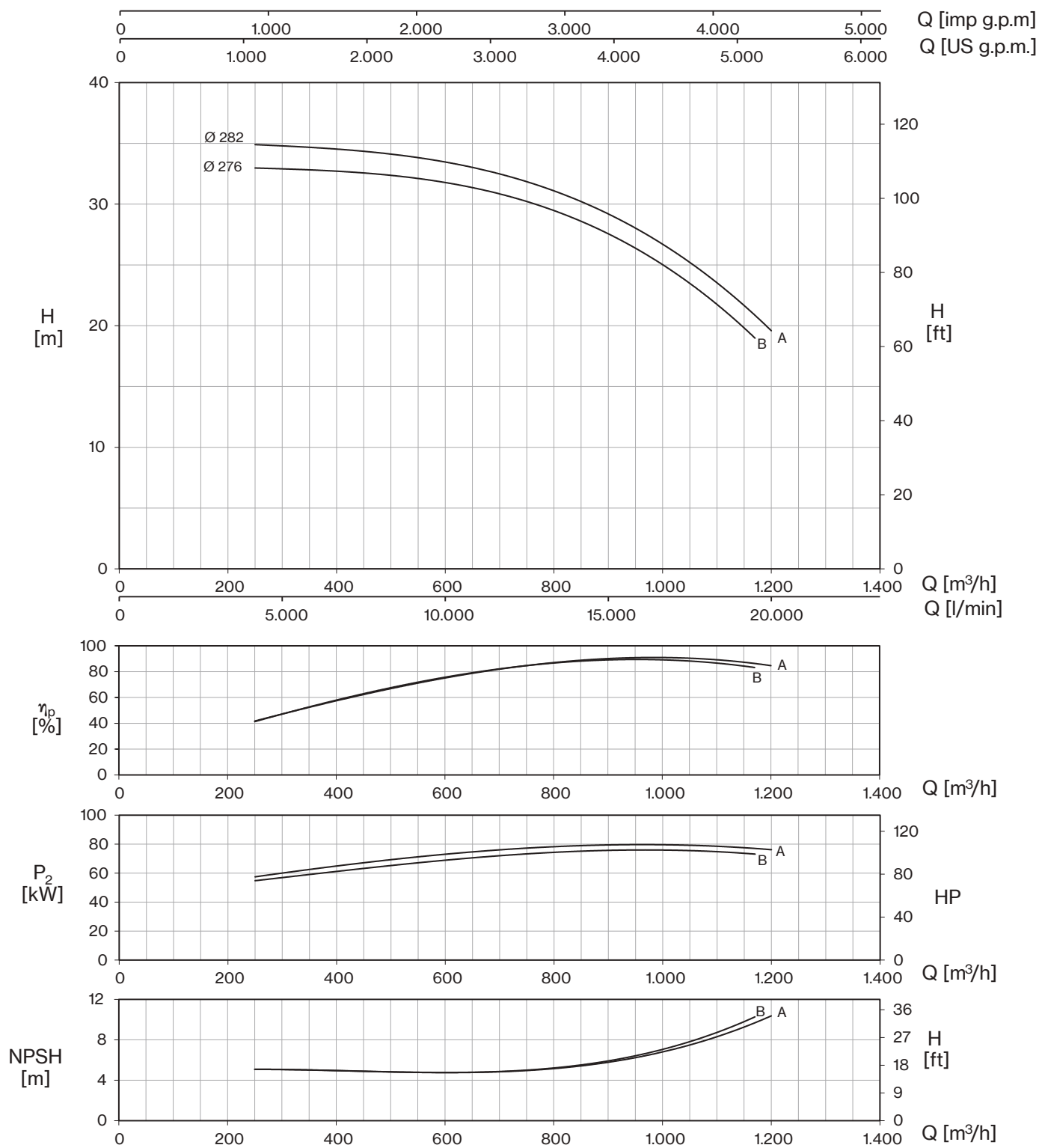
200-315



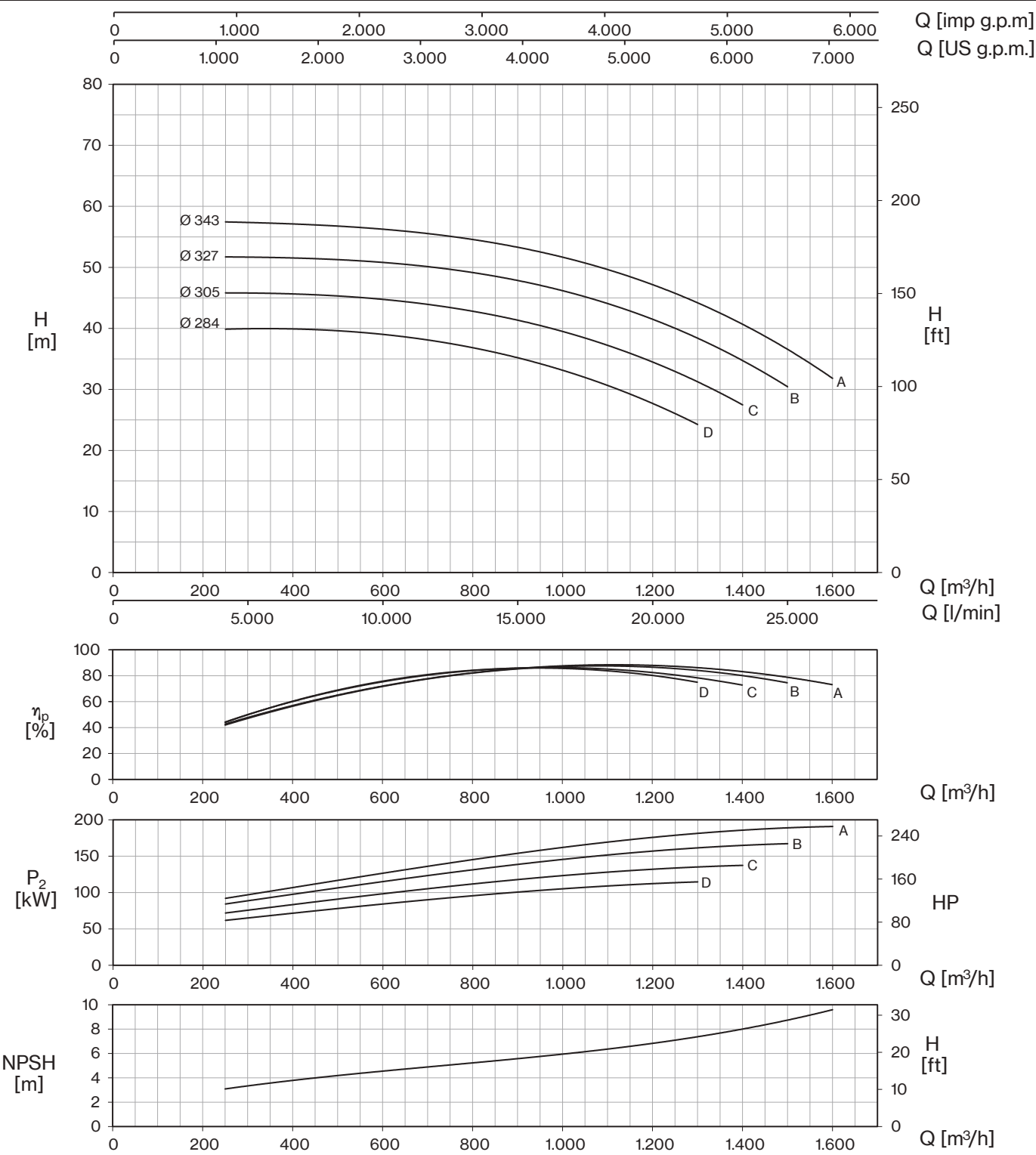
200-400

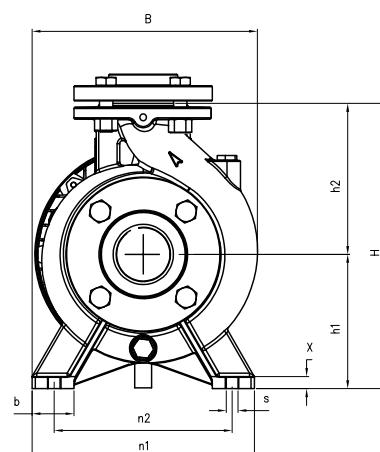
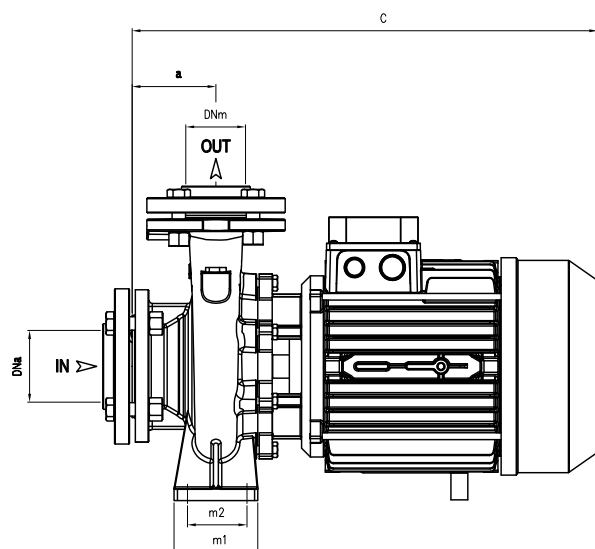


250-315



250-400

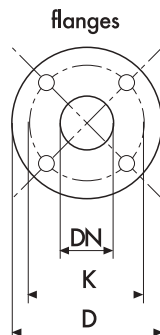


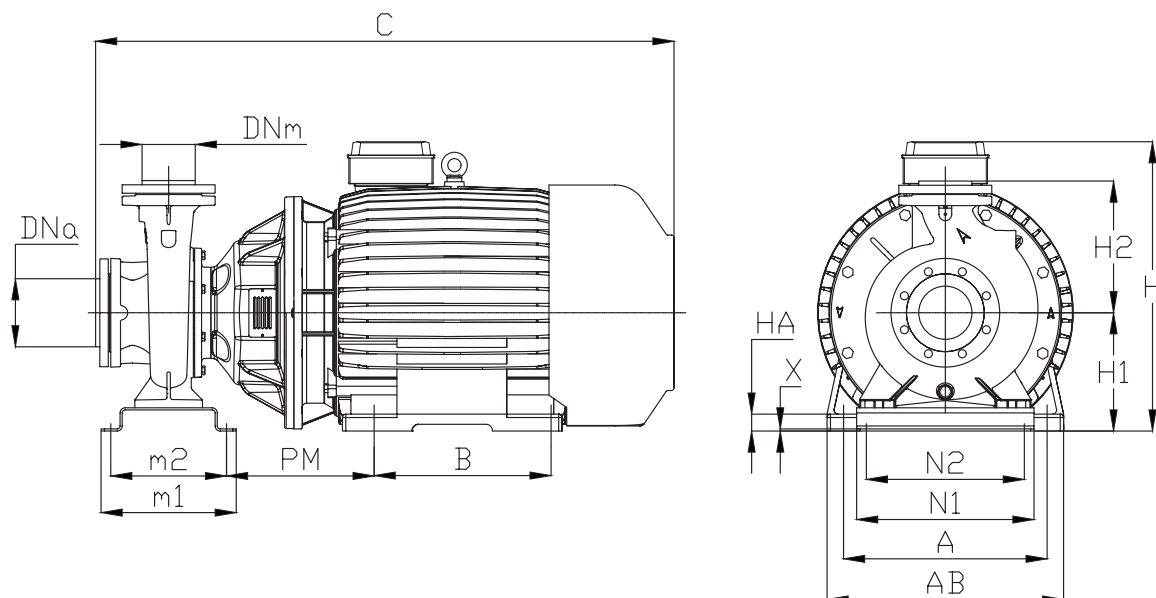


MEC	3~ TYPE	1~ TYPE	DIMENSIONS (mm)																		
			DNA	DNM	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	I	L	M	Kg
90	32-160 C	32-160 C	50	32	80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	41
90	32-160 B	32-160 B			80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	42
90	32-160 A				80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	47
112		32-200 C			80	160	180	100	70	240	190	50	12	14	574	268	340	602	263	395	65
100	32-200 C				80	160	180	100	70	240	190	50	12	14	540	268	340	602	263	395	56,5
132	32-200 B1				80	160	180	100	70	240	190	50	12	14	520	268	340	627	287	408	65,5
132	32-200 B				80	160	180	100	70	240	190	50	12	14	565	268	340	627	287	408	72,5
132	32-200 A1				80	160	180	100	70	240	190	50	12	14	520	268	340	627	287	408	71,5
132	32-200 A				80	160	180	100	70	240	190	50	12	14	565	268	340	627	287	408	78,5
132	32-250 C				100	180	225	125	95	320	250	65	12	14	625	305	405	666	346	471	102
132	32-250 B				100	180	225	125	95	320	250	65	14	14	625	305	405	666	346	471	104,5
160	32-250 A				100	180	225	125	95	320	250	65	14	14	695	305	405	810	354	480	132
90	40-125 C	40-125 C	65	40	80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	41
90	40-125 B	40-125 B			80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	42
90	40-125 A				80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	46
100		40-160 B			80	132	160	100	70	240	190	50	12	14	535	245	292	551	250	341	56
100	40-160 B				80	132	160	100	70	240	190	50	12	14	535	245	292	551	250	341	52
112		40-160 A			80	132	160	100	70	240	190	50	15	14	579	245	292	602	263	395	64,5
100	40-160 A				80	132	160	100	70	240	190	50	15	14	535	245	292	602	263	395	56
112	40-160 AP				80	132	160	100	70	240	190	50	15	14	579	245	292	627	287	408	63
112	40-200 B1				100	160	180	100	70	265	212	50	15	14	597	273	340	627	287	408	67,5
132	40-200 B				100	160	180	100	70	265	212	50	15	14	590	273	340	627	287	408	74,5
112	40-200 A1				100	160	180	100	70	265	212	50	15	14	597	273	340	627	287	408	73,5
132	40-200 A				100	160	180	100	70	265	212	50	15	14	590	273	340	627	287	408	81
132	40-200 AP				100	160	180	100	70	265	212	50	15	14	628	273	340	666	346	471	93,5
132	40-250 C				100	180	225	125	95	320	250	65	15	14	630	322	405	666	346	471	100,5
132	40-250 B				100	180	225	125	95	320	250	65	15	14	630	322	405	666	346	471	104
160	40-250 A				100	180	225	125	95	320	250	65	15	14	700	322	405	810	354	480	132,5
132	40-250 BM				100	180	225	125	95	320	250	65	15	14	750	332	405	810	354	480	150
160	40-250 AM				100	180	225	125	95	320	250	65	15	14	750	332	405	810	354	480	160,5
100		50-125 B	65	50	100	132	160	100	70	240	190	50	12	14	525	250	292	602	263	395	56,5
100	50-125 B				100	132	160	100	70	240	190	50	12	14	560	250	292	602	263	395	52
112		50-125 A			100	132	160	100	70	240	190	50	12	14	610	250	292	602	263	395	65
100	50-125 A				100	132	160	100	70	240	190	50	12	14	560	250	292	602	263	395	57
112	50-160 B1				100	160	180	100	70	265	212	50	12	14	597	270	340	627	287	408	68,5
132	50-160 B				100	160	180	100	70	265	212	50	12	14	590	270	340	627	287	408	75
112	50-160 A1				100	160	180	100	70	265	212	50	12	14	597	270	340	627	287	408	74,5
132	50-160 A				100	160	180	100	70	265	212	50	12	14	590	270	340	627	287	408	81
132	50-200 C				100	160	200	100	70	265	212	50	12	14	635	290	360	666	346	471	99
132	50-200 B				100	160	200	100	70	265	212	50	12	14	635	290	360	666	346	471	102
160	50-200 A				100	160	200	100	70	265	212	50	12	14	705	290	360	810	354	480	130
160	50-250 C				100	180	225	125	95	320	250	65	14	14	705	332	405	810	354	480	136
160	50-250 B				100	180	225	125	95	320	250	65	14	14	750	332	405	810	354	480	152
160	50-250 A				100	180	225	125	95	320	250	65	14	14	750	332	405	810	354	480	164

MEC	3~ TYPE	1~ TYPE	DIMENSIONS (mm)																		
			DNA	DNM	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	I	L	M	
112	65-125 B1		80	65	100	160	180	125	95	280	212	65	14	14	612	280	340	627	287	408	70,5
132	65-125 B				100	160	180	125	95	280	212	65	14	14	605	280	340	627	287	408	77
112	65-125 A1				100	160	180	125	95	280	212	65	14	14	612	280	340	627	287	408	76
132	65-125 A				100	160	180	125	95	280	212	65	14	14	605	280	340	627	287	408	83
132	65-160 C				100	160	200	125	95	280	212	65	14	14	635	290	360	666	346	471	100,5
132	65-160 B				100	160	200	125	95	280	212	65	14	14	635	290	360	666	346	471	103,5
160	65-160 A				100	160	200	125	95	280	212	65	14	14	705	290	360	810	354	480	132,5
160	65-200 C				100	180	225	125	95	320	250	65	14	14	705	330	405	810	354	480	136
160	65-200 B				100	180	225	125	95	320	250	65	14	14	750	330	405	810	354	480	150
160	65-200 A				100	180	225	125	95	320	250	65	14	14	750	330	405	810	354	480	162,5
180	65-250 B				100	200	250	160	120	360	280	80	16	19	820	370	450	920	420	625	203
180	65-250 A				100	200	250	160	120	360	280	80	16	19	860	370	450	920	420	625	226,5
132	80-160 E		100	80	125	180	225	125	95	320	250	65	14	14	665	330	405	810	354	480	109
132	80-160 D				125	180	225	125	95	320	250	65	14	14	665	330	405	810	354	480	114
160	80-160 C				125	180	225	125	95	320	250	65	14	14	735	330	405	810	354	480	140,5
160	80-160 B				125	180	225	125	95	320	250	65	14	14	780	330	405	810	354	480	154
160	80-160 A				125	180	225	125	95	320	250	65	14	14	780	330	405	810	354	480	168
180	80-200 B				125	180	250	125	95	345	280	65	16	14	840	355	430	920	420	625	200
180	80-200 A				125	180	250	125	95	345	280	65	16	14	880	355	430	920	420	625	222,5
180	100-160 B		125	100	125	200	280	160	120	360	280	80	18	18	842	390	480	920	420	625	208,5
180	100-160 A				125	200	280	160	120	360	280	80	18	18	882	390	480	920	420	625	228

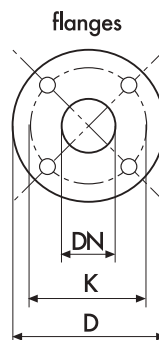
DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18



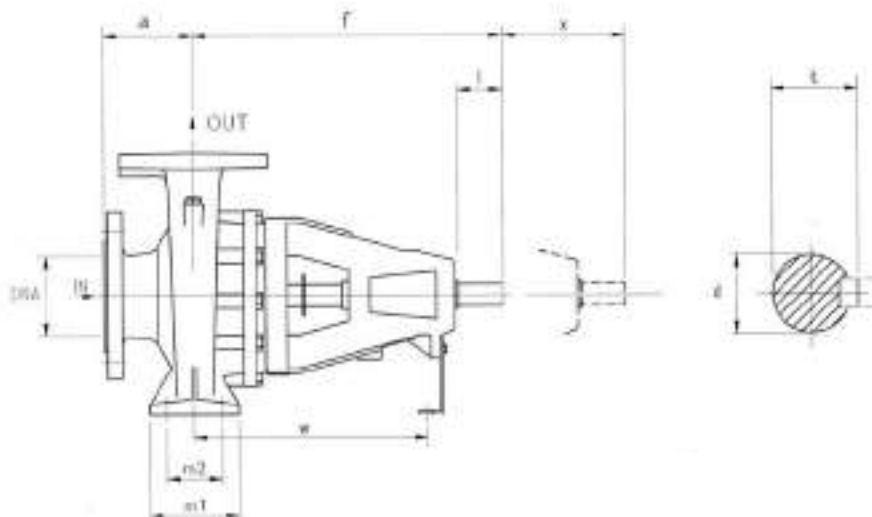
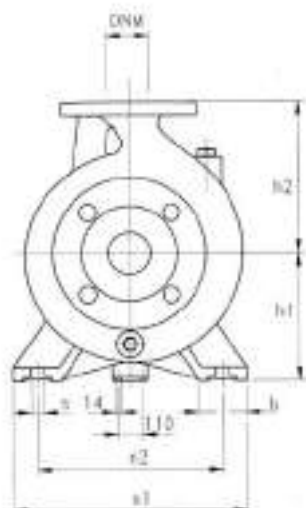


TYPE	DIMENSIONS (mm)															Kg
	DNA	DNM	m1	m2	N2	N1	H1	H2	H	A	AB	B	PM	C	HA	
80-250B	100	80	200	120	315	406	225	317	550	356	435	311	356	1130	28	418
80-250A			320	280	360	420	280	317	650	406	485	349	325	1240	58	505
100-200B	125	100	200	120	280	360	225	321	550	356	435	311	356	1130	28	417
100-200A			320	280	360	420	280	321	650	406	485	349	325	1240	60	505
100-250C			320	280	360	420	280	321	675	406	485	349	325	1315	60	516
100-250B			320	280	360	420	280	321	675	457	545	368	347	1315	35	645
100-250A			320	280	360	420	280	321	675	457	545	419	347	1370	35	680

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

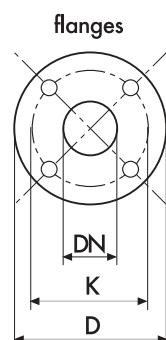


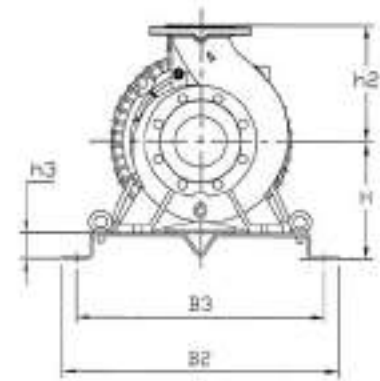
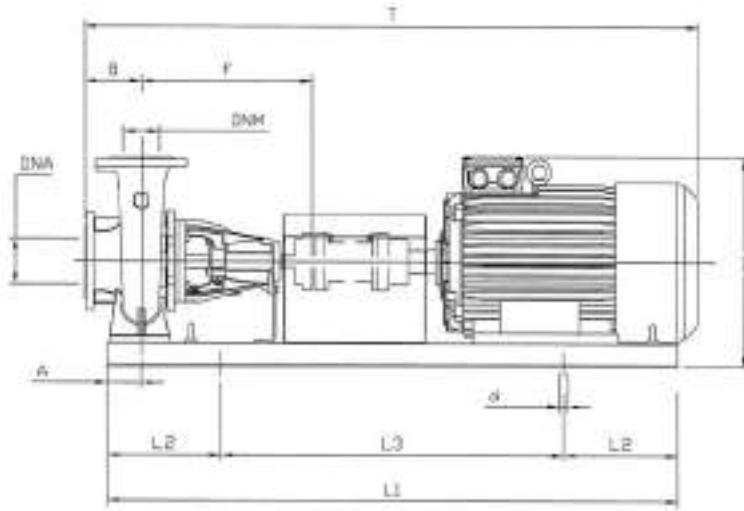
CA-CAX EN 733 ~ 3500 r.p.m.
4CA-4CAX EN 733 ~ 1750 r.p.m.



TYPE	DIMENSIONS (mm)																					
	DNA	DNM	a	f	h1	h2	m1	m2	n1	n2	s	b	l	d	t	u	x	w	l	L	M	
32-160	50	32	80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	37,5
32-200			80	360	160	180	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	40
32-250			100	360	180	225	125	95	320	250	14	65	65	24	27	8	100	260	545	405	545	48,5
40-125	65	40	80	360	112	140	100	70	210	160	14	50	50	24	27	8	100	260	535	320	445	36,5
40-160			80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	38,5
40-200			100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	42,5
40-250			100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260	545	405	545	47,5
50-125	65	50	100	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	39
50-160			100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	43
50-200			100	360	160	200	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	46
50-250			100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260	545	405	545	52,5
50-315			80	125	470	225	280	125	95	345	280	14	65	80	32	35,3	10	100	340	655	465	620
65-125	80	65	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	48,5
65-200			100	360	180	225	125	95	320	250	14	65	65	24	27	8	140	260	545	405	545	53
65-250			100	470	200	250	160	120	360	280	19	80	80	32	35	10	140	340	545	405	545	76
65-315			125	470	225	280	160	120	400	315	19	80	80	32	35	10	140	340	655	465	620	99,5
80-160	100	80	125	360	180	225	125	95	320	250	14	65	50	24	27	8	140	260	545	405	545	57,5
80-200			125	470	180	250	125	95	345	280	14	65	80	32	35	10	140	340	680	405	545	73
80-250			125	470	200	280	160	120	400	315	18	80	80	32	35,3	10	140	340	655	465	585	89,5
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	100	125	470	200	280	160	120	360	286	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	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	150	125	160	530	315	450	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	720	775	855	169
125-400			140	530	315	400	200	150	500	400	22	100	110	42	45,3	12	140	370	720	775	855	190,5
150-315	200	150	160	530	280	400	200	150	550	450	22	100	110	42	45,3	12	140	370	655	465	620	186,5
150-400			160	530	315	450	200	150	550	450	22	100	110	42	45,3	12	140	370	720	775	855	214
200-315	250	200	180	706	355	450	250	190	634	500	28	134	110	55	58,3	16	208	523	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	300	250	225	711	400	500	250	200	694	560	28	134	110	55	58,3	16	214	528	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



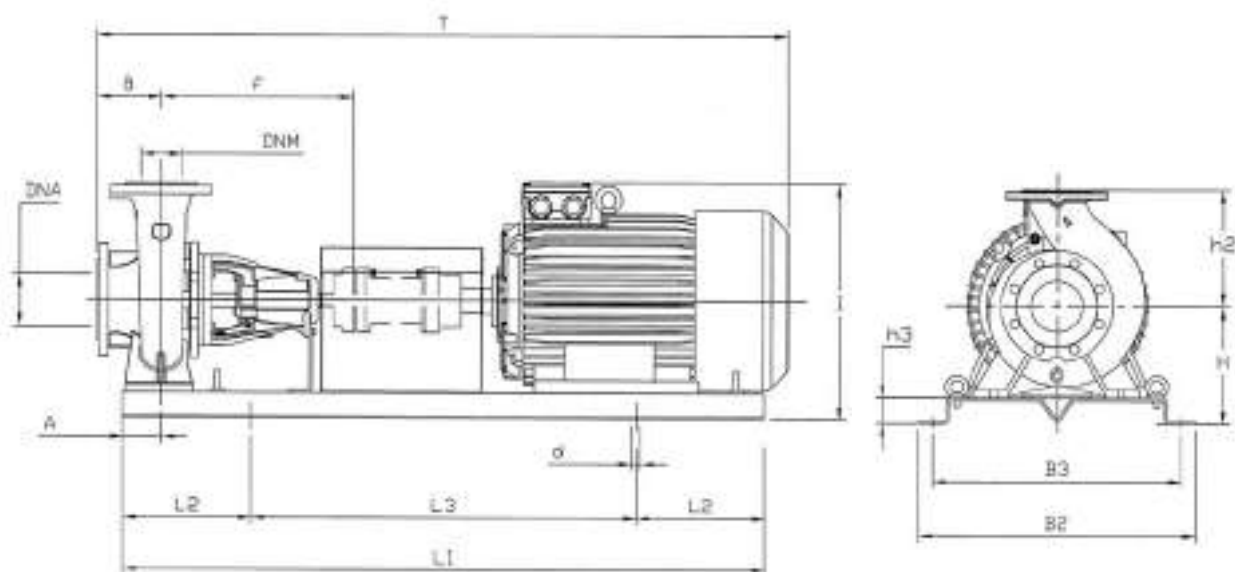


TYPE	kW	Motor Size	DIMENSIONS (mm)																Kg
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I	
32-160C	1,5	90S	50	32	80	360	182	160	50	800	130	540	360	320	60	18	855	342	82,1
32-160B	2,2	90L			80	360	182	160	50	900	150	600	390	350	60	18	920	342	87,7
32-160A	3	100L			80	360	182	160	50	900	150	600	390	350	60	18	920	362	96,7
32-200C	4	112M			80	360	210	180	50	900	150	600	390	350	60	18	940	403	108,7
32-200B	5,5	132S			80	360	210	180	50	1000	170	660	450	400	60	22	1020	453	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	65	40	80	360	162	140	50	800	130	540	360	320	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
40-160AP	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	147,4
40-200A	11	160M			100	360	210	180	50	1120	190	740	490	440	60	22	1168	503	198,4
40-200AP	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	523	208,9
40-250B	11	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	208,9
40-250A	15	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	220,9
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	530	297,3
50-125B	3	100L	65	50	100	360	182	160	50	900	150	600	390	350	60	18	940	342	99,7
50-125A	4	112M			100	360	182	160	50	900	150	600	390	350	60	18	960	342	107,7
50-160B	5,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	405	119,6
50-160A	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	390	147,8
50-200C	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	535	201,8
50-200B	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	523	201,8
50-200A	15	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	503	213,8
50-250C	15	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	523	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	530	301,2
50-315DN	37	200L	80	50	125	470	275	280	50	1400	230	940	610	550	75	26	1455	625	415,0
50-315CN	45	225M			125	470	275	280	50	1400	230	940	610	550	75	26	1500	670	465,8
50-315BN	55	250M			125	470	310	280	85	1600	270	1060	660	600	75	26	1650	800	611,8
50-315AN	75	280S			125	470	310	280	85	1800	300	1200	730	670	75	26	1850	870	762,6

CA-CAX EN 733 ~ 3500 r.p.m.

TYPE	kW	Motor Size	DIMENSIONS (mm)																Kg
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I	
65-125B	5,5	132S	80	65	100	360	210	180	50	1000	170	660	450	400	60	22	1040	390	121,4
65-125B	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	390	149,6
65-125A	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	390	149,6
65-160C	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	410	205,1
65-160B	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	503	205,1
65-160A	15	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	503	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	245,5
65-200B	22	180M			100	360	230	225	50	1250	205	840	540	490	75	22	1290	530	303,3
65-200A	22	180M			100	360	230	225	50	1250	205	840	540	490	75	22	1290	530	303,3
65-250B	30	200L			100	470	250	250	50	1400	230	940	610	550	90	26	1470	600	377,8
65-250A	37	200L			100	470	250	250	50	1400	230	940	610	550	90	26	1470	580	397,8
65-315CN	55	250M			125	470	310	280	85	1600	270	1060	660	600	90	26	1645	760	614,2
65-315BN	75	280S			125	470	310	280	85	1800	300	1200	730	670	90	26	1835	850	765,0
65-315AN	90	280M			125	470	310	280	85	1800	300	1200	730	670	90	26	1835	800	839,2
80-160E	11	160M	100	80	125	360	230	225	50	1250	205	840	540	490	75	22	1300	455	220,8
80-160D	11	160M			125	360	230	225	50	1250	205	840	540	490	75	22	1300	455	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	530	308,7
80-200B	30	200L			125	470	230	250	50	1400	230	940	610	550	75	26	1495	600	376,7
80-200A	37	200L			125	470	230	250	50	1400	230	940	610	550	75	26	1495	580	396,7
80-250B	45	225M			125	470	250	280	50	1400	230	940	610	550	90	26	1540	630	464,5
80-250A	55	250M			125	470	285	280	85	1600	270	1060	660	600	90	26	1645	760	610,5
100-200B	45	225M	125	100	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	680	625,5
100-250C	75	280S			140	470	310	280	85	1800	300	1200	730	670	90	26	1850	735	776,3
100-250B	75	280S			140	470	310	280	85	1800	300	1200	730	670	90	26	1850	825	776,3
100-250A	90	280M			140	470	310	280	85	1800	300	1200	730	670	90	26	1850	800	850,5





TYPE	kW	Motor Size	DIMENSIONS (mm)																	
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I		
32-160C	0,37	71M	50	32	80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,4	
32-160B	0,37	71M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,4	
32-160A	0,55	80M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,1	
32-200C	0,75	80M			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	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	71M	65	40	80	360	162	140	50	800	130	540	360	320	60	18	820	302	59,5	
40-125B	0,37	71M			80	360	162	140	50	800	130	540	360	320	60	18	820	302	59,5	
40-125A	0,55	80M			80	360	162	140	50	800	130	540	360	320	60	18	820	307	59,2	
40-160B	0,55	80M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	62,2	
40-160A	0,75	80M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	74,2	
40-160AP	0,75	80M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	74,2	
40-160AP	1,1	90S			80	360	182	160	50	800	130	540	360	320	60	18	855	342	87,2	
40-200B	1,1	90S			100	360	210	180	50	900	150	600	390	350	60	18	940	390	93,8	
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	90S			100	360	210	180	50	900	150	600	390	350	60	18	940	390	93,8	
40-200AP	1,5	90S			100	360	210	180	50	900	150	600	390	350	60	18	940	390	98,8	
40-250C	1,5	90S			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	
50-125B	0,55	80M	65	50	100	360	182	160	50	800	130	540	360	320	60	18	840	342	62,1	
50-125A	0,75	80M			100	360	182	160	50	800	130	540	360	320	60	18	840	342	74,1	
50-160B	0,75	80M			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	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	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	80		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	186,6	
50-315A	11	160M			125	470	275	280	50	1250	205	840	540	490	75	22	1303	555	260,1	

4CA-4CAX EN 733 ~ 1750 r.p.m.

TYPE	kW	Motor Size	DIMENSIONS (mm)																	
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I		
65-125B	0,75	80M	80	65	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	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
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	100	80	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	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	
100-200B	5,5	132S			125	100	125	470	250	280	50	1120	190	740	490	440	90	22	1200	530
100-200A	7,5	132M	125	470			250	280	50	1120	190	740	490	440	90	22	1240	530	192,3	
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	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	150	125			140	470	300	355	50	1250	205	840	540	490	90	22	1358	655
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	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	200	150	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	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	



CM Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
	CM32-160C, CM32-160B, CM32-160A, CM40-125C, CM40-125B, CM40-125A	20mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Ceramic Graphite EPDM	- - -	SiC SiC EPDM	SiC SiC FKM
	CM40-250BM, CM40-250AM	28mm	Rotating face Stationary face Elastomer	Ceramic Graphite EPDM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM
	CM32-200C, CM32-200B1, CM32-200B, CM32-200A1, CM32-200A, CM32-250C, CM32-250B, CM32-250A, CM40-160B, CM40-160A, CM40-160AP, CM40-200B1, CM40-200B, CM40-200A1, CM40-200A, CM40-200AP, CM40-250C, CM40-250B, CM40-250A, CM50-125B, CM50-125A, CM50-160B1, CM50-160B, CM50-160A1, CM50-160A, CM50-200C, CM50-200B, CM50-200A, CM50-250C, CM50-250B, CM50-250A, CM65-125B1, CM65-125B, CM65-125A1, CM65-125A, CM65-160C, CM65-160B, CM65-160A, CM65-200C, CM65-200B, CM65-200A, CM80-160E, CM80-160D, CM80-160C, CM80-160B, CM80-160A	28mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Ceramic Graphite EPDM	Ceramic Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	CM65-250B, CM65-250A, CM80-200B, CM80-200A, CM100-160B, CM100-160A	40mm	Rotating face Stationary face Elastomer	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM

BEARINGS	PUMP MODEL	TYPE	
	3-CM32-200C, CM40-160B, 3-CM40-160A, CM50-125B, 3-CM50-125A	6204-ZZ	6206-ZZ C3
	CM32-160C, CM32-160B, CM32-160A, CM40-125C, CM40-125B, CM40-125A	6205-ZZ C3	6203-ZZ
	1-CM32-200C, CM32-200B1, CM32-200B, CM32-200A1, CM32-200A, CM32-250C, CM32-250B, 1-CM40-160A, CM40-160AP, CM40-200B1, CM40-200B, CM40-200A1, CM40-200A, CM40-200AP, CM40-250C, CM40-250B, 1-CM50-125A, CM50-160B1, CM50-160B, CM50-160A1, CM50-160A, CM50-200C, CM50-200B, CM65-125B1, CM65-125B, CM65-125A1, CM65-125A, CM65-160C, CM65-160B, CM80-160E, CM80-160D	6206-ZZ C3	6306-ZZ C3
	CM32-250A, CM40-250A, CM40-250BM, CM40-250AM, CM50-200A, CM50-250C, CM50-250B, CM50-250A, CM65-160A, CM65-200C, CM65-200B, CM65-200A, CM80-160C, CM80-160B, CM80-160A	6308-ZZ C3	6309-ZZ C3
	CM65-250B, CM65-250A, CM80-200B, CM80-200A, CM100-160B, CM100-160A	6309-ZZ C3	6310-ZZ C3

CMG Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT		STANDARD MATERIAL	OPTIONAL			
	CMG80-250B, CMG80-250A, CMG100-200B, CMG100-200A, CMG100-250C, CMG100-250B, CMG100-250A	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	
	CMG80-250B, CMG100-200B	6313-ZZ C3	6313-ZZ C3
	CMG80-250A, CMG100-200A, CMG100-250C, CMG100-250B, CMG100-250A	6314-ZZ C3	6314-ZZ C3

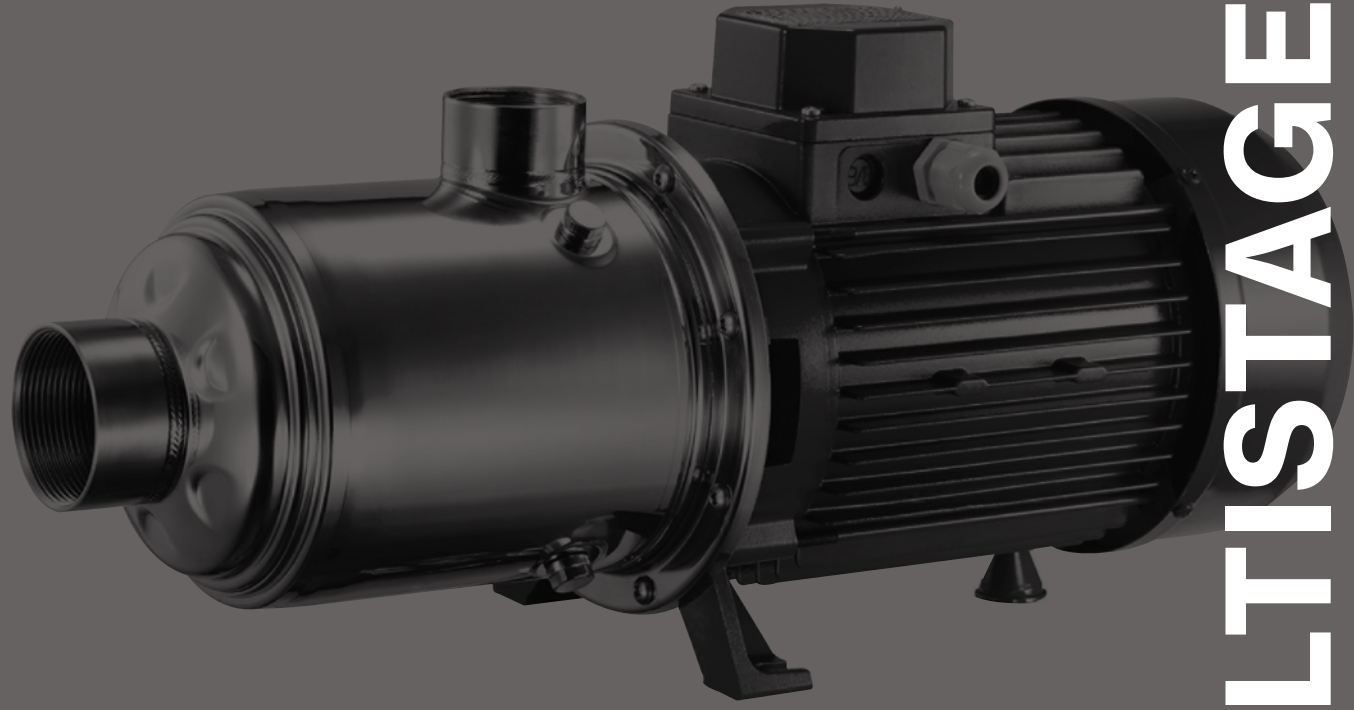
CA-4CA Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL				
	CA32-160C, CA32-160B, CA32-160A, CA40-125C, CA40-125B, CA40-125A	20mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Ceramic Graphite EPDM	- - -	SiC SiC EPDM	SiC SiC FKM	
	CA40-250BM, CA40-250AM	28mm	Rotating face Stationary face Elastomer	Ceramic Graphite EPDM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	
	CA32-200C, CA32-200B, CA32-200A, CA32-250C, CA32-250B, CA32-250A, CA40-160B, CA40-160A, CA40-200B, CA40-200A, CA40-250C, CA40-250B, CA40-250A, CA50-125B, CA50-125A, CA50-160B, CA50-160A, CA50-200C, CA50-200B, CA50-200A, CA50-250C, CA50-250B, CA50-250A, CA65-125B, CA65-125A, CA65-160C, CA65-160B, CA65-160A, CA65-200C, CA65-200B, CA65-200A, CA80-160E, CA80-160D, CA80-160C, CA80-160B, CA80-160A	28mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Ceramic Graphite EPDM	Ceramic Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	4CA50-315C, 4CA50-315B, 4CA50-315A, CA65-250B, CA65-250A, 4CA65-315CM, 4CA65-315BM, 4CA65-315AM, CA80-200B, CA80-200A, 4CA80-315B, 4CA80-315A, 4CA100-315	40mm	Rotating face Stationary face Elastomer	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	CA50-315DN, CA50-315CN, CA50-315BN, CA50-315AN, CA65-315CN, CA65-315BN, CA65-315AN, CA80-315BN, CA80-315AN	40mm	Rotating face Stationary face Elastomer	SiC SiC EPDM	- - -	- - -	- - -	SiC SiC FKM	
	CA80-250B, CA80-250A, CA100-200B, CA100-200A, CA100-250C, CA100-250B, CA100-250A, 4CA100-250E, 4CA125-250B, 4CA125-250A	45mm	Rotating face Stationary face Elastomer	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	4CA100-400C, 4CA100-400B, 4CA100-400A, 4CA125-315C, 4CA125-315B, 4CA125-315A, 4CA125-400C, 4CA125-400B, 4CA125-400A, 4CA150-315C, 4CA150-315B, 4CA150-315A, 4CA150-400B, 4CA150-400A	55mm	Rotating face Stationary face Elastomer	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	
	4CA200-315D, 4CA200-315C, 4CA200-315B, 4CA200-315A, 4CA200-400C, 4CA200-400B, 4CA200-400A, 4CA250-315C, 4CA250-315B, 4CA250-315A, 4CA250-400D, 4CA250-400C, 4CA250-400B, 4CA250-400A	70mm	Rotating face Stationary face Elastomer	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	

PUMP BEARINGS	PUMP MODEL	TYPE	
	CA32-160C, CA32-160B, CA32-160A, CA32-200C, CA32-200B, CA32-200A, CA32-250C, CA32-250B, CA32-250A, CA40-125C, CA40-125B, CA40-125A, CA40-160B, CA40-160A, CA40-200B, CA40-200A, CA40-250C, CA40-250B, CA40-250A, CA40-250BM, CA40-250AM, CA50-125B, CA50-125A, CA50-160B, CA50-160A, CA50-200C, CA50-200B, CA50-200A, CA50-250C, CA50-250B, CA50-250A, CA65-125B, CA65-125A, CA65-160C, CA65-160B, CA65-160A, CA65-200C, CA65-200B, CA65-200A, CA80-160E, CA80-160D, CA80-160C, CA80-160B, CA80-160A	6306-ZZ C3	6306-ZZ C3
	4CA50-315, CA65-250B, CA65-250A, 4CA65-315CM, 4CA65-315BM, 4CA65-315AM, CA80-200B, CA80-200A, 4CA80-315B, 4CA80-315A, 4CA100-315C, 4CA100-315B, 4CA100-315A	3208-ZZ C3	3208-ZZ C3
	CA50-315DN, CA50-315CN, CA50-315BN, CA50-315AN, CA65-315CN, CA65-315BN, CA65-315AN, CA80-250B, CA80-250A, CA80-315BN, CA80-315AN, CA100-200B, CA100-200A, CA100-250C, CA100-250B, CA100-250A, 4CA100-250E, 4CA125-250B, 4CA125-250A	6209-ZZ C3	6309-ZZ C3
	4CA100-400C, 4CA100-400B, 4CA100-400A, 4CA125-315C, 4CA125-315B, 4CA125-315A, 4CA125-400C, 4CA125-400B, 4CA125-400A, 4CA150-315C, 4CA150-315B, 4CA150-315A, 4CA150-400A, 4CA150-400B	6211-ZZ C3	6311-ZZ C3
	4CA200-315D, 4CA200-315C, 4CA200-315B, 4CA200-315A, 4CA200-400C, 4CA200-400B, 4CA200-400A, 4CA250-315C, 4CA250-315B, 4CA250-315A, 4CA250-400D, 4CA250-400C, 4CA250-400B, 4CA250-400A	6313-ZZ C3	6313-ZZ C3







MULTISTAGE HORIZONTAL

MULTISTAGE HORIZONTAL PUMPS

ULTRA 3/ULTRA 3S



ULTRA 5/ULTRA 5S



ULTRA 7/ULTRA 7S



ULTRA 9/ULTRA 9S

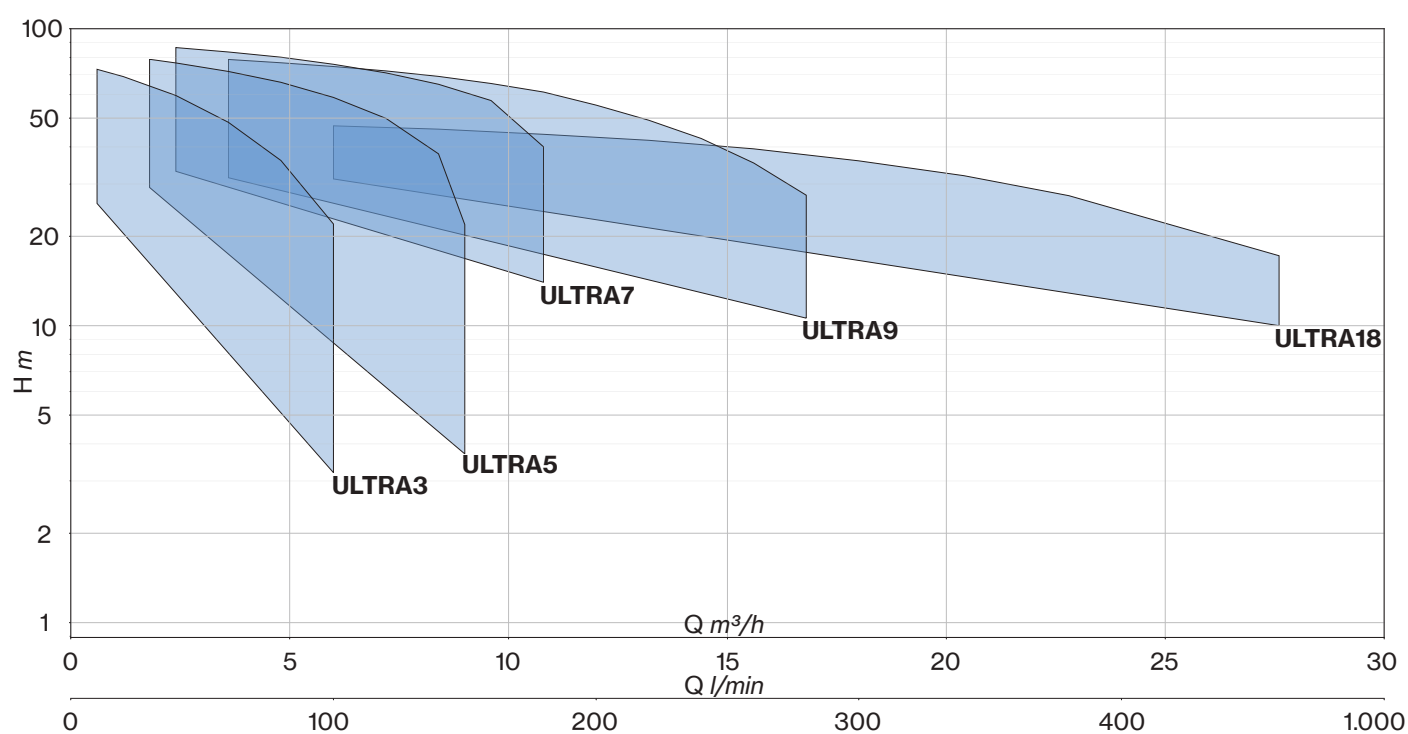


ULTRA 18/ULTRA 18S

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 (ULTRA) and in AISI 304 (ULTRA S).

Applications:

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



ULTRA

Multistage Horizontal

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

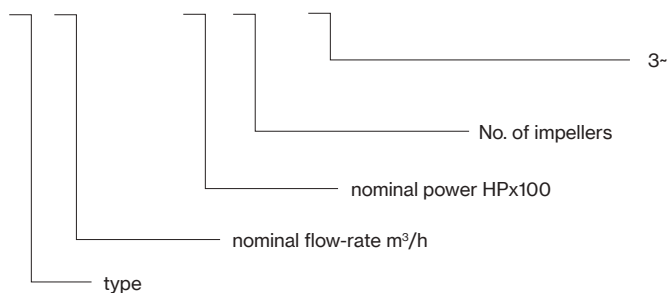
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impeller, diffusers	Noryl®
Mechanical seal	ceramic-graphite-EPDM ≤ 4 impellers graphite-silicon carbide-EPDM ≥ 5 impellers
Motor shaft	stainless steel AISI 303
Liquid temperature	-5 ÷ +35 °C
Operating pressure	max 8,5 bar

Motor

	3~ 220/380V - 60Hz
2 poles induction motor	1~ 220V - 60Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4



U 3 - 70/2 T



ULTRA 3



ULTRA 5



ULTRA 7



ULTRA 9



ULTRA 18



TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	0,6	1,2	2,4	3,6	4,8	6
								0	10	20	40	60	80	100
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
HP	kW	1~	3~											
U 3-70/2	U 3-70/2 T	0,7	0,51	0,71	0,6	3,4	1,0	27,8	25,8	23,6	18,9	13,9	8,6	3,2
U 3-80/3	U 3-80/3 T	0,8	0,6	1,08	0,96	5,1	1,7	44,4	42,3	40,1	34,3	27,4	19,8	11,1
U 3-120/4	U 3-120/4 T	1,2	0,9	1,44	1,37	6,8	2,7	60,5	57,6	54,3	46,6	37,7	27,8	16,7
U 3-150/5	U 3-150/5 T	1,5	1,1	1,79	1,72	8,1	3,1	76,5	73,0	69,0	59,6	48,4	36,0	22,0

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	1,8	2,4	3,6	4,8	6	7,2	8,4	9
								0	30	40	60	80	100	120	140	150
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 5-90/2	U 5-90/2 T	0,9	0,66	0,98	0,94	4,6	1,7	31,9	29,2	28,0	25,3	22,2	18,5	14,3	8,6	3,7
U5-120/3	U 5-120/3 T	1,2	0,9	1,42	1,35	6,7	2,7	47,0	44,0	42,5	38,9	34,7	30,1	24,9	17,6	11,3
U 5-180/4	U 5-180/4 T	1,8	1,3	1,93	1,78	9,2	3,2	65,8	62,2	60,1	55,7	50,6	44,6	37,2	27,5	14,3
U 5-250/5	U 5-250/5 T	2,5	1,85	2,5	2,29	11,7	4,2	83,2	78,9	76,7	71,8	66,0	58,7	49,9	37,9	21,9

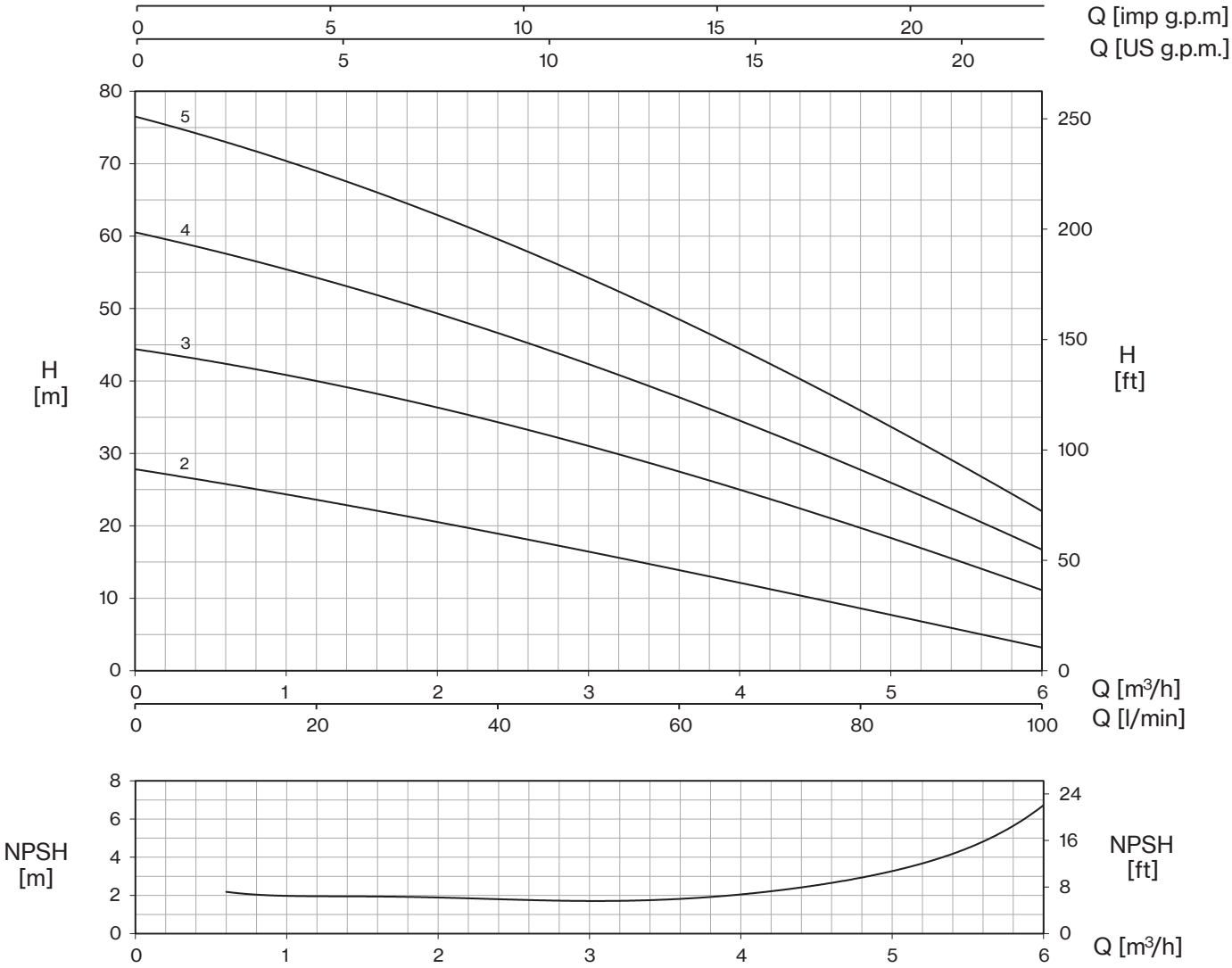
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8
								0	40	60	80	100	120	140	160	180
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 7-120/2	U 7-120/2 T	1,2	0,9	1,50	1,4	7,1	2,7	35,2	33,1	32,3	30,2	28,0	25,5	22,5	19,1	14,0
U 7-200/3	U 7-200/3 T	2	1,5	2,28	2,12	10,5	3,8	54,1	52,3	50,3	48,0	45,2	41,9	38,1	33,2	23,0
U 7-300/4	U 7-300/4 T	3	2,2	3,09	2,81	14,3	5,2	71,8	68,9	66,0	62,9	59,1	54,6	49,2	42,7	31,0
-	U 7-400/5 T	4	3	-	3,65	-	7,0	89,5	86,4	83,5	80,2	75,9	71,0	65,0	57,3	40,0

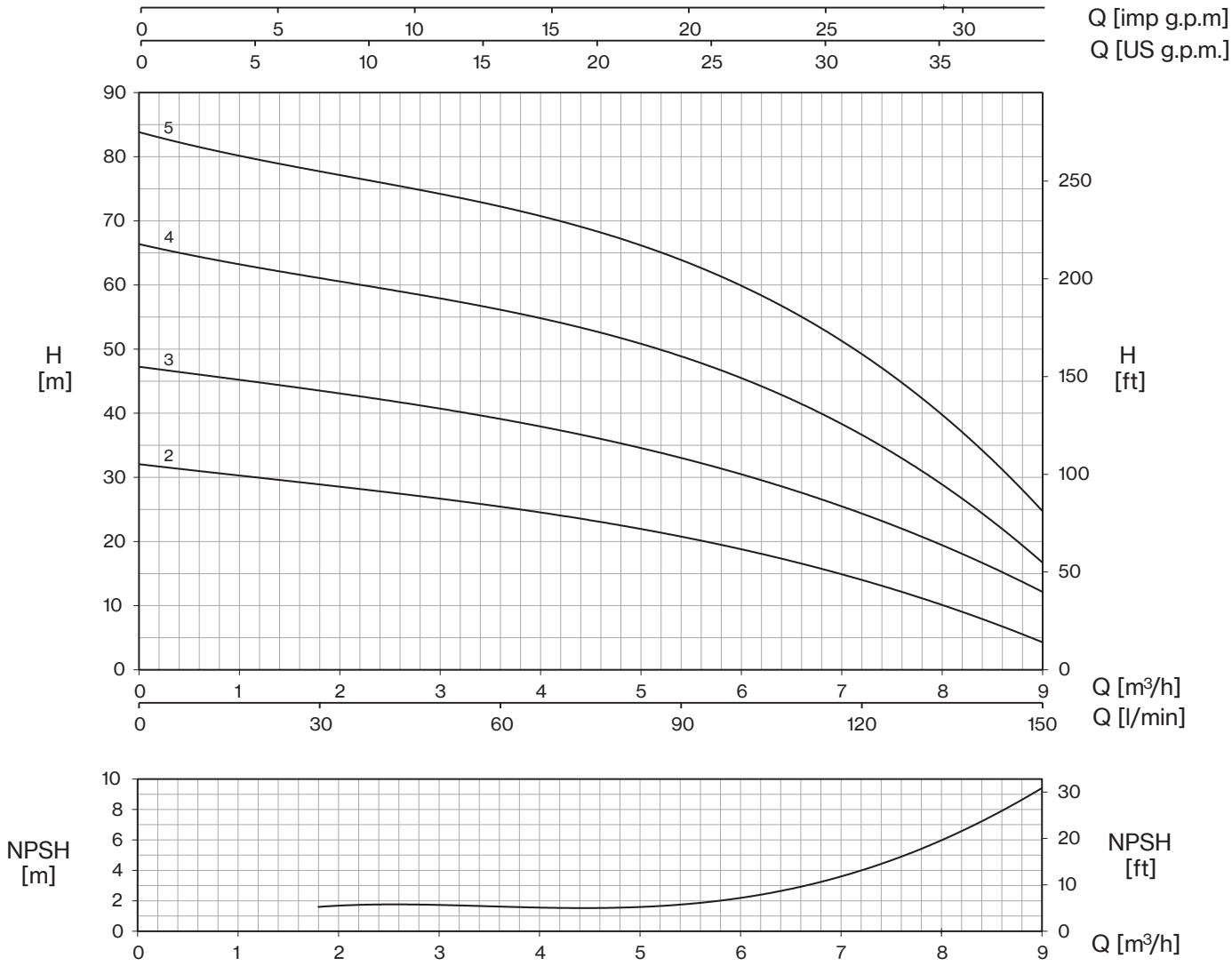
TYPE		P2		P1 (kW)		A		Q (m³/h - l/min)													
1~	3~					1~	3~	0	3,6	4,8	6	7,2	8,4	9,6	10,8	12,0	13,2	14,4	15,6	16,8	
								0	60	80	100	120	140	160	180	200	220	240	260	280	
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)													
HP	kW	1~	3~																		
U 9-180/2	U 9-180/2 T	1,8	1,3	1,6	1,57	7,5	2,9	33,9	31,5	30,5	29,5	28,3	27,0	25,4	23,7	21,7	19,2	16,5	13,5	10,6	
U 9-200/3	U 9-200/3 T	2	1,5	2,50	2,22	11,7	3,9	50,9	47,3	45,8	44,3	42,7	40,8	38,5	35,9	32,6	28,9	24,9	20,8	16,1	
U 9-350/4	U 9-350/4 T	3,5	2,57	3,24	2,91	15,0	5,5	67,4	62,1	60,2	58,3	56,3	53,8	50,8	47,3	42,8	38,0	32,8	27,2	21,0	
-	U 9-400/5 T	4	3	-	3,8	-	7,1	84,8	78,8	76,8	74,6	72,1	69,1	65,4	61,2	55,3	49,2	42,7	35,3	27,5	

TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)													
3~				3~	0	6	8,4	10,8	13,2	15,6	18	20,4	22,8	25,2	27,6			
					0	100	140	180	220	260	300	340	380	420	460			
				3x380 V 60 Hz	H (m)													
(HP)	(kW)	3~																
U 18-250/2 T	2,5	1,85	2,5	4,5	33,2	31,2	30,3	28,8	27,0	24,9	22,3	19,8	16,8	13,7	10,0			
U 18-400/3 T	4	3	3,7	7,3	49,7	47,1	45,9	44,1	42,1	39,4	35,9	32,0	27,4	22,2	17,2			

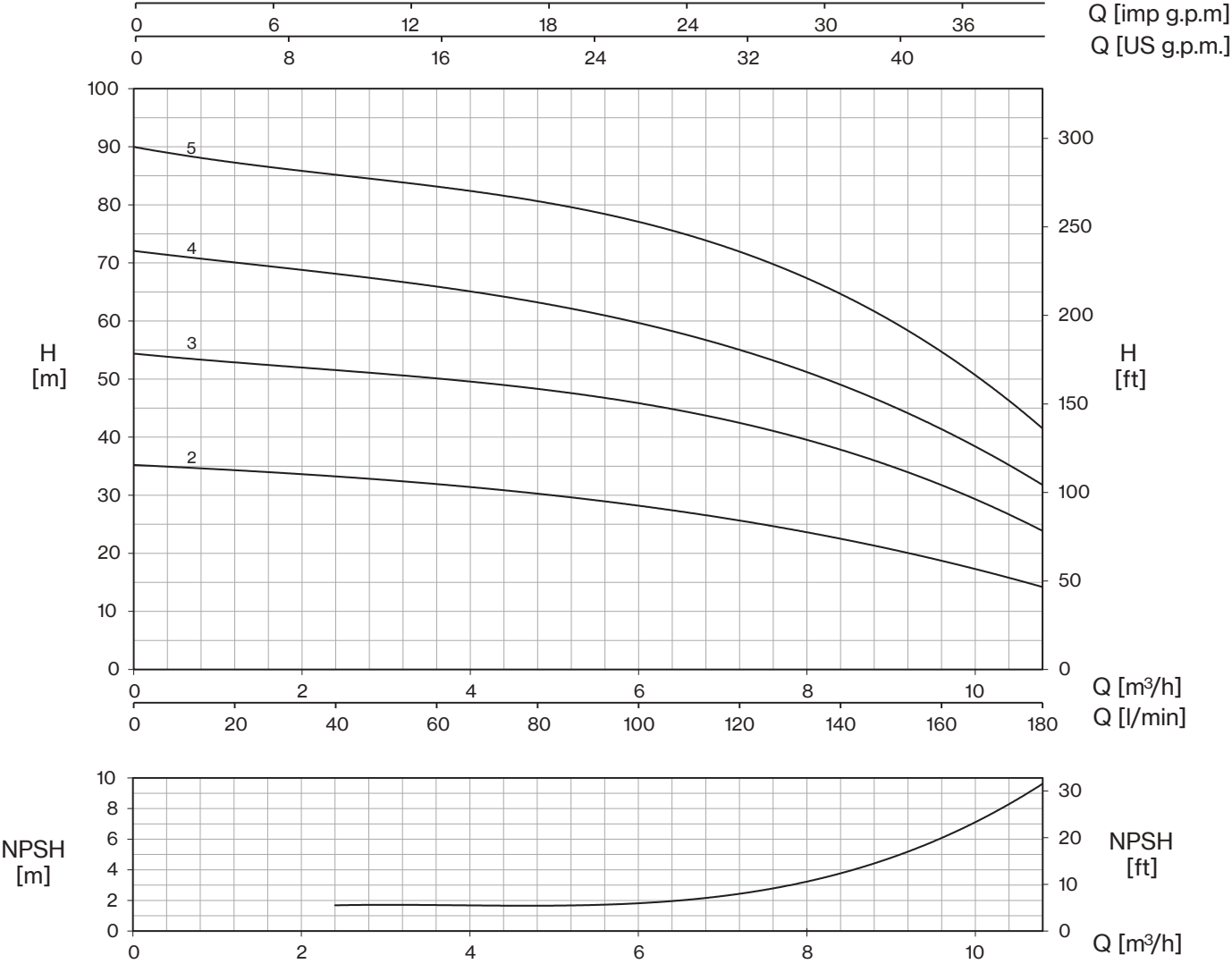


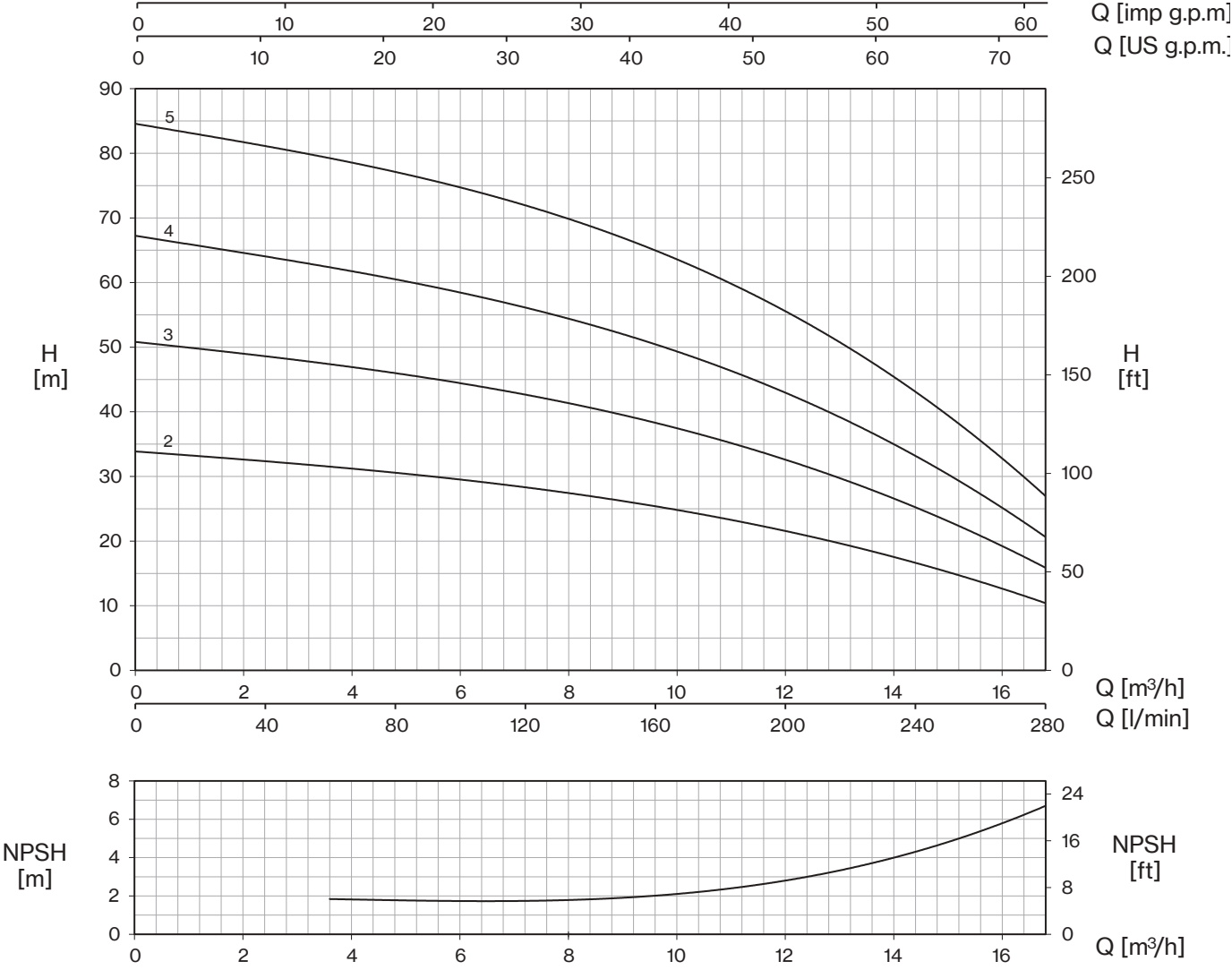
ULTRA 3



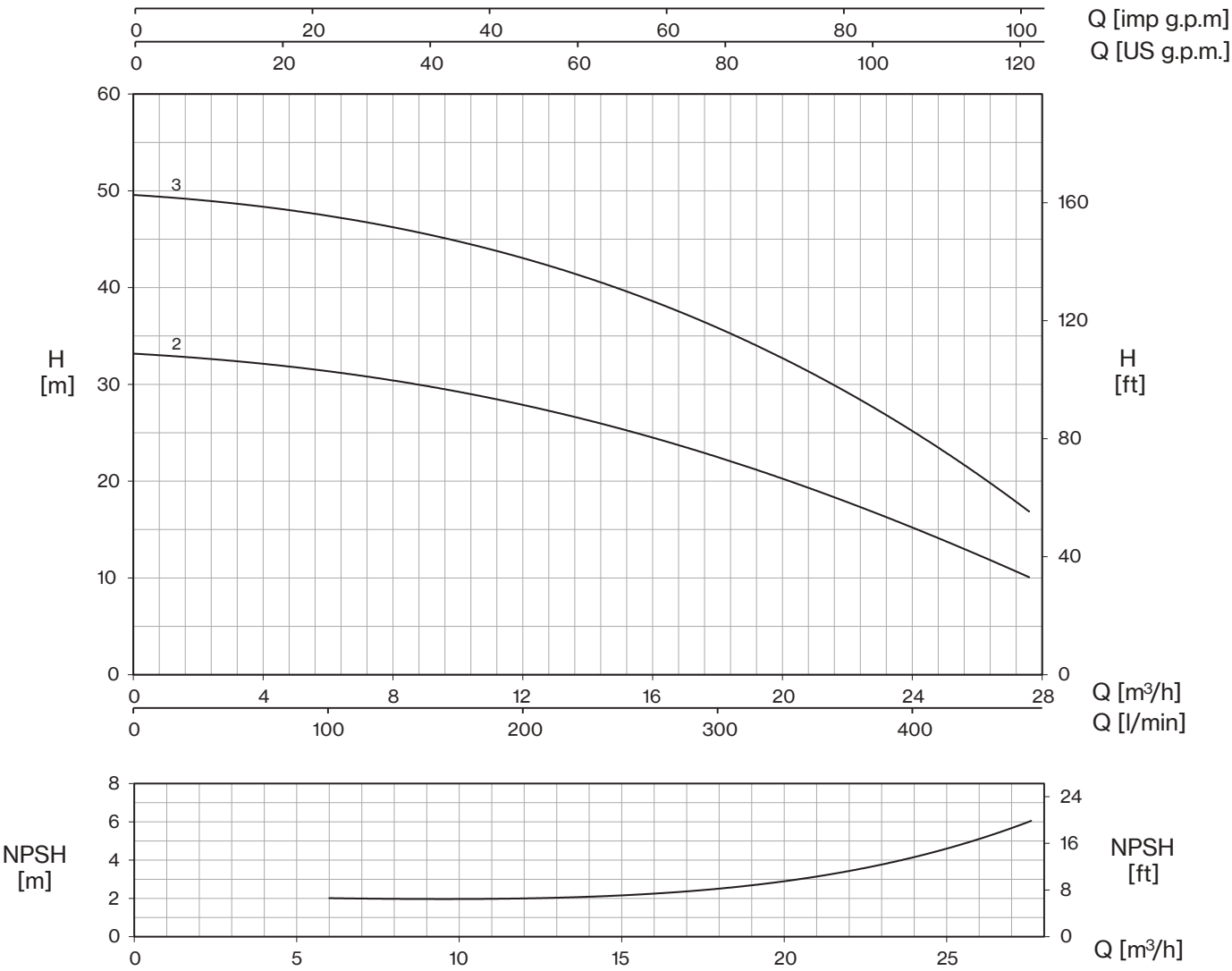


ULTRA 7





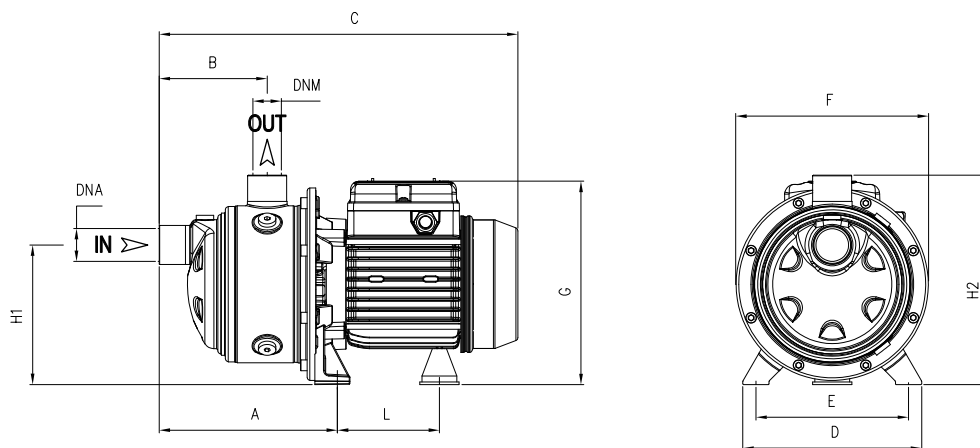
ULTRA 18



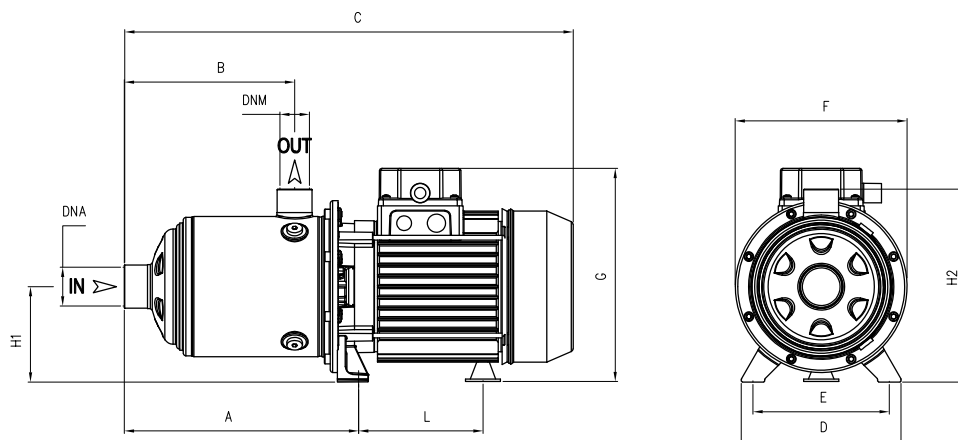
1~ 110V - 60Hz	
TYPE	I (A)
U3-70/2	6,8
U3-80/3	10,2
U3-120/4	13,6
U5-90/2	9,2
U5-120/3	13,4
U7-120/2	14,2

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3-70/2	80×120×150	84	80×120×175	96
U 3-80/3-120/4	85×110×160	70	85×110×185	80
U 3-150/5	90×110×150	54	90×110×170	63
U 5-90/2	80×120×150	84	80×120×175	96
U 5-120/3	85×110×160	70	85×110×185	80
U 5-180/4-250/5	90×110×150	54	90×110×170	63
U 7-120/2	85×110×160	70	85×110×185	80
U 7-200/3-300/4 T	90×110×150	54	90×110×170	63
U 7-300/4-400/5 T	80×120×145	35	80×120×170	42
U 9-180/2-200/3	90×110×150	54	90×110×170	63
U 9-350/4-400/5 T	80×120×145	35	80×120×170	42
U 18-250/2 T-400/3 T	90×110×150	54	90×110×170	63

ULTRA



TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM		
U 3-70/2	166,8	103	333	164	140	178	190	93,7	128	192	1" G	1" G	7	
U 3-80/3	166,8	103	356	164	140	178	203	104,7	128	192			9,5	
U 3-120/4	190,8	127	380	164	140	178	203	104,7	128	192			11	
U 3-150/5	214,8	151	465	164	140	201	211	128,2	134	198			13,5	
U 5-90/2	166,8	103	333	164	140	178	190	93,7	128	192			8	
U 5-120/3	166,8	103	356	164	140	178	203	104,7	128	192			10,5	
U 5-180/4	190,8	127	441	164	140	201	211	128,2	134	198			14	T 13,5
U 5-250/5	214,8	151	465	164	140	201	211	128,2	134	198			15,5	T 15



TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM		
U 7-120/2	166,8	103	356	164	140	178	203	104,7	92	192	1" ¼ G	1" G	10,5	
U 7-200/3	166,8	103	417	164	140	201	211	128,2	98	198			14,5	T 13,5
U 7-300/4	190,8	127	495 T 441	164	140	201	229 T 211	148,2 T 128,2	103 T 98	203 T 198			17,5	T 15,5
U 7-400/5	214,8	151	519	164	140	201	229	148,2	103	203			20,5	
U 9-180/2	185,8	118	436	164	140	201	211	128,2	98	198	1" ½ G	1" ¼ G	14	T 13
U 9-200/3	185,8	118	436	164	140	201	211	128,2	98	198			14,5	T 14
U 9-350/4	215,8	148	520	164	140	201	229	148,2	103	203			20	T 17,5
U 9-400/5 T	245,8	178	550	164	140	201	229	148,2	103	203			24	
U 18-250/2 T	201	141	462	164	140	201	211	128,2	98	198	2" G	1" ½ G	14,5	
U 18-400/3 T	238,5	141	516	164	140	201	229	148,2	103	203			20	



ULTRA S

Multistage Horizontal

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

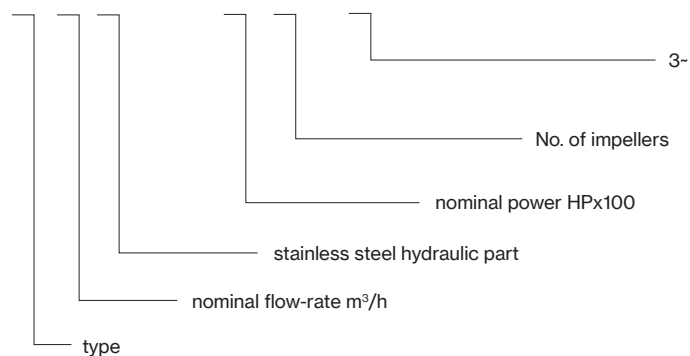
Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impeller, diffusers	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM ≤ 4 impellers graphite-silicon carbide-EPDM ≥ 5 impellers
Motor shaft	stainless steel AISI 303
Liquid temperature	-15 ÷ +110 °C
Operating pressure	max 8,5 bar

Motor

	3~ 220/380V - 60Hz
2 poles induction motor	1~ 220V - 60Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4



U 3 S - 70/2 T



ULTRA 3S



ULTRA 5S



ULTRA 7S



ULTRA 9S



ULTRA 18S



ULTRA S

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	0,6	1,2	2,4	3,6	4,8	6
								0	10	20	40	60	80	100
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
HP	kW	1~	3~											
U 3S-70/2	U 3S-70/2 T	0,7	0,51	0,65	0,57	3,0	1,0	30,3	28,7	26,7	22,2	16,8	11,0	5,2
U 3S-80/3	U 3S-80/3 T	0,8	0,6	0,95	0,86	4,6	1,6	47,0	46,3	44,1	38,4	31,3	22,8	12,7
U 3S-120/4	U 3S-120/4 T	1,2	0,9	1,27	1,21	6,0	2,5	64,6	62,9	60,3	52,7	43,2	31,9	18,1
U 3S-150/5	U 3S-150/5 T	1,5	1,1	1,60	1,53	7,3	2,8	81,5	79,3	76,1	67,4	55,7	41,6	24,6

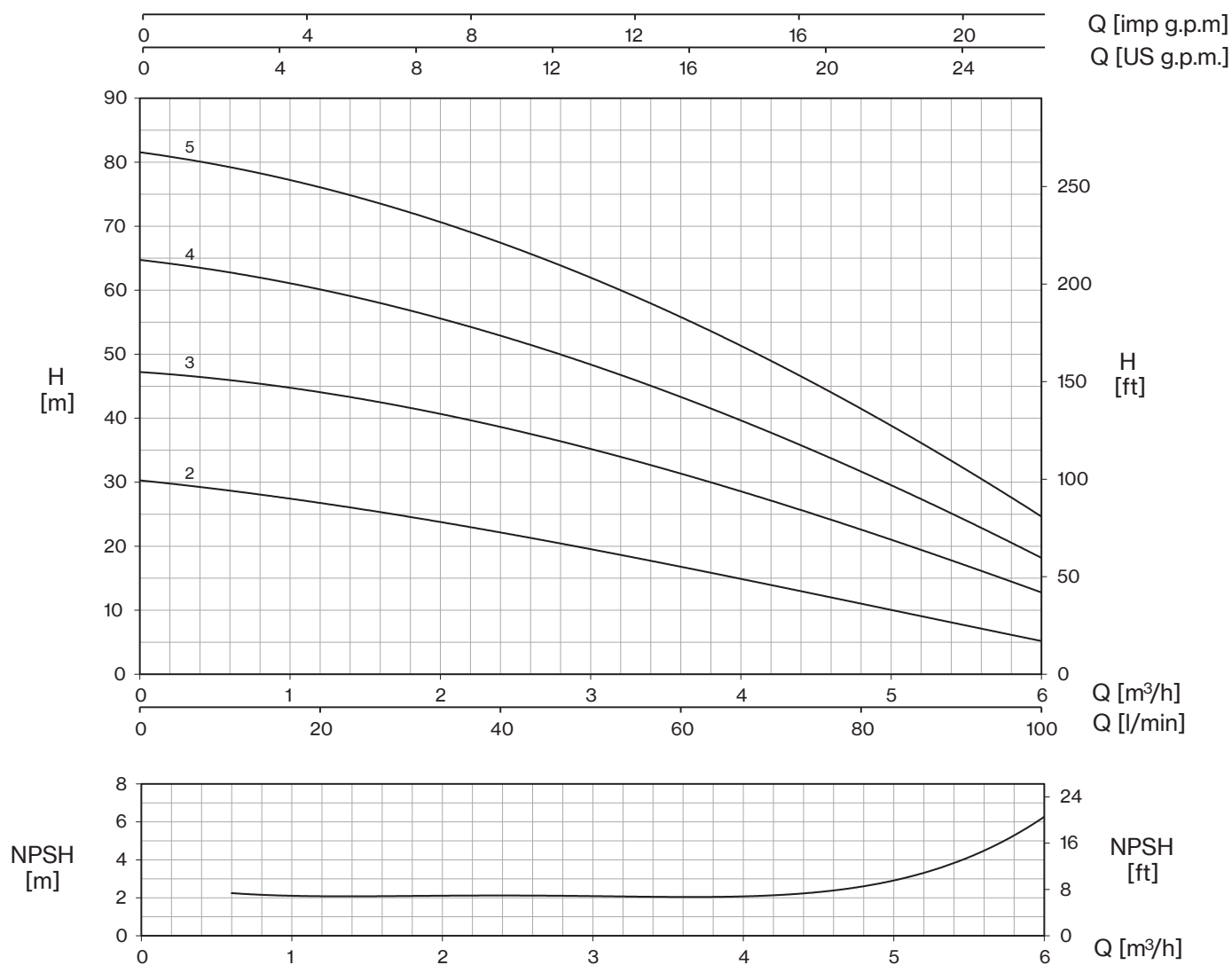
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	1,8	2,4	3,6	4,8	6	7,2	8,4	9
								0	30	40	60	80	100	120	140	150
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 5S-90/2	U 5S-90/2 T	0,9	0,66	0,95	0,92	4,4	1,7	32,6	30,4	29,3	26,9	24,1	20,7	17,0	12,1	8,5
U 5S-120/3	U 5S-120/3 T	1,2	0,9	1,37	1,30	6,4	2,6	49,4	46,1	44,6	41,4	37,4	32,8	27,3	20,5	12,8
U 5S-180/4	U 5S-180/4 T	1,8	1,3	1,84	1,72	8,6	3,1	66,2	63,2	61,6	58,0	53,6	48,3	41,3	32,5	26,7
U 5S-250/5	U 5S-250/5 T	2,5	1,85	2,38	2,20	11,2	4,1	83,6	79,6	77,7	73,4	68,2	61,5	53,0	41,5	34,6

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	11,4
								0	40	60	80	100	120	140	160	180	190
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
HP	kW	1~	3~														
U 7S-120/2	U 7S-120/2 T	1,2	0,9	1,46	1,39	6,9	2,7	34,2	32,8	32,0	30,5	28,3	25,8	23,0	19,8	16,0	13,7
U 7S-200/3	U 7S-200/3 T	2	1,5	2,29	2,10	10,5	3,8	51,7	50,8	50,0	48,6	46,2	43,2	39,7	35,4	30,0	23,0
U 7S-300/4	U 7S-300/4 T	3	2,2	3,01	2,77	14,2	5,2	69,5	67,7	66,8	65,0	62,2	58,2	53,4	47,8	40,0	31,8
-	U 7S-400/5 T	4	3	-	3,52	-	6,9	87,1	85,2	84,1	82,3	79,1	74,7	68,9	61,8	52,0	41,0

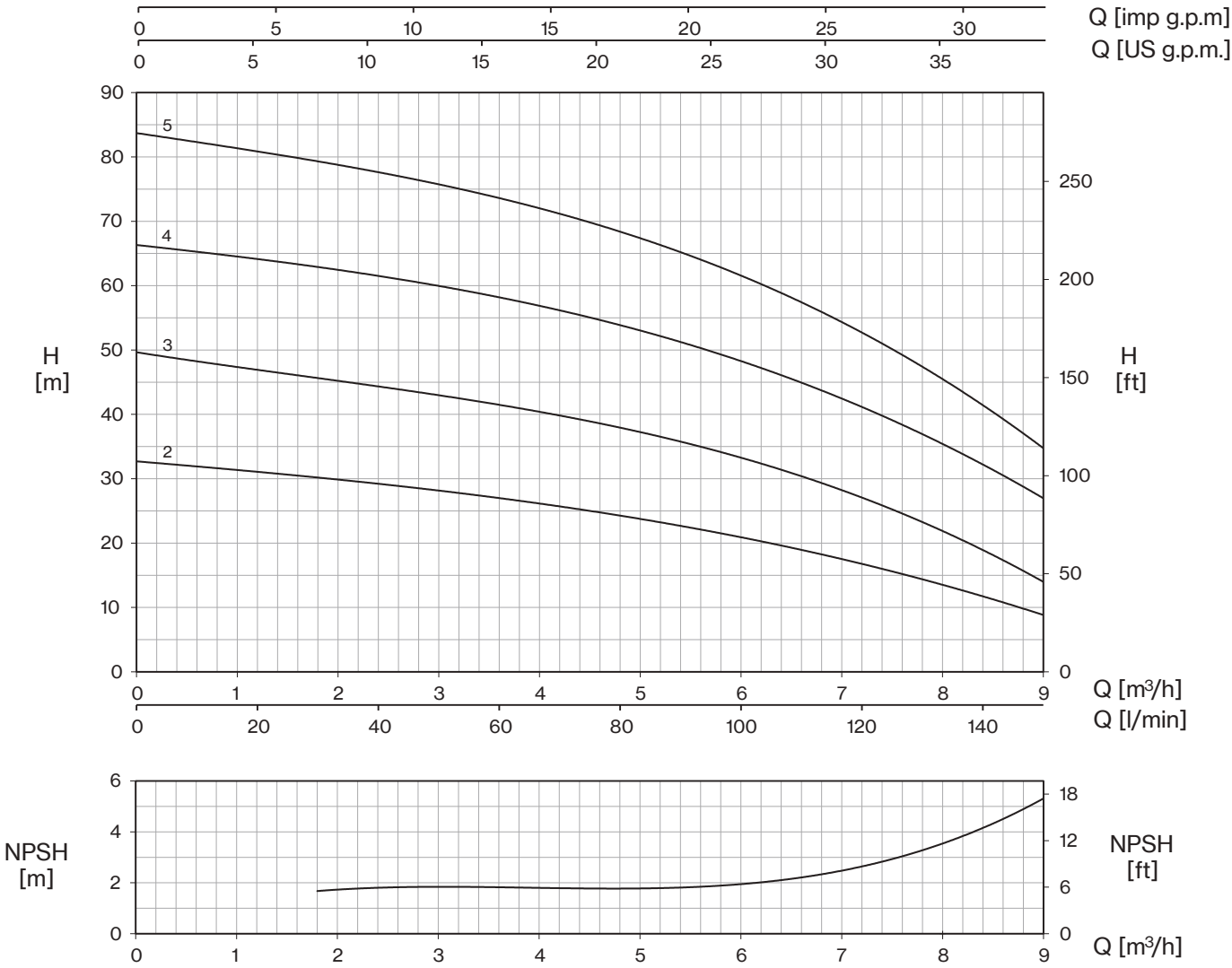
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)												
1~	3~					1~	3~	0	3,6	4,8	6	7,2	8,4	9,6	10,8	12,0	13,2	14,4	15,6	16,8
								0	60	80	100	120	140	160	180	200	220	240	260	280
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)												
HP	kW	1~	3~																	
U 9S-180/2	U 9S-180/2 T	1,8	1,3	1,65	1,58	7,7	2,9	34,7	31,2	30,3	29,2	28,0	26,8	25,2	23,5	21,6	18,8	15,9	13,1	10,0
U 9S-200/3	U 9S-200/3 T	2	1,5	2,41	2,23	11,2	3,9	51,3	47,4	46,2	44,8	43,0	41,2	39,2	36,9	33,9	30,3	26,2	21,6	16,7
U 9S-350/4	U 9S-350/4 T	3,5	2,57	3,23	2,91	14,7	5,4	69,6	62,7	60,8	58,7	56,4	53,9	51,3	48,5	44,2	39,2	33,8	27,8	21,5
-	U 9S-400/5 T	4	3	-	3,70	-	7,1	86,5	79,4	77,3	74,9	72,2	69,2	65,9	62,3	57,2	51,3	44,3	36,3	28,1

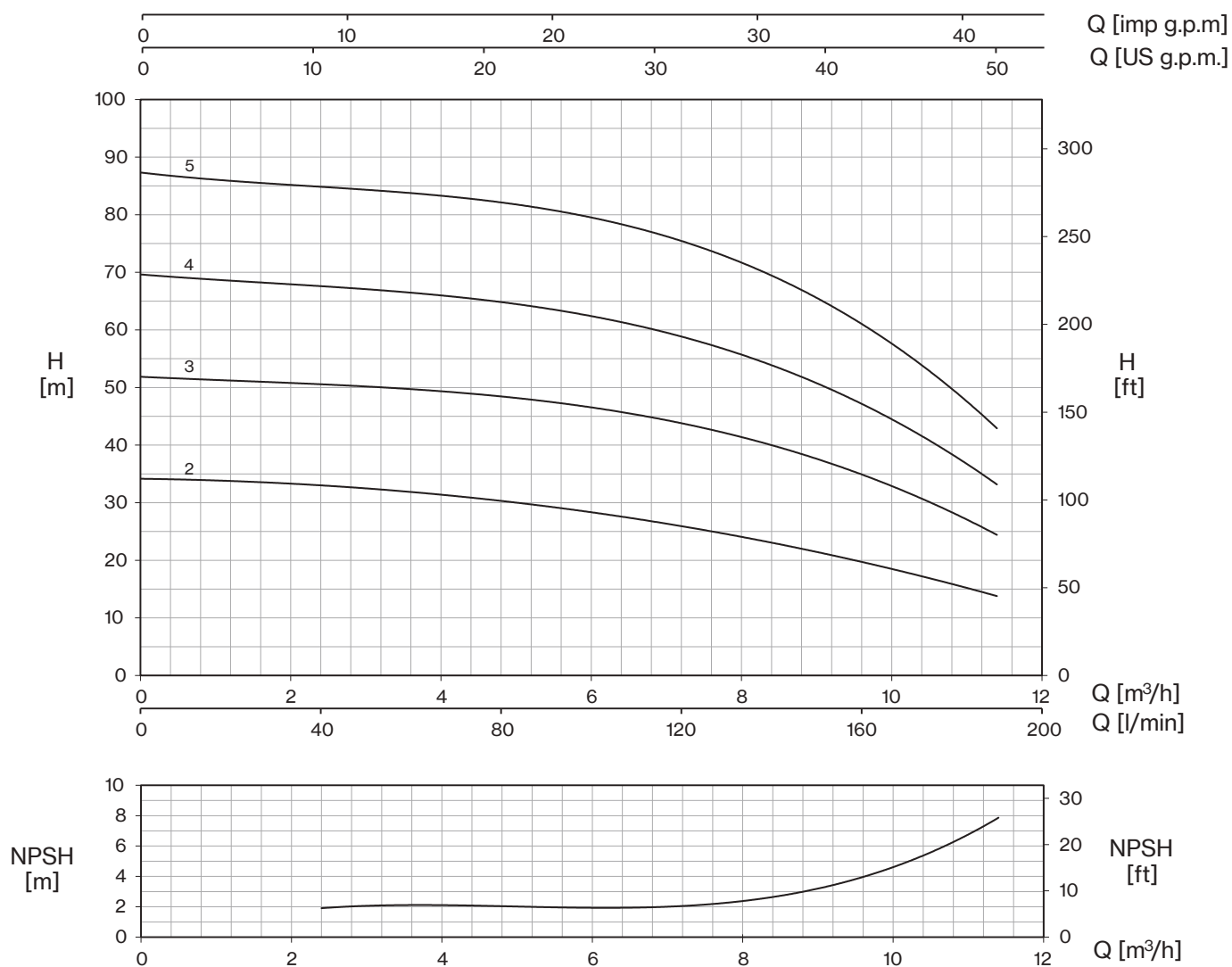
TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)											
3~				0	6	8,4	10,8	13,2	15,6	18	20,4	22,8	25,2	27,6		
				0	100	140	180	220	260	300	340	380	420	460		
				3x380 V 60 Hz	H (m)											
HP	kW	3~														
U 18S-250/2 T	2,5	1,85	2,6	4,7	34,2	31,8	30,5	29,1	27,5	25,7	23,9	21,9	19,6	16,7	12,8	
U 18S-400/3 T	4	3	3,9	7,7	50,0	47,0	45,1	43,1	40,8	38,4	35,9	33,1	29,9	25,5	20,5	



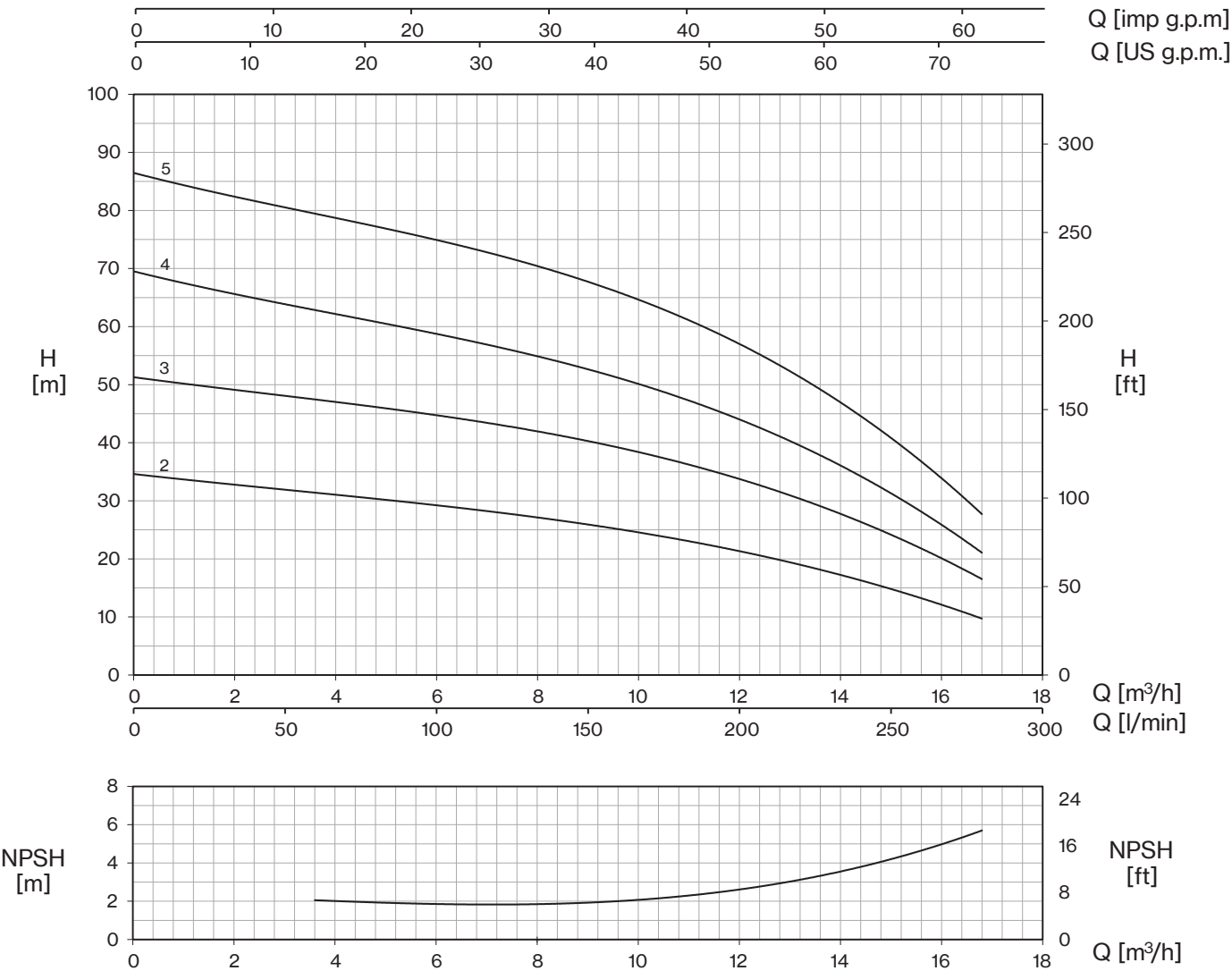


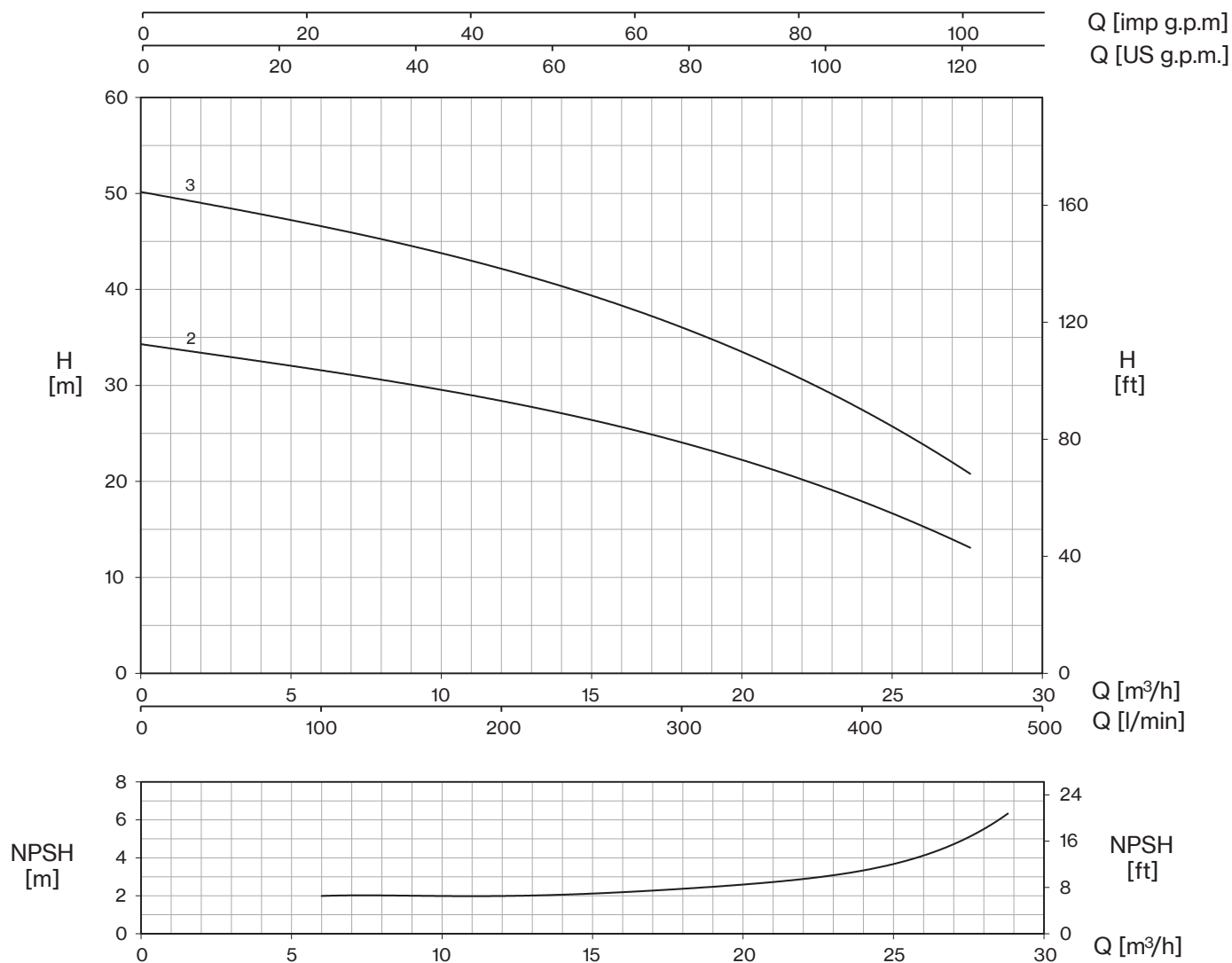
ULTRA 5S





ULTRA 9S



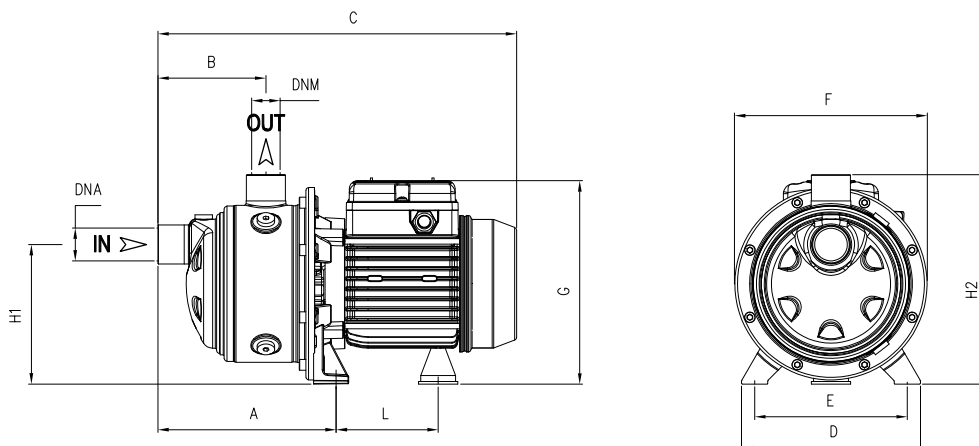


ULTRA S

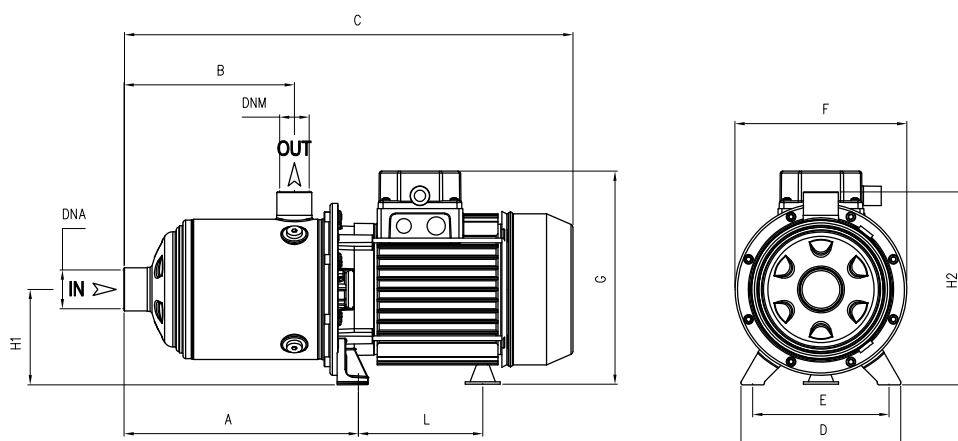
1~ 110V - 60Hz	
TYPE	I (A)
U 5S-90/2	8,8
U 5S-120/3	12,8
U 7S-120/2	13,8

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3S-70/2	80×120×150	84	80×120×175	96
U 3S-80/3-120/4	85×110×160	70	85×110×185	80
U 3S-150/5	90×110×150	54	90×110×170	63
U 5S-90/2	80×120×150	84	80×120×175	96
U 5S-120/3	85×110×160	70	85×110×185	80
U 5S-180/4-250/5	90×110×150	54	90×110×170	63
U 7S-120/2	85×110×160	70	85×110×185	80
U 7S-200/3-300/4 T	90×110×150	54	90×110×170	63
U 7S-300/4-400/5 T	80×120×145	35	80×120×170	42
U 9S-180/2-200/3	90×110×150	54	90×110×170	63
U 9S-350/4-400/5 T	80×120×145	35	80×120×170	42
U 18S-250/2 T-400/3 T	90×110×150	54	90×110×170	63





TYPE	DIMENSIONS (mm)												 Kg	
	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM		
U 3S-70/2	166,8	103	333	164	140	178	190	93,7	128	192	1" G	1" G	7,5	
U 3S-80/3	166,8	103	356	164	140	178	203	104,7	128	192			10	
U 3S-120/4	190,8	127	380	164	140	178	203	104,7	128	192			12	
U 3S-150/5	214,8	151	465	164	140	201	211	128,2	134	198			15	
U 5S-90/2	166,8	103	333	164	140	178	190	93,7	128	192			8,5	
U 5S-120/3	166,8	103	356	164	140	178	203	104,7	128	192			11,5	
U 5S-180/4	190,8	127	441	164	140	201	211	128,2	134	198			15	T 14
U 5S-250/5	214,8	151	465	164	140	201	211	128,2	134	198			16,5	



TYPE	DIMENSIONS (mm)													
	A	B	C	D	E	F	G	L	H1	H2	DNA	DNM		
U 7S-120/2	166,8	103	356	164	140	178	203	104,7	92	192	1" ¼ G	1" G	11	
U 7S-200/3	166,8	103	417	164	140	201	211	128,2	98	198			15,5	T 14,5
U 7S-300/4	190,8	127	495 T 441	164	140	201	229 T 211	148,2 T 128,2	103 T 98	203 T 198			18	T 16,5
U 7S-400/5	214,8	151	519	164	140	201	229	148,2	103	203			21,5	
U 9S-180/2	185,8	118	436	164	140	201	211	128,2	98	198	1" ½ G	1" ¼ G	14,5	T 13,5
U 9S-200/3	185,8	118	436	164	140	201	211	128,2	98	198			15,5	T 14,5
U 9S-350/4	215,8	148	520	164	140	201	229	148,2	103	203			21,5	T 19
U 9S-400/5	245,8	178	550	164	140	201	229	148,2	103	203			25,5	
U 18S-250/2	201	141	462	164	140	201	211	128,2	98	198	2" G	1" ½ G	15,5	
U 18S-400/3	238,5	141	516	164	140	201	229	148,2	103	203			21	

ULTRA (S) Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL
	U3-70/2, U3-80/3, U3-120/4, U5-90/2, U5-120/3, U5-180/4, U7-120/2, U7-200/3, U7-300/4, U9-180/2, U9-200/3, U9-350/4, U18-250/2, U18-400/3	14mm / S	Rotating face Stationary face Elastomer	Graphite Ceramic EPDM	SiC SiC EPDM
	U3-150/5, U5-250/5, U7-400/5, U9-400/5	14mm	Rotating face Stationary face Elastomer	Graphite SiC EPDM	SiC SiC EPDM

BEARINGS	PUMP MODEL	TYPE	
	U3-70/2, U 5-90/2	6201-ZZ	6202-ZZ
	U3-80/3, U3-120/4, U5-120/3, U 7-120/2	6202-ZZ	6302-ZZ C3
	U3-150/5, U 5-180/4, U5-250/5, U7-200/3, 3- U7-300/4, U 9-180/2, U9-200/3, U18-250/2	6204-ZZ	6304-ZZ C3
	1- U7-300/4, U7-400/5, U9-350/4, U9-400/5, U18-400/3	6203-ZZ	6305-ZZ C3

ULTRA (S)+VSD

Horizontal booster pump with variable speed



DESCRIPTION

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

FEATURES

- EPIC variable speed drive provided on board
- Horizontal pump of ULTRA 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 ULTRA pump models available for the assembly with EPIC. Consult the catalog at the ULTRA series for pump specifics and characteristic curves.

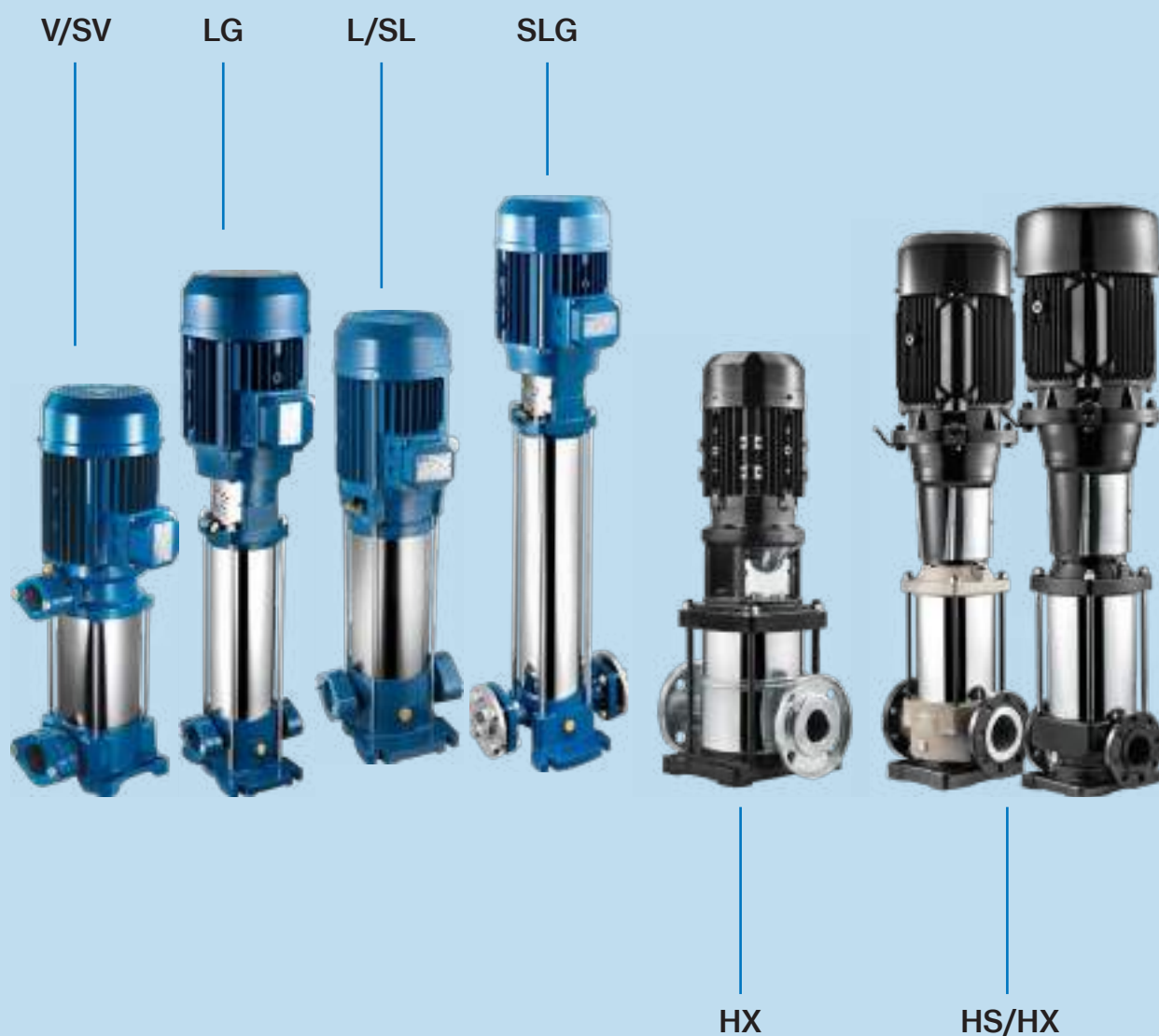
PUMP		VSD		
ULTRA	ULTRA S	TYPE	Power system	
			in	out
U 3-70/2T	U 3S-70/2T	EPIC	220 1~	220 3~
U 3-80/3T	U 3S-80/3T	EPIC	220 1~	220 3~
U 3-120/4T	U 3S-120/4T	EPIC	220 1~	220 3~
U 3-150/5T	U 3S-150/5T	EPIC	220 1~	220 3~
U 5-90/2T	U 5S-90/2T	EPIC	220 1~	220 3~
U 5-120/3T	U 5S-120/3T	EPIC	220 1~	220 3~
U 5-180/4T	U 5S-180/4T	EPIC	220 1~	220 3~
U 5-250/5T	U 5S-250/5T	EPIC	220 1~	220 3~
U 9-180/2T	U 9S-180/2T	EPIC	220 1~	220 3~
U 9-200/3T	U 9S-200/3T	EPIC	220 1~	220 3~





MULTISTAGE VERTICAL

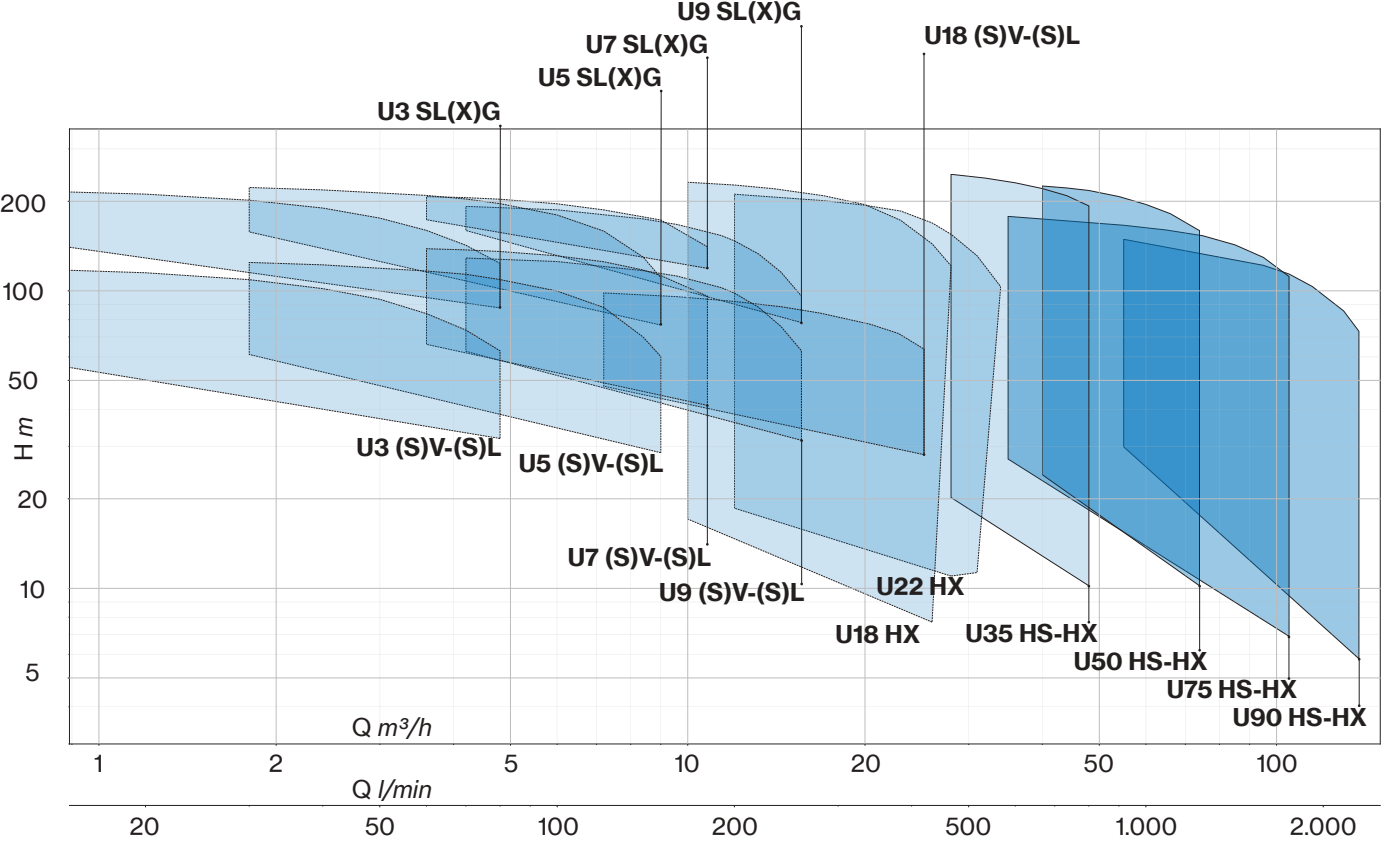
MULTISTAGE VERTICAL PUMPS



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



ULTRA V/L

Multistage Vertical



ULTRA V



ULTRA 3-5-7 L



ULTRA 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

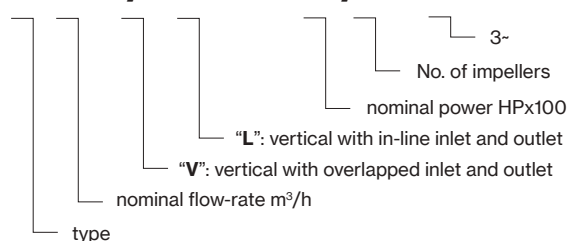
Pump body	cast iron
Motor bracket	cast iron
Impellers, diffusers	Noryl®
Shell, motor shaft	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM graphite-silicon carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	+5 ÷ +35 °C
Max operating pressure	8 bar ≤ 4 impellers; 14 bar ≥ 5 impellers
Pump body gasket	EPDM

Motor

	3~ 220/380V - 60Hz
2 pole induction motor	1~ 220V - 60Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4 IPX5 ≥ 4,5 HP



U 3 V/ L - 120/4 T



ULTRA LG

Multistage Vertical

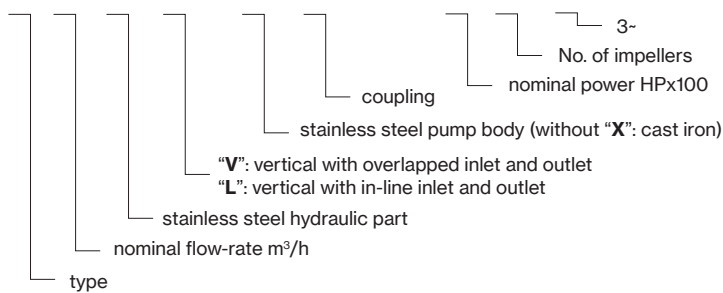
Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

Construction features	
Pump body	cast iron
Motor bracket	cast iron
Impellers, diffusers	Noryl®
Shell, motor shaft	stainless 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 pole induction motor	3~ 220/380V - 60Hz
Insulation class	F
Protection degree	IPX5



U18 S V/ X/ G - 950/7 T



ULTRA V/L - ULTRA LG

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8
						1~	3~	0	10	20	30	40	50	60	70	80
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 3...120/4	U 3...120/4T	1,2	0,9	1,5	1,4	6,9	2,8	60,5	57,6	54,3	50,5	46,6	41,9	37,7	32,7	27,8
U 3...150/5	U 3...150/5T	1,75	1,29	1,6	1,5	7,5	3,3	79,2	78,8	76,5	72,8	68,4	62,8	56,6	49,3	41,2
U 3...200/6	U 3...200/6T	2,5	1,84	1,9	1,8	8,9	3,7	95,1	95,2	91,9	87,7	82,4	75,4	68,3	59,4	50,1
U 3...250/7	U 3...250/7T	2,5	1,84	2,2	2,0	10,4	4,0	110,6	109,9	106,6	101,3	94,8	86,6	78,0	67,5	55,9
U 3...300/8	U 3...300/8T	3	2,2	2,7	2,4	13,5	4,8	126,5	125,2	122,4	116,5	109,4	100,6	90,5	78,8	65,1

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	1,8	2,4	3	3,6	4,2	4,8	6	7,2	8,4
								0	30	40	50	60	70	80	100	120	140
								1x220 V 60 Hz	3x380 V 60 Hz	H (m)							
HP	kW	1~	3~														
U 5...180/4	U 5...180/4T	1,75	1,29	1,9	1,8	9,1	3,6	66,0	64,2	63,2	61,7	59,9	58,6	55,5	49,8	42,0	32,2
U 5...250/5	U 5...250/5T	2,5	1,84	2,4	2,2	11,1	4,3	82,9	80,4	79,0	77,4	74,9	72,6	69,4	61,9	52,1	40,5
U 5...300/6	U 5...300/6T	3	2,2	3,0	2,6	15,1	5,1	99,8	96,8	95,1	92,8	90,1	87,7	83,2	74,4	62,5	47,9
-	U 5...350/7T	3,5	2,57	-	3,2	-	6,0	116,5	113,7	111,6	109,1	106,3	101,9	98,6	87,7	73,7	57,3
-	U 5...400/8T	4	3	-	3,6	-	6,9	134,7	131,1	129,2	126,1	123,0	118,4	114,1	101,7	86,0	66,5

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	3,6	4,2	4,8	6	7,2	8,4	9	9,6
								0	60	70	80	100	120	140	150	160
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 7...300/4	U 7...300/4T	3	2,2	2,9	2,6	14,5	5,1	71,1	68,5	67,4	65,9	62,2	57,3	51,4	48,0	44,3
-	U 7...400/5T	4	3	-	3,4	-	6,5	91,3	90,1	89,1	87,6	83,3	77,5	70,5	66,5	62,2
-	U 7...450/6T	4,5	3,37	-	4,2	-	7,7	110,1	108,5	107,2	105,3	100,2	93,5	85,5	80,9	75,9
-	U 7...550/7T	5,5	4	-	4,8	-	9,0	129,1	127,4	125,7	123,6	117,4	108,9	98,6	92,9	86,7
-	U 7...750/8T	7,5	5,5	-	5,6	-	10,8	148,2	147,2	145,8	143,6	137,3	128,8	118,5	112,8	106,6

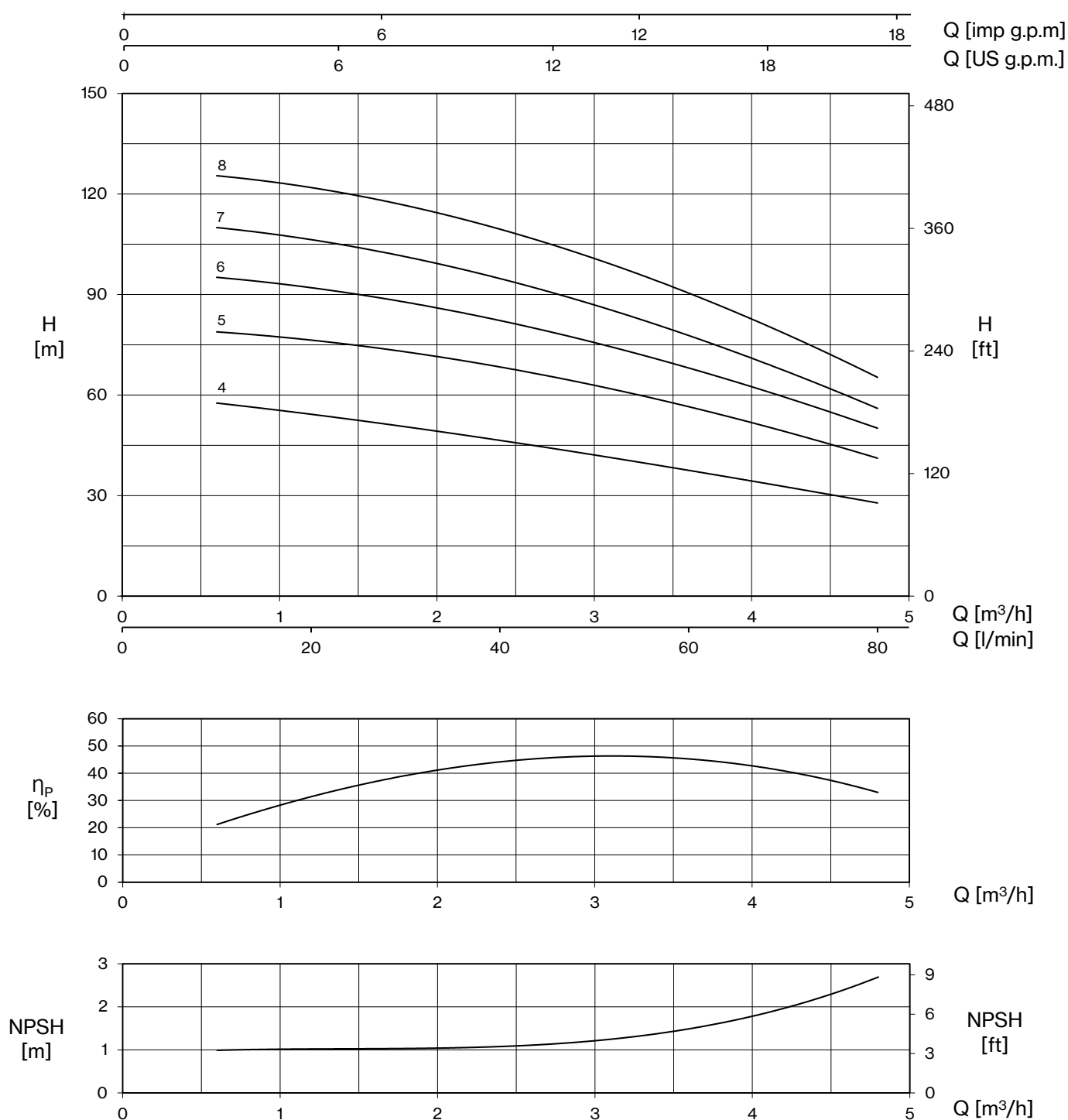
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	4,2	6	8,4	9,6	11,4	12	13,2	14,4	15,6
								0	70	100	140	160	190	200	220	240	260
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
	HP	kW	1~	3~													
U 9...350/4	U 9...350/4T	3,5	2,57	3,2	3,1	15,8	5,9	67,0	62,3	60,1	56,1	53,4	48,2	45,9	41,0	35,8	30,0
-	U 9...400/5T	4	3	-	3,7	-	7,0	83,6	77,7	74,9	70,2	66,8	59,9	57,0	50,7	44,2	36,9
-	U 9...450/6T	4,5	3,37	-	4,5	-	8,3	101,9	95,2	91,6	85,3	81,4	72,9	69,5	62,1	54,3	45,5
-	U 9...550/7T	6	4,4	-	5,3	-	9,8	120,6	114,0	110,0	102,6	97,7	88,1	84,0	74,9	65,6	55,7
-	U 9...750/8T	7,5	5,5	-	6,2	-	11,6	138,0	130,5	126,1	117,4	111,9	101,3	97,1	87,6	75,9	63,5

TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)								
3~				3~	0	7,2	9,6	12	14,4	16,8	20,4	22,8	25,2
					0	120	160	200	240	280	340	380	420
				3x380 V 60 Hz	H (m)								
HP	kW	3~											
U 18...400/3T	4,5	3,37	3,9	7,3	50,8	48,8	48,2	47,0	45,3	43,1	37,6	32,7	27,4
U 18...550/4T	6	4,4	5,2	9,7	68,3	66,3	65,7	64,3	62,2	59,4	52,3	45,9	39,2
U 18...750/5T	7,5	5,5	6,7	12,3	86,4	84,6	84,1	82,2	79,6	76,2	67,2	59,2	50,6
U 18...900/6T	10	7,5	8,0	14,9	104,0	102,2	102,0	99,8	97,0	93,1	82,6	73,0	62,6

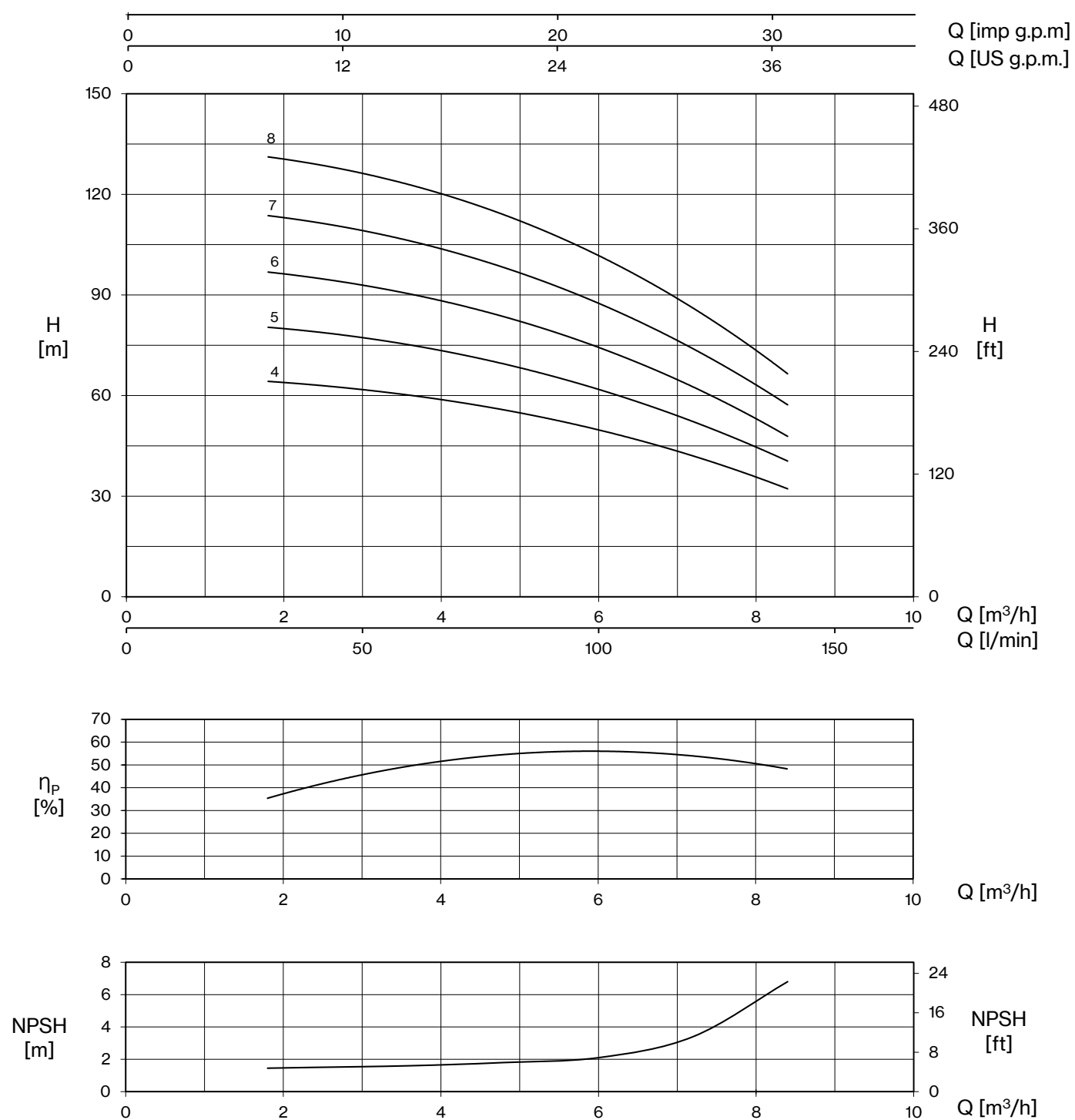
ULTRA LG

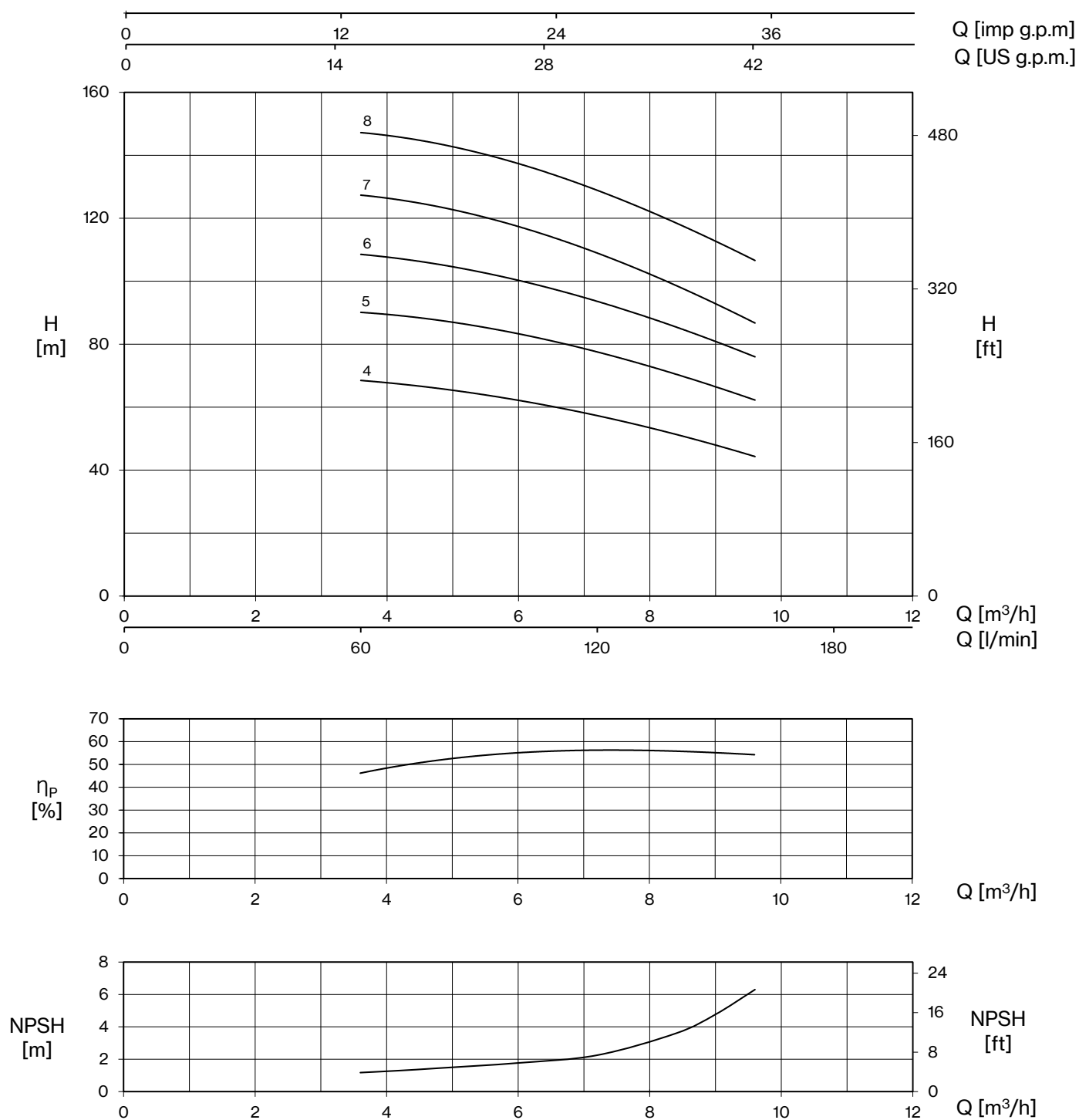
TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)							
3~				3~	0	7,2	9,6	12	14,4	16,8	20,4	22,8
					0	120	160	200	240	280	340	380
				HP	kW	3~	3x380 V 60 Hz	H (m)				
U 18LG-950/7T	10	7,5	9,0	15,4	120,3	117,5	116,4	113,3	109,0	103,7	89,9	74,7



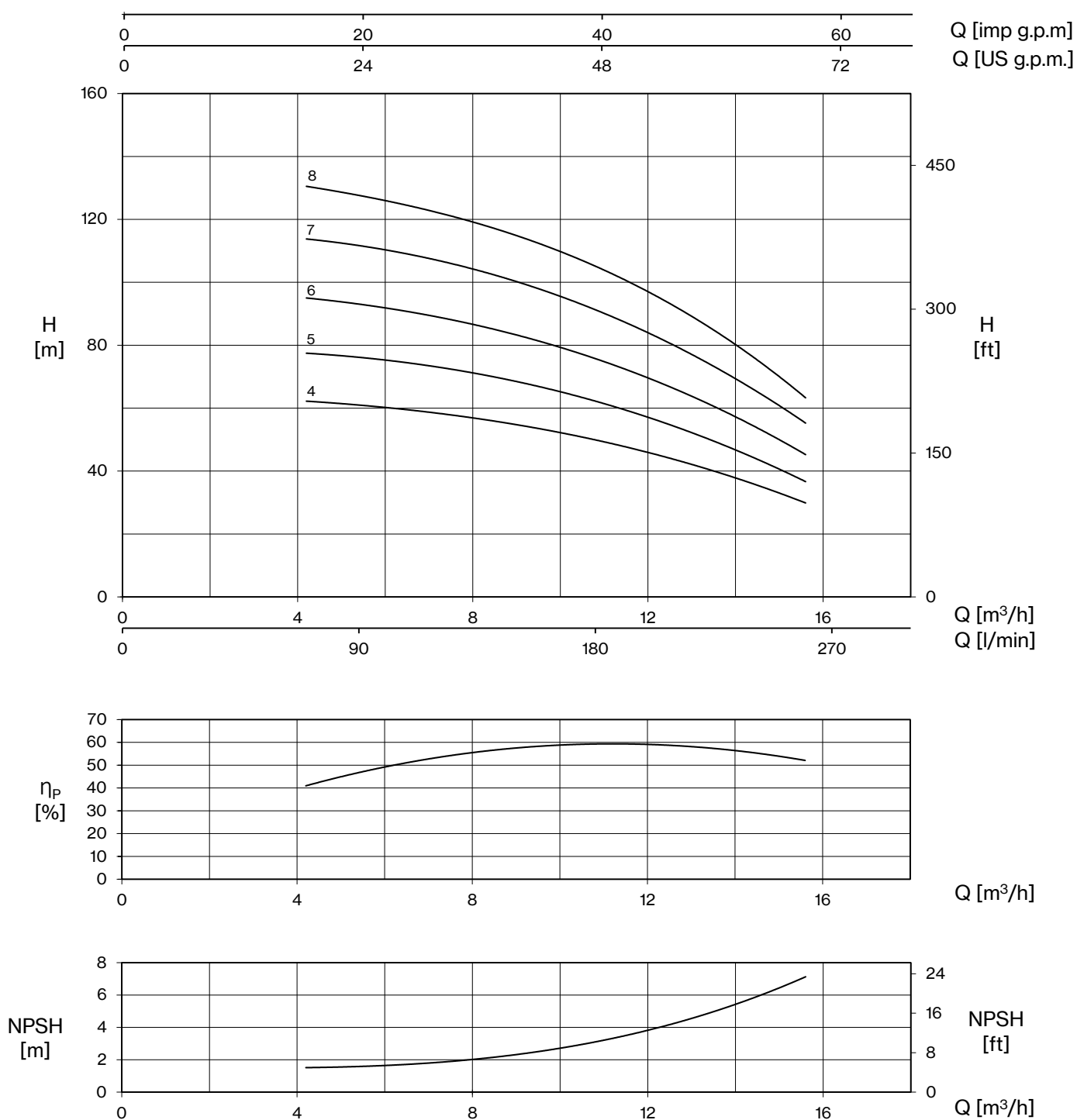


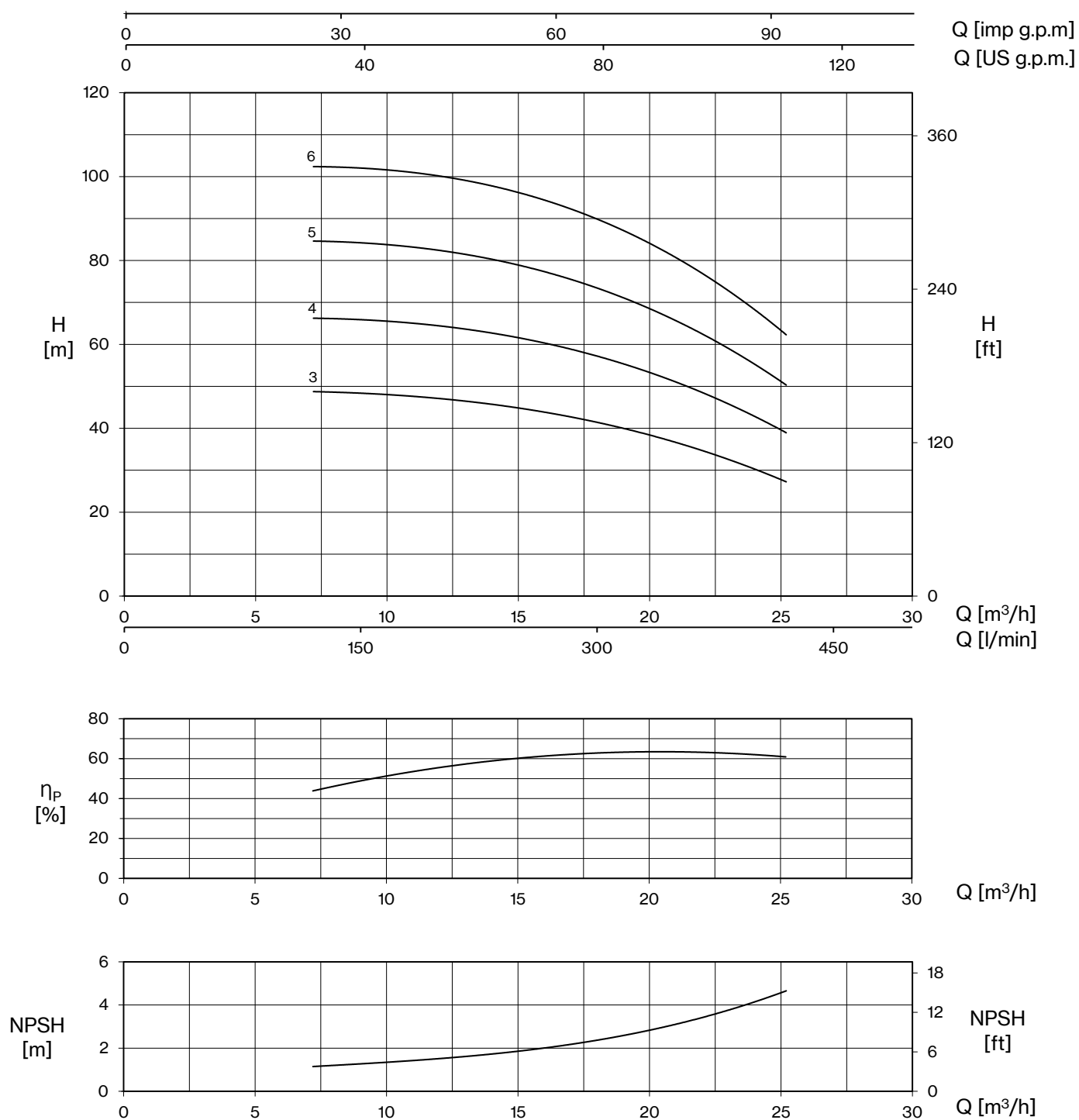
ULTRA 5 V/L



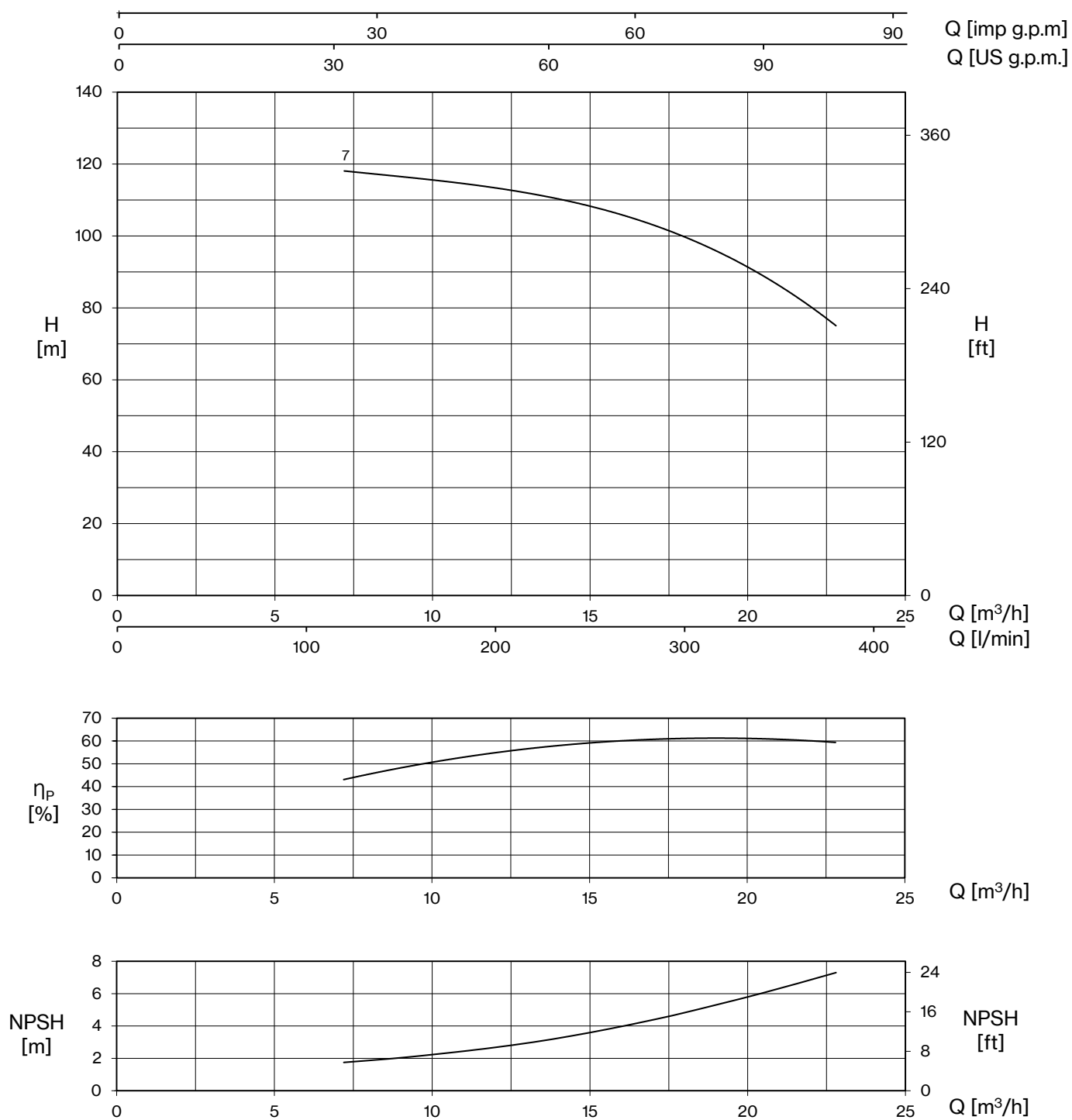


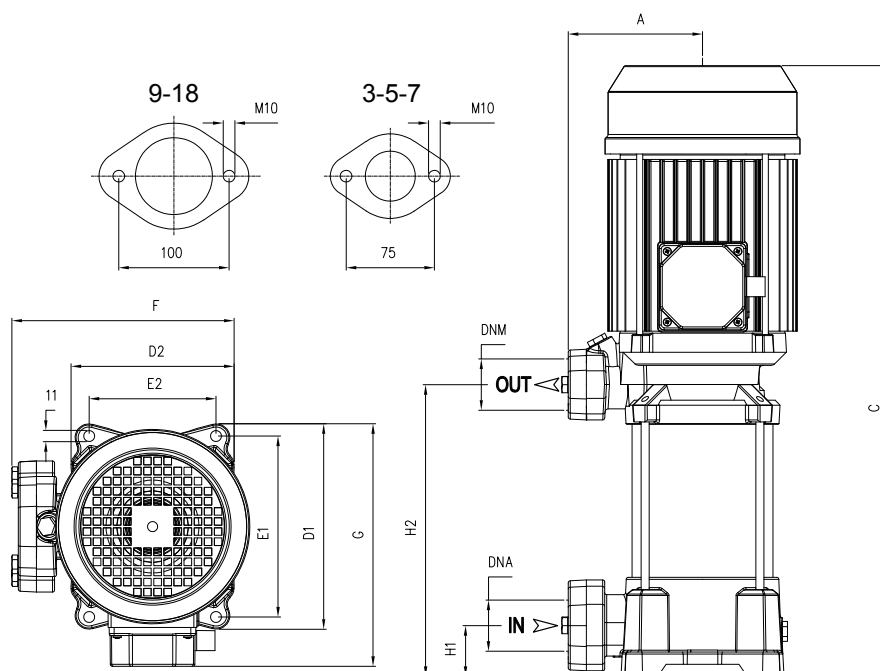
ULTRA 9 V/L





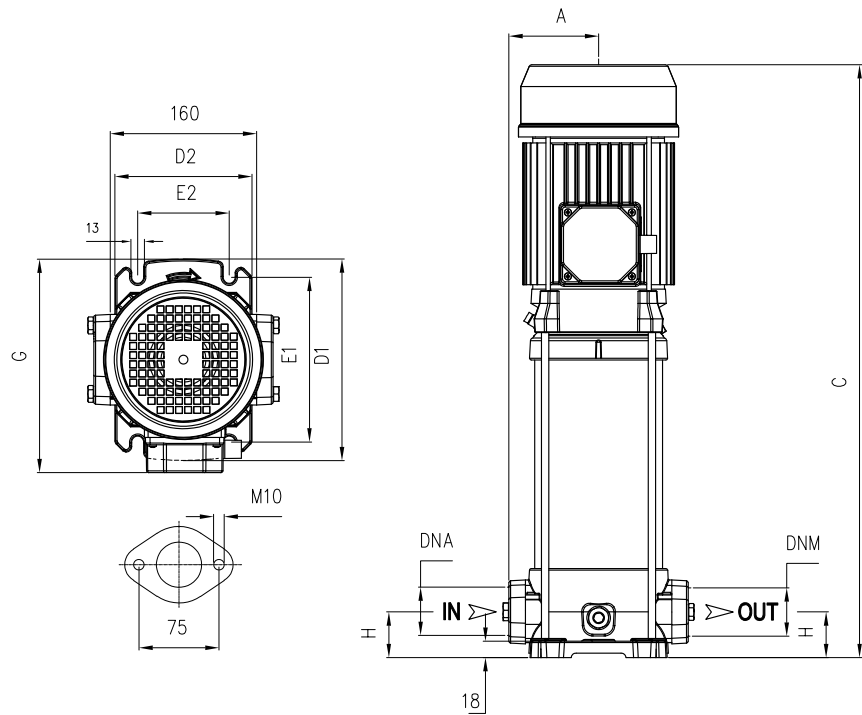
ULTRA 18 LG





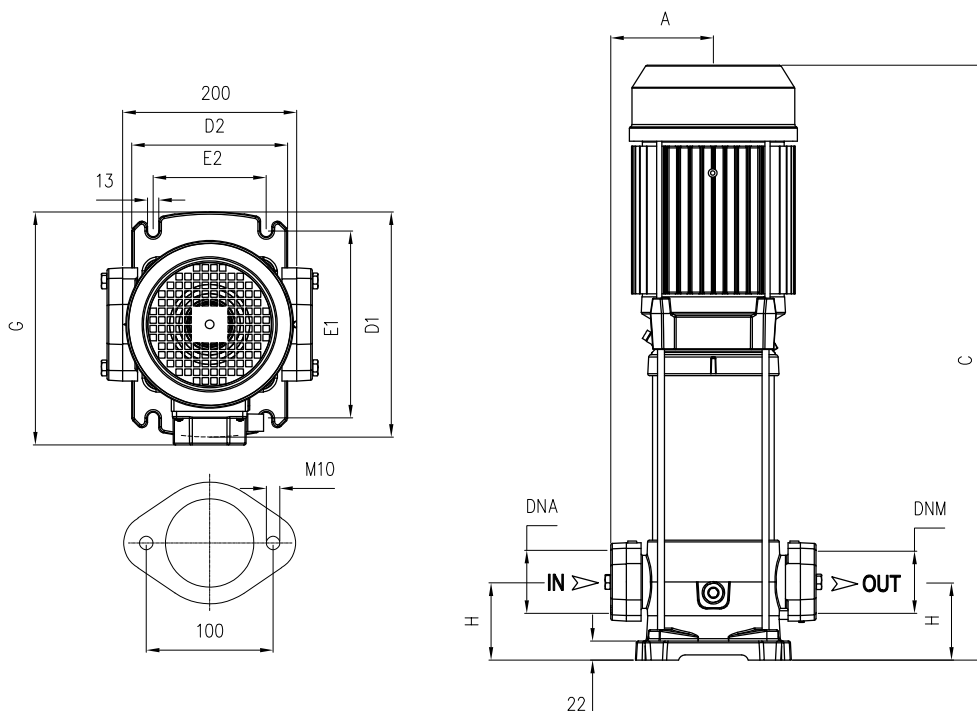
ULTRA V	DIMENSIONS (mm)													
	A	C	D1	D2	E1	E2	F	G	H1	H2	DNA	DNM		
U 3V-120/4	135	389	204	162	178,5	125	229	213	40	178	1" ¼ G	1" ¼ G	17,5	
U 3V-150/5	135	473	204	162	178,5	125	229	213	40	202			20	
U 3V-200/6	135	497	204	162	178,5	125	229	220	40	226			22 T 21	
U 3V-250/7	135	521	204	162	178,5	125	229	220	40	250			22,5	
U 3V-300/8	135	555	204	162	178,5	125	229	220	40	274			25 T 23,5	
U 5V-180/4	135	449	204	162	178,5	125	229	220	40	178	1" ¼ G	1" ¼ G	20,5 T 20	
U 5V-250/5	135	473	204	162	178,5	125	229	220	40	202			22 T 21,5	
U 5V-300/6	135	M 552 T 497	204	162	178,5	125	229	M 228 T 220	40	226			24,5 T 22,5	
U 5V-350/7	135	576	204	162	178,5	125	229	228	40	250			26,5	
U 5V-400/8	135	600	204	162	178,5	125	229	228	40	274			31,5	
U 7V-300/4	135	M 504 T 449	204	162	178,5	125	229	M 228 T 220	40	178	1" ¼ G	1" ¼ G	24 T 22	
U 7V-400/5	135	528	204	162	178,5	125	229	228	40	202			27	
U 7V-450/6	135	580	204	162	178,5	125	229	243	40	226			35	
U 7V-550/7	135	604	204	162	178,5	125	229	243	40	250			39	
U 7V-750/8	135	691	204	162	178,5	125	229	253	40	274			43,5	
U 9V-350/4	135	528	204	162	178,5	125	229	228	40	202	1" ½ G	1" ¼ G	27 T 24	
U 9V-400/5	135	558	204	162	178,5	125	229	228	40	232			30,5	
U 9V-450/6	135	616	204	162	178,5	125	229	243	40	262			31,5	
U 9V-550/7	135	646	204	162	178,5	125	229	243	40	292			34,5	
U 9V-750/8	135	739	204	162	178,5	125	229	253	40	322			44	
U 18V-400/3	135	536	204	162	178,5	125	229	228	50	211	2" G	1" ½ G	28	
U 18V-550/4	135	602	204	162	178,5	125	235	243	50	248			39,5	
U 18V-750/5	135	703	204	162	178,5	125	255	253	50	289			49	
U 18V-900/6	135	740	204	162	178,5	125	255	253	50	326			47	

ULTRA L



ULTRA L	DIMENSIONS (mm)											
	A	C	D1	D2	E1	E2	G	H	DNA	DNM		
U 3L-120/4	98	405	220	150	180	100	228	50	1" ¼ G	1" ¼ G	19,5	T 19,5
U 3L-150/5	98	489	220	150	180	100	228	50			22	
U 3L-200/6	98	513	220	150	180	100	228	50			24,5	T 23,5
U 3L-250/7	98	537	220	150	180	100	228	50			25	T 24,5
U 3L-300/8	98	571	220	150	180	100	228	50			27,5	T 25,5
U 5L-180/4	98	465	220	150	180	100	228	50	1" ¼ G	1" ¼ G	22,5	T 22
U 5L-250/5	98	489	220	150	180	100	228	50			24	T 23,5
U 5L-300/6	98	568 T 513	220	150	180	100	236 T 228	50			27	T 24,5
U 5L-350/7	98	592	220	150	180	100	236	50			28,5	
U 5L-400/8	98	616	220	150	180	100	236	50			33,5	
U 7L-300/4	98	520 T 465	220	150	180	100	236 T 228	50	1" ¼ G	1" ¼ G	26	T 24
U 7L-400/5	98	544	220	150	180	100	236	50			29	
U 7L-450/6	98	596	220	150	180	100	251	50			37	
U 7L-550/7	98	620	220	150	180	100	251	50			41	
U 7L-750/8	98	707	220	150	180	100	260	50			45,5	





ULTRA L	DIMENSIONS (mm)										Kg	
	A	C	D1	D2	E1	E2	G	H	DNA	DNM		
U 9L-350/4	118	575	260	180	215	130	256	80	1" ½ G	1" ½ G	33,5	T 31
U 9L-400/5 T	118	605	260	180	215	130	256	80			37,5	
U 9L-450/6 T	118	663	260	180	215	130	271	80			37,5	
U 9L-550/7 T	118	693	260	180	215	130	271	80			40,5	
U 9L-750/8 T	118	786	260	180	215	130	280	80			49,5	
U 18L-400/3 T	118	577	260	180	215	130	256	90	2" G	2" G	33,5	
U 18L-550/4 T	118	643	260	180	215	130	271	90			45,5	
U 18L-750/5 T	118	743	260	180	215	130	280	90			54	
U 18L-900/6 T	118	781	260	180	215	130	280	90			52	

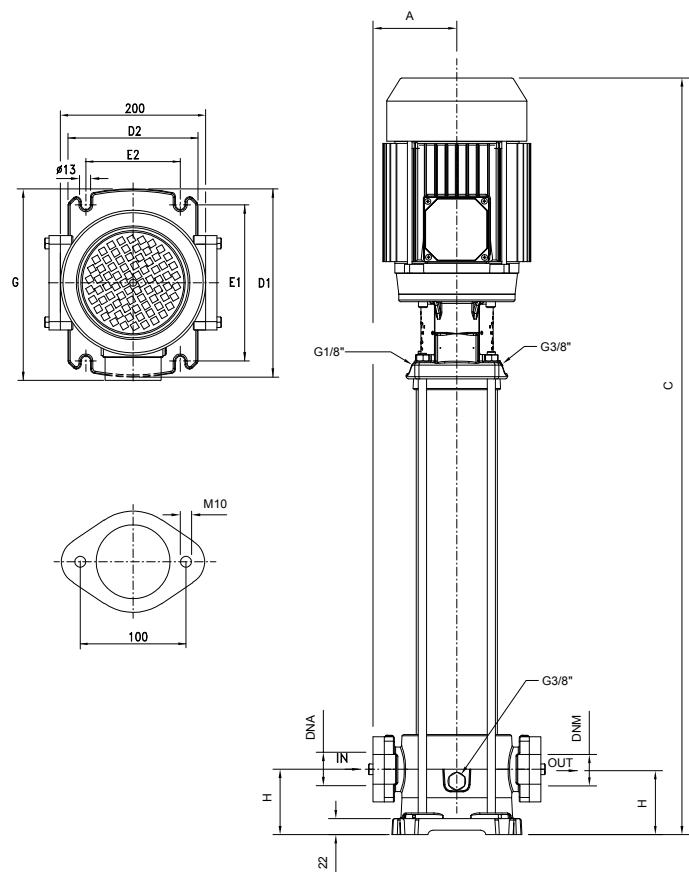
1- 110V - 60Hz	
TYPE	I (A)
U 3...-120/4	13,8

MODEL	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3V-120/4-150/5	80×120×150	42	80×120×175	49
U 3V-200/6-300/8 T	80×120×150	42	80×120×175	49
U 3V-200/6 -300/8	80×120×155	30	80×120×180	35
U 5V-180/4-350/7	80×120×150	42	80×120×175	49
U 5V-400/8 T	80×120×155	30	80×120×180	35
U 7V-300/4-400/5 T	80×120×150	42	80×120×175	49
U 7V-450/6 T-550/7 T	85×110×125	20	85×110×150	24
U 7V-750/8 T	85×110×150	20	85×110×150	20
U 9V-350/4	80×120×150	42	80×120×175	49
U 9V-400/5	80×120×155	30	80×120×180	35
U 9V-450/6 T-550/7 T	85×110×125	20	85×110×150	24
U 9V-750/8 T	85×110×150	20	85×110×150	20
U 18V-400/3 T-550/4 T	80×120×150	42	80×120×175	49
U 18V-750/5 T-900/6 T	85×110×125	20	85×110×150	24

MODEL	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3L-120/4-150/5	85×110×150	36	85×110×170	42
U 3L-200/6-300/8	80×120×150	30	80×120×170	35
U 5L-180/4-250/5-300/6 T	85×110×150	36	85×110×170	42
U 5L-300/6-350/7 T	80×120×150	30	80×120×170	35
U 5L-400/8 T	85×110×150	20	85×110×150	20
U 7L-300/4 T	85×110×150	36	85×110×170	42
U 7L-300/4-400/5 T	80×120×150	30	80×120×170	35
U 7L-450/6 T-550/7 T	80×120×150	30	80×120×170	35
U 7L-750/8 T	85×110×150	20	85×110×150	20
U 9L-350/4-400/5 T	80×120×155	25	80×120×185	30
U 9L-450/6 T-550/7 T	85×110×150	20	85×110×150	20
U 9L-750/8 T	85×110×150	20	85×110×150	20
U 18L-400/3 T-550/4 T	80×120×155	25	80×120×185	30
U 18L-750/5 T-900/6 T	85×110×150	20	85×110×150	20



ULTRA LG



ULTRA LG	DIMENSIONS (mm)										
	A	C	D1	D2	E1	E2	G	H	DNA	DNM	
U 18LG-950/7T	118	908	260	180	215	130	308	90	2" G	2" G	69,1

MODEL	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 18LG-950/7 T	100×120×150	12	100×120×150	12



ULTRA 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

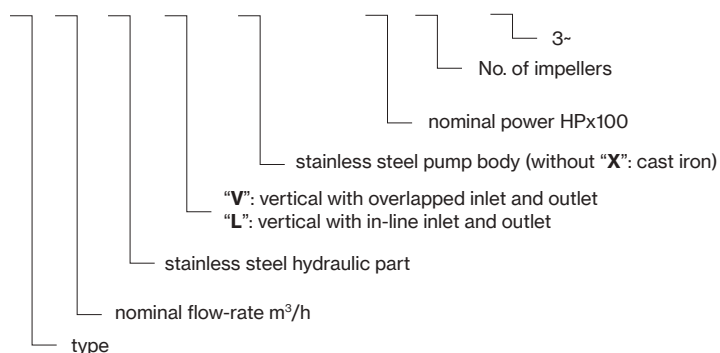
Pump body	cast iron (SV/SL); stainless steel AISI 304 (SLX)
Motor bracket	cast iron
Impellers, diffusers, shell, motor shaft	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM graphite-silicon carbide-EPDM
Intermediate shaft guiding stage bush	ceramic-tungsten carbide
Ambient temperature	max 40 °C
Liquid temperature	+5 ÷ 90 °C (SV) -15 ÷ 110 °C (SL/SLX)
Max operating pressure	8 bar ≤ 4 impellers; 14 bar ≥ 5 impellers
Pump body gasket	EPDM

Motor

	3~ 220/380V - 60Hz
2 pole induction motor	1~ 220V - 60Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4 IPX5 ≥ 4,5 HP



U 3 S V/ X - 120/4 T



ULTRA SV



ULTRA 3-5-7 SL



ULTRA 9-18 SL



ULTRA SLX



ULTRA SV/SL/SLX

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)								
1~	3~					1~	3~	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8
								0	10	20	30	40	50	60	70	80
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
HP	kW	1~	3~													
U 3...120/4	U 3...120/4T	1,2	0,9	1,3	1,3	6,2	2,6	64,6	62,9	60,3	56,9	52,7	48,6	43,2	38,4	31,9
U 3...150/5	U 3...150/5T	1,75	1,29	1,6	1,6	7,7	3,4	76,9	74,8	71,5	67,8	63,4	58,8	52,8	46,5	38,8
U 3...200/6	U 3...200/6T	1,75	1,29	2,0	1,9	9,2	3,8	93,6	91,3	87,5	83,2	77,7	72,1	64,5	57,1	48,7
U 3...250/7	U 3...250/7T	2,5	1,84	2,3	2,1	10,8	4,1	109,9	107,0	102,7	97,6	90,9	84,1	75,0	66,5	56,8
U 3...300/8	U 3...300/8T	3	2,2	2,7	2,5	13,5	4,9	123,4	120,3	115,0	109,0	101,7	93,7	83,8	73,8	62,9

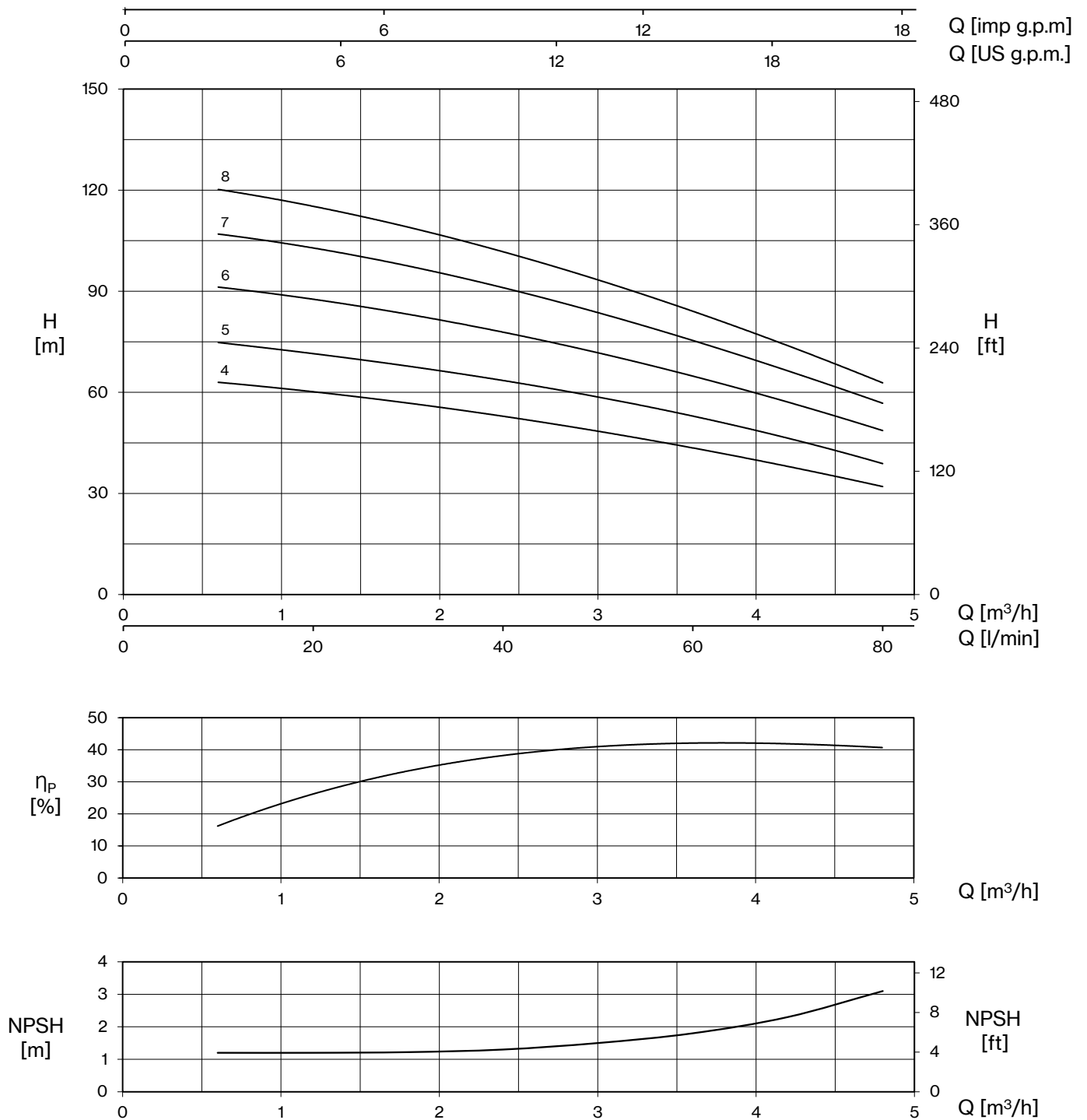
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	1,8	2,4	3,6	4,2	4,8	6	7,2	8,4	9
								0	30	40	60	70	80	100	120	140	150
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
HP	kW	1~	3~														
U 5...140/8	U 5...140/8T	1,75	1,29	1,9	1,8	8,9	3,6	64,3	61,1	60,0	57,0	55,5	53,1	48,3	42,4	34,2	28,6
U 5...250/5	U 5...250/5T	2,5	1,84	2,4	2,2	11,1	4,3	80,2	76,4	74,9	71,2	70,2	66,5	60,5	52,4	41,9	35,7
U 5...300/6	U 5...300/6T	3	2,2	2,9	2,6	14,5	5,1	96,6	92,1	89,7	85,7	83,1	79,8	72,7	63,6	51,0	42,8
-	U 5...350/7T	3,5	2,57	-	3,1	-	5,9	113,6	109,1	106,7	101,6	99,2	94,7	86,3	75,1	60,2	51,4
-	U 5...400/8T	4	3	-	3,5	-	6,8	129,6	124,6	122,3	116,6	113,7	109,1	99,8	87,9	69,9	60,1

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	3,6	4,2	4,8	6	7,2	8,4	9	9,6	10,8
								0	60	70	80	100	120	140	150	160	180
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
HP	kW	1~	3~														
U 7...300/4	U 7...300/4T	3	2,2	3,0	2,8	15,1	5,3	67,3	66,1	65,4	64,4	61,7	58,3	54,2	51,7	48,7	41,2
-	U 7...400/5T	4	3	-	3,5	-	6,8	85,1	84,3	83,2	82,3	79,1	75,2	69,9	66,6	62,9	54,3
-	U 7...450/6T	4,5	3,37	-	4,3	-	7,9	102,7	102,2	101,2	99,8	96,1	91,7	85,6	81,9	77,6	69,0
-	U 7...550/7T	5,5	4	-	5,1	-	9,5	120,7	119,6	118,5	116,9	112,7	107,2	99,8	95,2	90,2	82,0
-	U 7...750/8T	7,5	5,5	-	5,9	-	11,2	138,2	138,5	137,3	135,6	131,1	125,2	117,5	112,5	106,8	96,0

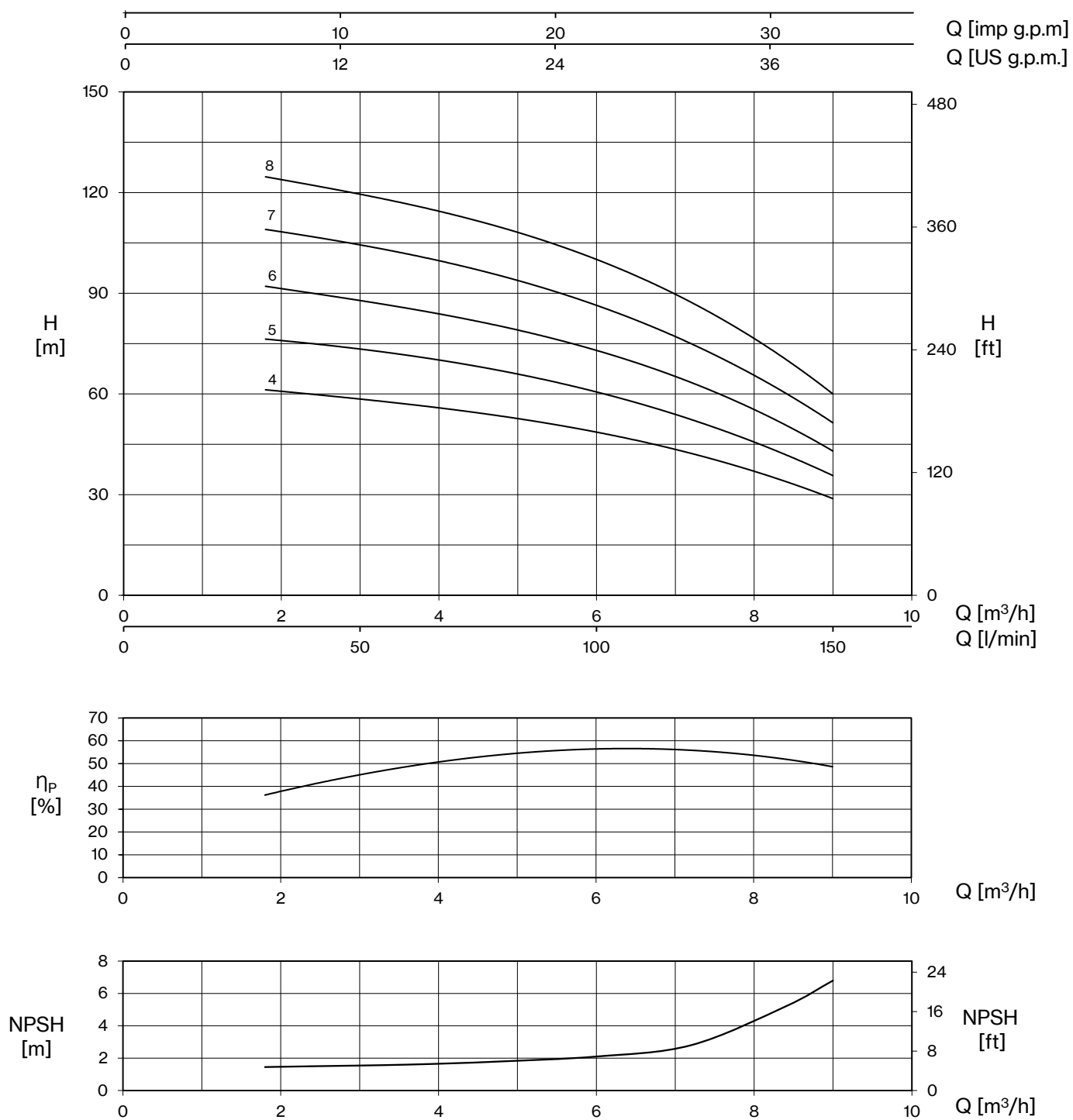
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)									
1~	3~					1~	3~	0	4,2	6	8,4	9,6	11,4	12	13,2	14,4	15,6
								0	70	100	140	160	190	200	220	240	260
						1x220 V 60 Hz	3x380 V 60 Hz	H (m)									
U 9...350/4	U 9...350/4T	3,5	2,57	3,3	3,2	16,1	6,0	66,5	62,6	60,7	56,7	54,3	49,7	47,9	43,5	37,8	31,5
-	U 9...400/5T	4	3	-	3,8	-	7,2	83,6	78,9	76,4	71,3	68,2	62,5	60,0	54,1	47,0	39,1
-	U 9...450/6T	4,5	3,37	-	4,6	-	8,5	100,6	94,8	92,0	85,4	81,8	74,4	71,2	64,4	55,9	45,3
-	U 9...550/7T	6	4,4	-	5,4	-	9,9	118,0	111,6	108,3	101,2	97,2	89,0	85,5	76,9	66,8	55,6
-	U 9...750/8T	7,5	5,5	-	6,3	-	11,7	135,5	128,9	125,4	116,9	112,1	102,5	98,3	87,9	75,9	62,9

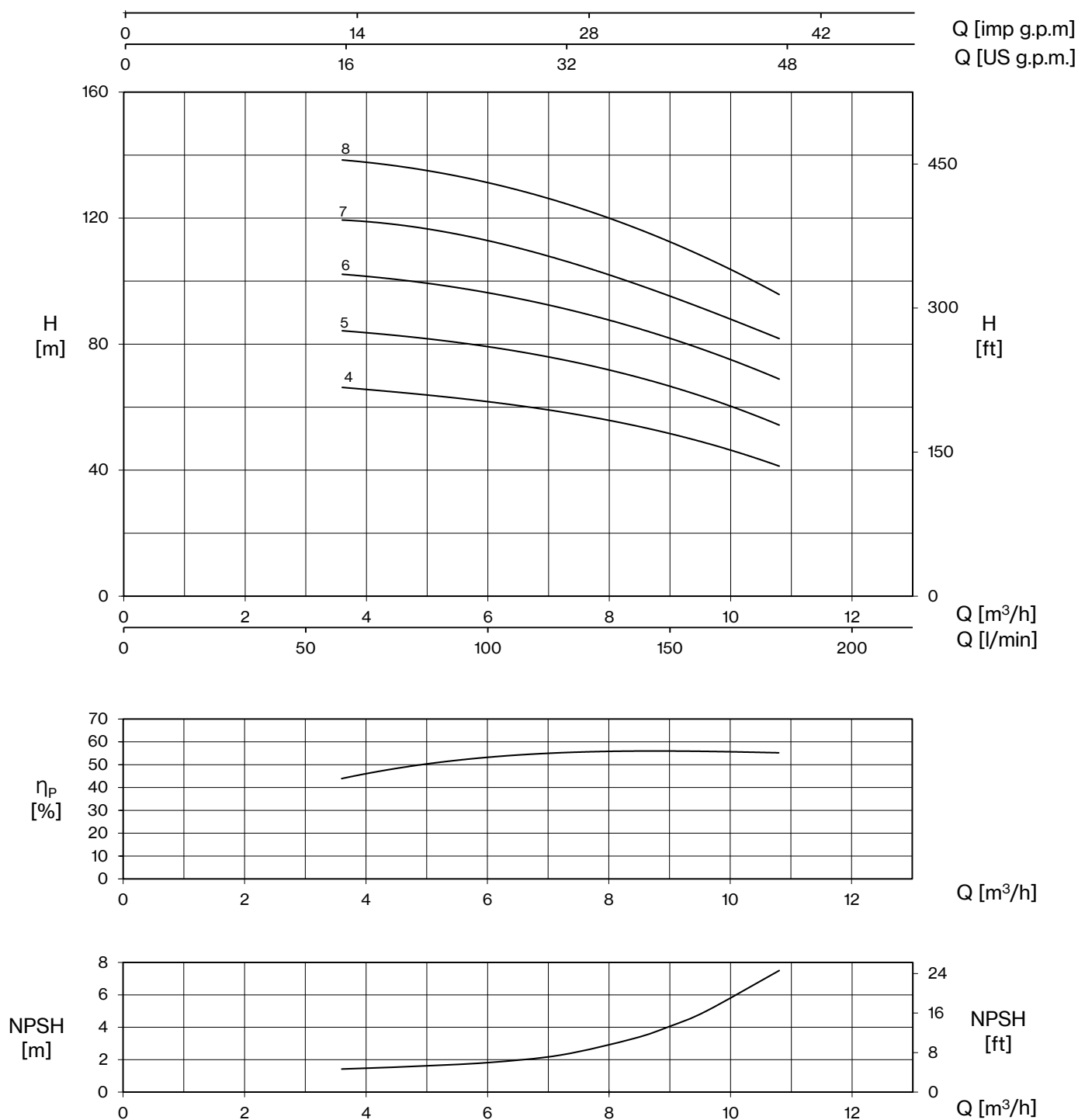
TYPE	P2		P1 (kW)	A	Q (m³/h - l/min)									
3~				3~	0	7,2	9,6	12	14,4	16,8	20,4	22,8	25,2	
					0	120	160	200	240	280	340	380	420	
				3x380 V 60 Hz	H (m)									
HP	kW	3~												
U 18...400/3T	4,5	3,37	4,0	7,4	50,2	47,8	46,1	44,1	42,0	39,6	35,9	32,6	28,1	
U 18...550/4T	6	4,4	5,5	10,1	67,2	64,6	62,6	60,1	57,4	54,5	49,9	45,9	40,2	
U 18...750/5T	7,5	5,5	6,8	12,6	84,4	81,3	79,0	76,1	73,0	69,5	63,7	58,9	52,3	
U 18...900/6T	10	7,5	8,2	15,2	101,9	98,4	95,6	92,1	88,5	84,1	77,2	71,9	63,7	



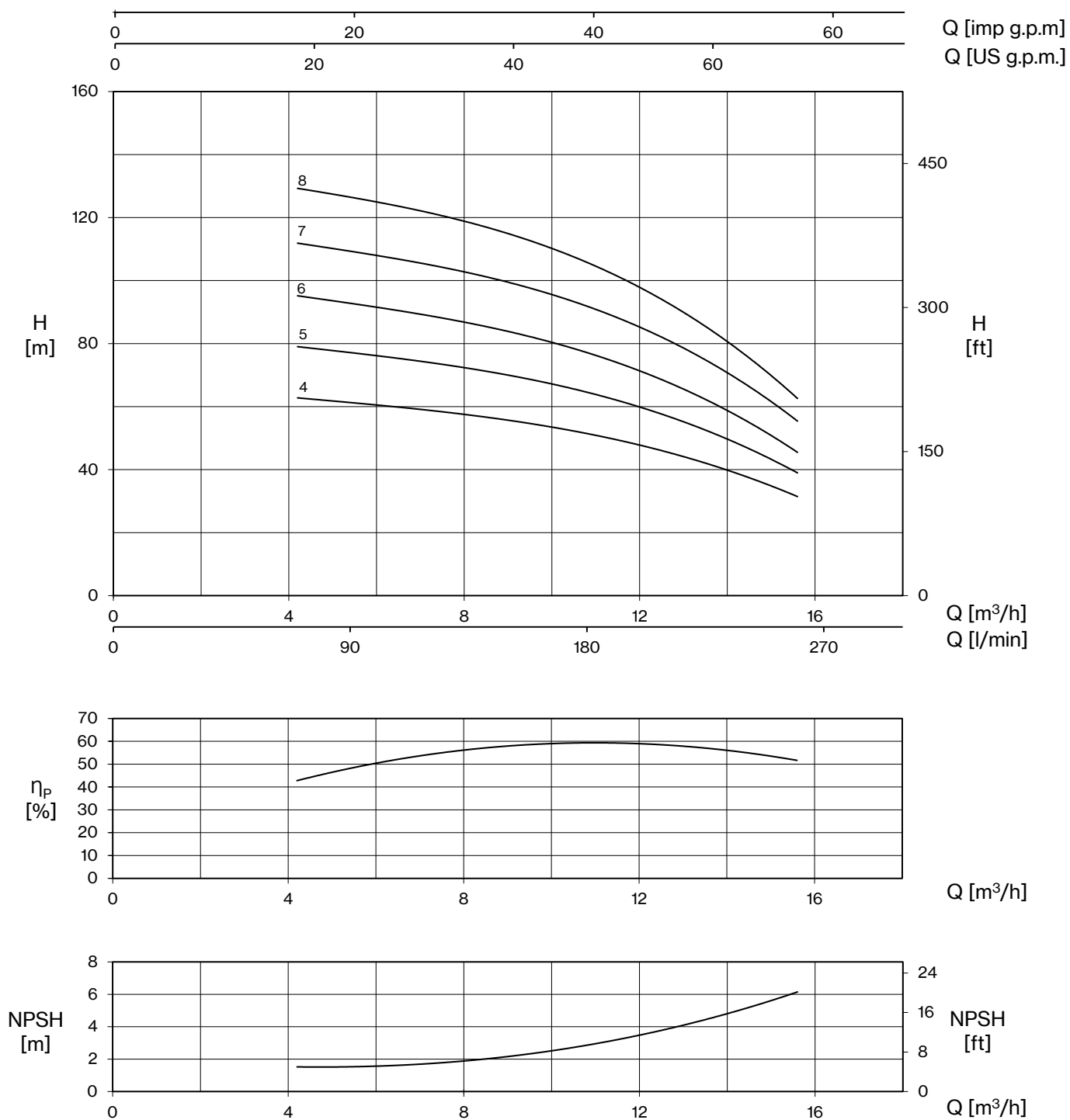


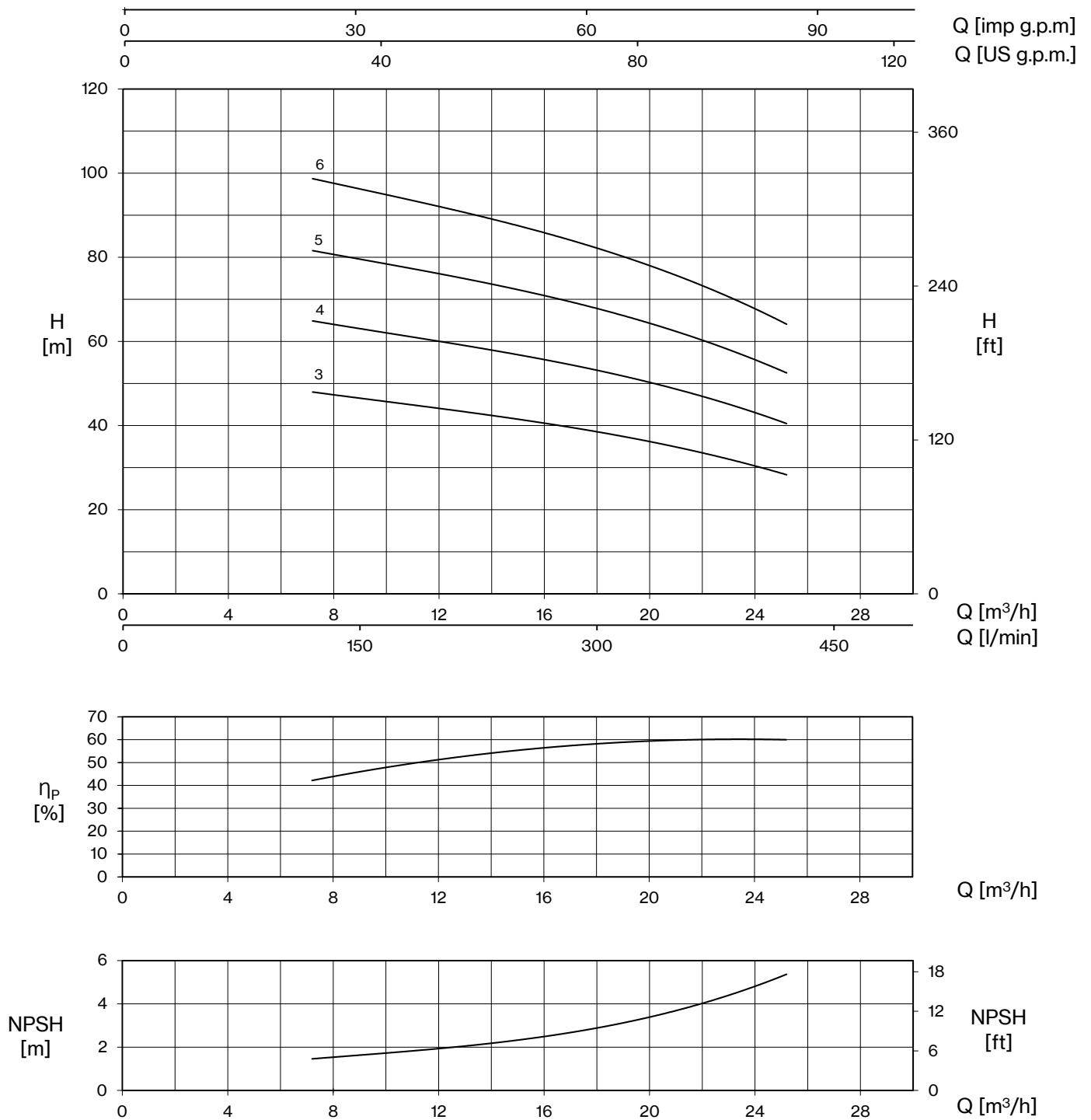
ULTRA 5 SV/SL/SLX



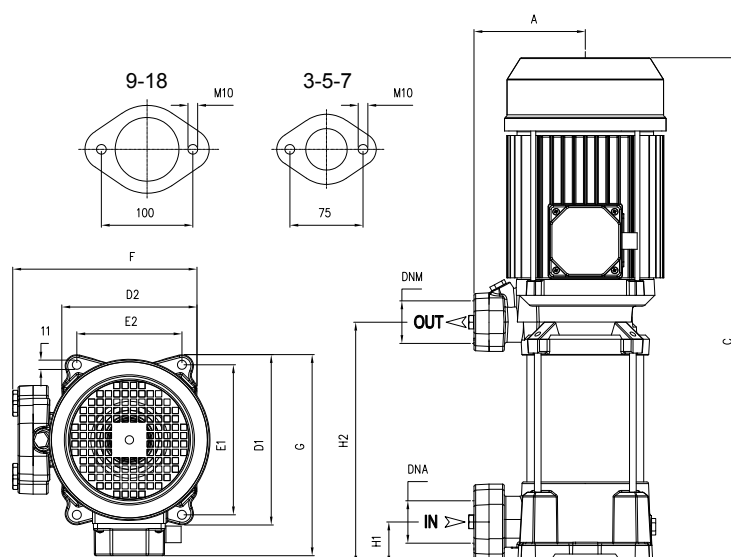


ULTRA 9 SV/SL/SLX



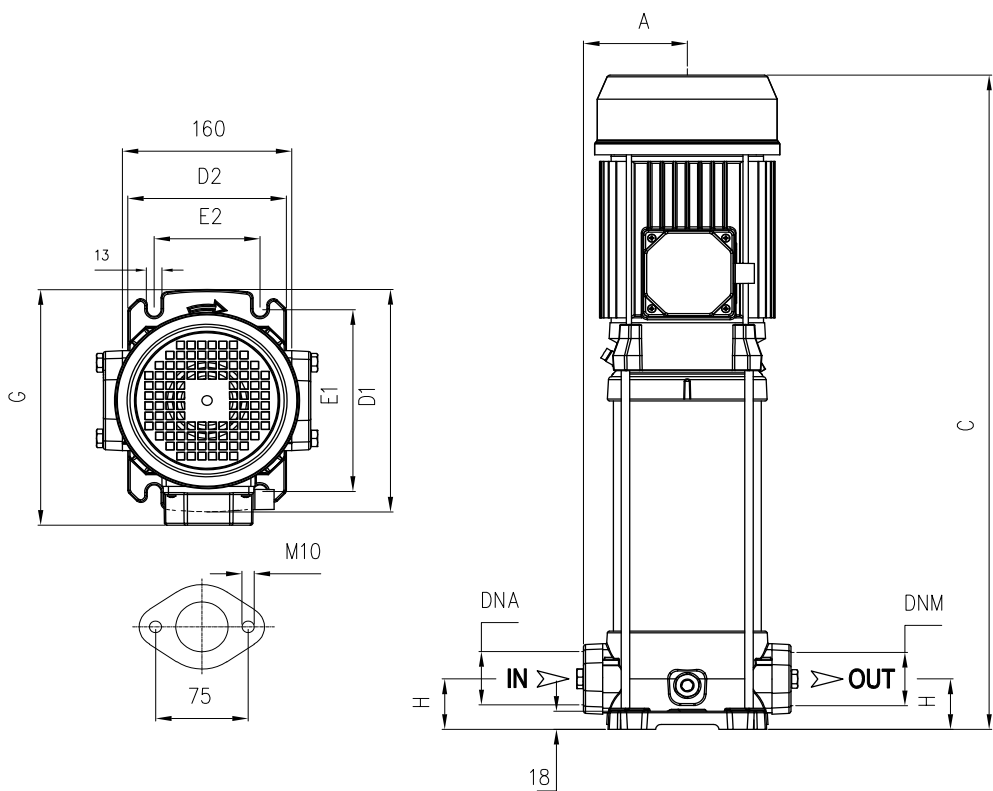


ULTRA SV



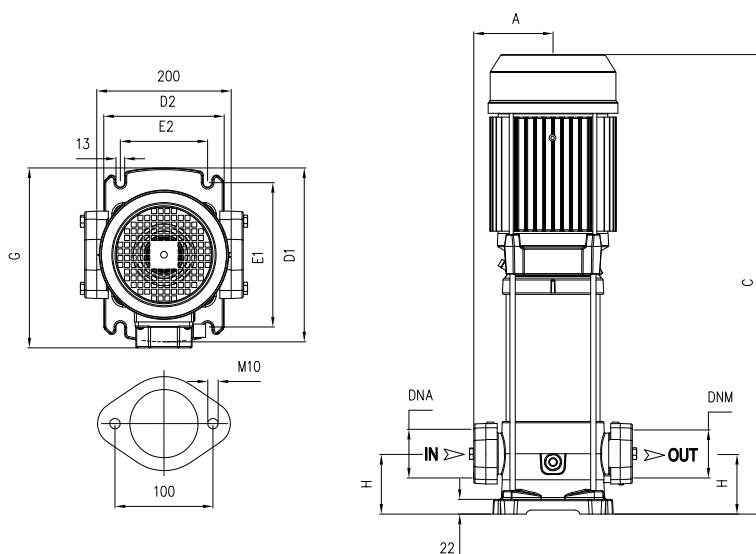
ULTRA SV	DIMENSIONS (mm)												Kg
	A	C	D1	D2	E1	E2	F	G	H1	H2	DNA	DNM	
U 3SV-120/4	135	389	204	162	178,5	125	229	213	40	178	1" ¼ G	1" ¼ G	18,5
U 3SV-150/5	135	473	204	162	178,5	125	229	213	40	202			21,5
U 3SV-200/6	135	497	204	162	178,5	125	229	220	40	226			23,5 T 22,5
U 3SV-250/7	135	521	204	162	178,5	125	229	220	40	250			24,5 T 24
U 3SV-300/8	135	555	204	162	178,5	125	229	220	40	274	1" ¼ G	1" ¼ G	27 T 25,5
U 5SV-180/4	135	449	204	162	178,5	125	229	220	40	178			21,5 T 21
U 5SV-250/5	135	473	204	162	178,5	125	229	220	40	202			23
U 5SV-300/6	135	M 552 T 497	204	162	178,5	125	229	M 228 T 220	40	226			26 T 24
U 5SV-350/7	135	576	204	162	178,5	125	229	228	40	250	1" ¼ G	1" ¼ G	28
U 5SV-400/8	135	600	204	162	178,5	125	229	228	40	274			33,5
U 7SV-300/4	135	M 504 T 449	204	162	178,5	125	229	M 228 T 220	40	178	1" ¼ G	1" ¼ G	25 T 23
U 7SV-400/5	135	528	204	162	178,5	125	229	228	40	202			28
U 7SV-450/6	135	580	204	162	178,5	125	229	243	40	226			36,5
U 7SV-550/7	135	604	204	162	178,5	125	229	243	40	250			41
U 7SV-750/8	135	691	204	162	178,5	125	229	253	40	274	1" ½ G	1" ¼ G	46
U 9SV-350/4	135	528	204	162	178,5	125	229	228	40	202			28 T 25,5
U 9SV-400/5	135	558	204	162	178,5	125	229	228	40	232			32
U 9SV-450/6	135	616	204	162	178,5	125	229	243	40	262			33,5
U 9SV-550/7	135	646	204	162	178,5	125	229	243	40	292	2" G	1" ½ G	36,5
U 9SV-750/8	135	739	204	162	178,5	125	229	253	40	322			46,5
U 18SV-400/3	135	536	204	162	178,5	125	229	228	50	211			29
U 18SV-550/4	135	602	204	162	178,5	125	235	243	50	248			41,5
U 18SV-750/5	135	703	204	162	178,5	125	255	253	50	289	2" G	1" ½ G	51
U 18SV-900/6	135	740	204	162	178,5	125	255	253	50	326			49,5





ULTRA SL/SLX	DIMENSIONS (mm)										Kg			
	A	C	D1	D2	E1	E2	G	H	DNA	DNM	SL		SLX	
											SL	T	SLX	T
U 3SL/SLX-120/4	98	405	220	150	180	100	228	50	1" ¼ G	1" ¼ G	20		19	
U 3SL/SLX-150/5	98	489	220	150	180	100	228	50			23,5		22	
U 3SL/SLX-200/6	98	513	220	150	180	100	228	50			26	T 25	24,5	T 24
U 3SL/SLX-250/7	98	537	220	150	180	100	228	50			26,5		25,5	T 25
U 3SL/SLX-300/8	98	571	220	150	180	100	228	50			29,5	T 27,5	28,5	T 26,5
U 5SL/SLX-180/4	98	465	220	150	180	100	228	50	1" ¼ G	1" ¼ G	23,5	T 23	22,5	T 21,5
U 5SL/SLX-250/5	98	489	220	150	180	100	228	50			25		24	T 23,5
U 5SL/SLX-300/6	98	568 T 513	220	150	180	100	236 T 228	50			28,5	T 26	27	T 25
U 5SL/SLX-350/7	98	592	220	150	180	100	236	50			30,5		29,5	
U 5SL/SLX-400/8	98	616	220	150	180	100	236	50			36		34,5	
U 7SL/SLX-300/4	98	M 520 T 465	220	150	180	100	M 236 T 228	50	1" ¼ G	1" ¼ G	27	T 25	26	T 24
U 7SL/SLX-400/5	98	544	220	150	180	100	236	50			30,5		29,5	
U 7SL/SLX-450/6	98	596	220	150	180	100	251	50			38,5		37,5	
U 7SL/SLX-550/7	98	620	220	150	180	100	251	50			43		42	
U 7SL/SLX-750/8	98	707	220	150	180	100	260	50			47,5		46,5	

ULTRA SL/SLX



ULTRA SL/SLX	DIMENSIONS (mm)										Kg			
	A	C	D1	D2	E1	E2	G	H	DNA	DNM	SL		SLX	
U 9SL/SLX-350/4	118	575	260	180	215	130	256	80	1" ½ G	1" ½ G	34,5	T 32	33	T 30,5
U 9SL/SLX-400/5 T	118	605	260	180	215	130	256	80			39		37	
U 9SL/SLX-450/6 T	118	663	260	180	215	130	271	80			48		37,5	
U 9SL/SLX-550/7 T	118	693	260	180	215	130	271	80			47,5		46	
U 9SL/SLX-750/8 T	118	786	260	180	215	130	280	80			52		50,5	
U 18SL/SLX-400/3 T	118	577	260	180	215	130	256	90	2" G	2" G	34,5	33,5	34,5	33,5
U 18SL/SLX-550/4 T	118	643	260	180	215	130	271	90			47	45,5	47	45,5
U 18SL/SLX-750/5 T	118	743	260	180	215	130	280	90			56	54,5	56	54,5
U 18SL/SLX-900/6 T	118	781	260	180	215	130	280	90			55	53,5	55	53,5

1- 110V - 60Hz	
TYPE	I (A)
U 3...-120/4	12,4

MODEL	LOTS		CONTAINER	
	TRUCK			
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3SV-120/4-150/5	80×120×150	42	80×120×175	49
U 3SV-200/6-300/8 T	80×120×150	42	80×120×175	49
U 3SV-200/6 -300/8	80×120×155	30	80×120×180	35
U 5SV-180/4-350/7	80×120×150	42	80×120×175	49
U 5SV-400/8 T	80×120×155	30	80×120×180	35
U 7SV-300/4-400/5 T	80×120×150	42	80×120×175	49
U 7SV-450/6 T-550/7 T	85×110×125	20	85×110×150	24
U 7SV-750/8 T	85×110×150	20	85×110×150	20
U 9SV-350/4	80×120×150	42	80×120×175	49
U 9SV-400/5	80×120×155	30	80×120×180	35
U 9SV-450/6 T-550/7 T	85×110×125	20	85×110×150	24
U 9SV-750/8 T	85×110×150	20	85×110×150	20
U 18SV-400/3 T-550/4 T	80×120×150	42	80×120×175	49
U 18SV-750/5 T-900/6 T	85×110×125	20	85×110×150	24

MODEL	LOTS		CONTAINER	
	TRUCK			
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3SL/SLX-120/4-150/5	85×110×150	36	85×110×170	42
U 3SL/SLX-200/6-300/8	80×120×150	30	80×120×170	35
U 5SL/SLX-180/4-250/5-300/6 T	85×110×150	36	85×110×170	42
U 5SL/SLX-300/6-350/7 T	80×120×150	30	80×120×170	35
U 5SL/SLX-400/8 T	85×110×150	20	85×110×150	20
U 7SL/SLX-300/4 T	85×110×150	36	85×110×170	42
U 7SL/SLX-300/4 -400/5 T	80×120×150	30	80×120×170	35
U 7SL/SLX-450/6 T-550/7 T	80×120×150	30	80×120×170	35
U 7SL/SLX-750/8 T	85×110×150	20	85×110×150	20
U 9SL/SLX-350/4-400/5 T	80×120×155	25	80×120×185	30
U 9SL/SLX-450/6 T-550/7 T	85×110×150	20	85×110×150	20
U 9SL/SLX-750/8 T	85×110×150	20	85×110×150	20
U 18SL/SLX-400/3 T-550/4 T	80×120×155	25	80×120×185	30
U 18SL/SLX-750/5 T-900/6 T	85×110×150	20	85×110×150	20



ULTRA SLG/SLXG

Multistage Vertical

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	ceramic-graphite-EPDM graphite-silicon 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

	3~ 220/380V - 60Hz 1~ 220V - 60Hz
2 pole induction motor	IE2 efficiency class or standard
Insulation class	F
Protection degree	IPX5



MODEL	LOTS		TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3SLG/SLXG-350/10 T - 550/16 T	100×120×150	12	100×120×150	12	100×120×150	12
U 5SLG/SLXG-450/10 T - 750/14 T	100×120×150	12	100×120×150	12	100×120×150	12
U 7SLG/SLXG-800/12 T - 1000/14 T	100×120×150	12	100×120×150	12	100×120×150	12
U 9SLG/SLXG-800/10 T - 1000/14 T	100×120×150	12	100×120×150	12	100×120×150	12

U 3 S V/ X/ G - 350/10 T

type

nominal flow-rate m³/h

stainless steel hydraulic part

"V": vertical with overlapped inlet and outlet
"L": vertical with in-line inlet and outlet

stainless steel pump body (without "X": cast iron)

coupling

nominal power HPx100

3-
No. of impellers



ULTRA SLG/SLXG

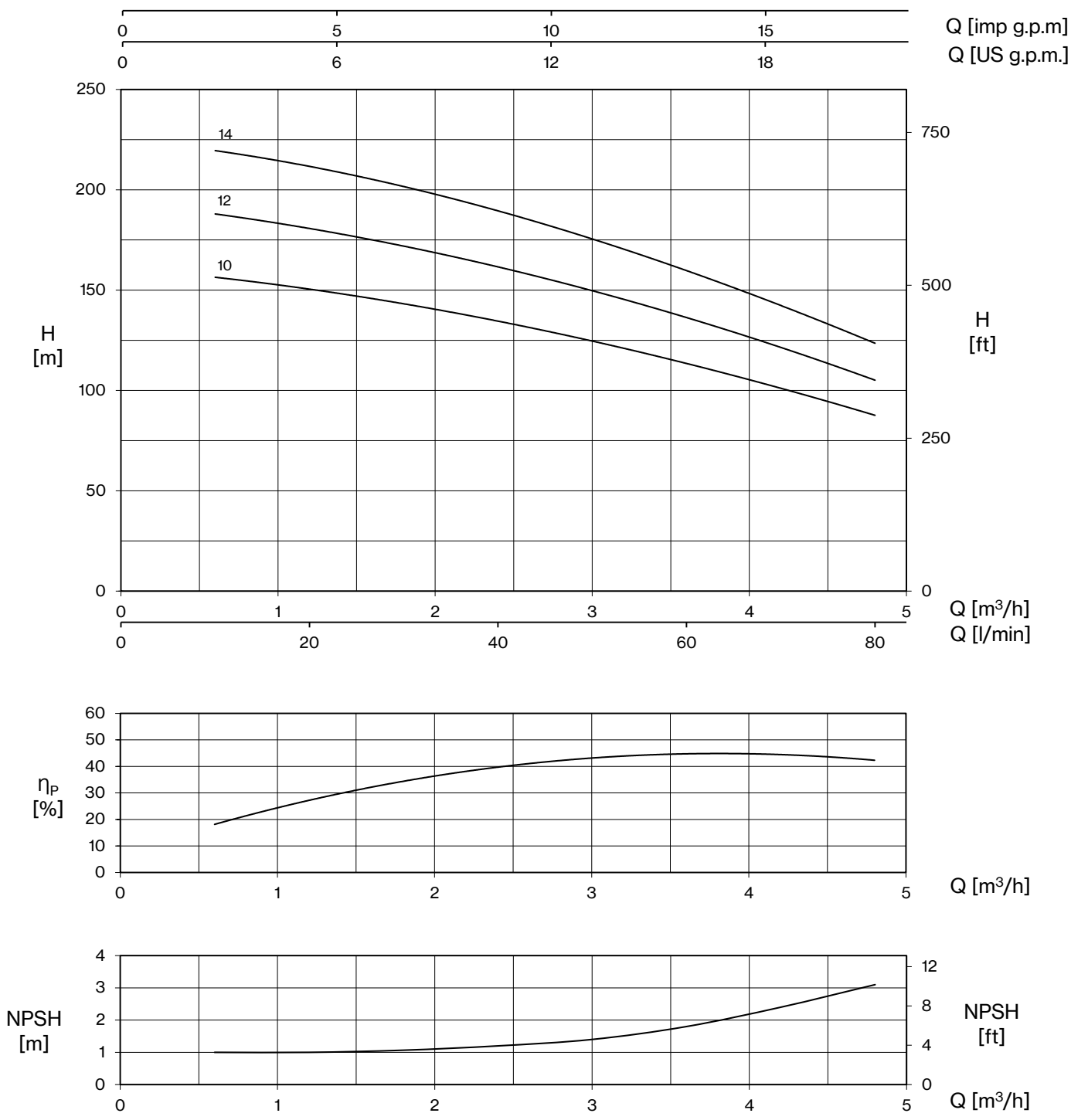
TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)								
3~				3~	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8
					0	10	20	30	40	50	60	70	80
				3x380 V 60 Hz	H (m)								
HP	kW	3~											
U 3...350/10T	4	3	3,1	6,1	159,5	156,4	150,4	143,2	134,6	124,6	113,4	101,1	87,6
U 3...400/12T	4	3	3,6	6,9	191,7	188,1	180,5	172,0	161,7	149,7	136,3	121,4	105,2
U 3...450/14T	5,5	4	4,3	8,3	223,8	219,7	211,4	201,6	189,8	175,5	159,6	142,3	123,6

TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)									
3~				3~	0	1,8	2,4	3,6	4,2	4,8	6	7,2	8,4	9
					0	30	40	60	70	80	100	120	140	150
				HP	kW	3~	3x380 V 60 Hz	H (m)						
U 5...450/10T	5,5	4	4,4	8,5	163,4	157,8	154,5	147,8	143,8	138,1	126,0	110,7	89,5	76,7
U 5...550/12T	7,5	5,5	5,4	10,7	197,0	190,8	187,6	179,4	175,4	168,4	154,3	135,8	111,0	95,5
U 5...750/14T	7,5	5,5	6,2	11,6	229,9	222,5	218,4	209,3	203,5	196,4	179,9	158,8	129,8	110,8

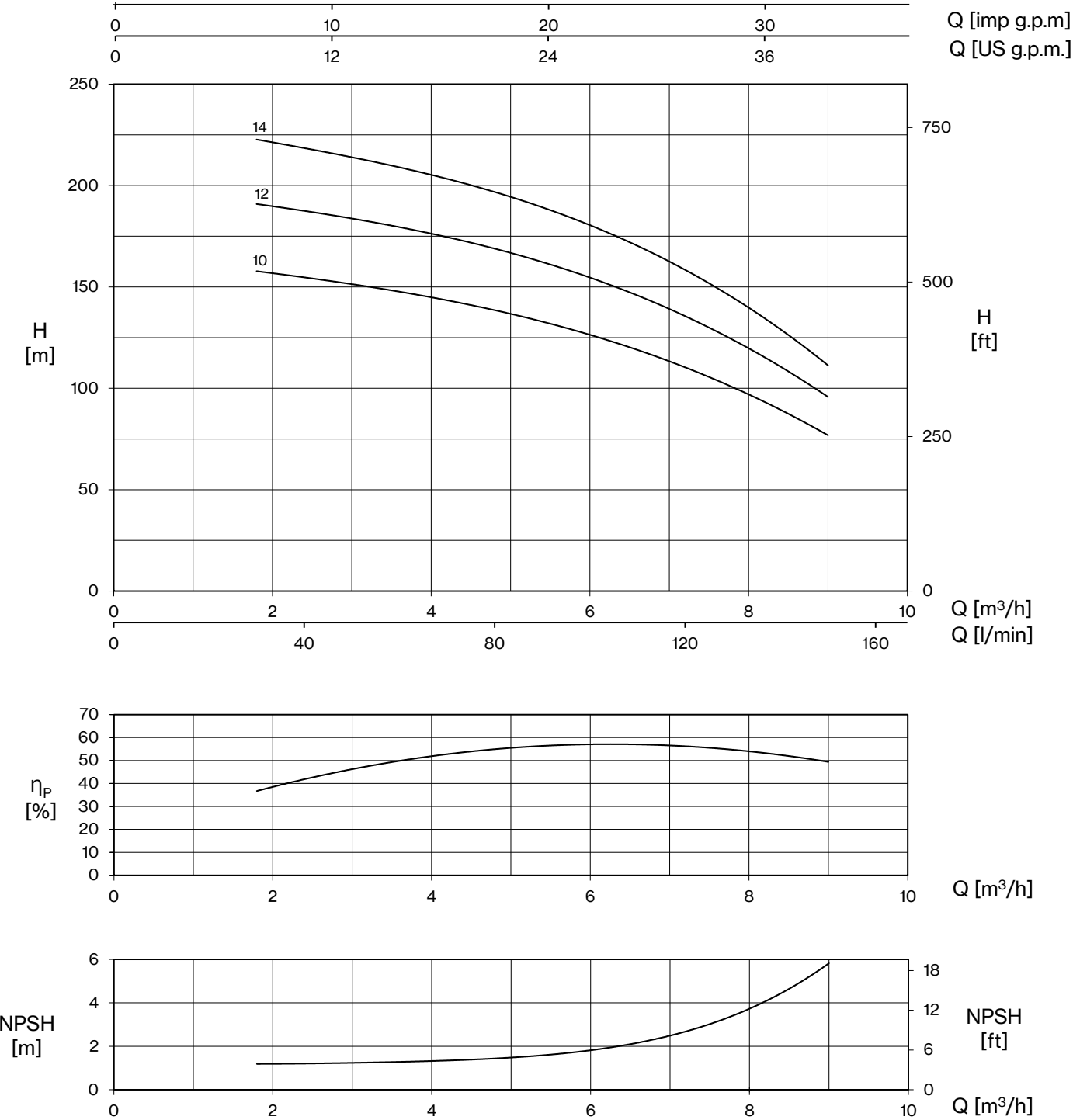
TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)									
3~				3~	0	3,6	4,2	4,8	6	7,2	8,4	9	9,6	10,8
					0	60	70	80	100	120	140	150	160	180
				HP	kW	3~	3x380 V 60 Hz	H (m)						
U 7...800/10T	10	7,5	7,1	14,0	172,4	173,3	172,2	170,2	164,5	157,0	147,4	145,1	135,6	119,0
U 7...900/12T	10	7,5	8,4	15,8	206,6	207,3	205,7	203,2	196,1	187,1	175,4	173,0	160,9	140,6

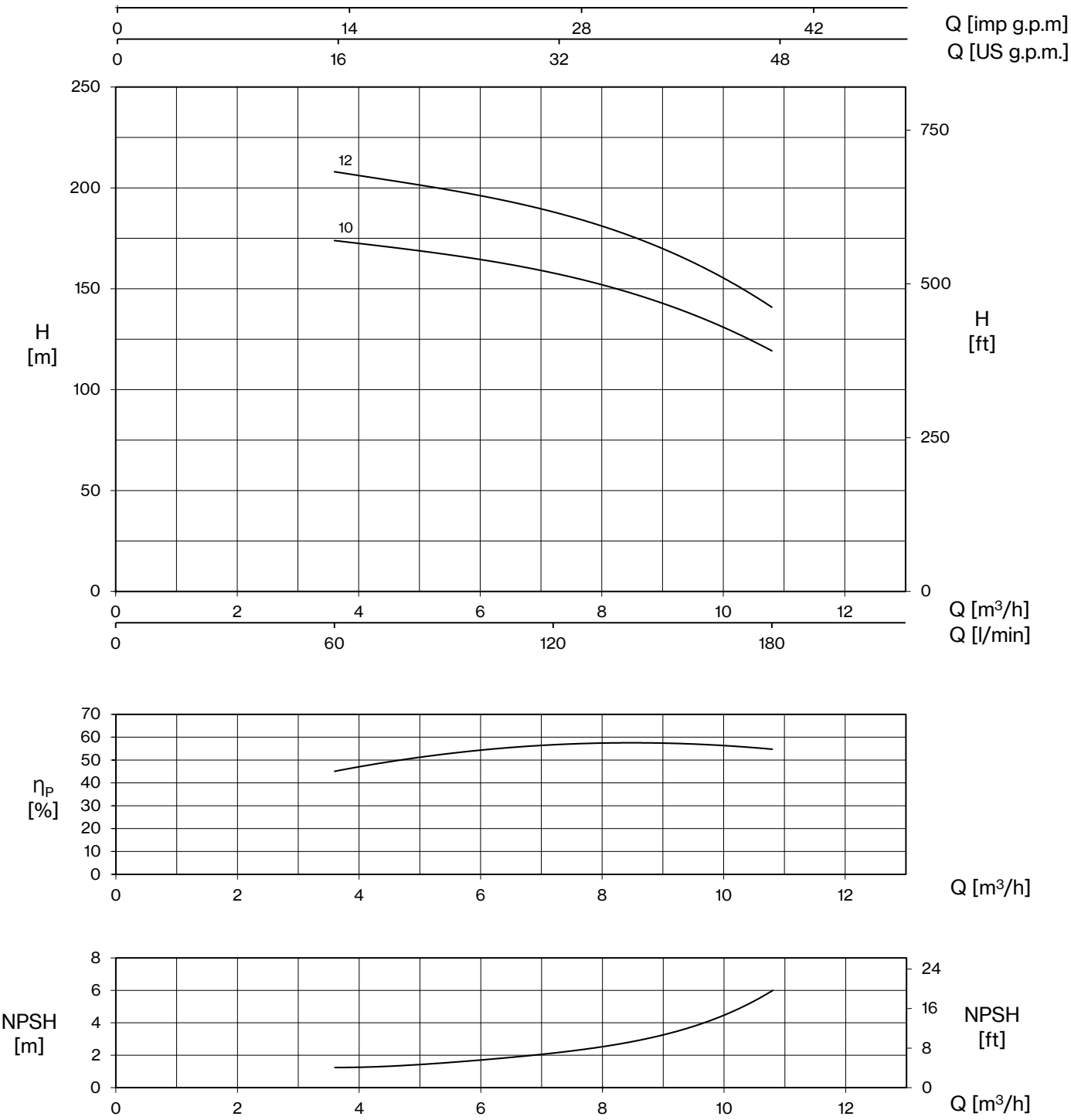
TYPE	P2		P1 (kW)	AMPERE	Q (m³/h - l/min)									
3~				3~	0	4,2	6	8,4	9,6	11,4	12	13,2	14,4	15,6
					0	70	100	140	160	190	200	220	240	260
				HP	kW	3~	3x380 V 60 Hz	H (m)						
U 9...800/10T	10	7,5	7,5	13,8	169,5	159,5	155,1	144,2	137,9	126,2	121,1	109,2	94,5	78,2
U 9...900/12T	10	7,5	8,9	16,5	203,7	192,3	187,2	174,5	167,1	153,4	147,3	132,9	115,5	96,0



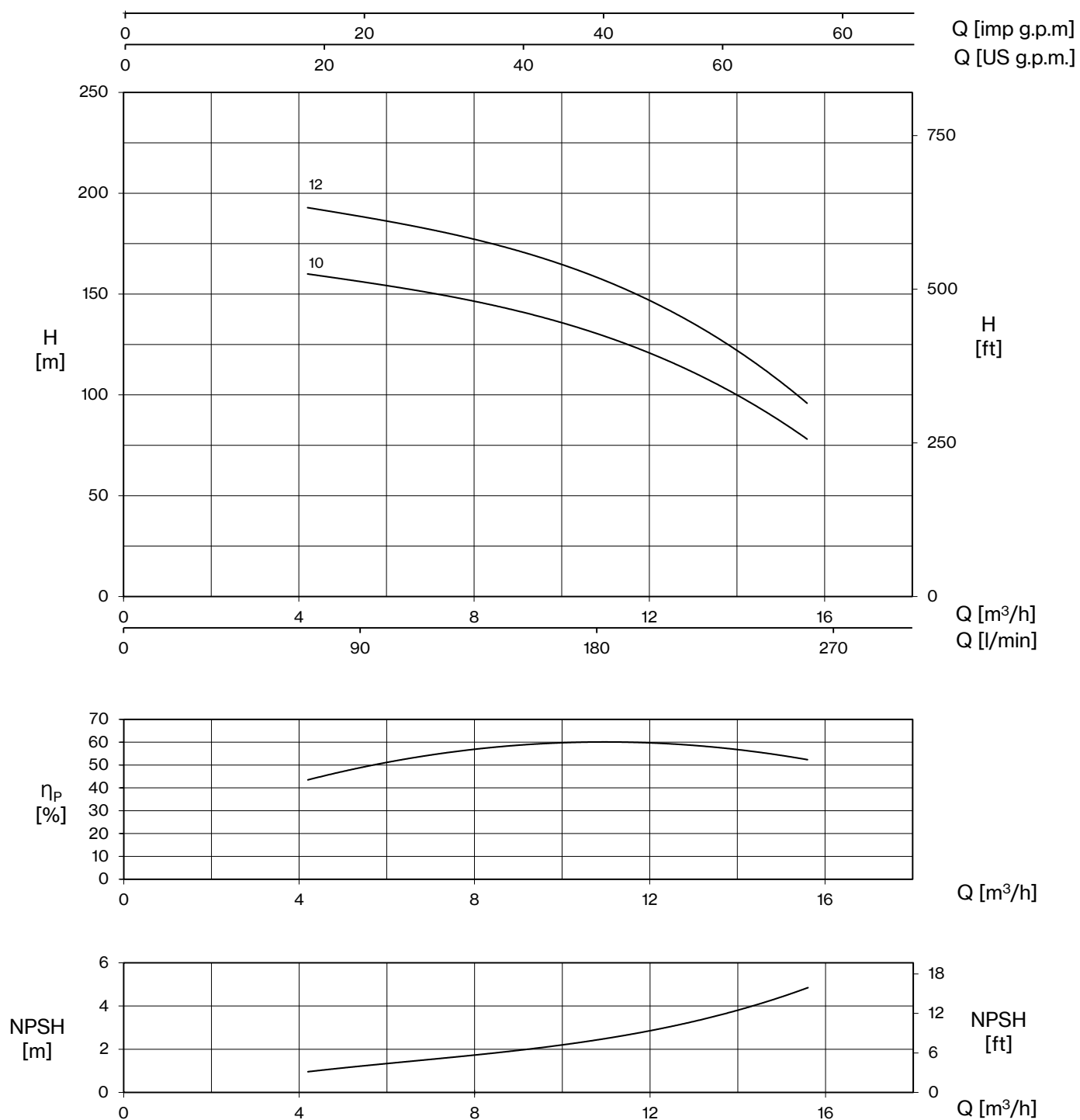


ULTRA 5 SLG/SLXG

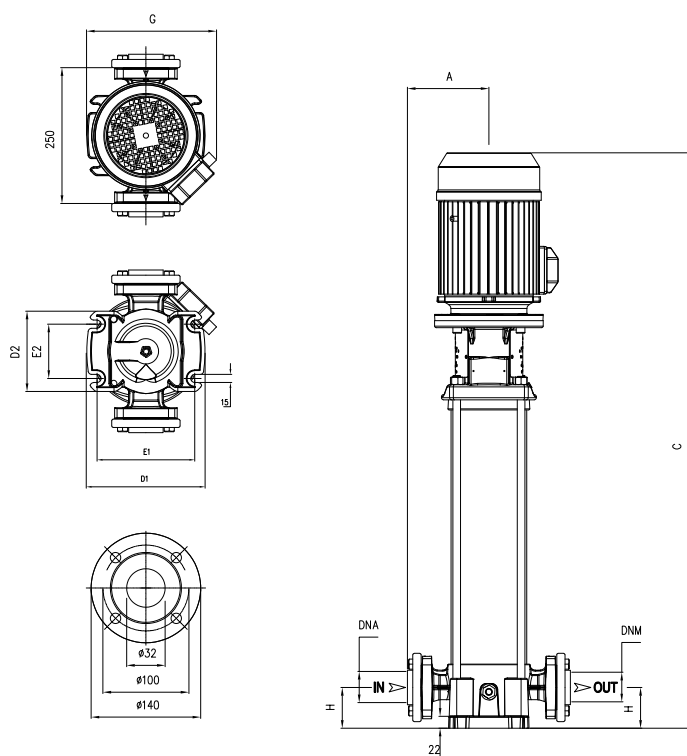




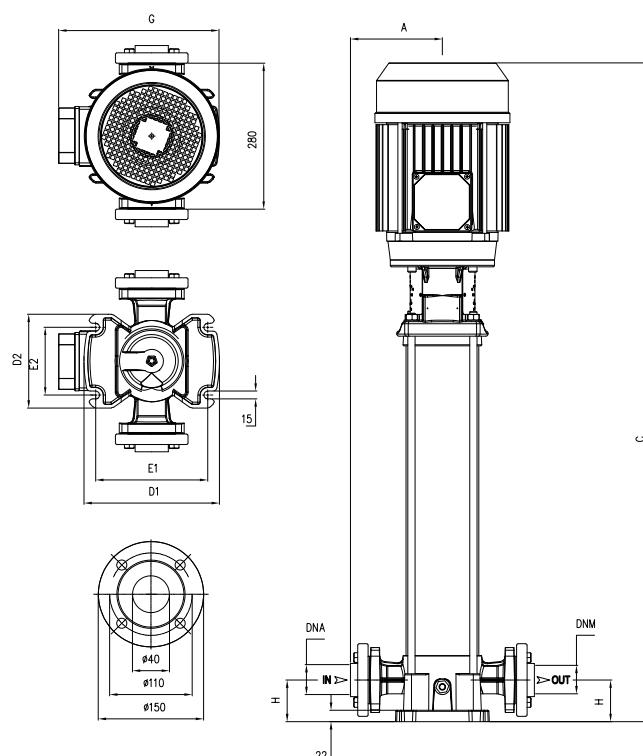
ULTRA 9 SLG/SLXG



U 3-5-7 SLG/SLXG



U 9 SLG/SLXG



TYPE	DIMENSIONS (mm)										Kg	
	A	C	D1	D2	E1	E2	G	H	DNA	DNM	SLG	SLXG
U 3SLG-350/10T	155	833	220	150	180	100	236	75				46,5
U 3SLG-400/12T	155	881	220	150	180	100	236	75	1" ¼ G	1" ¼ G		50
U 3SLG-450/14T	155	951	220	150	180	100	251	75				62
U 3SLXG-350/10T	155	833	260	180	215	130	236	75				46
U 3SLXG-400/12T	155	881	260	180	215	130	236	75	1" ¼ G	1" ¼ G		50
U 3SLXG-450/14T	155	951	260	180	215	130	251	75				62
U 5SLG-450/10T	155	855	220	150	180	100	251	75	1" ¼ G	1" ¼ G		59,5
U 5SLG-550/12T	155	903	220	150	180	100	251	75				69
U 5SLG-750/14T	155	1000	220	150	180	100	260	75				70
U 5SLXG-450/10T	155	855	260	180	215	130	251	75	1" ¼ G	1" ¼ G		59,5
U 5SLXG-550/12T	155	903	260	180	215	130	251	75				69
U 5SLXG-750/14T	155	1000	260	180	215	130	260	75				70
U 7SLG-800/10T	155	904	220	150	180	100	260	75	1" ¼ G	1" ¼ G		67,5
U 7SLG-900/12T	155	989	220	150	180	100	260	75				73,5
U 7SLXG-800/10T	155	904	260	180	215	130	260	75	1" ¼ G	1" ¼ G		67,5
U 7SLXG-900/12T	155	989	260	180	215	130	260	75				73,5
U 9SLG/SLXG-800/10T	170	979	260	180	215	130	280	80	1" ½ G	1" ½ G	67,5	69,5
U 9SLG/SLXG-900/12T	170	1076	260	180	215	130	308	80			77	77

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

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL
	U3-120/4, U5-180/4, U7-300/4, U9-350/4, U18-400/3, U18-550/4	14mm / S	Rotating face Stationary face Elastomer	Graphite Ceramic EPDM	SiC SiC EPDM
	U3-150/5, U3-200/6, U3-250/7, U3-300/8, U5-250/5, U5-300/6, U5-350/7, U5-400/8, U7-400/5, U7-450/6, U7-550/7, U9-400/5, U9-450/6, U9-550/7, U9-750/8	14mm	Rotating face Stationary face Elastomer	Graphite SiC EPDM	SiC SiC EPDM
	U18-750/5, U18-900/6, U18-950/7, U18-1000/8	14mm / L	Rotating face Stationary face Elastomer	Graphite Ceramic EPDM	SiC SiC EPDM
	U3-350/10, U3-400/12, U3-450/14, U3-550/16, U5-450/10, U5-550/12, U5-750/14, U7-800/10, U7-900/12, U7-1000/14, U9-800/10, U9-900/12, U9-1000/14	14mm / Balanced seal	Rotating face Stationary face Elastomer	Tungsten carbide Graphite EPDM	- - -

BEARINGS	PUMP MODEL	TYPE	
	U3-120/4	6202-ZZ	6302-ZZ C3
	U3-150/5, U3-200/6, U3-250/7, 3- U3-300/8, U 5-180/4, U5-250/5, 3- U5-300/6, 3- U7-300/4	6204-ZZ	6304-ZZ C3
	1- U3-300/8, U3-350/10, U3-400/12, 1- U5-300/6, U5-350/7, U5-400/8, 1- U7-300/4, U7-400/5, U9-350/4, U9-400/5, U18-400/3	6203-ZZ	6305-ZZ C3
	U7-450/6, U7-550/7, U9-450/6, U9-550/7, U18-550/4	6204-ZZ	6306-ZZ-C3
	U3-450/14, U3-550/16, U5-450/10	6204-ZZ	3206-ZZ C3
	U5-550/12, U5-750/14, U7-750/8, U7-800/10, U7-900/12, U9-750/8, U9-800/10, U9-900/12, U18-750/5, U18-900/6	6206-ZZ C3	3306-ZZ C3
	U7-1000/14, U9-1000/14, U18-950/7, U18-1000/8	6206-ZZ C3	3308-ZZ C3



ULTRA HX

Multistage Vertical

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

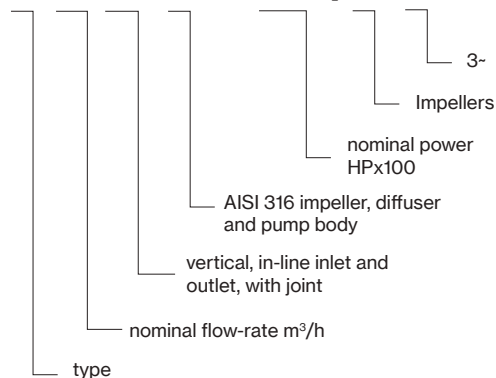
Pump body	EN 1.4401 / AISI 316
Motor bracket	cast iron
Seal Plate Housing	EN 1.4401 / AISI 316
Impellers, diffusers, shell, pump shaft	EN 1.4401 / AISI 316
Mechanical seal	silicon carbide-graphite-EPDM
Ambient temperature	max 40° C
Liquid temperature	-15 ÷ +120 °C (Max 85° for domestic use)
Max operating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

Motor

2 pole induction motor	3~ 220/380V-60Hz P 4kW, size B14 V1
	3~ 380/660V-60Hz P > 4kW, size B5 V1
	IE3 efficiency class
Insulation class	F
Protection degree	IP55



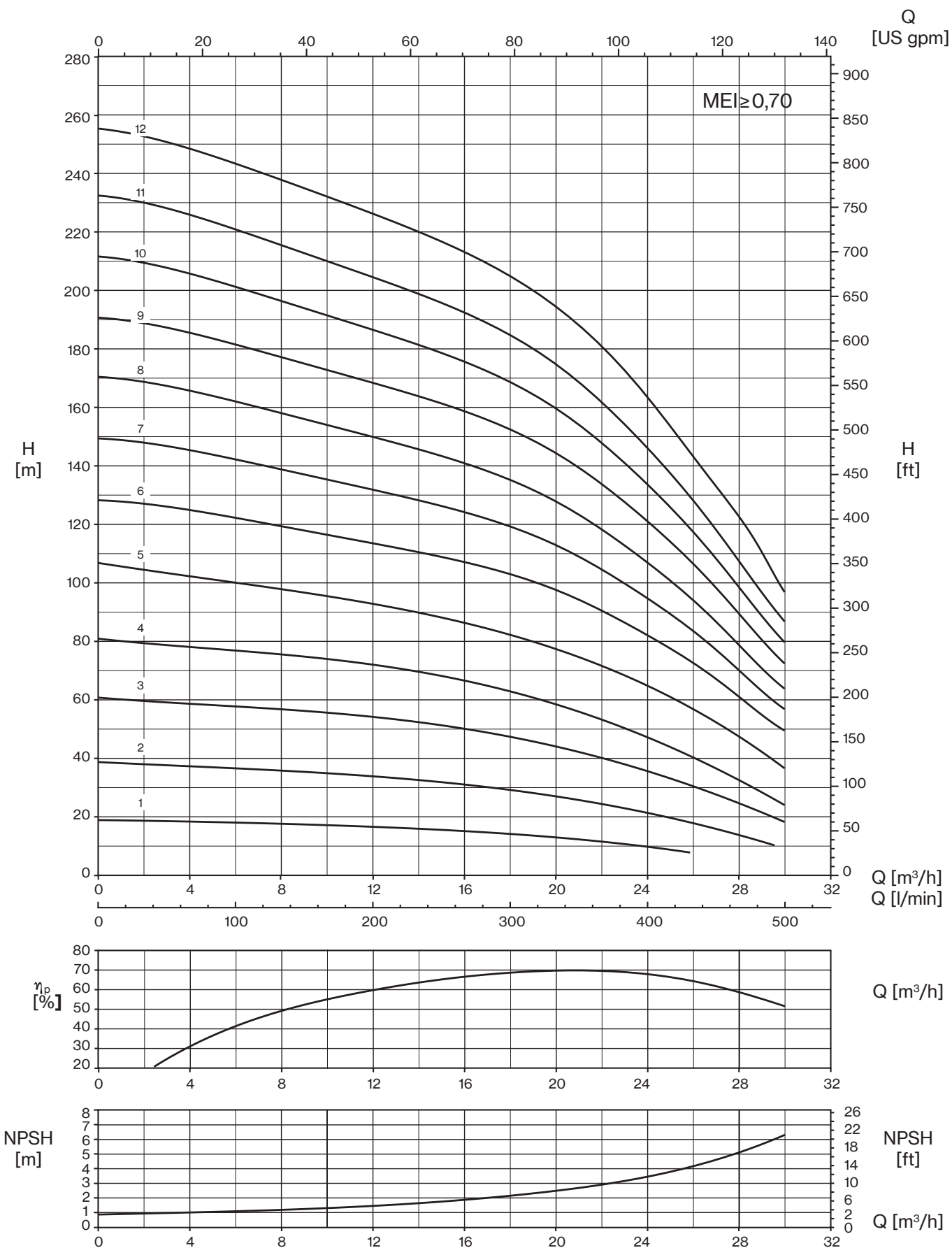
U 18 H X - 200/1 T



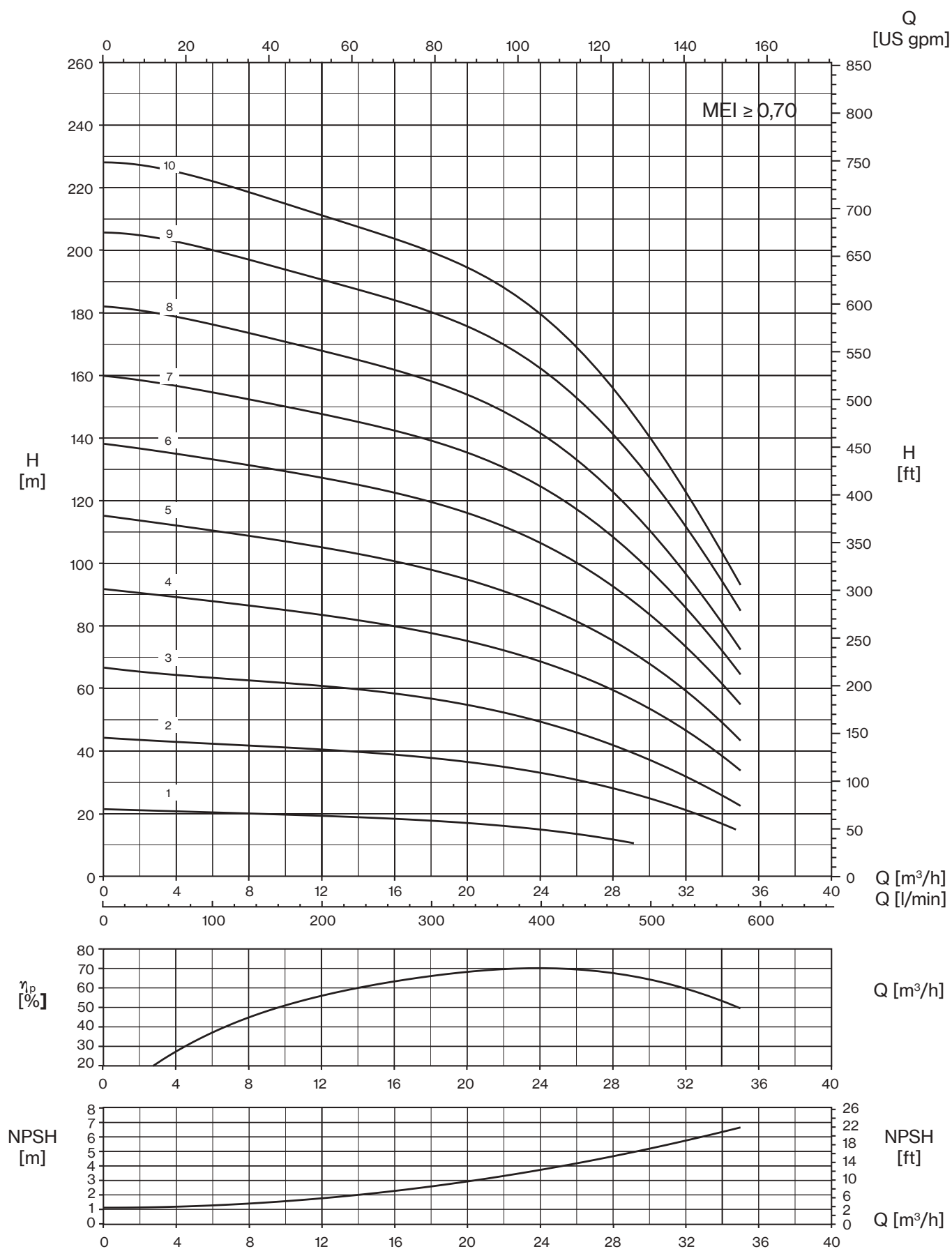
ULTRA 18-22 HX

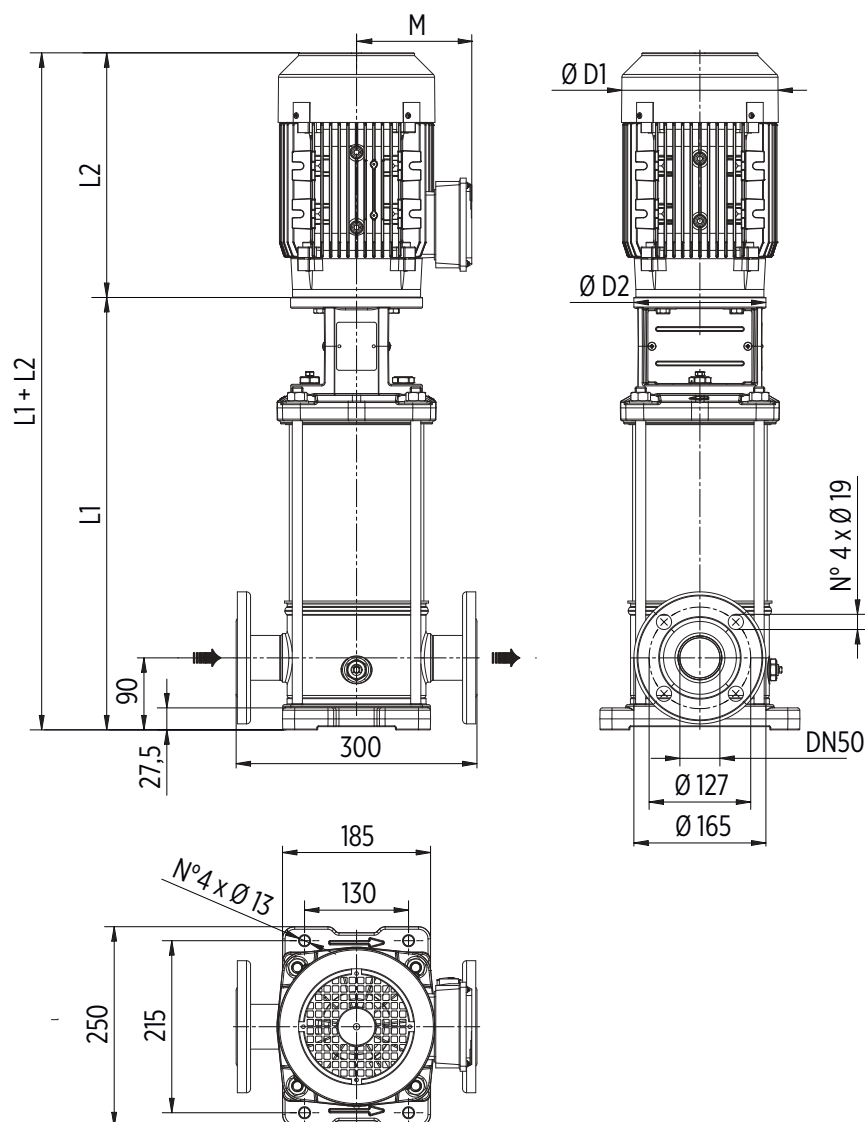
TYPE	P2		Q (l/min - m³/h - US gpm)										
			0	166,7	200,0	233,3	283,3	333,3	383,3	433,3	466,7	516,7	566,7
			0	10	12	14	17	20	23	26	28	31	34
			0	44,0	52,8	61,6	74,7	87,9	101,1	114,3	123,1	136,3	149,5
3-	H (m)												
	kW	HP											
U 18HX-200/1 T	1,5	2	18,8	17,1	16,7	16,0	14,8	13,0	10,7	7,7	-		
U 18HX-400/2 T	3	4	38,6	34,9	33,9	32,4	30,4	27,2	23,0	17,6	13,7		
U 18HX-550/3 T	4	5,5	60,3	55,4	54,1	52,0	49,0	44,5	38,4	30,1	24,3		
U 18HX-750/4 T	5,5	7,5	80,3	73,7	71,9	69,1	65,1	59,1	50,9	39,9	32,1		
U 18HX-1000/5 T	7,5	10	106,2	94,7	92,6	89,7	84,3	78,1	68,9	56,4	47,0		
U 18HX-1500/6 T	11	15	128,3	116,4	113,9	110,6	104,8	97,9	86,7	72,4	61,1		
U 18HX-1500/7 T	11	15	149,5	135,2	132,3	128,4	121,5	113,2	100,0	83,3	70,2		
U 18HX-1500/8 T	11	15	170,6	153,9	150,4	145,8	137,8	128,2	113,0	93,9	78,9		
U 18HX-2000/9 T	15	20	190,8	172,6	168,9	164,0	155,3	144,8	127,9	106,4	89,5		
U 18HX-2000/10 T	15	20	211,7	191,3	187,1	181,6	171,8	160,0	141,2	117,3	98,5		
U 18HX-2000/11 T	15	20	232,6	209,8	205,1	199,0	188,2	175,2	154,4	128,1	107,5		
U 18HX-2500/12 T	18,5	25	255,3	231,7	226,8	220,4	208,8	194,9	172,5	143,9	121,3		
U 22HX-300/1 T	2,2	3	20,7		18,6	18,4	17,5	16,5	14,9	12,8	11,0	11,3	
U 22HX-550/2 T	4	5,5	43,5		39,8	39,1	37,8	36,2	33,6	30,3	27,5	22,3	16,2
U 22HX-750/3 T	5,5	7,5	65,7		60,1	58,8	56,9	54,5	50,7	45,9	41,4	33,6	24,6
U 22HX-1000/4 T	7,5	10	91,2		82,6	81,0	78,1	74,6	70,9	64,2	58,5	49,3	37,9
U 22HX-1500/5 T	11	15	114,7		104,2	102,2	98,6	94,2	89,7	81,4	74,3	62,8	48,6
U 22HX-1500/6 T	11	15	137,6		126,5	123,9	120,1	115,7	110,4	100,4	91,8	77,5	60,7
U 22HX-2000/7 T	15	20	159,5		147,1	144,1	139,9	135,0	129,0	117,5	107,5	90,9	71,4
U 22HX-2000/8 T	15	20	182,0		167,5	164,1	159,1	153,5	146,5	133,3	121,9	102,8	80,5
U 22HX-2500/9 T	18,5	25	206,0		190,5	186,8	181,4	175,1	167,6	153,1	140,3	119,0	93,9
U 22HX-2500/10 T	18,5	25	228,6		211,2	207,0	201,0	193,9	185,4	169,2	154,9	131,2	103,3





ULTRA 22 HX

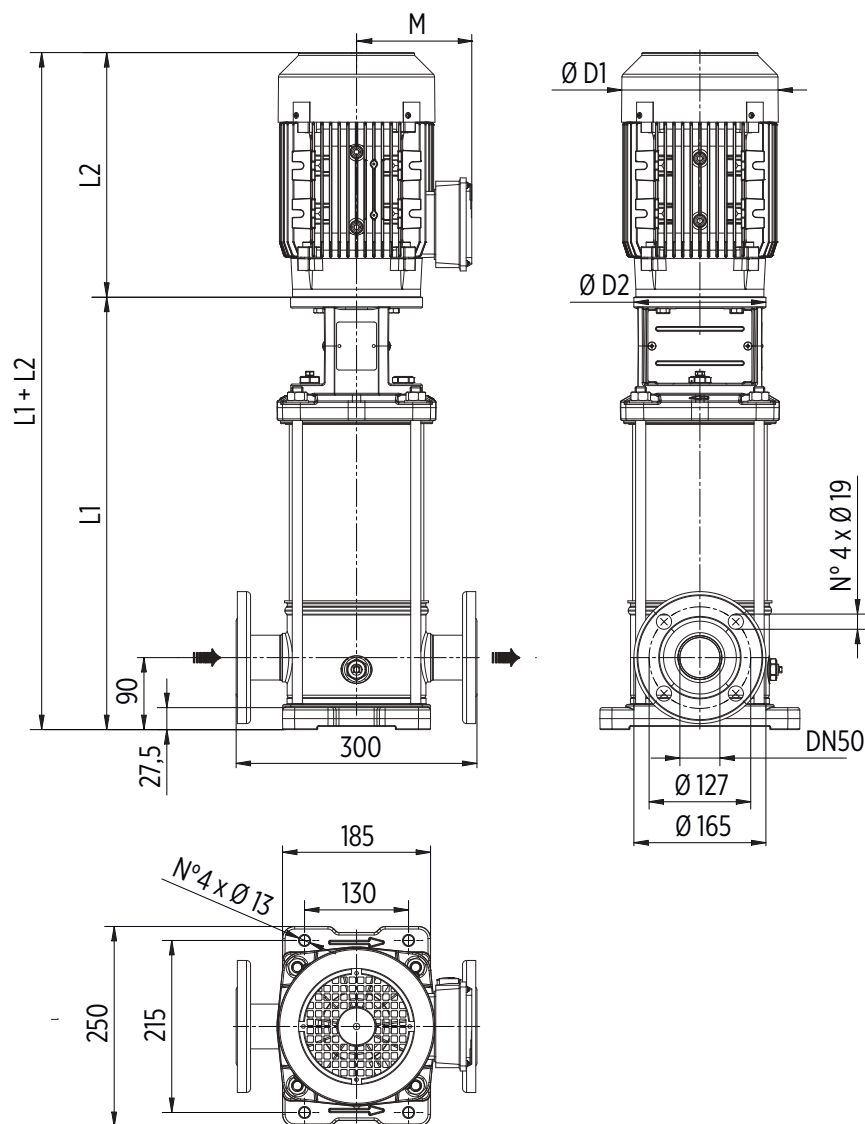




Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

TYPE	MOTOR		DIMENSIONS (mm)						Kg		
	kW	Dim	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric Pump
U 18HX-200/1 T	1,5	90	396	280	145	177	170	676	18,5	23	42
U 18HX-400/2 T	3	100	396	333	157	205	170	729	20	35	55
U 18HX-550/3 T	4	112	444	350	177	220	170	794	21,5	43	65
U 18HX-750/4 T	5,5	132	704	400	197	256	300	1104	42,5	66	109
U 18HX-1000/5 T	7,5	132	752	400	197	256	300	1152	44	73	117
U 18HX-1500/6 T	11	160	820	503	255	315	350	1323	48,5	120	169
U 18HX-1500/7 T	11	160	868	503	255	315	350	1371	50	120	170
U 18HX-1500/8 T	11	160	916	503	255	315	350	1419	51,5	120	172
U 18HX-2000/9 T	15	160	964	503	255	315	350	1467	53	132	185
U 18HX-2000/10 T	15	160	1012	503	255	315	350	1515	54,5	132	187
U 18HX-2000/11 T	15	160	1060	503	255	315	350	1563	55,5	132	188
U 18HX-2500/12 T	18,5	160	1108	598	252	315	350	1706	57	150	207

ULTRA 22 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
U 22HX-300/1 T	2,2	90	396	308	145	177	170	704	18,5	26	45
U 22HX-550/2 T	4	112	396	350	177	220	170	746	20	43	63
U 22HX-750/3 T	5,5	132	656	400	197	256	300	1056	41	66	107
U 22HX-1000/4 T	7,5	132	704	400	197	256	300	1104	42,5	73	116
U 22HX-1500/5 T	11	160	772	503	255	315	350	1275	47	120	167
U 22HX-1500/6 T	11	160	820	503	255	315	350	1323	48,5	120	169
U 22HX-2000/7 T	15	160	868	503	255	315	350	1371	50	132	182
U 22HX-2000/8 T	15	160	916	503	255	315	350	1419	51,5	132	184
U 22HX-2500/9 T	18,5	160	964	598	252	315	350	1562	53	150	203
U 22HX-2500/10 T	18,5	160	1012	598	252	315	350	1610	54,5	150	205

ULTRA HS/HX

Multistage Vertical

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

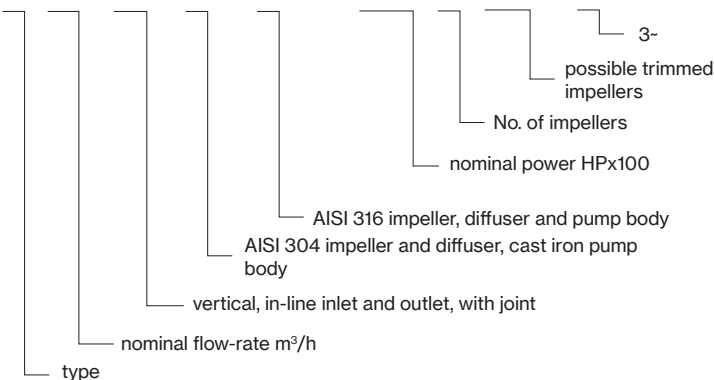
Pump body	cast iron (HS) EN 1.4401 / AISI 316 (HX)
Motor bracket	cast iron
Seal plate housing	EN 1.4301 / AISI 304 (HS) EN 1.4401 / AISI 316 (HX)
Impellers, diffusers, shell	EN 1.4301 / AISI 304 (HS) EN 1.4401 / AISI 316 (HX)
Pump shaft	EN 1.4057 / AISI 431 (HS) EN 1.4460 / AISI 329 (HX)
Mechanical seal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

Motor

2 pole induction motor	3~ 220/380V-60Hz P 4kW, size B14 V1 3~ 380/660V-60Hz P > 4kW, size B5 V1
	IE3 efficiency class
Insulation class	F
Protection degree	IP55



U 35 H S / X - 750/2-2R T



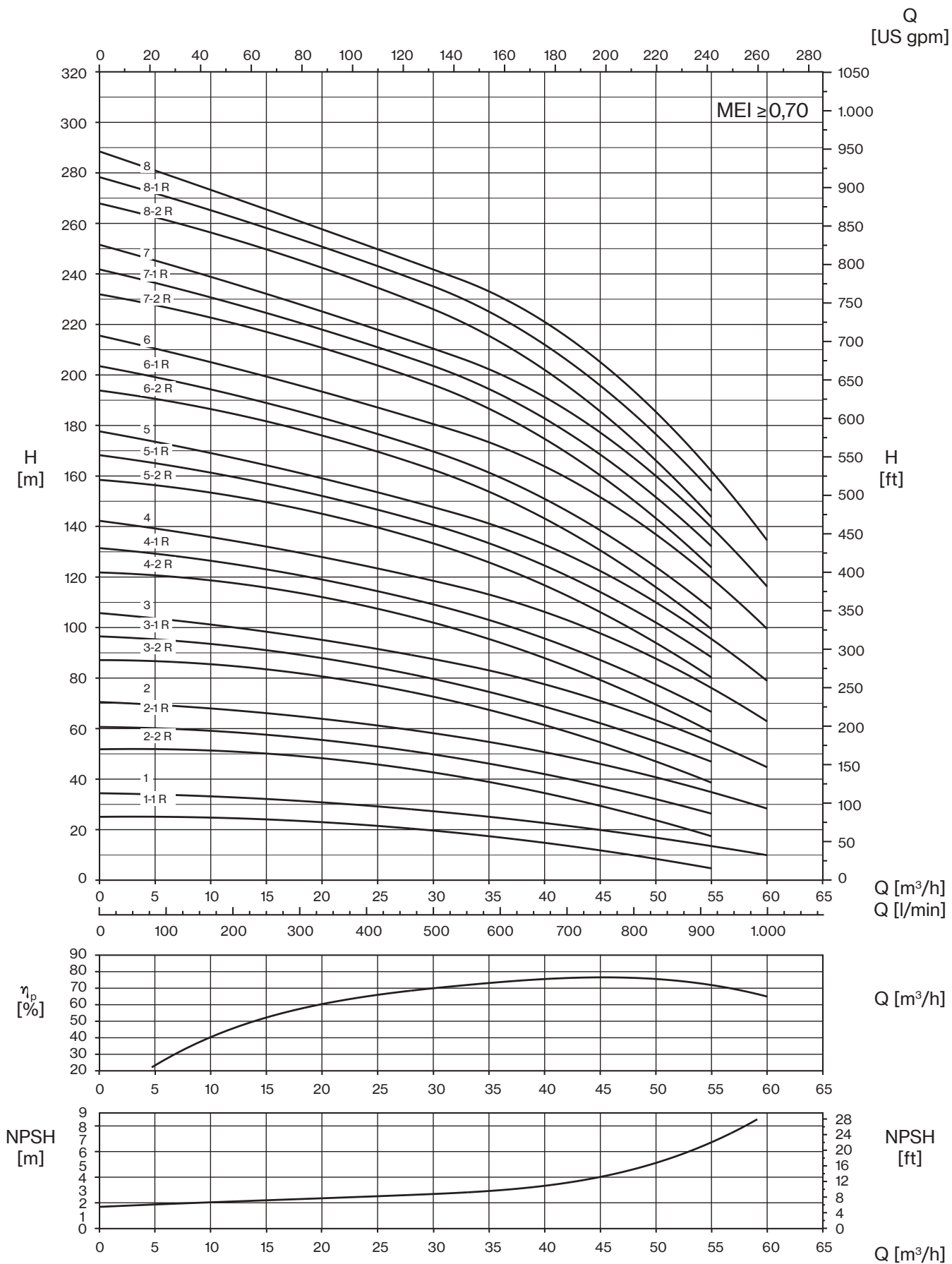
ULTRA 35-50 HS/HX

TYPE	P2		Q (l/min - m³/h - US gpm)										
			0	466,7	533,3	600,0	666,7	733,3	800,0	900,0	1000,0	1100,0	1233,3
			0	28	32	36	40	44	48	54	60	66	74
			0	123,1	140,7	158,3	175,9	193,5	211,0	237,4	263,8	290,2	325,4
3~			H (m)										
	kW	HP											
U 35....400/1-1R T	3	4	25,6	20,2	18,9	17,2	15,0	12,8	10,2				
U 35....550/1 T	4	5,5	35,6	28,1	26,6	25,0	23,4	21,2	18,6				
U 35....750/2-2R T	5,5	7,5	52,6	43,9	41,5	38,4	34,6	30,6	26,1				
U 35....1000/2-1R T	7,5	10	62,0	51,4	48,8	45,8	42,6	38,7	34,0				
U 35....1500/2 T	11	15	72,2	59,5	57,1	54,5	51,7	48,1	43,6				
U 35....1500/3-2R T	11	15	88,7	74,9	71,1	66,7	61,9	56,3	49,6				
U 35....1500/3-1R T	11	15	98,3	81,8	78,3	74,2	69,8	64,3	57,8				
U 35....2000/3 T	15	20	107,4	89,3	86,2	82,5	78,5	73,4	67,0				
U 35....2000/4-2R T	15	20	123,7	104,7	100,2	94,7	88,8	81,6	73,1				
U 35....2000/4-1R T	15	20	133,2	111,7	107,4	102,3	96,7	89,8	81,3				
U 35....2500/4 T	18,5	25	144,0	120,9	116,9	112,3	107,0	100,6	92,2				
U 35....2500/5-2R T	18,5	25	160,4	136,5	131,1	124,6	117,5	109,0	98,5				
U 35....2500/5-1R T	18,5	25	170,0	143,5	138,4	132,3	125,4	117,2	106,8				
U 35....3000/5 T	22	30	179,4	150,6	145,8	140,0	133,6	125,6	115,3				
U 35....3000/6-2R T	22	30	195,7	166,0	159,8	152,2	143,9	133,9	121,5				
U 35....3000/6-1R T	22	30	205,2	173,0	167,1	159,8	151,8	142,1	129,8				
U 35....4000/6 T	30	40	217,2	184,0	178,5	171,9	164,3	155,2	143,0				
U 35....4000/7-2R T	30	40	233,7	200,0	193,1	184,7	175,1	164,0	149,7				
U 35....4000/7-1R T	30	40	243,4	207,2	200,6	192,6	183,4	172,5	158,3				
U 35....4000/7 T	30	40	253,1	214,4	208,1	200,4	191,6	181,0	167,0				
U 35....4000/8-2R T	30	40	269,6	230,3	222,6	213,1	202,3	189,8	173,5				
U 35....5000/8-1R T	37	50	279,8	239,1	231,7	222,8	212,4	200,3	184,2				
U 35....5000/8 T	37	50	289,6	246,4	239,3	230,7	220,7	208,9	192,9				
U 50....750/1-1R T	5,5	7,5	29,0				24,1	23,0	21,9	19,6	17,2	14,4	10,2
U 50....1000/1 T	7,5	10	36,7				30,3	29,7	28,6	26,4	24,4	21,6	17,5
U 50....1500/2-2R T	11	15	57,2				50,9	49,1	47,1	43,1	38,9	34,3	26,6
U 50....1500/2-1R T	11	15	64,7				56,6	55,2	53,1	49,2	45,6	40,8	33,3
U 50....2000/2 T	15	20	71,2				62,0	60,8	59,2	55,6	51,9	47,2	40,1
U 50....2500/3-2R T	18,5	25	92,6				83,9	81,9	79,0	73,5	68,2	61,8	50,7
U 50....2500/3-1R T	18,5	25	99,5				89,0	87,2	84,6	79,4	74,1	67,6	57,0
U 50....2500/3 T	18,5	25	106,3				94,2	92,5	90,3	85,3	79,9	73,4	63,2
U 50....3000/4-2R T	22	30	126,9				114,7	112,2	108,6	101,8	94,7	86,4	72,2
U 50....4000/4-1R T	30	40	135,1				122,2	120,0	116,9	110,5	103,4	95,3	81,7
U 50....4000/4 T	30	40	142,0				127,5	125,4	122,7	116,5	109,4	101,4	88,1
U 50....4000/5-2R T	30	40	162,9				148,6	145,8	141,7	133,6	124,9	114,9	97,8
U 50....4000/5-1R T	30	40	169,8				153,8	151,1	147,5	139,7	130,8	120,9	104,2
U 50....5000/5 T	37	50	177,1				160,0	157,5	154,3	146,8	138,0	128,2	111,9
U 50....5000/6-2R T	37	50	198,0				181,2	178,0	173,5	164,1	153,6	141,9	121,8
U 50....5000/6-1R T	37	50	204,9				186,5	183,4	179,3	170,2	159,6	148,0	128,2
U 50....5000/6 T	37	50	211,8				191,8	188,8	185,0	176,2	165,6	154,0	134,6
U 50....6000/7-2R T	45	60	233,7				214,5	210,8	205,8	195,1	183,0	169,5	146,5
U 50....6000/7-1R T	45	60	240,7				219,8	216,2	211,6	201,3	189,0	175,6	152,9
U 50....6000/7 T	45	60	247,7				225,1	221,7	217,4	207,4	195,1	181,7	159,3

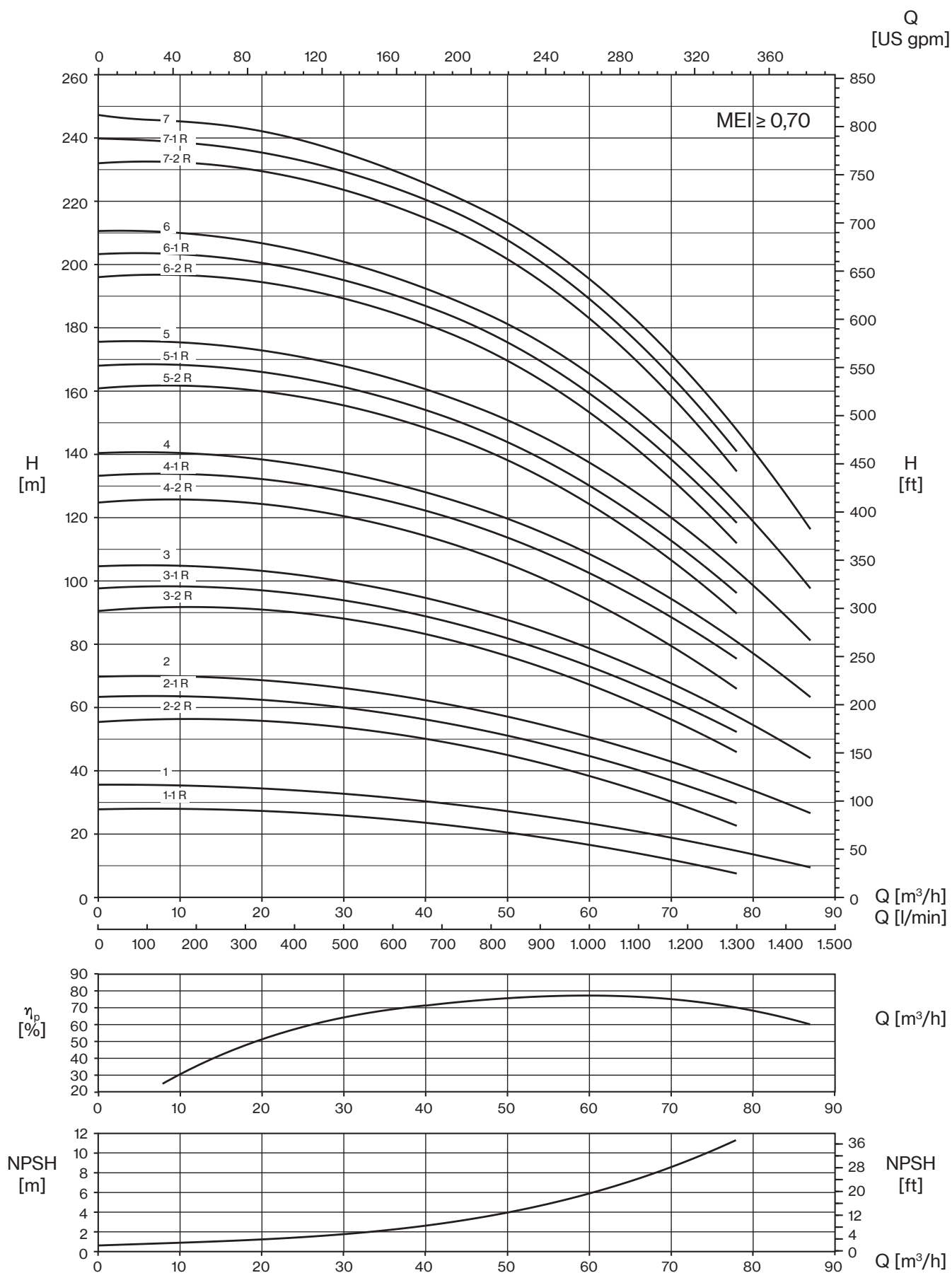


TYPE	P2		Q (l/min - m³/h - US gpm)											
			0	583,3	750,0	916,7	1083,3	1250,0	1416,7	1583,3	1750,0	1916,7	2166,7	2300,0
			0	35,0	45,0	55,0	65,0	75,0	85,0	95,0	105,0	115,0	130,0	138,0
			0	153,9	197,9	241,8	285,8	329,8	373,7	417,7	461,7	505,6	571,6	606,7
3~	H (m)													
	kW	HP												
U 75....1000/1-1R T	7,5	10	31,2	27,2	25,7	24,2	22,5	19,5	16,1	12,0	6,9			
U 75....1500/1 T	11	15	44,2	36,7	34,2	32,6	31,1	29,2	26,7	23,3	18,6			
U 75....2000/2-2R T	15	20	56,6	54,7	53,2	51,1	48,4	43,8	38,1	31,6	23,6			
U 75....2500/2-1R T	18,5	25	73,3	64,7	61,5	58,9	56,3	52,5	47,3	40,4	32,0			
U 75....3000/2 T	22	30	81,3	74,0	71,3	68,9	66,5	64,0	60,2	55,0	48,0			
U 75....3000/3-2R T	22	30	97,1	91,5	88,6	85,4	81,4	75,5	67,9	58,8	47,2			
U 75....4000/3-1R T	30	40	110,6	102,5	99,0	95,7	92,1	87,4	80,7	72,5	61,6			
U 75....4000/3 T	30	40	122,8	111,8	107,9	104,4	100,8	97,2	91,5	83,9	73,6			
U 75....5000/4-2R T	37	50	135,8	127,4	123,5	119,5	114,7	107,7	98,4	86,9	71,9			
U 75....5000/4-1R T	37	50	148,0	136,9	132,4	128,2	123,6	117,8	109,4	98,6	84,1			
U 75....6000/4 T	45	60	164,6	150,4	144,8	140,2	135,6	130,8	123,3	113,3	99,7			
U 75....6000/5-2R T	45	60	180,7	168,3	162,7	157,4	151,3	143,2	131,9	118,0	99,8			
U 75....6000/5-1R T	45	60	193,0	177,9	171,7	166,1	160,1	153,1	142,7	129,5	111,7			
U 90....1500/1-1R T	11	15	38,6			29,9	28,5	27,1	25,6	23,3	20,1	16,4	9,9	5,8
U 90....2000/1 T	15	20	52,3			39,5	36,1	33,8	32,3	30,7	28,5	25,5	19,8	16,2
U 90....2500/2-2R T	18,5	25	73,0			61,5	58,8	56,1	53,5	49,7	44,3	37,7	26,9	19,6
U 90....3000/2-1R T	22	30	86,7			71,0	66,4	62,8	60,1	56,9	52,5	46,7	36,5	29,7
U 90....4000/2 T	30	40	103,0			84,3	79,0	74,6	70,9	67,4	63,7	58,9	49,6	43,5
U 90....5000/3-2R T	37	50	122,8			104,5	98,6	93,7	89,9	85,3	79,0	70,3	56,1	46,1
U 90....5000/3-1R T	37	50	137,8			116,4	109,9	104,2	99,3	94,4	88,6	80,9	67,3	58,0
U 90....6000/3 T	45	60	153,7			129,1	122,1	115,5	109,6	104,4	99,1	92,4	79,6	71,0
U 90....6000/4-2R T	45	60	173,1			149,0	141,2	134,2	128,3	121,8	113,9	103,4	85,6	73,1

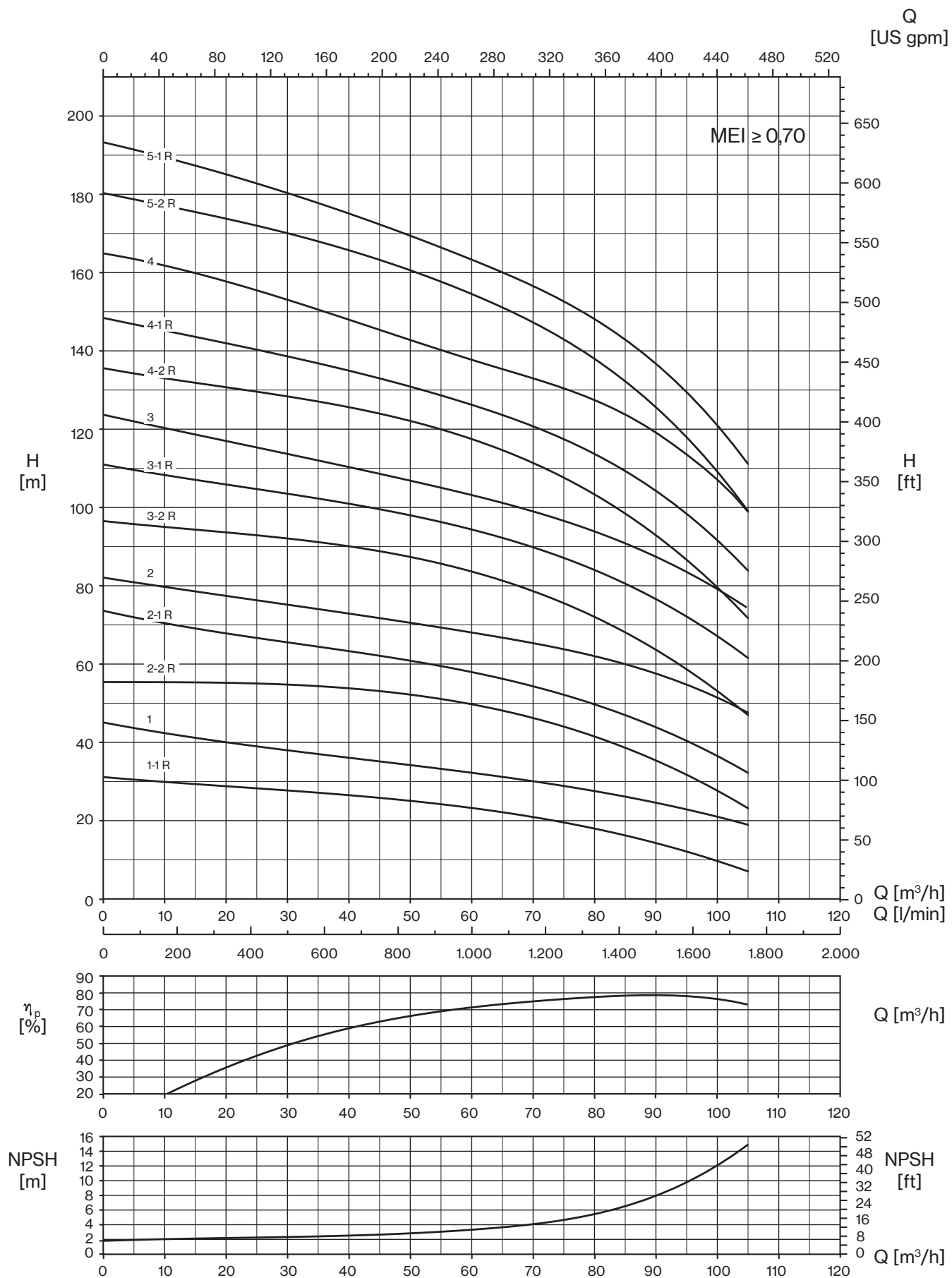
ULTRA 35 HS/HX



ULTRA 50 HS/HX

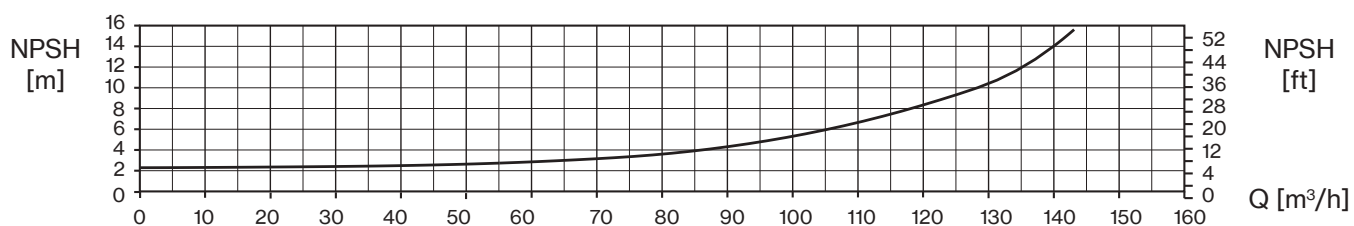
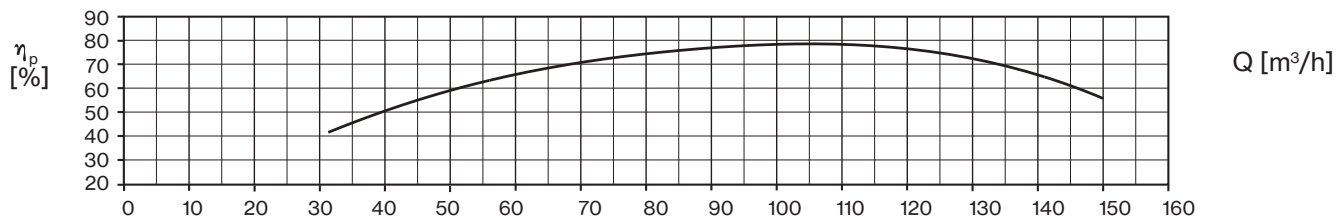
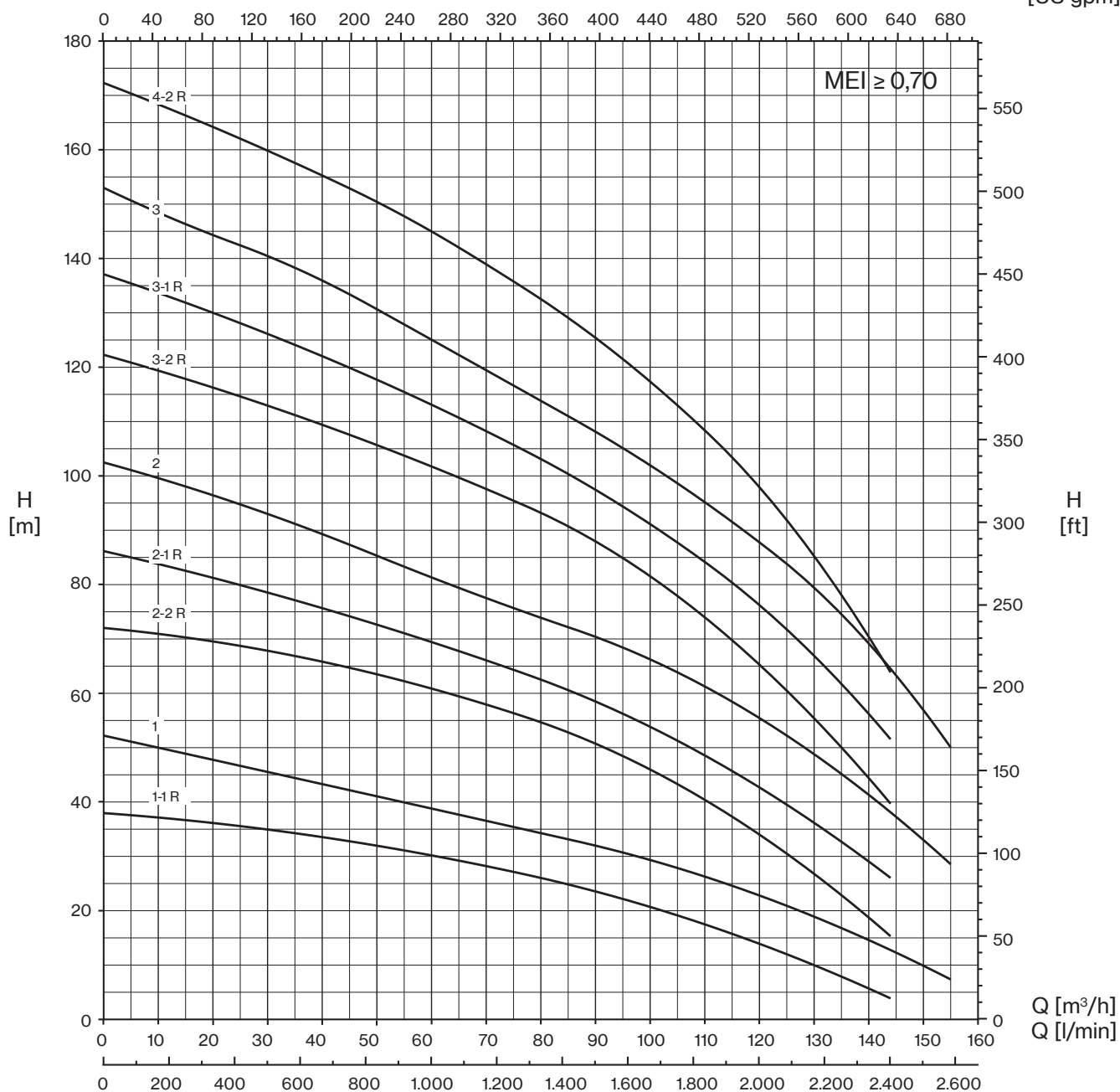


ULTRA 75 HS/HX



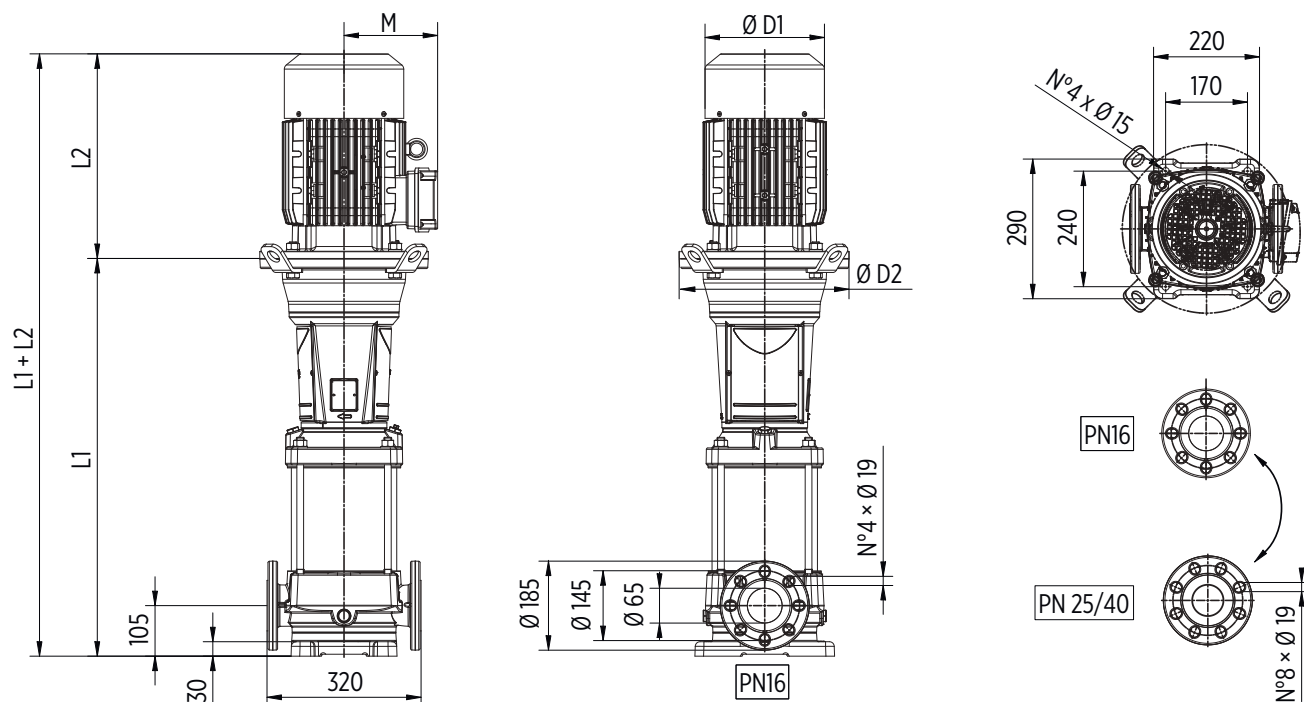
ULTRA 90 HS/HX

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[US gpm]



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

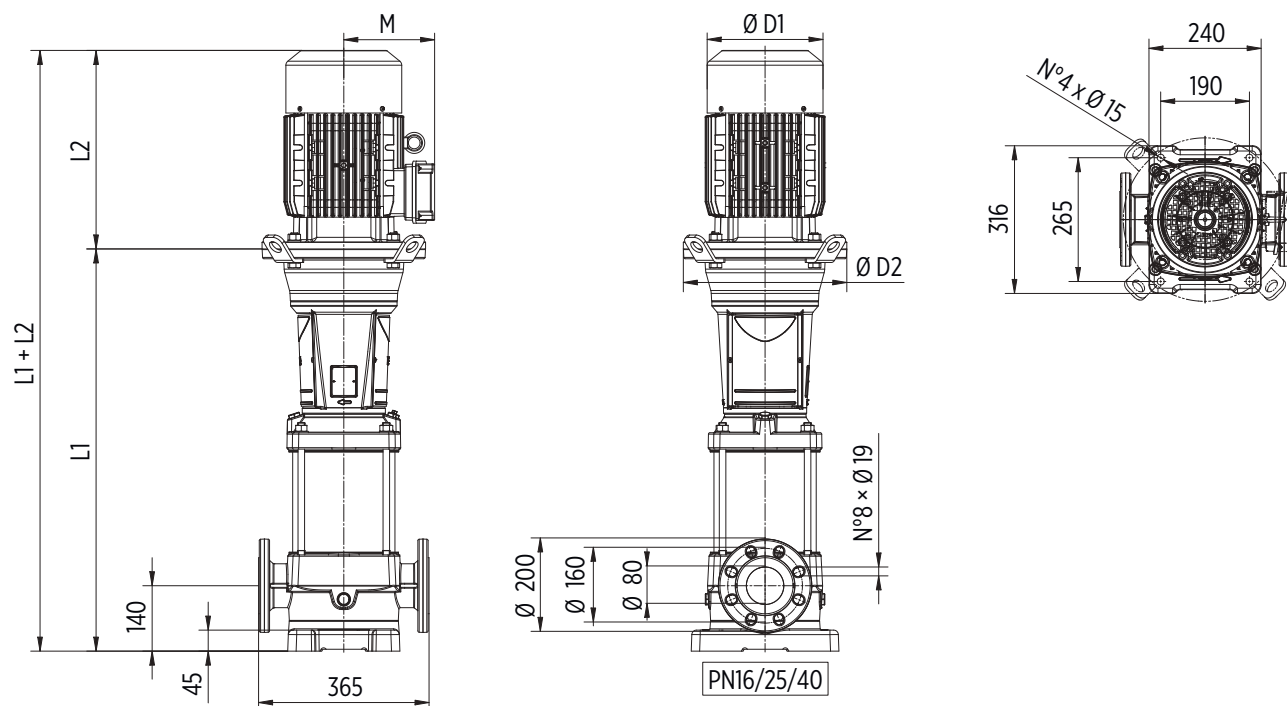
ULTRA 35 HS/HX



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
U 35....400/1-1R T	3	100	431	333	157	205	170	764	48	35	83
U 35....550/1 T	4	112	431	350	177	220	170	781	48	43	91
U 35....750/2-2R T	5,5	132	724	400	197	256	300	1124	72,5	66	138,5
U 35....1000/2-1R T	7,5	132	724	400	197	256	300	1124	72,5	73	145,5
U 35....1500/2 T	11	160	744	503	255	315	350	1247	76	120	196
U 35....1500/3-2R T	11	160	826	503	255	315	350	1329	80	120	200
U 35....1500/3-1R T	11	160	826	503	255	315	350	1329	80	120	200
U 35....2000/3 T	15	160	826	503	255	315	350	1329	80	132	212
U 35....2000/4-2R T	15	160	908	503	255	315	350	1411	84	132	216
U 35....2000/4-1R T	15	160	908	503	255	315	350	1411	84	132	216
U 35....2500/4 T	18,5	160	908	598	252	315	350	1506	84	150	234
U 35....2500/5-2R T	18,5	160	991	598	252	315	350	1589	88	150	238
U 35....2500/5-1R T	18,5	160	991	598	252	315	350	1589	88	150	238
U 35....3000/5 T	22	180	991	620	270	360	350	1611	87,5	205	292,5
U 35....3000/6-2R T	22	180	1073	620	270	360	350	1693	91,5	205	296,5
U 35....3000/6-1R T	22	180	1073	620	270	360	350	1693	91,5	205	296,5
U 35....4000/6 T	30	200	1078	661	303	400	400	1739	95	250	345
U 35....4000/7-2R T	30	200	1160	661	303	400	400	1821	99	250	349
U 35....4000/7-1R T	30	200	1160	661	303	400	400	1821	99	250	349
U 35....4000/7 R	30	200	1160	661	303	400	400	1821	99	250	349
U 35....4000/8-2R T	30	200	1242	661	303	400	400	1903	103	250	353
U 35....5000/8-1R T	37	200	1242	661	303	400	400	1903	103	270	373
U 35....5000/8 T	37	200	1242	661	303	400	400	1903	103	270	373

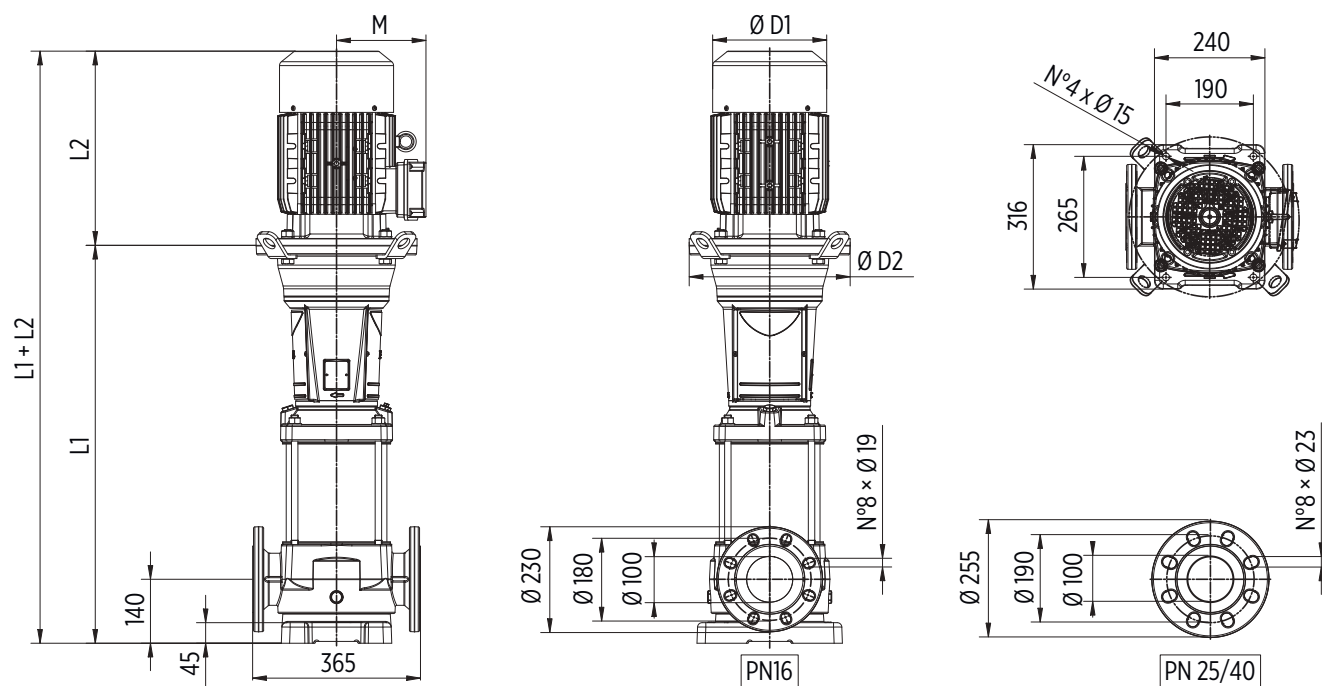
ULTRA 50 HS/HX



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
U 50....750/1-1R T	5,5	132	677	400	197	256	300	1077	74,5	66	140,5
U 50....1000/1 T	7,5	132	677	400	197	256	300	1077	74,5	73	147,5
U 50....1500/2-2R T	11	160	779	503	255	315	350	1282	81,5	120	201,5
U 50....1500/2-1R T	11	160	779	503	255	315	350	1282	81,5	120	201,5
U 50....2000/2 T	15	160	779	503	255	315	350	1282	81,5	132	213,5
U 50....2500/3-2R T	18,5	160	861	598	252	315	350	1459	85,5	150	235,5
U 50....2500/3-1R T	18,5	160	861	598	252	315	350	1459	85,5	150	235,5
U 50....2500/3 T	18,5	160	861	598	252	315	350	1459	85,5	150	235,5
U 50....3000/4-2R T	22	180	943	620	270	360	350	1563	89,5	205	294,5
U 50....4000/4-1R T	30	200	948	661	303	400	400	1609	92,5	250	342,5
U 50....4000/4 T	30	200	948	661	303	400	400	1609	92,5	250	342,5
U 50....4000/5-2R T	30	200	1031	661	303	400	400	1692	96,5	250	346,5
U 50....4000/5-1R T	30	200	1031	661	303	400	400	1692	96,5	250	346,5
U 50....5000/5 T	37	200	1031	661	303	400	400	1692	96,5	270	366,5
U 50....5000/6-2R T	37	200	1113	661	303	400	400	1774	100,5	270	370,5
U 50....5000/6-1R T	37	200	1113	661	303	400	400	1774	100,5	270	370,5
U 50....5000/6 T	37	200	1113	661	303	400	400	1774	100,5	270	370,5
U 50....6000/7-2R T	45	225	1195	710	312	450	450	1905	106,5	315	421,5
U 50....6000/7-1R T	45	225	1195	710	312	450	450	1905	106,5	315	421,5
U 50....6000/7 T	45	225	1195	710	312	450	450	1905	106,5	315	421,5

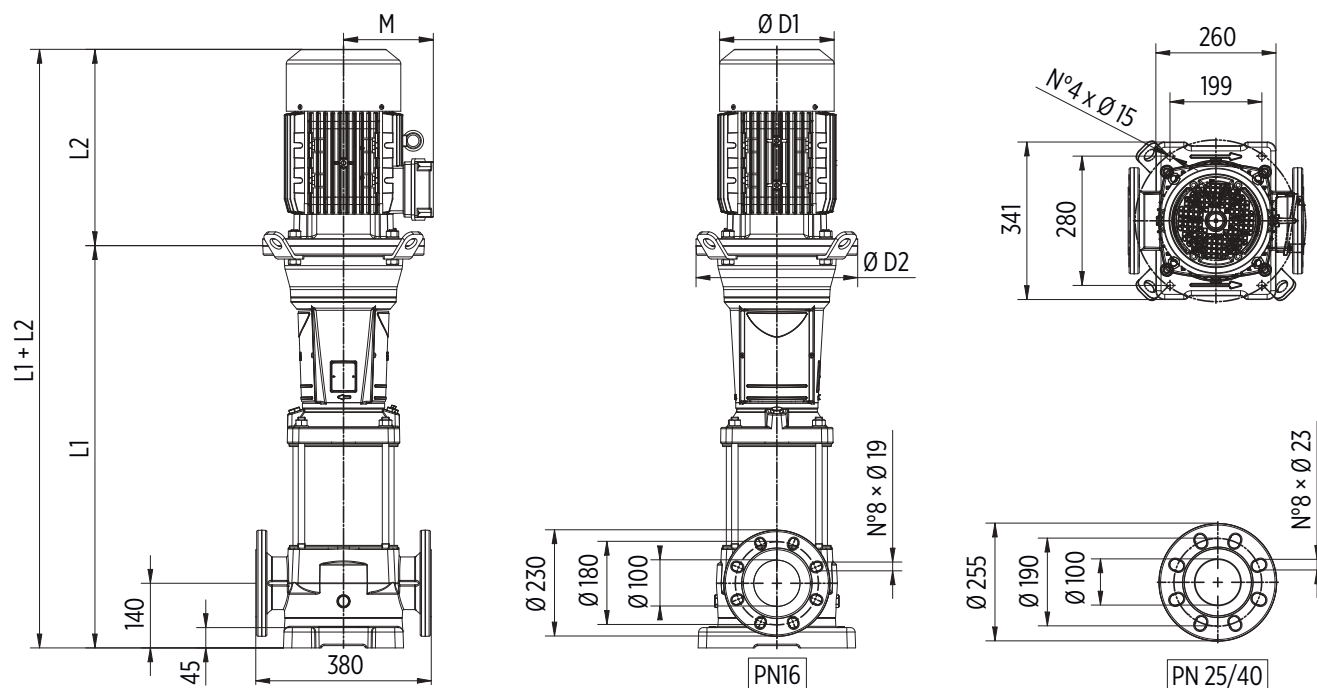
ULTRA 75 HS/HX



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
U 75....1000/1-1R T	7,5	132	737	400	197	256	300	1137	80,5	73	153,5
U 75....1500/1 T	11	160	757	503	255	315	350	1260	84	120	204
U 75....2000/2-2R T	15	160	849	503	255	315	350	1352	88,5	132	220,5
U 75....2500/2-1R T	18,5	160	849	598	252	315	350	1447	88,5	150	238,5
U 75....3000/2 T	22	180	849	620	270	360	350	1469	88	205	293
U 75....3000/3-2R T	22	180	941	620	270	360	350	1561	92,5	205	297,5
U 75....4000/3-1R T	30	200	946	661	303	400	400	1607	96	250	346
U 75....4000/3 T	30	200	946	661	303	400	400	1607	96	250	346
U 75....5000/4-2R T	37	200	1038	661	303	400	400	1699	100,5	270	370,5
U 75....5000/4-1R T	37	200	1038	661	303	400	400	1699	100,5	270	370,5
U 75....6000/4 T	45	225	1038	710	312	450	450	1748	102,5	315	417,5
U 75....6000/5-2R T	45	225	1131	710	312	450	450	1841	107	315	422
U 75....6000/5-1R T	45	225	1131	710	312	450	450	1841	107	315	422





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
U 90....1500/1-1R T	11	160	757	503	255	315	350	1260	85,5	120	205,5
U 90....2000/1 T	15	160	757	503	255	315	350	1260	85,5	132	217,5
U 90....2500/2-2R T	18,5	160	849	598	252	315	350	1447	89	150	239
U 90....3000/2-1R T	22	180	849	620	270	360	350	1469	89	205	294
U 90....4000/2 T	30	200	854	661	303	400	400	1515	92	250	342
U 90....5000/3-2R T	37	200	946	661	303	400	400	1607	95,5	270	365,5
U 90....5000/3-1R T	37	200	946	661	303	400	400	1607	95,5	270	365,5
U 90....6000/3 T	45	225	946	710	312	450	450	1656	98	315	413
U 90....6000/4-2R T	45	225	1038	710	312	450	450	1748	101,5	315	416,5

ULTRA HS-HX Serie-Mechanical seal and bearings

CARTRIDGE MECHANICAL SEAL	PUMP MODEL	SHAFT		STANDARD MATERIAL	OPTIONAL		
	U18-200/1T, U18-400/2T, U18-550/3T, U18-750/4T, U18-1000/5T, U18-1500/6T, U18-1500/7T, U18-1500/8T, U18-2000/9T, U18-2000/10T, U18-2000/11T, U18-2500/12T, U22-300/1T, U22-550/2T, U22-750/3T, U22-1000/4T, U22-1500/5T, U22-1500/6T, U22-2000/7T, U22-2000/8T, U22-2500/9T, U22-2500/10T	16mm	Rotating face Stationary face Elastomer	SiC Graphite EPDM	SiC Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	U35-400/1-1RT, U35-550/1T, U35-750/2-2RT, U35-1000/2-1RT, U35-1500/2T, U35-1500/3-2RT, U35-1500/3-1RT, U35-2000/3T, U35-2000/4-2RT, U35-2000/4-1RT, U35-2500/4T, U35-2500/5-2RT, U35-2500/5-1RT, U35-3000/5T, U35-3000/6-2RT, U35-3000/6-1RT, U35-4000/6T, U35-4000/7-2RT, U35-4000/7-1RT, U35-4000/7T, U35-4000/8-2RT, U35-5000/8-1RT, U35-5000/8T, U50-750/1-1RT, U50-1000/1T, U50-1500/2-2RT, U50-1500/2-1RT, U50-2000/2T, U50-2500/3-2RT, U50-2500/3-1RT, U50-2500/3T, U50-3000/4-2RT, U50-4000/4-1RT, U50-4000/4T, U50-4000/5-2RT, U50-4000/5-1RT, U50-5000/5T, U50-5000/6-2RT, U50-5000/6-1RT, U50-5000/6T, U50-6000/7-2RT, U50-6000/7-1RT, U50-6000/7T, U75-1000/1-1RT, U75-1500/1T, U75-2000/2-2RT, U75-2500/2-1RT, U75-3000/2T, U75-3000/3-2RT, U75-4000/3-1RT, U75-4000/3T, U75-5000/4-2RT, U75-5000/4-1RT, U75-6000/4T, U75-6000/5-2RT, U75-6000/5-1RT, U90-1500/1-1RT, U90-2000/1T, U90-2500/2-2RT, U90-3000/2-1RT, U90-4000/2T, U90-5000/3-2RT, U90-5000/3-1RT, U90-6000/3T, U90-6000/4-2RT	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	
	U18-200/1T, U22-300/1T	-	-	6205-ZZ C3	6205-ZZ C3
	U18-400/2T, U18-550/3T, U22-550/2T, U35-400/1-1RT, U35-550/1T	-	-	6206-ZZ C3	6206-ZZ C3
	U18-750/4T, U18-1000/5T, U22-750/3T, U22-1000/4T, U35-750/2-2RT, U35-1000/2-1RT, U50-750/1-1RT, U50-1000/1T, U75-1000/1-1RT	6212 ZZ	-	6309-ZZ C3	6208-ZZ C3
	U18-1500/6T, U18-1500/7T, U18-1500/8T, U18-2000/9T, U18-2000/10T, U18-2000/11T, U18-2500/12T, U22-1500/5T, U22-1500/6T, U22-2000/7T, U22-2000/8T, U22-2500/9T, U22-2500/10T, U35-1500/2T, U35-1500/3-2RT, U35-1500/3-1RT, U50-1500/2-2RT, U50-1500/2-1RT, U75-1500/1T, U90-1500/1-1RT	6212 ZZ	7212 BEP	6309-ZZ C3	6309-ZZ C3
	U35-2000/3T, U35-2000/4-2RT, U35-2000/4-1RT, U35-2500/4T, U35-2500/5-2RT, U35-2500/5-1RT, U50-2000/2T, U50-2500/3-2RT, U50-2500/3-1RT, U50-2500/3T, U75-2000/2-2RT, U75-2500/2-1RT, U90-2000/1T, U90-2500/2-2RT	6212 ZZ	7212 BEP	6311-ZZ C3	6311-ZZ C3
	U35-3000/5T, U35-3000/6-2RT, U35-3000/6-1RT, U50-3000/4-2RT, U75-3000/2T, U75-3000/3-2RT, U90-3000/2-1RT	6214 ZZ	7214 BEP	6312-ZZ C3	6312-ZZ C3
	U35-4000/6T, U35-4000/7-2RT, U35-4000/7-1RT, U35-4000/7T, U35-4000/8-2RT, U35-5000/8-1RT, U35-5000/8T, U50-4000/4-1RT, U50-4000/4T, U50-4000/5-2RT, U50-4000/5-1RT, U50-5000/5T, U50-5000/6-2RT, U50-5000/6-1RT, U50-5000/6T, U75-4000/3-1RT, U75-4000/3T, U75-5000/4-2RT, U75-5000/4-1RT, U90-4000/2T, U90-5000/3-2RT, U90-5000/3-1RT	6214 ZZ	7214 BEP	6313-ZZ C3	6313-ZZ C3
	U50-6000/7-2RT, U50-6000/7-1RT, U50-6000/7T, U75-6000/4T, U75-6000/5-2RT, U75-6000/5-1RT, U90-6000/3T, U90-6000/4-2RT				



ULTRA+VSD

Vertical booster pump with variable speed



DESCRIPTION

Horizontal pump of ULTRA series provided with variable speed drive EPIC or IPFC. This booster pump assure the desired pressure regardless 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 or IPFC variable speed drive
- Vertical pump of ULTRA 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 vertical ULTRA pump models available for the assembly with EPIC or IPFC. Consult the catalog at the ULTRA series for pump specifics and characteristic curves.

ULTRA+VSD

PUMP								VSD		
TYPE	MODEL	Version						TYPE	Power system	
		V	SV	L	SL/SLX	LG	SLG/SLGX		in	out
U 3	120/4T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC109	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC306-220	3-220	3-220
	150/5T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC109	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC309-220	3-220	3-220
	200/6T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC309-220	3-220	3-220
	250/7T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC309-220	3-220	3-220
	300/8T	■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
	350/10T	-	-	-	-	-	■	IPFC309	3-380	3-380
		-	-	-	-	-	■	IPFC314-220	3-220	3-220
	400/12T	-	-	-	-	-	■	IPFC309	3-380	3-380
		-	-	-	-	-	■	IPFC314-220	3-220	3-220
	450/14T	-	-	-	-	-	■	IPFC311	3-380	3-380
		-	-	-	-	-	■	IPFC318-220	3-220	3-220
U 5	180/4T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC109	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC309-220	3-220	3-220
	250/5T	■	■	■	■	-	-	EPIC	1-220	3-220
		■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC309-220	3-220	3-220
	300/6T	■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	350/7T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	400/8T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	450/10T	-	-	-	-	-	■	IPFC311	3-380	3-380
		-	-	-	-	-	■	IPFC318-220	3-220	3-220
	550/12T	-	-	-	-	-	■	IPFC314	3-380	3-380
		-	-	-	-	-	■	IPFC325-220	3-220	3-220
	750/14T	-	-	-	-	-	■	IPFC314	3-380	3-380
		-	-	-	-	-	■	IPFC325-220	3-220	3-220



PUMP								VSD		
TYPE	MODEL	Version						TYPE	Power system	
		V	SV	L	SL/SLX	LG	SLG/SLGX		in	out
U 7	300/4T	■	■	■	■	-	-	IPFC114	1-220	3-220
		■	■	■	■	-	-	IPFC306	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	400/5T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	450/6T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC318-220	3-220	3-220
	550/7T	■	■	■	■	-	-	IPFC311	3-380	3-380
		■	■	■	■	-	-	IPFC318-220	3-220	3-220
	750/8T	■	■	■	■	-	-	IPFC314	3-380	3-380
		■	■	■	■	-	-	IPFC325-220	3-220	3-220
	800/10T	-	-	-	-	-	■	IPFC318	3-380	3-380
		-	-	-	-	-	■	IPFC330-220	3-220	3-220
	900/12T	-	-	-	-	-	■	IPFC318	3-380	3-380
		-	-	-	-	-	■	IPFC330-220	3-220	3-220
U 9	350/4T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	400/5T	■	■	■	■	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	IPFC314-220	3-220	3-220
	450/6T	■	■	■	■	-	-	IPFC311	3-380	3-380
		■	■	■	■	-	-	IPFC318-220	3-220	3-220
	550/7T	■	■	■	■	-	-	IPFC311	3-380	3-380
		■	■	■	■	-	-	IPFC325-220	3-220	3-220
	750/8T	■	■	■	■	-	-	IPFC314	3-380	3-380
		■	■	■	■	-	-	IPFC325-220	3-220	3-220
	800/10T	-	-	-	-	-	■	IPFC318	3-380	3-380
		-	-	-	-	-	■	IPFC330-220	3-220	3-220
	900/12T	-	-	-	-	-	■	IPFC325	3-380	3-380
		-	-	-	-	-	-	-	3-220	3-220

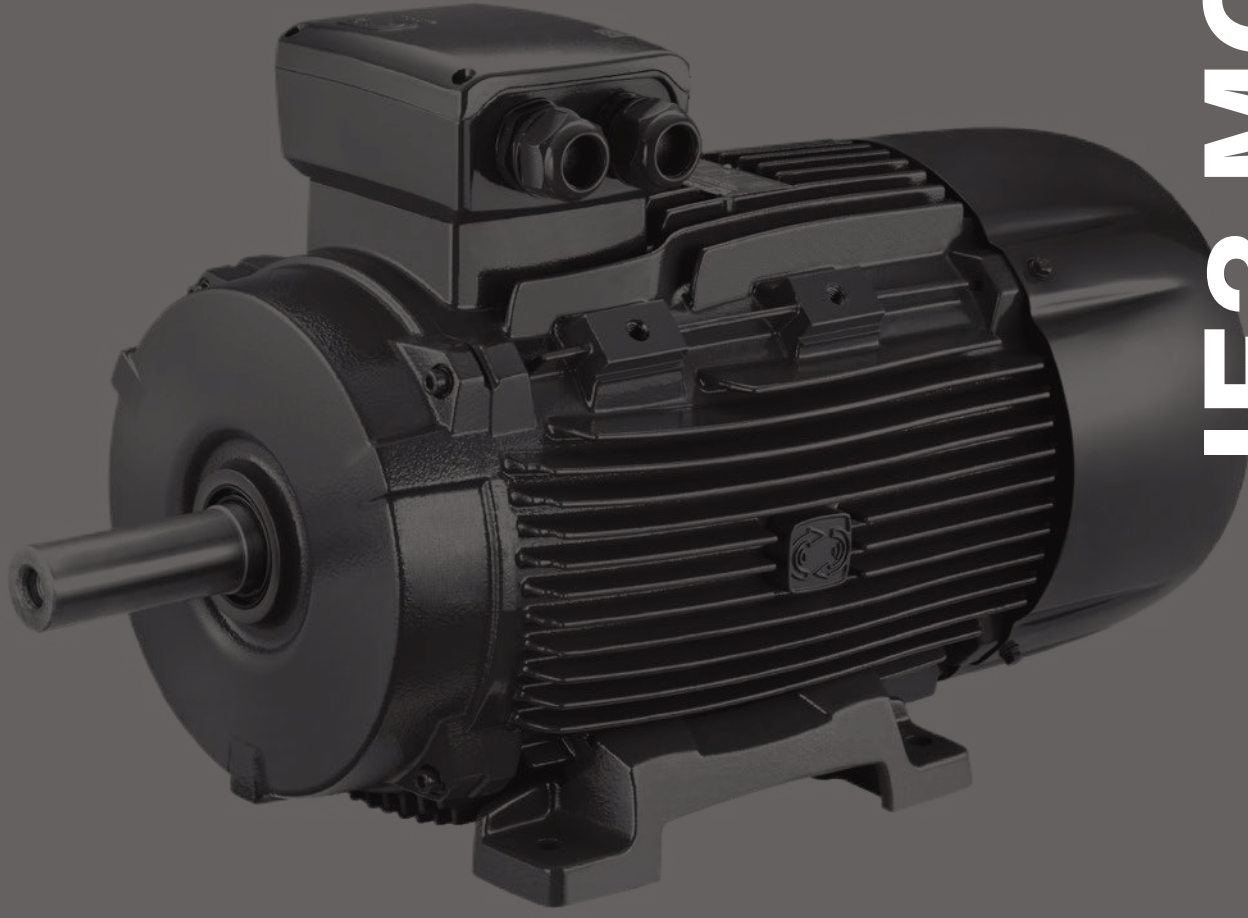
ULTRA+VSD

PUMP									VSD		
TYPE	MODEL	Version							TYPE	Power system	
		V	SV	L	SL/SLX	LG	HS	HX		in	out
U 18	200/1T	-	-	-	-	-	-	■	IPFC109	1-220	3-220
		-	-	-	-	-	-	■	IPFC306	3-380	3-380
		-	-	-	-	-	-	■	IPFC306-220	3-220	3-220
	400/2T	-	-	-	-	-	-	■	IPFC114	1-220	3-220
		-	-	-	-	-	-	■	IPFC306	3-380	3-380
		-	-	-	-	-	-	■	IPFC311-220	3-220	3-220
	400/3T	■	■	■	■	-	-	-	IPFC309	3-380	3-380
		■	■	■	■	-	-	-	IPFC314-220	3-220	3-220
	550/3T	-	-	-	-	-	-	■	IPFC309	3-380	3-380
		-	-	-	-	-	-	■	IPFC314-220	3-220	3-220
	550/4T	■	■	■	■	-	-	-	IPFC311	3-380	3-380
		■	■	■	■	-	-	-	IPFC325-220	3-220	3-220
	750/4T	-	-	-	-	-	-	■	IPFC311	3-380	3-380
		-	-	-	-	-	-	■	IPFC325-220	3-220	3-220
	750/5T	■	■	■	■	-	-	-	IPFC314	3-380	3-380
		■	■	■	■	-	-	-	IPFC325-220	3-220	3-220
	900/6T	■	■	■	■	-	-	-	IPFC318	3-380	3-380
		■	■	■	■	-	-	-	IPFC330-220	3-220	3-220
U 22	300/1T	-	-	-	-	-	■	■	IPFC114	1-220	3-220
		-	-	-	-	-	■	■	IPFC306	3-380	3-380
		-	-	-	-	-	■	■	IPFC309-220	3-220	3-220
	550/2T	-	-	-	-	-	■	■	IPFC309	3-380	3-380
		-	-	-	-	-	■	■	IPFC314-220	3-220	3-220
	750/3T	-	-	-	-	-	■	■	IPFC311	3-380	3-380
		-	-	-	-	-	■	■	IPFC325-220	3-220	3-220
	1000/4T	-	-	-	-	-	■	■	IPFC318	3-380	3-380
		-	-	-	-	-	■	■	IPFC330-220	3-220	3-220
	1500/5T	-	-	-	-	-	■	■	IPFC325	3-380	3-380
	1500/6T	-	-	-	-	-	■	■	IPFC325	3-380	3-380
U 35	400/1-1RT	-	-	-	-	-	■	■	IPFC114	1-220	3-220
		-	-	-	-	-	■	■	IPFC306	3-380	3-380
	550/1T	-	-	-	-	-	■	■	IPFC309	3-380	3-380
		-	-	-	-	-	■	■	IPFC318-220	3-220	3-220
	750/2-2RT	-	-	-	-	-	■	■	IPFC314	3-380	3-380
		-	-	-	-	-	■	■	IPFC325-220	3-220	3-220
	1000/2-1RT	-	-	-	-	-	■	■	IPFC318	3-380	3-380
		-	-	-	-	-	■	■	IPFC330-220	3-220	3-220
	1500/2T	-	-	-	-	-	■	■	IPFC318	3-380	3-380
	1500/3-2RT	-	-	-	-	-	■	■	IPFC325	3-380	3-380
U 35	1500/3-1RT	-	-	-	-	-	■	■	IPFC325	3-380	3-380
		-	-	-	-	-	■	■	IPFC325	3-380	3-380
	2000/3T	-	-	-	-	-	■	■	IPFC325	3-380	3-380
		-	-	-	-	-	■	■	IPFC325	3-380	3-380
	2000/4-2RT	-	-	-	-	-	■	■	IPFC330	3-380	3-380
		-	-	-	-	-	■	■	IPFC330	3-380	3-380



PUMP									VSD		
TYPE	MODEL	Version							TYPE	Power system	
		V	SV	L	SL/SLX	LG	HS	HX		in	out
U 50	750/1-1RT	-	-	-	-	-	■	■	IPFC311	3-380	3-380
		-	-	-	-	-	■	■	IPFC318-220	3-220	3-220
	1000/1T	-	-	-	-	-	■	■	IPFC314	3-380	3-380
		-	-	-	-	-	■	■	IPFC325-220	3-220	3-220
	1500/2-2RT	-	-	-	-	-	■	■	IPFC325	3-380	3-380
U 75	1500/2-1RT	-	-	-	-	-	■	■	IPFC325	3-380	3-380
	2000/2T	-	-	-	-	-	■	■	IPFC330	3-380	3-380
	1000/1-1RT	-	-	-	-	-	■	■	IPFC314	3-380	3-380
		-	-	-	-	-	■	■	IPFC325-220	3-220	3-220
	1500/1T	-	-	-	-	-	■	■	IPFC325	3-380	3-380
U 90	2000/2-2RT	-	-	-	-	-	■	■	IPFC330	3-380	3-380
	1500/1-1RT	-	-	-	-	-	■	■	IPFC325	3-380	3-380
	2000/1RT	-	-	-	-	-	■	■	IPFC330	3-380	3-380





IE3 MOTORS

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

Motors



Construction features

Frame	aluminum alloy
Multiple voltage/ Multi-frequency	50/60Hz
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, IEC60034-30-1



160-355 (11 kW-315 kW)

Motors



Construction features

Frame	cast iron
Multiple voltage/ Multi-frequency	50/60Hz
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, IEC60034-30-1



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	8,6	3,5	9,18	3,7
80B-2	1,1	1,5	2885	2,26	16,74	7,4	3,64	10,9	3	12,74	3,5
90S-2	1,5	2	2894	3,22	23,78	7,4	4,95	20,1	4,1	18,78	3,8
90L-2	2,2	3	2891	4,58	35,2	7,7	7,27	30,3	4,2	30,83	4,2
100L-2	3	4	2898	5,8	44,87	7,7	9,89	30,8	3,1	35,98	3,6
112M-2	4	5,5	2894	7,48	59,55	7	13,2	33,05	2,8	37,02	3,5
132SA-2	5,5	7,5	2940	10,14	70,59	7	17,87	37,7	2,1	35,79	2
132SB-2	7,5	10	2925	13,35	95	7,1	24,49	53,5	2,2	78,5	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	121,89	2,5
160L-2	18,5	25	2942	32,15	192,92	6	60,05	124,31	2,1	179	2,1
180M-2	22	30	2950	37,53	304,03	8,1	71,22	163,81	2,3	220,8	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	332,8	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	127,01	876,39	6,9	241,16	530,56	2,2	554,67	2,3
280M-2	90	125	2970	151,93	1078,73	7,1	289,39	636,67	2,2	665,61	2,3
315S-2	110	150	2970	185,31	1315,68	7,1	353,7	707,41	2	778,15	2,2
315MA-2	132	180	2970	221,67	1573,86	7,1	424,44	848,89	2	933,78	2,2
315LA-2	160	215	2970	265,46	1884,77	7,1	514,48	1028,96	2	1131,85	2,2
315LB-2	200	270	2970	330,79	2348,59	7,1	643,1	1286,2	2	1414,81	2,2
355M-2	250	335	2980	413,48	2935,74	7,1	801,17	1602,35	2	1762,58	2,2
355L-2	315	423	2980	520,99	3699,03	7,1	1009,48	2018,96	2	2220,86	2,2

TYPE	$\eta\%$				min IE3	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	80,7	0,77	0,7	0,566	35	65	0,00158	17
80B-2	84,5	IE3	84,7	82,8	82,7	0,83	0,77	0,652	41	65	0,00185	18
90S-2	85,3	IE3	85,2	83,7	84,2	0,788	0,71	0,588	37	71	0,00383	23
90L-2	86,2	IE3	86,4	84,7	85,9	0,81	0,71	0,61	43	71	0,00726	26
100L-2	87,1	IE3	87,7	86,8	87,1	0,857	0,807	0,692	51	75	0,01439	35
112M-2	89,6	IE3	90,5	90,2	88,1	0,862	0,81	0,719	52	77	0,01663	43
132SA-2	91	IE3	89,7	87,4	89,2	0,86	0,84	0,761	48	78	0,033	66
132SB-2	91,6	IE3	92,4	92,9	90,1	0,885	0,85	0,76	60	78	0,0396	73
160MA-2	91,4	IE3	91,2	89,7	91,2	0,881	0,864	0,812	49	81	0,04976	120
160MB-2	92	IE3	92,6	91,8	91,9	0,895	0,877	0,841	61	81	0,06587	132
160L-2	93	IE3	93,7	93	92,4	0,893	0,875	0,827	58	81	0,0726	150
180M-2	94	IE3	93,9	93	92,7	0,9	0,88	0,87	41	83	0,099	205
200LA-2	93,4	IE3	94,4	90,7	93,3	0,9	0,881	0,82	65	84	0,16368	250
200LB-2	93,8	IE3	93,6	90,2	93,7	0,9	0,887	0,84	65	84	0,18348	270
225M-2	94,1	IE3	93,9	90,7	94	0,9	0,878	0,816	65	86	0,30756	315
250M-2	94,5	IE3	92,6	88,5	94,3	0,89	0,872	0,825	65	89	0,41184	420
280S-2	94,7	IE3	92,8	88,7	94,7	0,9	0,896	0,875	55	91	0,76428	550,8
280M-2	95	IE3	94,9	92,9	95	0,9	0,894	0,857	65	91	0,891	625
315S-2	95,2	IE3	95,1	93,1	95,2	0,9	0,894	0,857	65	92	1,5576	968
315MA-2	95,5	IE3	95,4	93,4	95,4	0,9	0,894	0,857	65	92	2,4024	1100
315LA-2	95,6	IE3	95,5	93,5	95,6	0,91	0,904	0,867	65	92	2,7456	1160,5
315LB-2	95,9	IE3	95,8	93,8	95,8	0,91	0,904	0,867	65	92	3,1416	1221
355M-2	95,9	IE3	95,8	93,8	95,8	0,91	0,904	0,867	65	100	3,96	2090
355L-2	95,9	IE3	95,8	93,8	95,8	0,91	0,904	0,867	65	100	4,62	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	1430	1,87	11,24	6	5,01	16,9	3,4	12,8	2,6
90S-4	1,1	1,5	1431	2,54	15,83	6,2	7,34	25,6	3,5	24,5	3,3
90L-4	1,5	2	1438	3,38	19,62	5,8	9,96	32,11	3,2	34,9	3,5
100LA-4	2,2	3	1425	4,35	34,15	7,8	14,74	41,27	2,8	41,27	2,8
100LB-4	3	4	1450	6,07	46,83	7,7	19,76	54,3	2,7	56,31	2,8
112M-4	4	5,5	1442	7,95	54,51	6,9	26,49	74,03	2,9	74,22	3,3
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	91,8	1,9	132,46	2,7
160M-4	11	15	1468	20,76	121,31	5,8	71,56	121,5	1,7	193,21	2,7
160L-4	15	20	1460	28,19	140,97	5	98,12	166,6	1,7	255,1	2,6
180M-4	18,5	25	1477	33,53	206,45	6,2	120,94	202,5	1,7	384,23	3,2
180L-4	22	30	1470	39,62	297,13	7,5	142,93	314,44	2,2	328,73	2,3
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	490,3	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	354,9	780,78	2,2	816,27	2,3
280S-4	75	100	1480	127,9	882,51	6,9	483,95	1064,7	2,2	1113,09	2,3
280M-4	90	120	1485	155,06	1085,43	7	578,79	1273,33	2,2	1331,21	2,3
315S-4	110	150	1480	188,92	1303,57	6,9	709,8	1561,55	2,2	1632,53	2,3
315M-4	132	180	1480	226,23	1561,02	6,9	851,76	1873,86	2,2	1959,04	2,3
315LA-4	160	220	1480	273,65	1888,2	6,9	1032,43	2271,35	2,2	2374,59	2,3
315LB-4	200	270	1480	341,71	2357,79	6,9	1290,54	2839,19	2,2	2968,24	2,3
355M-4	250	335	1490	417,21	2878,74	6,9	1602,35	3525,17	2,2	3685,4	2,3
355L-4	315	423	1490	526,23	3630,99	6,9	2018,96	4441,71	2,2	4643,61	2,3

TYPE	η %				min IE3	Fatt. pot. cos φ			ΔT (°C)	LwA (dB)	J Kgm2	Kg
	100%	IE	75%	50%		100%	75%	50%				
80B-4	82,9	IE3	82,6	79,2	82,5	0,7	0,6	0,451	38	56	0,00277	18
90S-4	84,8	IE3	86,2	85,5	84,1	0,738	0,66	0,516	44	61	0,00304	25
90L-4	85,9	IE3	86,3	85,1	85,3	0,747	0,658	0,569	47	61	0,00356	30
100LA-4	86,7	IE3	86,9	86	86,7	0,841	0,782	0,7	53	64	0,00713	36
100LB-4	89	IE3	89,3	88	87,7	0,801	0,72	0,7	57	64	0,00893	40
112M-4	89,1	IE3	90,3	90,5	88,6	0,815	0,76	0,641	53	65	0,01267	46
132S-4	89,9	IE3	92,1	92,4	89,6	0,83	0,77	0,675	61	71	0,02853	70
132M-4	90,5	IE3	90,8	89,9	90,4	0,831	0,79	0,699	46	71	0,03946	81
160M-4	91,8	IE3	91,7	90,4	91,4	0,833	0,79	0,675	52	73	0,08133	125
160L-4	92,3	IE3	93,1	92,3	92,3	0,832	0,78	0,68	61	75	0,12239	150
180M-4	92,6	IE3	92,1	90,2	92,6	0,87	0,817	0,724	40	76	0,18531	170,6
180L-4	93,2	IE3	91,7	91	93	0,86	0,832	0,761	80	76	0,21065	189,3
200L-4	93,6	IE3	93,8	92,8	93,6	0,865	0,818	0,767	80	79	0,3493	254,8
225S-4	93,9	IE3	92,7	92	93,9	0,87	0,839	0,776	75	81	0,54128	268,3
225M-4	94,3	IE3	93,3	92,8	94,2	0,89	0,872	0,807	80	81	0,62527	353
250M-4	95	IE3	94,2	93,5	94,6	0,89	0,862	0,8	75	83	0,87991	450
280S-4	95,1	IE3	93,5	91	95	0,89	0,863	0,843	70	86	1,716	605
280M-4	95,2	IE3	93,5	92	95,2	0,88	0,872	0,838	65	86	1,9668	700
315S-4	95,5	IE3	93,8	92,3	95,4	0,88	0,872	0,838	65	87	4,1316	925
315M-4	95,7	IE3	94	92,5	95,6	0,88	0,872	0,838	55	87	4,818	1180
315LA-4	95,9	IE3	94,2	92,7	95,8	0,88	0,872	0,838	75	87	5,42784	1160,5
315LB-4	96	IE3	94,3	92,8	96	0,88	0,872	0,838	70	87	6,3492	1240,8
355M-4	96,1	IE3	94,4	92,9	96	0,9	0,892	0,857	75	94	8,6196	1870
355L-4	96	IE3	94,3	92,8	96	0,9	0,892	0,857	70	94	10,8768	2090

4 POLES IE3

The following voltages and frequencies are inside the standard power supply of all three-phase motors, under S1 duty service.

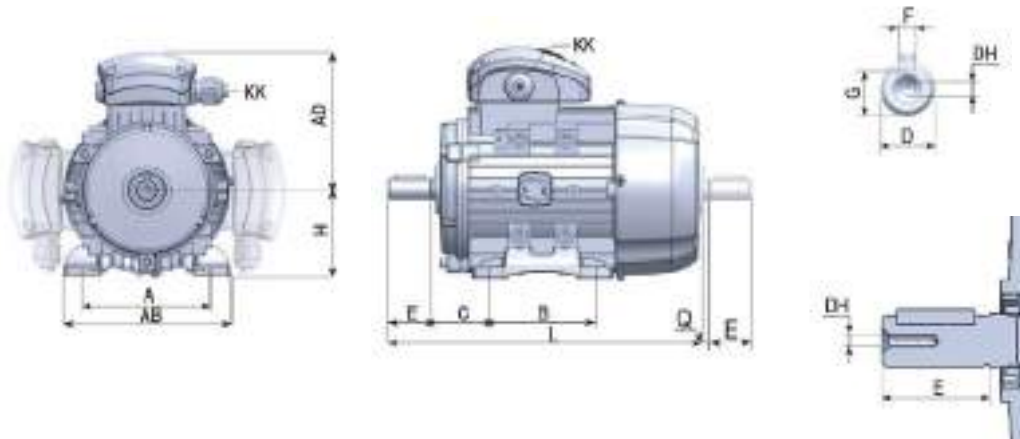
Data at 400V - 50Hz

SIZE	Hz	V	
			
80-112	50 ±5%	230	400
		220	380
		240	415
	60 ±5%	260	440
		220	380
		265	460
132-355	50 ±5%	280	480
		400	690
		380	660
	60 ±5%	415	720
		440	760
		380	660
		460	795
		480	830

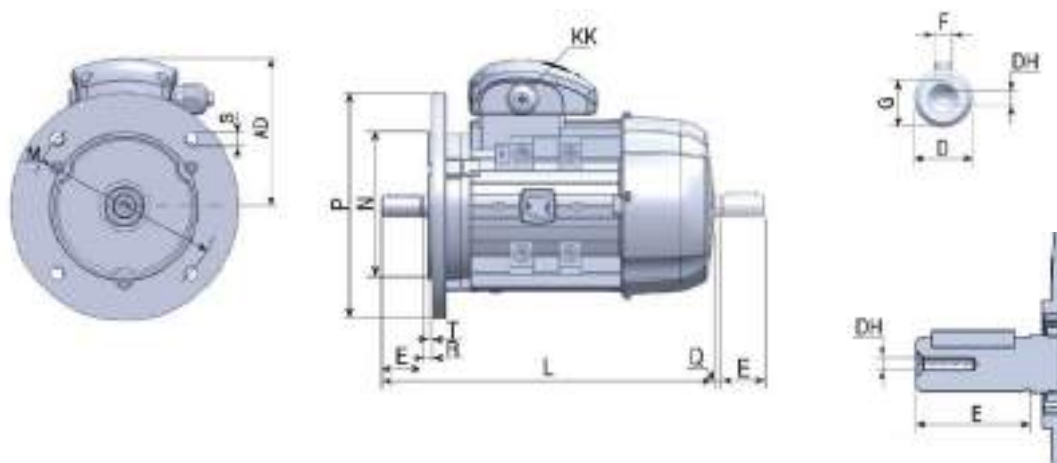
All electrical data refer to motors at 50 Hz.

These may be connected to 60 Hz, taking into account the multiplier coefficients in the table below.

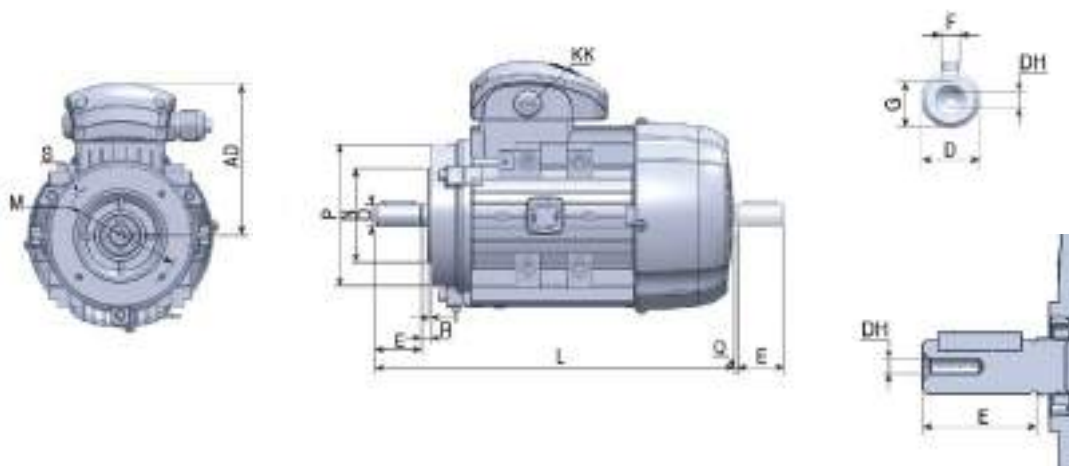
V 50Hz	V 60Hz	W	I _n (A)	C _n (Nm)	rpm	I _s (A)	C _S (Nm)	C max (Nm)
230 ± 10%	230 ± 5%	1	1	0,83	1,2	0,83	0,83	0,83
230 ± 10%	230 ± 10%	1	0,95	0,83	1,2	0,83	0,83	0,83
230 ± 10%	240 ± 5%	1,05	1	0,87	1,2	0,87	0,87	0,87
400 ± 10%	380 ± 5%	1	1	0,83	1,2	0,83	0,83	0,83
400 ± 10%	400 ± 10%	1	0,95	0,83	1,2	0,83	0,83	0,83
400 ± 10%	415 ± 10%	1,05	1	0,87	1,2	0,87	0,87	0,87
400 ± 10%	440 ± 10%	1,10	1	0,90	1,2	0,93	0,93	0,93
400 ± 10%	460 ± 5%	1,15	1	0,96	1,2	0,96	0,96	0,96
400 ± 10%	480 ± 5%	1,20	1	1	1,2	1	1	1



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



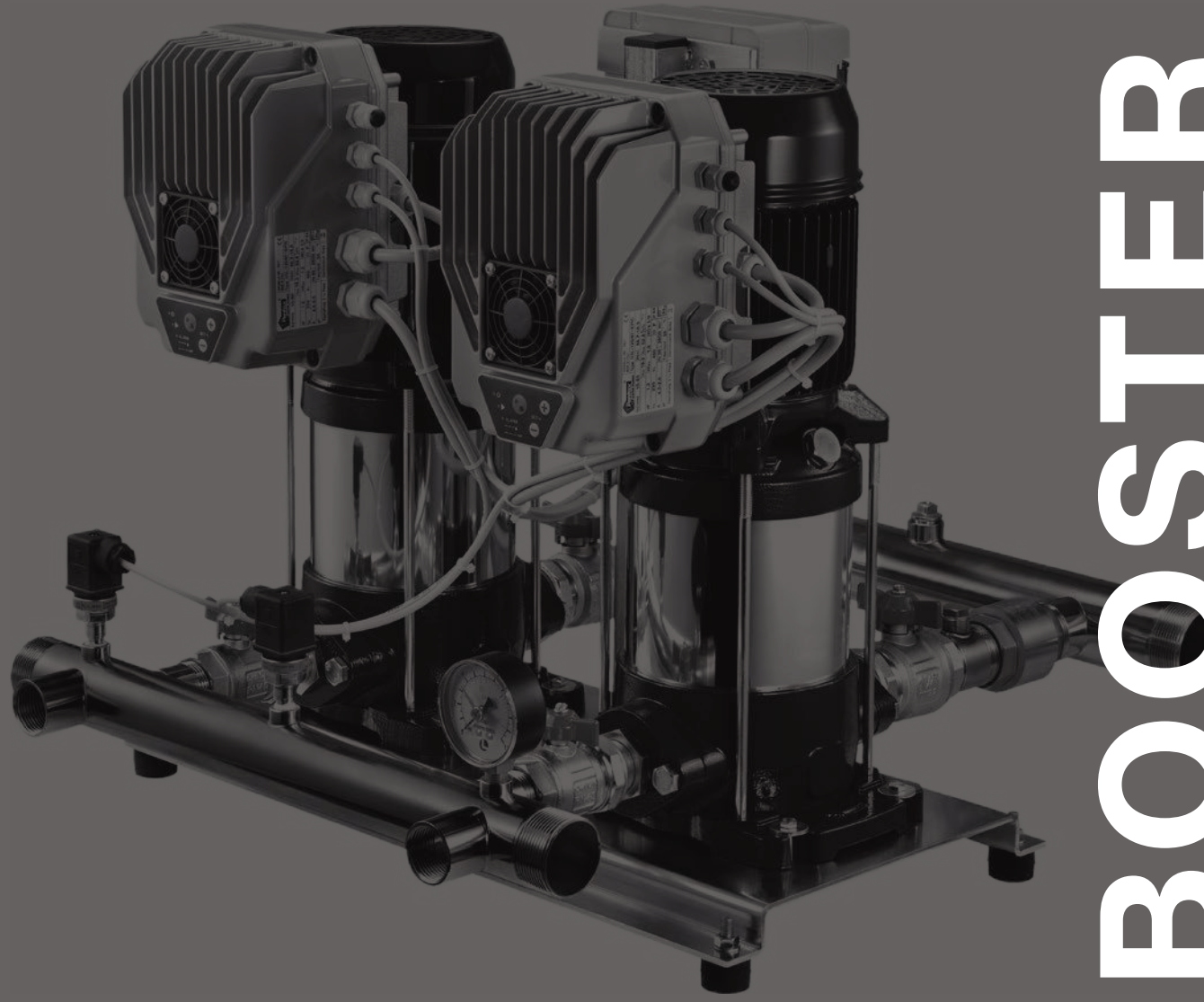
B14

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 "Pentax IPFC". 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

Liquid temperature	-5 ÷ +35 °C
Rated pressure	max 7 bar
4 poles synchronous motor with permanent magnet	4200 RPM
Input voltage	1~ 230V-50Hz 1~ 220V-60Hz
Insulation class	F
Protection degree	IPX4
Max rated current	3,7 A



Constant pressure even if the conditions of use change



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



Bluetooth smart pump





Dedicated app for control and programming of Aquadomus



Download on the
App Store



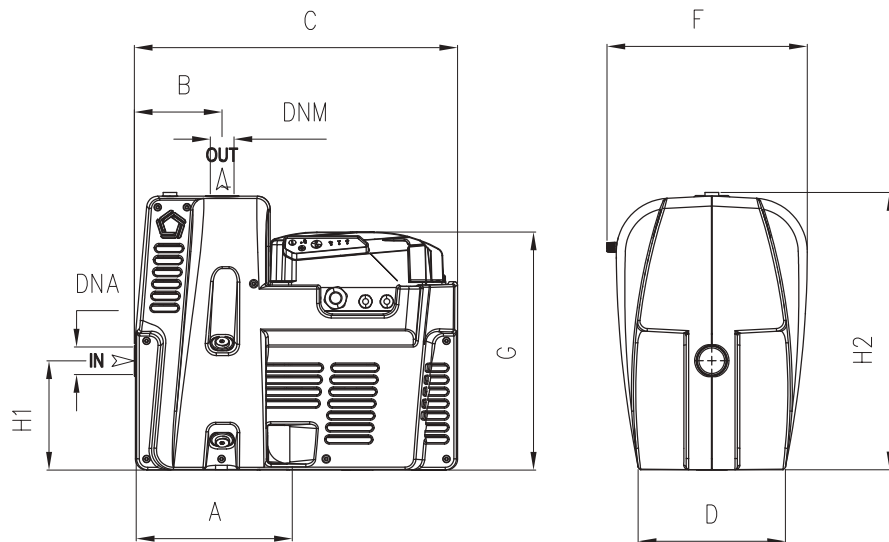
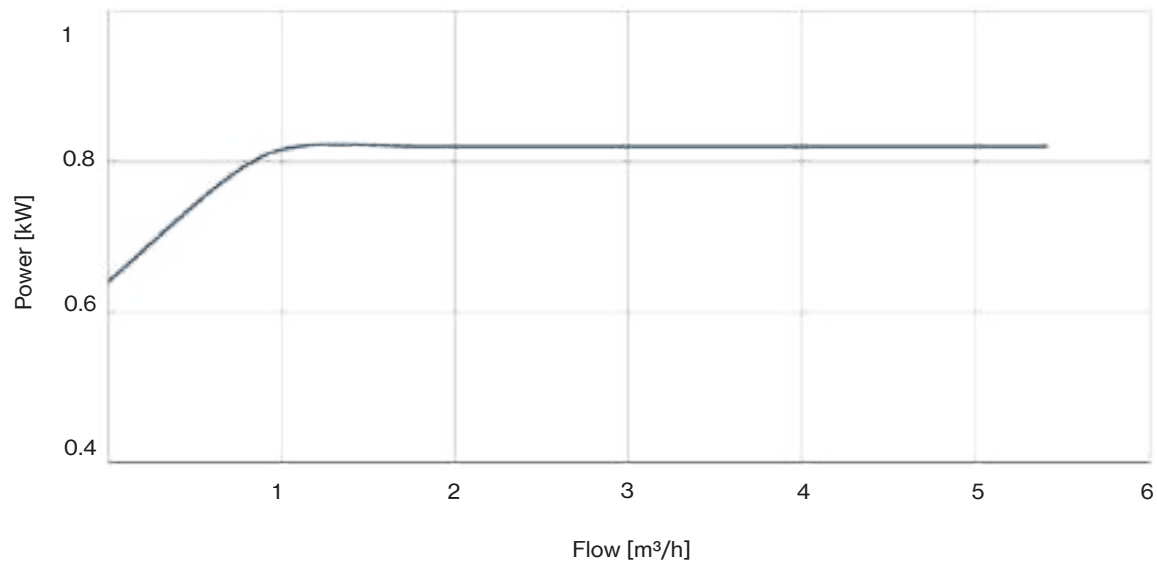
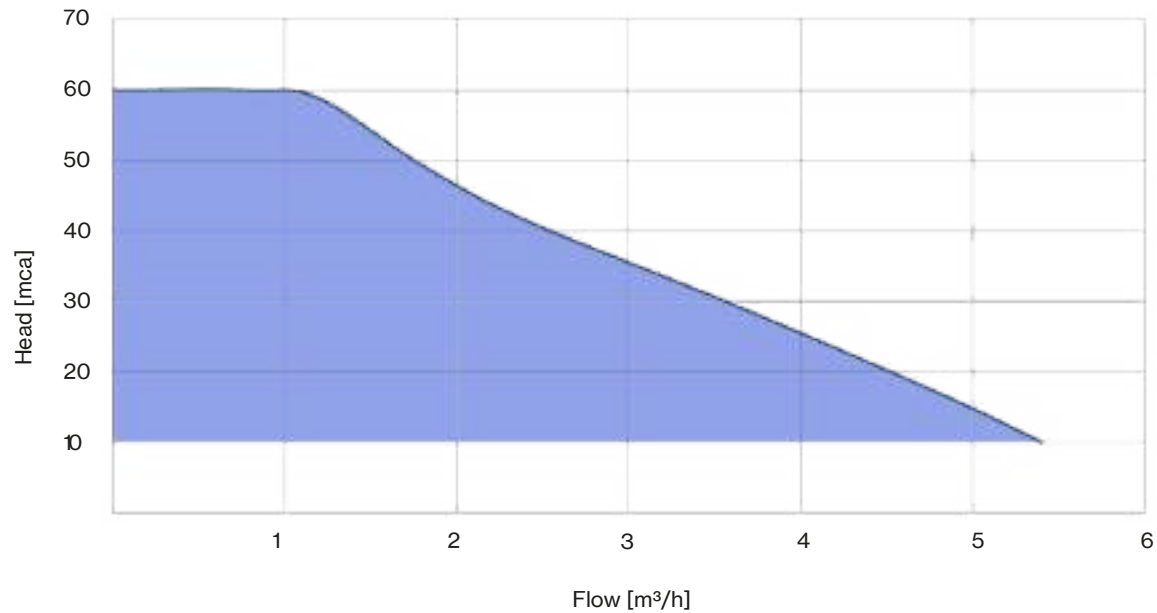
Available on the
Google Play

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 via wi-fi or GSM by using a nearby smartphone as a modem
- **Manuals:** access manuals and supplementary technical documentation
- **Guide:** receive online assistance on parameters and alarms



PENTAX IPFC



TYPE	DIMENSIONS (mm)										Kg
	A	B	C	D	F	G	H1	H2	DNA	DNM	
Aquadomus	166,8	103	377	173	235	280	128	129,5	1" G	1" G	11





Fixed speed booster set 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.

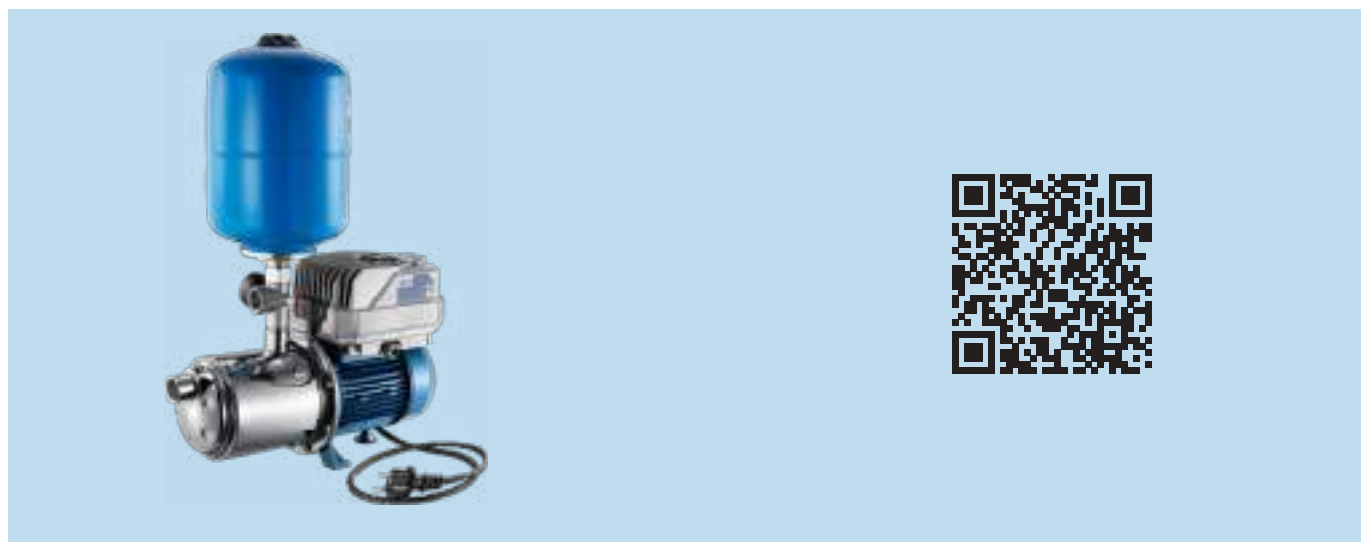
FUNCTIONING

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		P2		P1 (kW)		Pipe		Tank capacity					
						Suction ("G)	Delivery ("G)	8 L	20-24 L		50 L	100 L	
1~	3~	HP	kW	1~	3~			cylindrical	spherical	cylindrical	inox	cylindrical	cylindrical
CP 45	-	0,5	0,37	0,5	-	1	1	■	■	-	-	-	-
CP 75	-	1	0,74	1,11	-	1	1	■	■	-	-	-	-
PM 45	-	0,5	0,37	0,5	-	1	1	■	■	-	-	-	-
PM 80	-	1	0,74	1,1	-	1	1	■	■	-	-	-	-
CAM 50	-	0,6	0,44	0,7	-	1	1	■	-	■	-	-	-
CAM 75	-	0,8	0,59	0,82	-	1	1	■	-	■	-	■	-
CAM 100N	-	1	0,74	1,04	-	1	1	-	■	■	-	■	-
CAM 120	-	1,2	0,88	1,14	-	1	1	-	■	■	-	■	-
CAM 140	-	1,5	1,1	1,3	-	1	1	-	■	■	-	■	-
CAM 150	CAMT 150	1,5	1,1	1,9	1,8	1½	1¼	-	-	-	-	-	■
CAM 200	CAMT 200	2	1,5	2,2	2,1	1½	1¼	-	-	-	-	-	■
-	CAMT 300	3	2,2	-	2,5	1½	1¼	-	-	-	-	-	■
INOX 100N	-	1	0,74	1,04	-	1	1	-	-	■	■	■	-
INOX 120	-	1,2	0,88	1,14	-	1	1	-	-	■	■	■	-
INOX 140	-	1,5	1,1	1,3	-	1	1	-	-	■	■	■	-
CAB 150	CABT 150	1,5	1,1	1,74	1,68	1½	1	-	-	■	-	■	-
CAB 200	CABT 200	2	1,5	2,22	2,1	1½	1	-	-	-	-	■	■
CAB 300	CABT 300	3	2,2	2,65	2,5	1½	1	-	-	-	-	-	■
AP 75	-	0,8	0,59	0,8	-	1¼	1	-	-	■	-	-	-
AP 100	-	1	0,74	1,02	-	1¼	1	-	-	■	-	-	-
AP 150	APT 150	1,5	1,1	1,65	1,65	1¼	1	-	-	■	-	■	-
AP 200	APT 200	2	1,5	2,22	2,22	1¼	1	-	-	-	-	■	-
MPX 100	-	1	0,74	1,07	-	1	1	-	-	-	■	-	-
MPX 120	-	1,2	0,88	1,27	-	1	1	-	-	■	■	-	-
U 3A-80/3	U 3A-80/3T	0,8	0,6	1	0,9	1	1	-	-	-	■	■	■
U 3A-120/4	U 3A-120/4T	1,2	0,9	1,25	1,2	1	1	-	-	-	■	■	■
U 5A-120/3	U 5A-120/3T	1,2	0,9	1,4	1,35	1	1	-	-	-	■	■	■
U 5A-180/4	U 5A-180/4T	1,8	1,3	1,9	1,75	1	1	-	-	-	■	■	■
U 3SA-80/3	U 3SA-80/3T	0,8	0,6	1	0,9	1	1	-	-	-	■	■	■
U 3SA-120/4	U 3SA-120/4T	1,2	0,9	1,25	1,2	1	1	-	-	-	■	■	■
U 5SA-120/3	U 5SA-120/3T	1,2	0,9	1,4	1,35	1	1	-	-	-	■	■	■
U 5SA-180/4	U 5SA-180/4T	1,8	1,3	1,9	1,75	1	1	-	-	-	■	■	■

SUPERDOMUS+VSD

Booster set



Variable speed booster pump set with membrane tank

DESCRIPTION

SUPERDOMUS+VSD are compact and automatic booster sets consisting of one single-phase variable speed drive EPIC and one three-phase horizontal pump with a membrane tank. They provide constant pressure regardless changes on flow demand, making them suitable for low or missing pressure in domestic systems and small industrial applications.

FEATURES

- EPIC variable speed drive provided on board, with single-phase power supply
- Three-phase horizontal pump
- 5-way AISI304 connector with built-in non return valve
- Pressure sensor wired to EPIC
- Pressure gauge
- 8 liters membrane surge tank
- Cable with plug

FUNCTIONING

If the pressure in the network drops the pump will start 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 SUPERDOMUS+VSD. Consult the catalog at the relative series for pump specifics and characteristic curves.

VSD Variable Speed Drive	TYPE	up to	
		P2	
		HP	kW
EPIC	CAM	2	1,5
	CAB	2	1,5
	INOX	1	0,74
	MPX	1,2	0,88
	MB	2	1,5
	CM	1,5	1,1
	CR	1	0,74
	CH	1,5	1,1
	CB	1,5	1,1
	ULTRA 3 / 3S	1,5	1,1
	ULTRA 5 / 5S	2,5	1,8
	ULTRA 7 / 7S	2	1,5
	ULTRA 9 / 9S	2	1,5





**DRAINAGE
AND SEWAGE**

DRAINAGE AND SEWAGE PUMPS

Plastic



DP

DPV



High Head



DC

DH



Single-channel



DM

DM4

DB



Grinder



DTR

DTR 101



Vortex



DV

DV4

DG

DX



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.

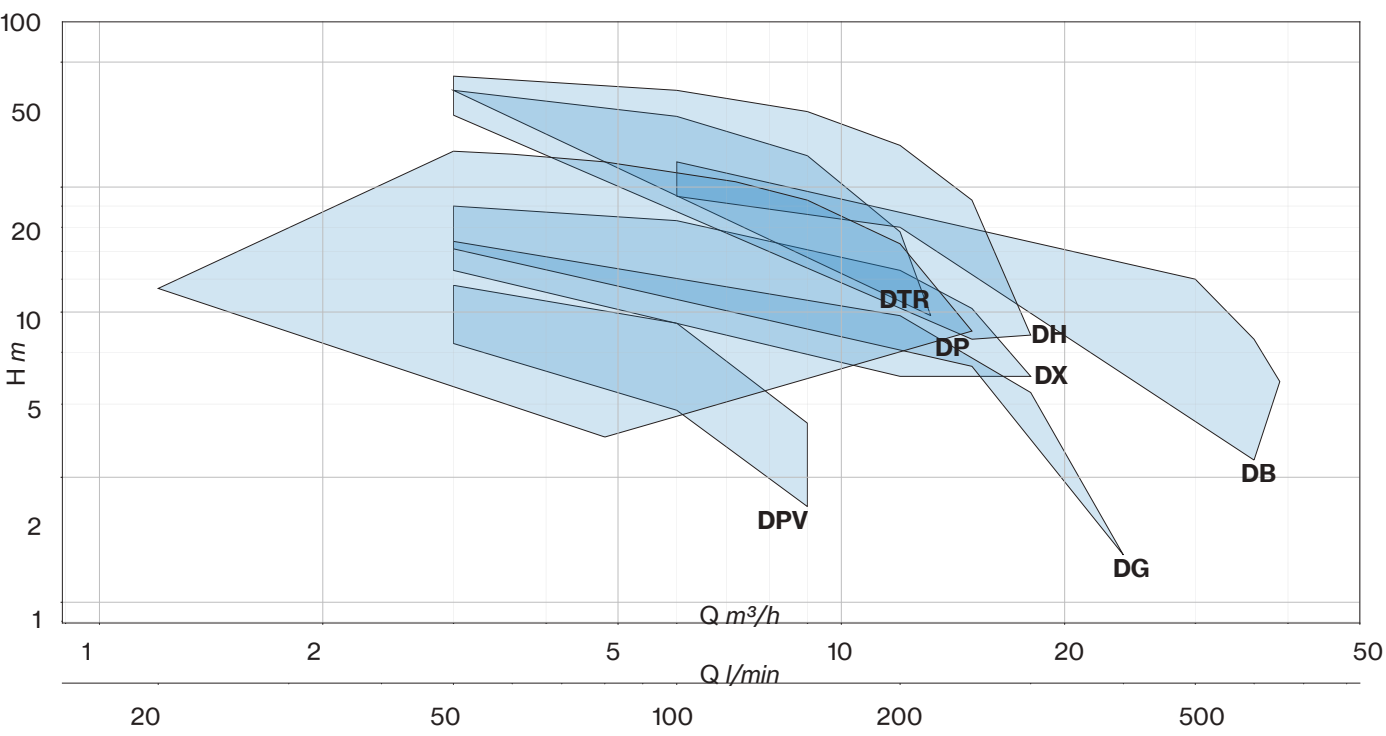
Applications:

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

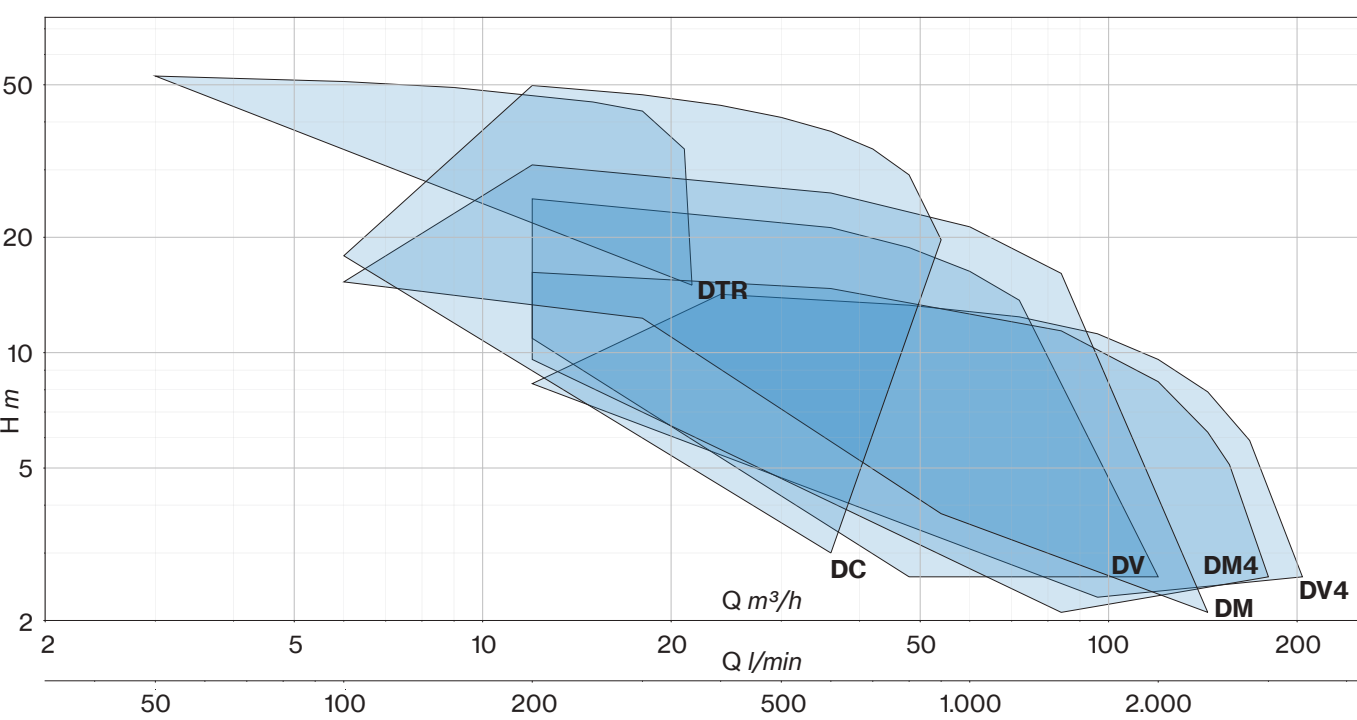


DRAINAGE AND SEWAGE PUMPS

Drainage



Sewage





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 (DP 40/60)
Ø max 7 mm (DP 80/100)
Ø max 15 mm (DPV 80/100)

Max submergence 5 m

Liquid temperature 0 - 40 °C

Cable
H05 RN8F, 10 m (DP 40/60)
H07 RN8F, 10 m (DP 80/100, DPV 80/100)

G float switch

Motor

3~ 380V - 60Hz
(DPV 80/100)

2 Poles induction motor

1~ 220V - 60Hz
(with thermal protection)

Insulation class F

Protection degree IPX8

1~ 110V - 60Hz	
TYPE	I (A)
DP 40	2,0
DP 60	4,2
DP 80	7,4
DP 100	10,2
DPV 80	5,2
DPV 100	7,6

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DP40-60	80×120×175	135	80×120×205	162
DP 80-100	80×120×145	57	80×120×190	76
DPV 80-100	80×120×145	57	80×120×190	76

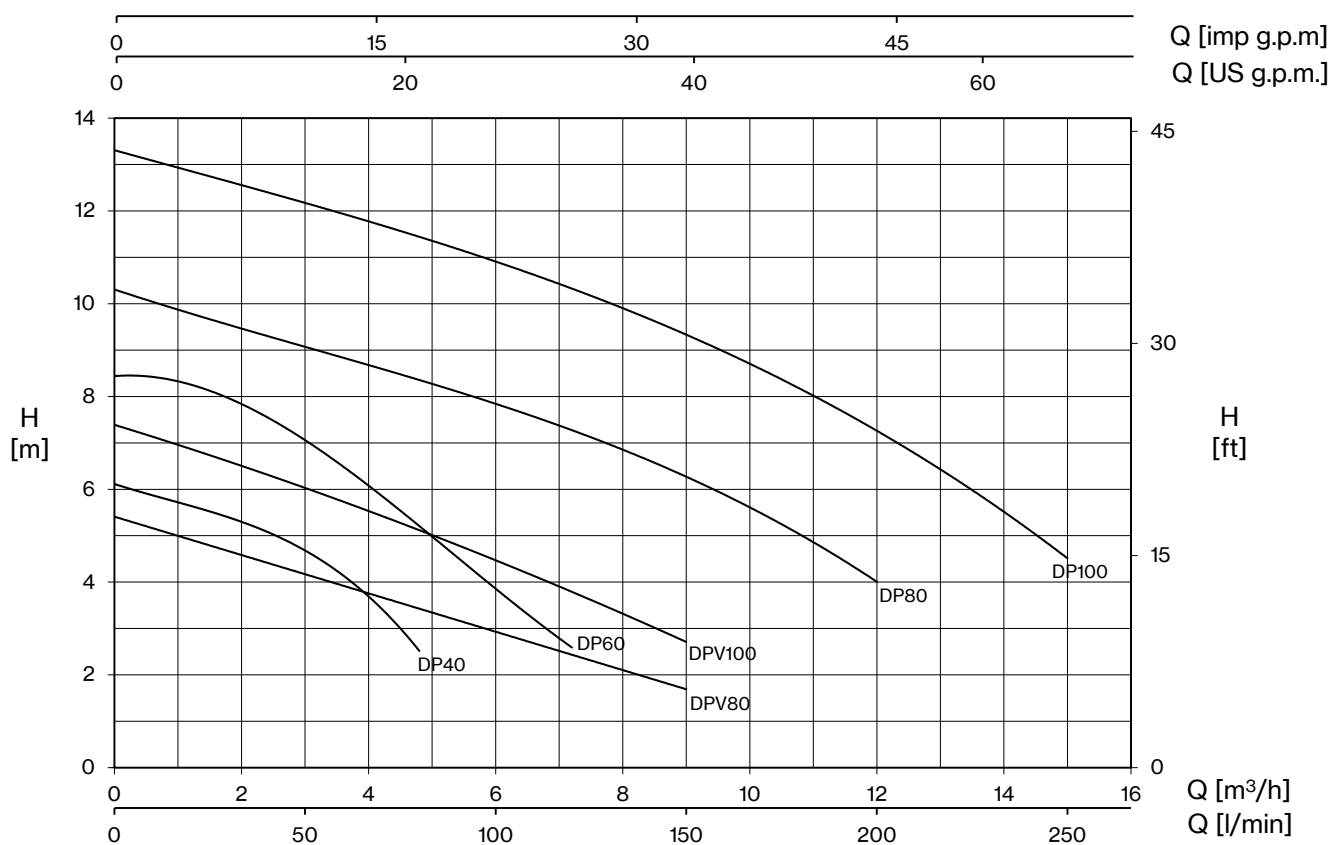


DP



DPV

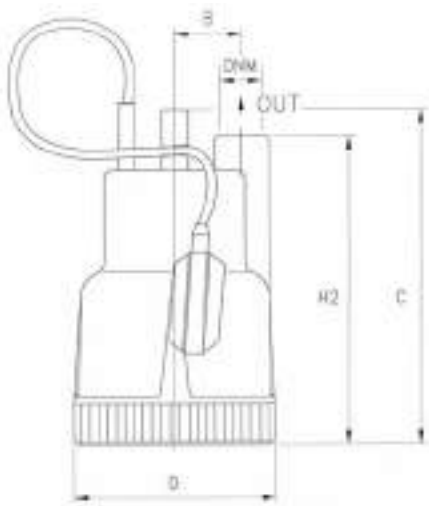




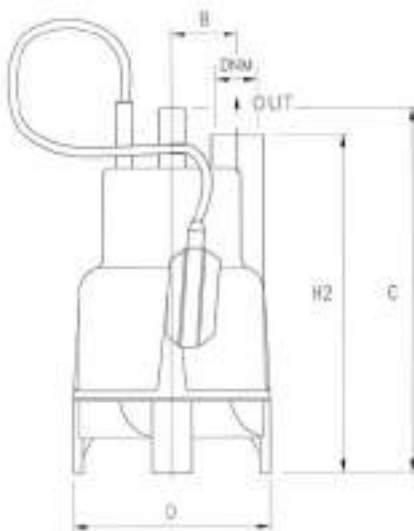
TYPE		W	AMPERE		Q (m³/h - l/min)										
1~	3~		1~	3~	0	1,2	2,4	3	3,6	4,8	6	7,2	9	12	15
					0	20	40	50	60	80	100	120	150	200	250
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)										
DP 40 (G)	-	200	1	-	6,1	5,7	5,0	4,7	4,2	2,5					
DP 60 (G)	-	400	2,1	-	8,5	8,1	7,6	7,2	6,7	5,0	3,9	2,6			
DP 80 (G)	DPT 80	800	3,7	1,8	10,3			9,1	8,8	8,3	7,8	7,3	6,3	4,0	
DP 100 (G)	DPT 100	1050	5,1	2,3	13,3			12,2	12,0	11,5	10,9	10,3	9,3	7,3	4,5

TYPE		W	AMPERE		Q (m³/h - l/min)			
1~	3~		1~	3~	0	3	6	9
					0	50	100	150
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)			
DPV 80 (G)	DPVT 80	500	2,6	1,2	5,4	4,2	2,9	1,7
DPV 100 (G)	DPVT 100	750	3.8	1.7	7.4	5.8	4.7	2.7

DP/DPV



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



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





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

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

3~ 380V - 60Hz

2 Poles induction motor

1~ 220V - 60Hz
(with thermal protection)

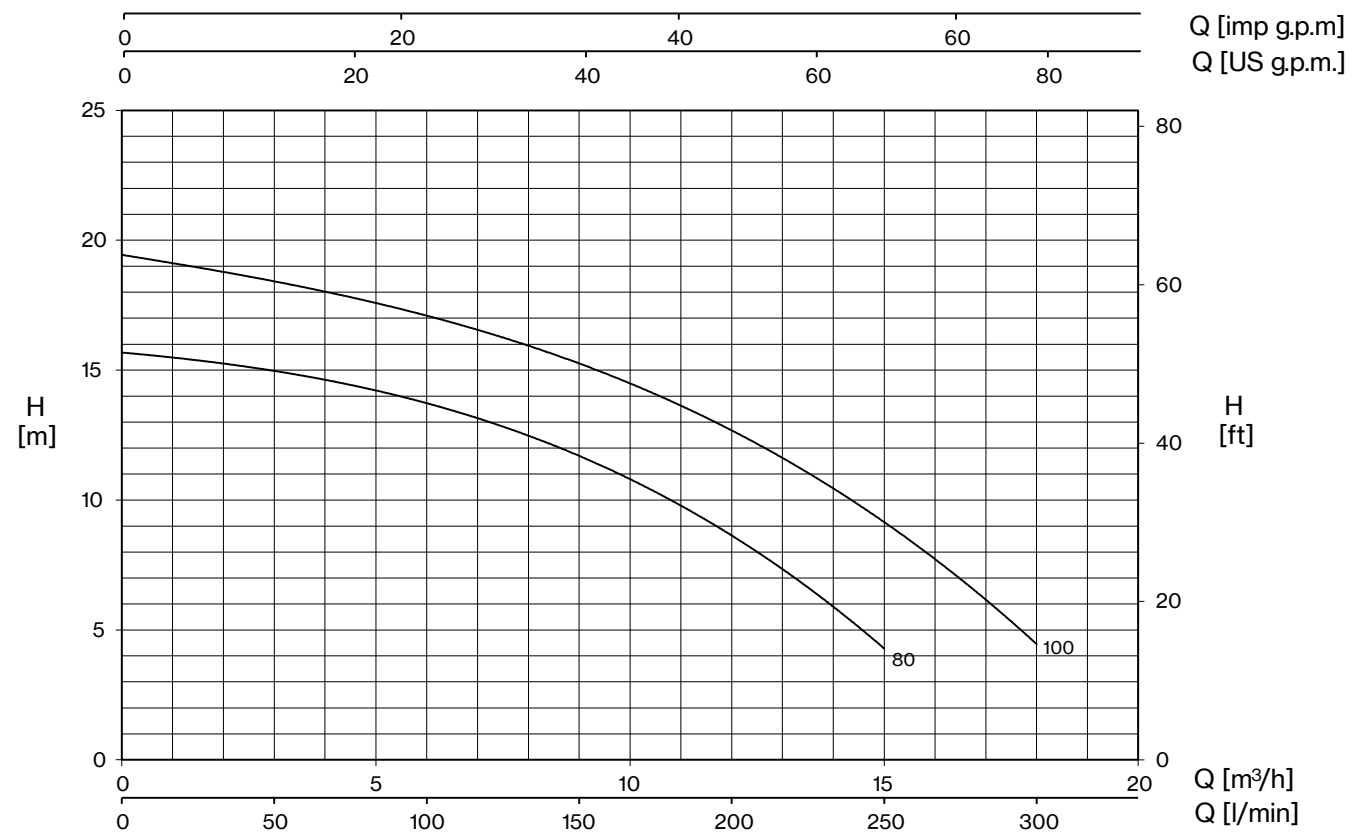
Insulation class F

Protection degree IPX8

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

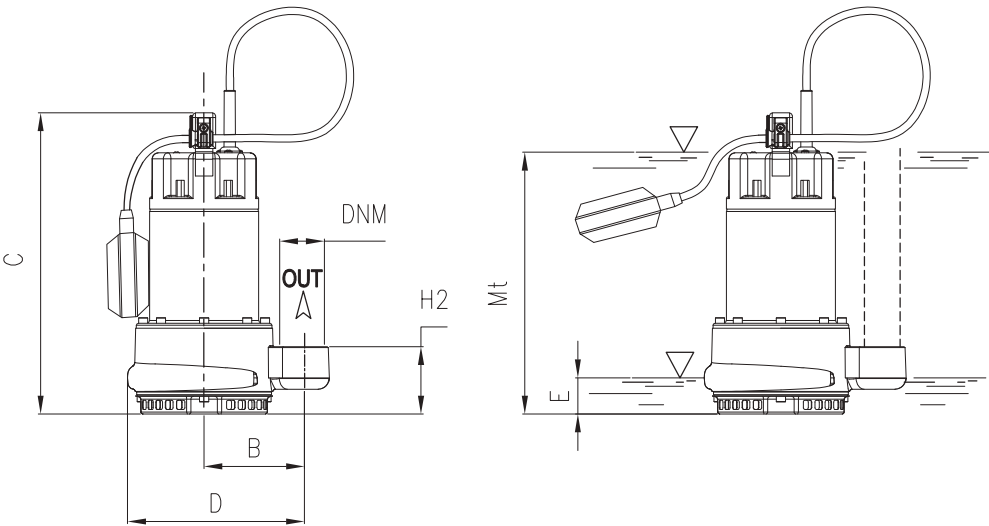


DH



TYPE		W	AMPERE		Q (m³/h - l/min)						
1~	3~		1~	3~	0	3	6	9	12	15	18
					0	50	100	150	200	250	300
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
DH 80 (G)	DHT 80	980	4,3	2,1	15,7	14,9	13,8	11,7	8,6	4,3	
DH 100 (G)	DHT 100	1370	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
	B	C	D	E	H2	Mt	DNM	I	L	M	
DH 80 G	105	330	218.5	45	70	190	1" ½ G	180	255	380	14,5
DH 100 G	105	330	218.5	45	70	190	1" ½ G	180	255	380	15,5



DC 160-310



DCT 410-1000



DCT 410-1000/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

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

3~ 220V - 60Hz

3~ 380V - 60Hz

3~ 220/380V - 60Hz

2 Poles induction motor

1~ 220V - 60Hz

required run capacitor
(35µF for 1,5HP model,
50µF for 2HP model)

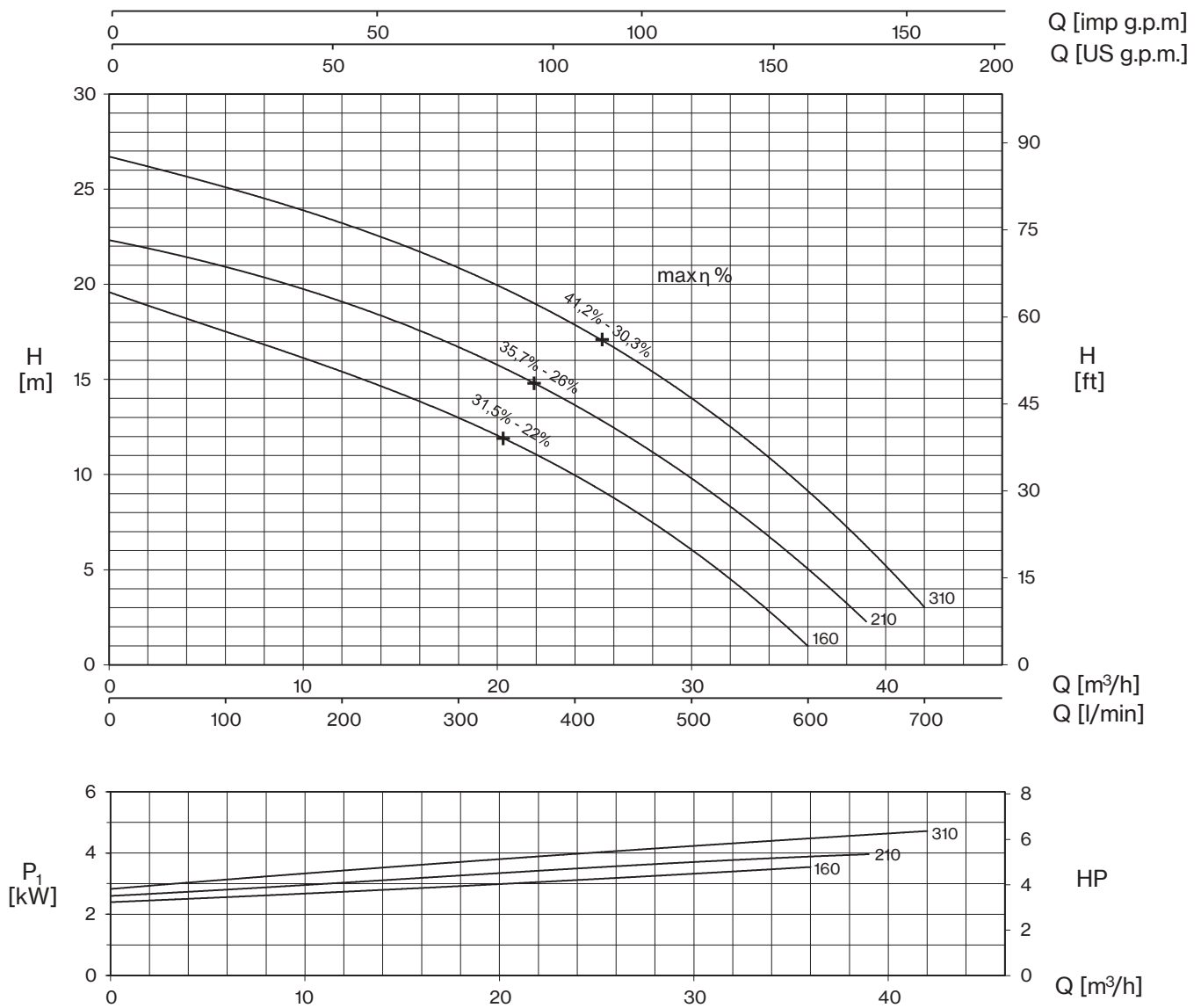
Insulation class F

Protection degree IPX8

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



DC



TYPE		AMPERE			
1~	3~	220 V 60 Hz	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DC 160	DCT 160	18,6	10,6	6,1	-
DC 210	DCT 210	20,6	12,3	7,1	-
-	DCT 310	-	14,5	8,4	-

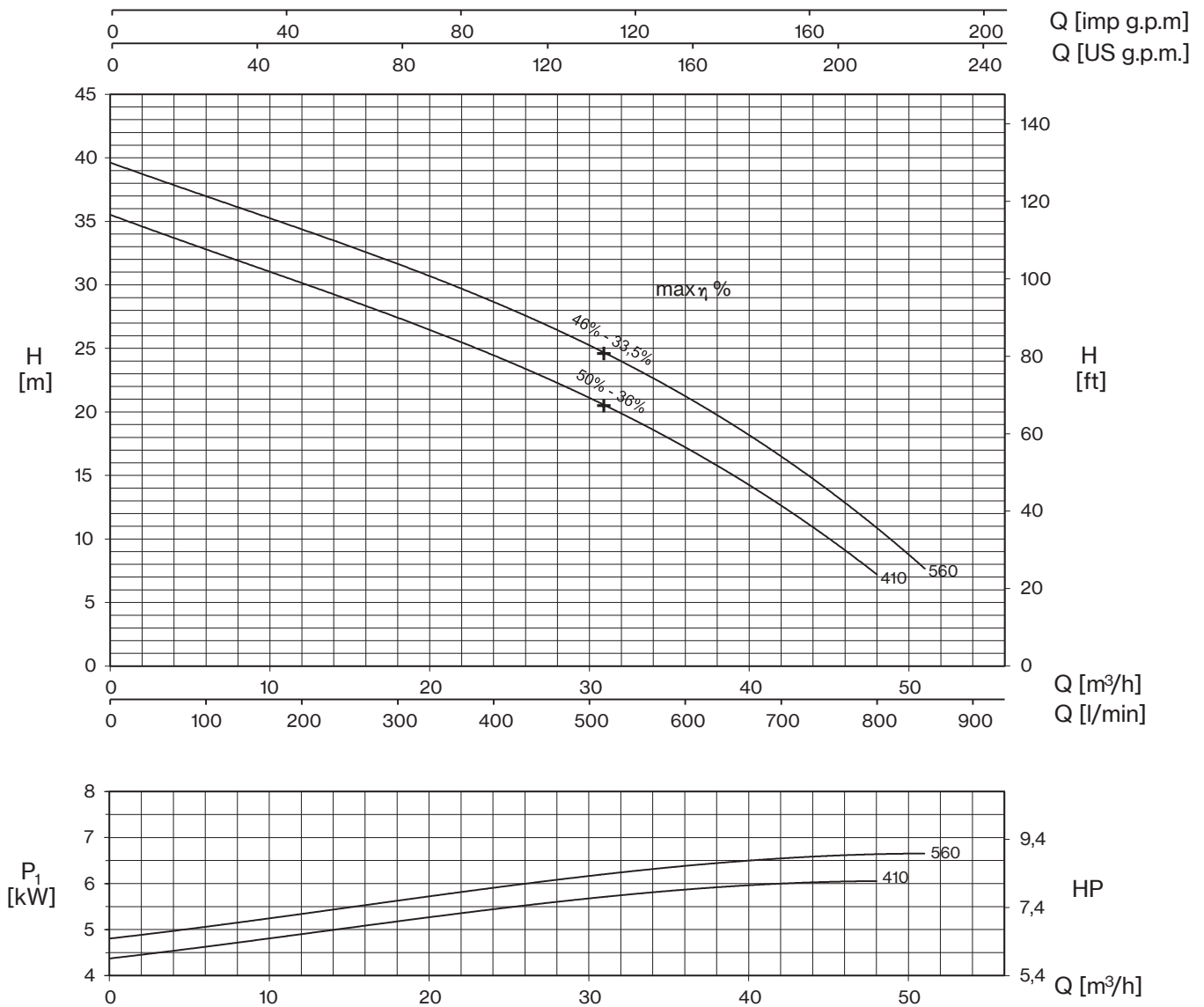
+ max η %

max hydraulic efficiency and respective total efficiency

(*) no standard execution

TYPE		P2		P1 (kW)		Q (m³/h - l/min)								
1~	3~					0	6	12	18	24	30	36	39	42
						0	100	200	300	400	500	600	650	700
		HP	kW	1~	3~	H (m)								
DC 160	DCT 160	1,5	1,1	3,9	3,6	19,6	17,5	15,4	13,0	10,0	6,0	1		
DC 210	DCT 210	2	1,5	4,3	4,0	22,3	21,0	19,0	16,7	13,7	9,8	5,0	2,3	
-	DCT 310	3	2,2	-	4,7	26,6	25,3	23,3	20,7	17,7	14,1	9,3	6,3	2,9





TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DCT 410	18,0	10,4	-
DCT 560	20,3	11,7	-

+ max η %

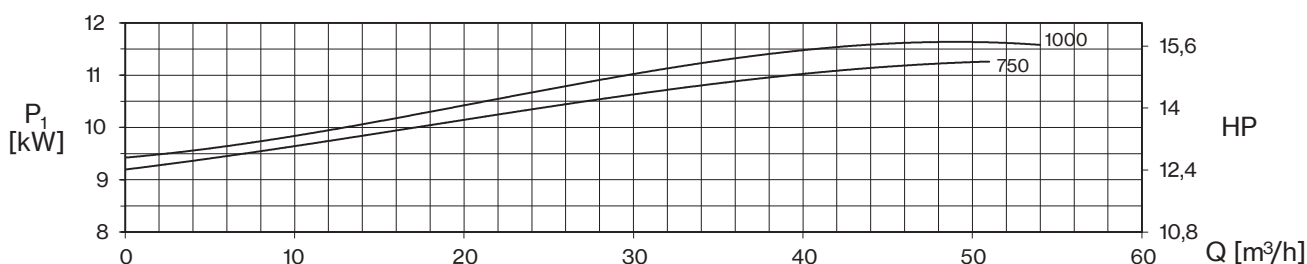
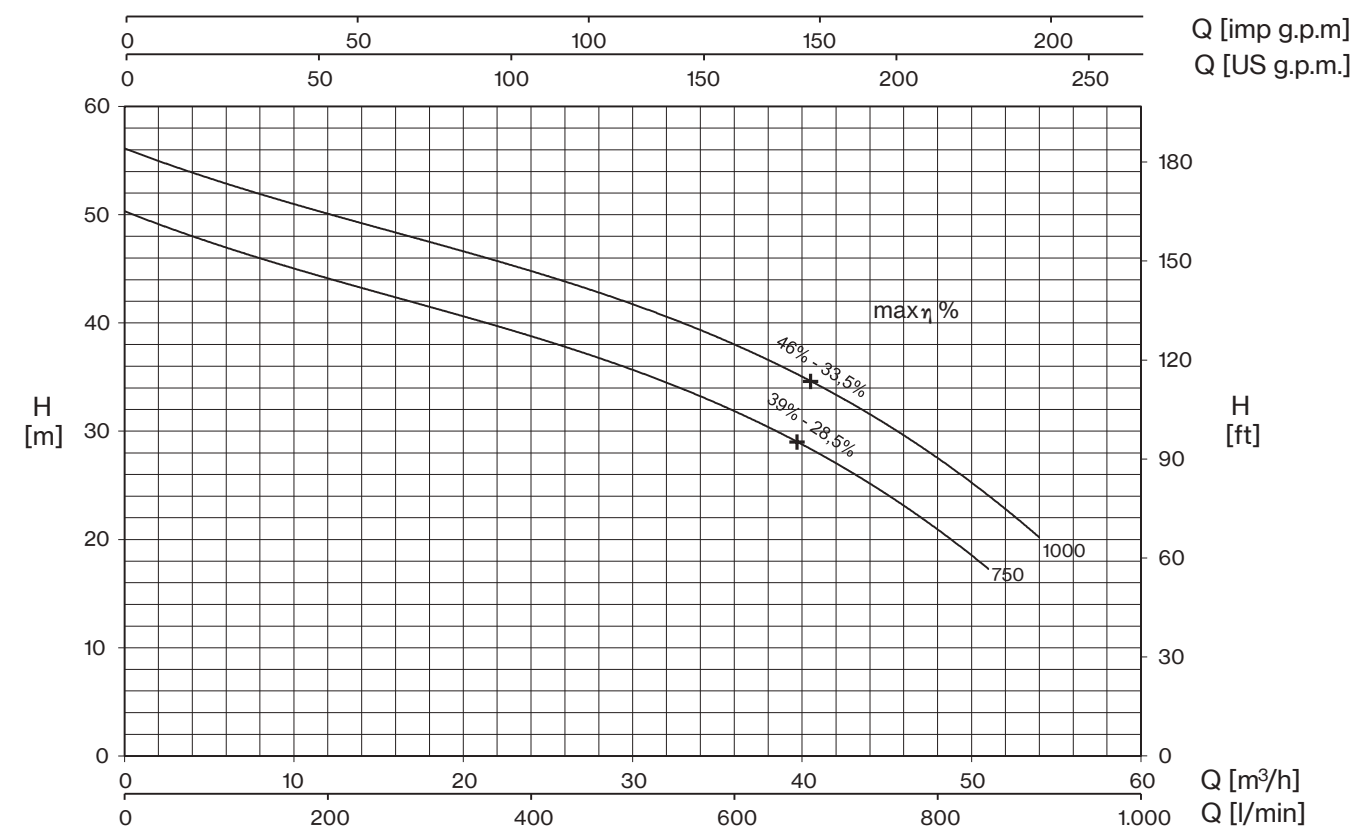
max hydraulic efficiency and respective total efficiency

(*) no standard execution

TYPE	P2		P1 (kW)	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
				H (m)									
	HP	kW	3~										
DCT 410	4	3	6,1	35,5	32,9	30,0	27,5	24,5	21,0	17,3	12,6	7,2	
DCT 560	5,5	4	6,7	39,5	37,2	34,4	31,6	28,6	25,1	21,3	16,6	11,0	7,5



DC



TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DCT 750	-	20,2	35,0
DCT 1000	-	20,8	36,0

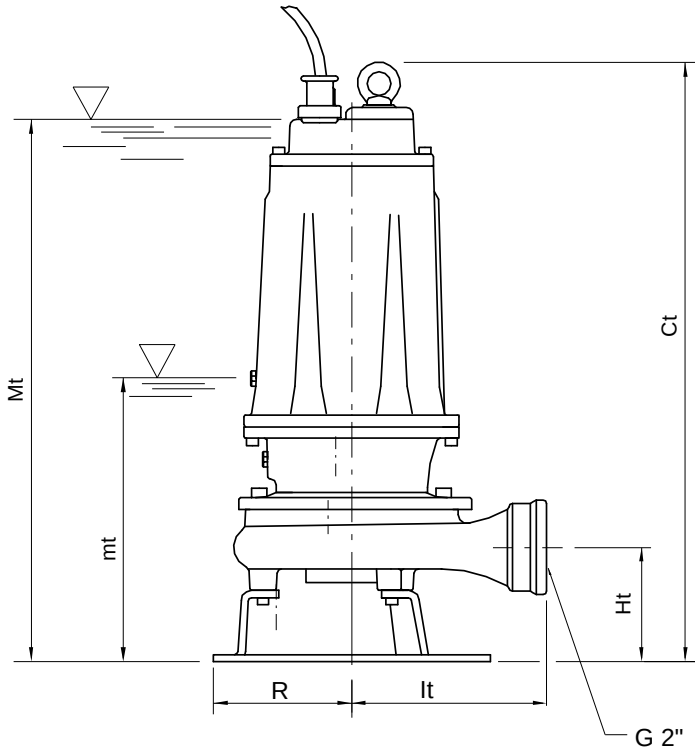
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

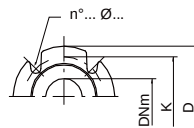
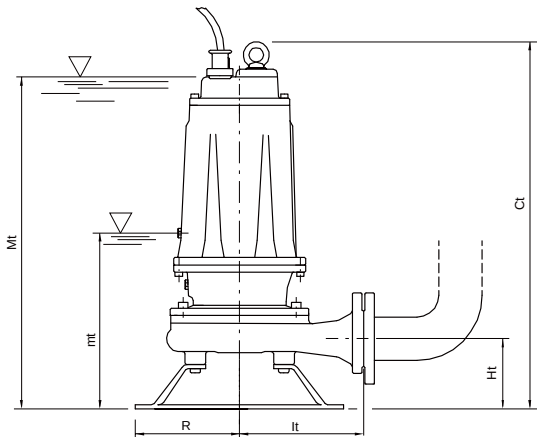
TYPE	P2		P1 (kW)	Q (m³/h - l/min)										
3~				0	6	12	18	24	30	36	42	48	51	54
				0	100	200	300	400	500	600	700	800	850	900
	HP	kW	3~	H (m)										
DCT 750	7,5	5,5	11,1	50,2	47,1	44,3	41,5	38,7	35,4	31,7	27,5	21,1	17,0	
DCT 1000	10	7,5	11,7	56,0	53,0	50,2	47,6	44,7	41,5	37,9	33,5	27,8	24,2	19,9



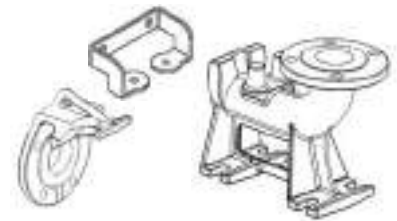


mt: minimum working level
Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	lt	mt	Mt	DNM	
DC 160 - DCT 160	513	102	117	174	205	475	2" G	36,5
DC 210 - DCT 210	513	102	117	174	205	475	2" G	37,5
DCT 310	513	102	117	174	205	475	2" G	37



ACCESSORIES



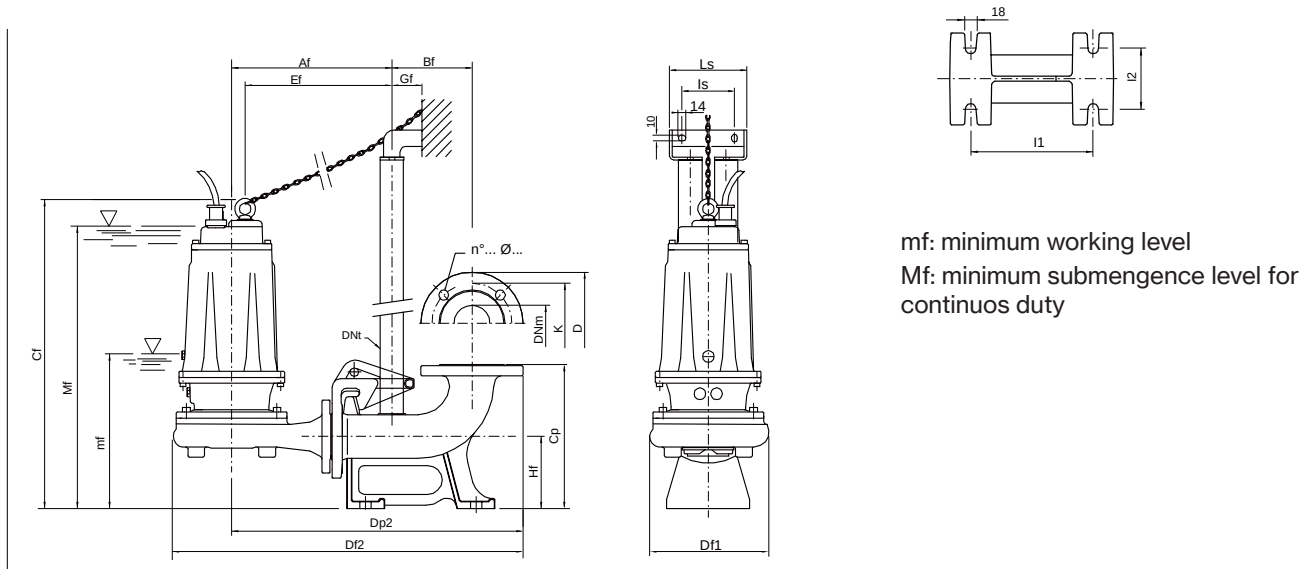
Quick coupling kit



Counterflange

mt: minimum working level
Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	lt	mt	Mt	DNM	
DCT 410	595	112	160	187	263	550	50	60,5
DCT 560	595	112	160	187	263	550	50	63,5
DCT 750	680	160	180	250	280	630	65	90,5
DCT 1000	680	160	180	250	280	630	65	93,5



TYPE	DIMENSIONS (mm)																	
	Af	Bf	Cf	Cp	Df1	Df2	Dp2	Dnt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
DCT 410/P	300	145	614	260	237	654	535	1" ¼	269	55	130	200	100	95	140	290	566	50
DCT 560/P	300	145	614	260	237	654	535	1" ¼	269	55	130	200	100	95	140	290	566	50
DCT 750/P	331	145	656	260	279	701	569	1" ¼	296	55	130	200	100	95	140	290	600	65
DCT 1000/P	331	145	656	260	279	701	569	1" ¼	296	55	130	200	100	95	140	290	600	65

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





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.



Construction features

Pump body cast iron

Shell, motor cover, base support stainless steel



Impeller stainless steel

Mechanical seal

double seal with oilchamber: silicon carbide on pump side, ceramic carbide on motor side

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

3~ 380V - 60Hz

2 Poles induction motor

1~ 220V - 60Hz
(with thermal protection)

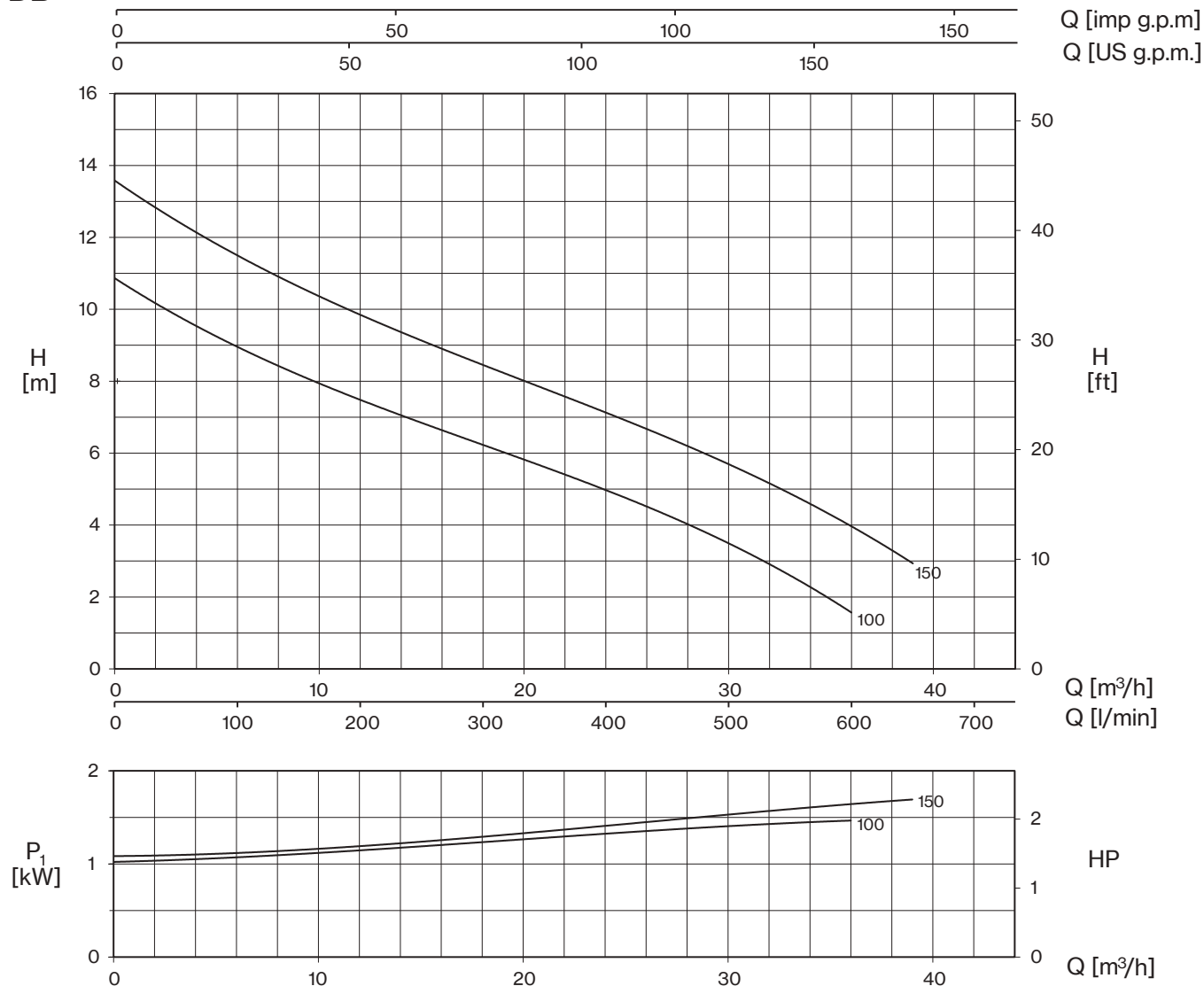
Insulation class F

Protection degree IPX8

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DB	80×120×160	51	80×120×160	51

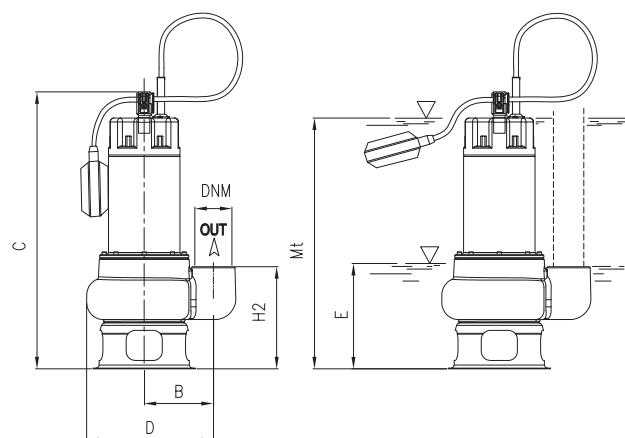


DB



TYPE		W	AMPERE		Q (m³/h - l/min)							
1~	3~		1~	3~	0	6	12	18	24	30	36	39
					0	100	200	300	400	500	600	650
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)							
DB 100 (G)	DBT 100	1440	6,9	3,1	10,9	9,0	7,4	6,2	5,2	3,3	1,6	
DB 150 (G)	DBT 150	1720	8,7	3,3	13,6	11,4	9,8	8,6	7,2	5,6	3,9	3,0

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



TYPE	DIMENSIONS (mm)							M			Kg
	B	C	D	E	H2	Mt	DNM	I	L	M	
DB 100 (G)	142,5	461	247,5	185	170	390	2" G	200	260	470	17
DB 150 (G)	142,5	461	247,5	185	170	390	2" G	200	260	470	18,5



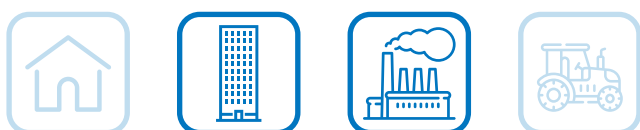


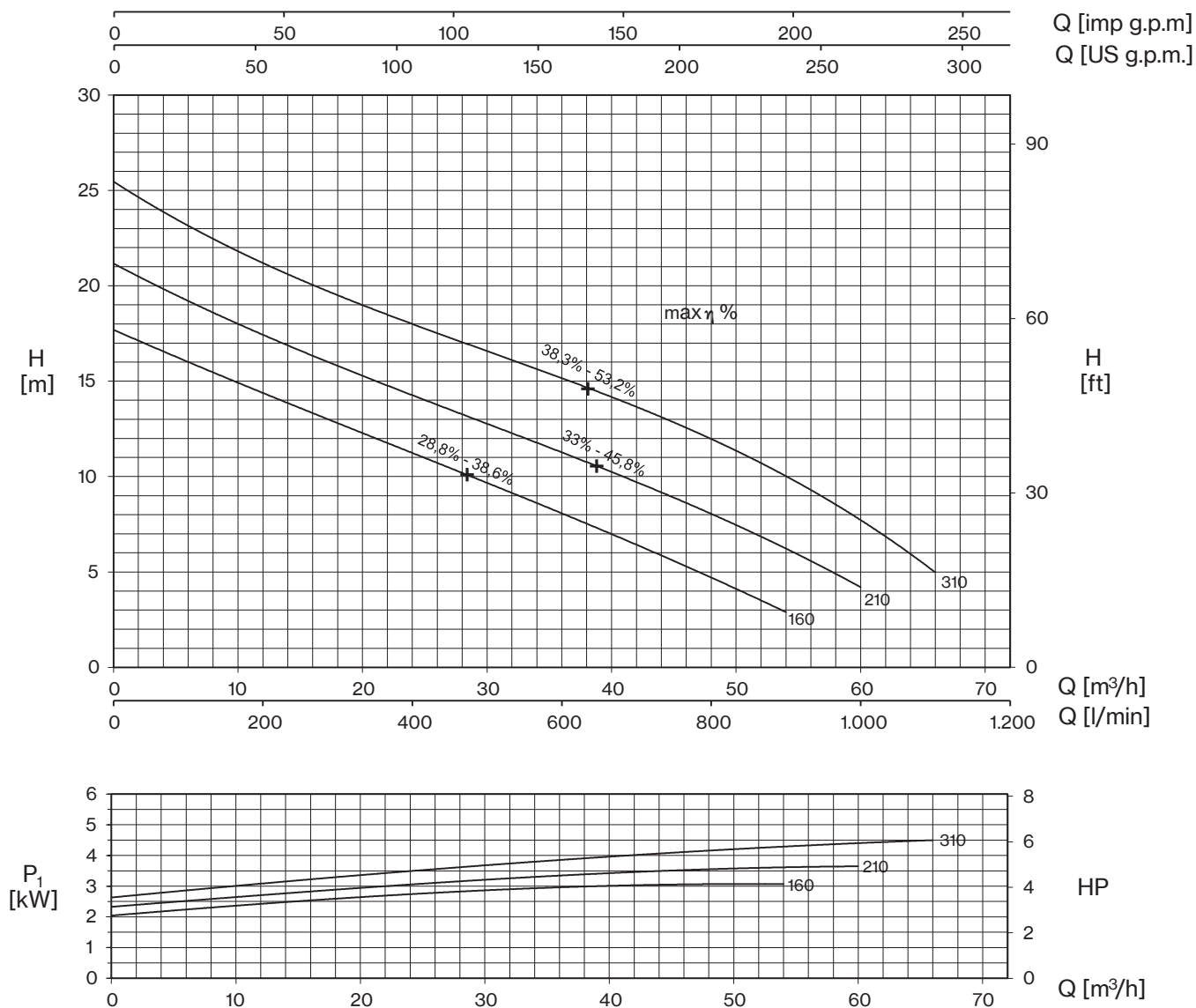
Single channel centrifugal drainage pumps. Specifically designed for heavy duty applications they guarantee high capacity at medium head; ideal for civil and industrial applications. Available in mobile or permanent version with coupling feet.

Construction features	
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	
	3~ 220V - 60Hz 3~ 380V - 60Hz 3~ 220/380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz required run capacitor (35µF for 1,5HP model, 50µF for 2HP model)
Insulation class	F
Protection degree	IPX8

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DM 160-310	85×110×145	18	85×110×190	27
DMT 410-560	85×110×170	12	85×110×170	12





TYPE		AMPERE			
1~	3~	220 V 60 Hz	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DM 160	DMT 160	15,8	9,5	5,5	-
DM 210	DMT 210	18,5	11,2	6,5	-
-	DMT 310	-	14	8,1	-

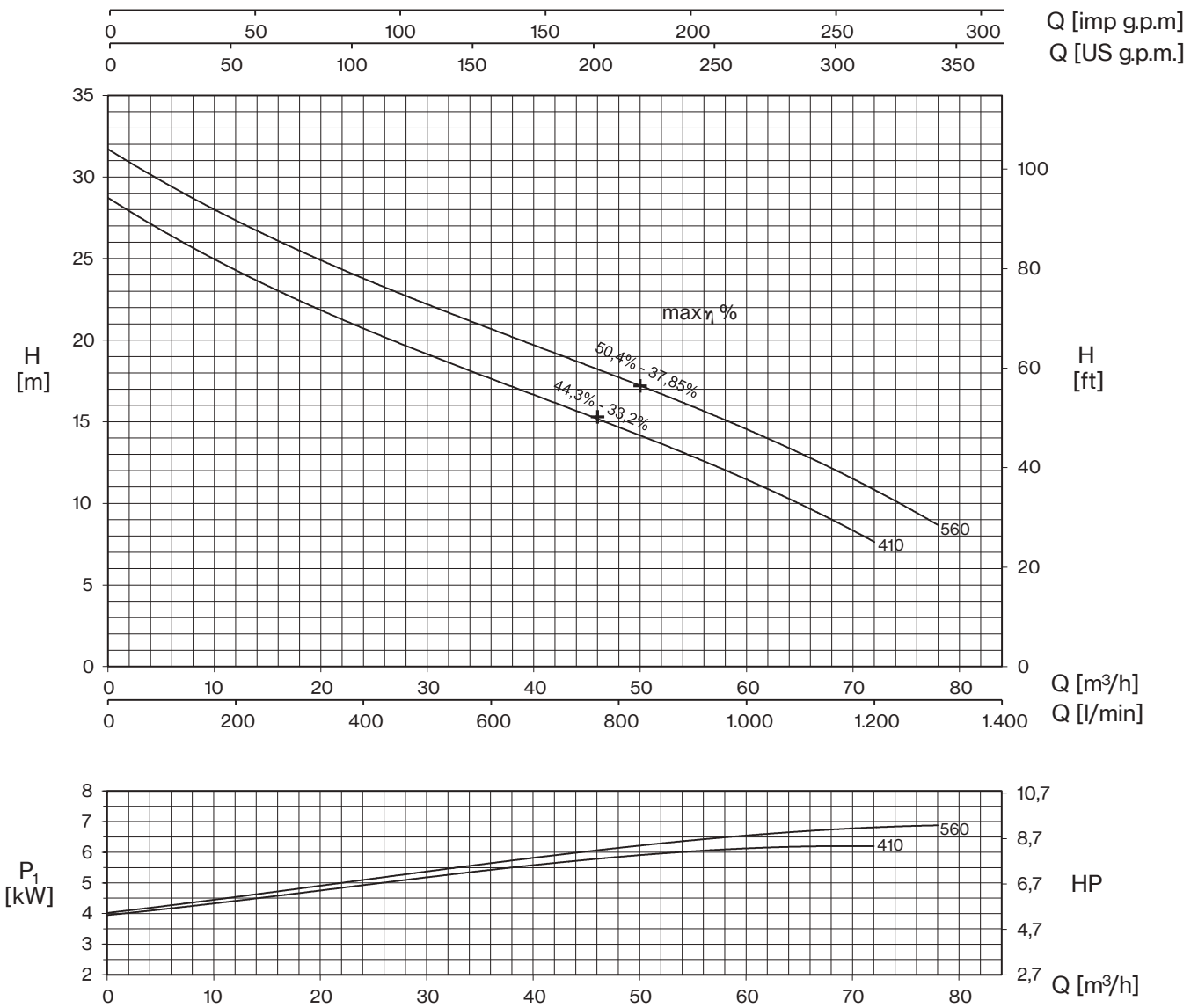
(*) no standard execution

+ max η %

max hydraulic efficiency and respective
total efficiency

TYPE		P2		P1 (kW)		Q (m³/h - l/min)											
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	1~	3~	H (m)											
DM 160	DMT 160	1,5	1,1	3,3	3,1	17,7	16	14,4	12,8	11,2	9,7	8,1	6,4	4,7	2,9		
DM 210	DMT 210	2	1,5	3,9	3,6	21,2	19,1	17,5	15,9	14,2	12,7	11,3	9,7	8,1	6,2	4,2	
-	DMT 310	3	2,2	-	4,6	25,3	23,2	21,4	19,7	18,0	16,4	14,9	13,5	12	10,2	8,2	4,6





TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ (*)
DMT 410	18,8	10,9	-
DMT 560	21,2	12,1	-

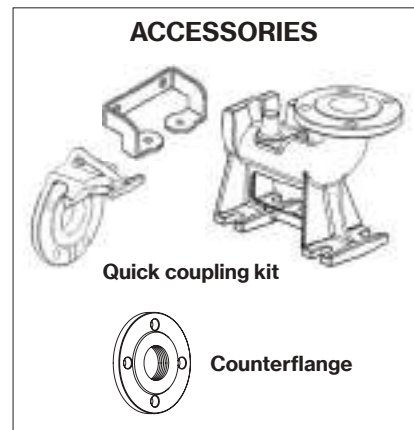
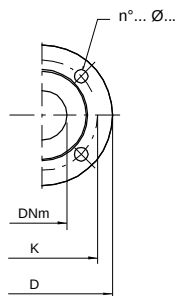
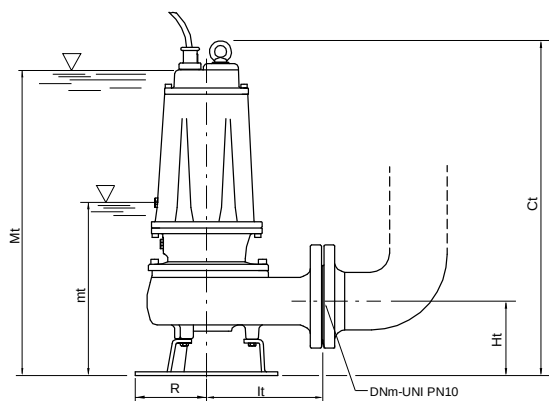
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE	P2		P1 (kW)	Q (m³/h - l/min)									
				0	6	18	30	42	54	60	66	72	78
	HP	kW	3~	0	100	300	500	700	900	1000	1100	1200	1300
3~	H (m)												
DMT 410	4	3	6,2	28,7	26,5	22,4	19,1	16,2	13,1	11,4	9,7	7,6	
DMT 560	5,5	4	6,9	31,5	29,7	25,5	22,1	19,1	16,2	14,6	12,8	10,9	8,6

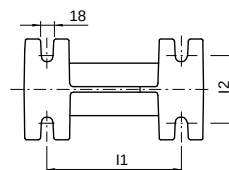
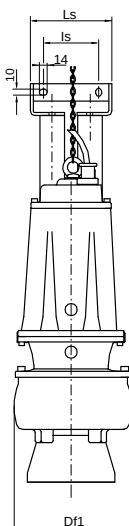
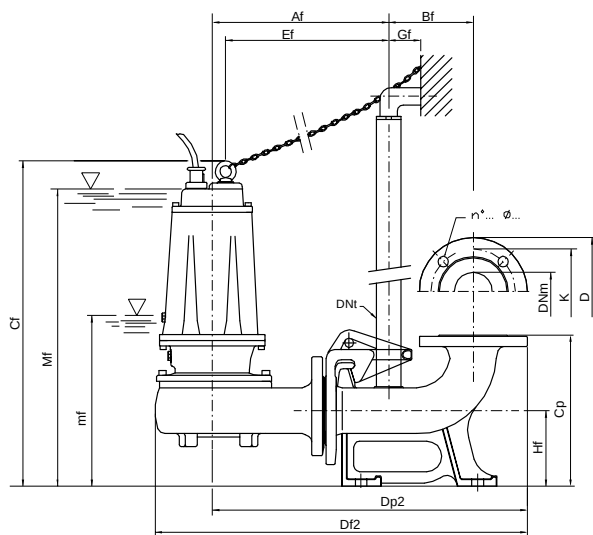




mt: minimum working level

Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	Lt	mt	Mt	DNM	
DMT 160	551	123	117	191	243	513	65	40
DM 160-DMT 210	551	123	117	191	243	513	65	41,5
DM 210-DMT 310	551	123	117	191	243	513	65	42
DMT 410	645	148	160	210	285	600	80	68,5
DMT 560	645	148	160	210	285	600	80	71



mf: minimum working level

Mf: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)																	
	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
DMT 160/P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DM 160 / DMT 210/P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DM 210 / DMT 310/P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DMT 410/P	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80
DMT 560/P	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80

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



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

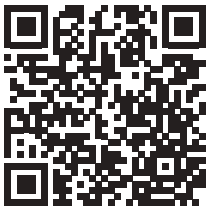
Black water

Construction features

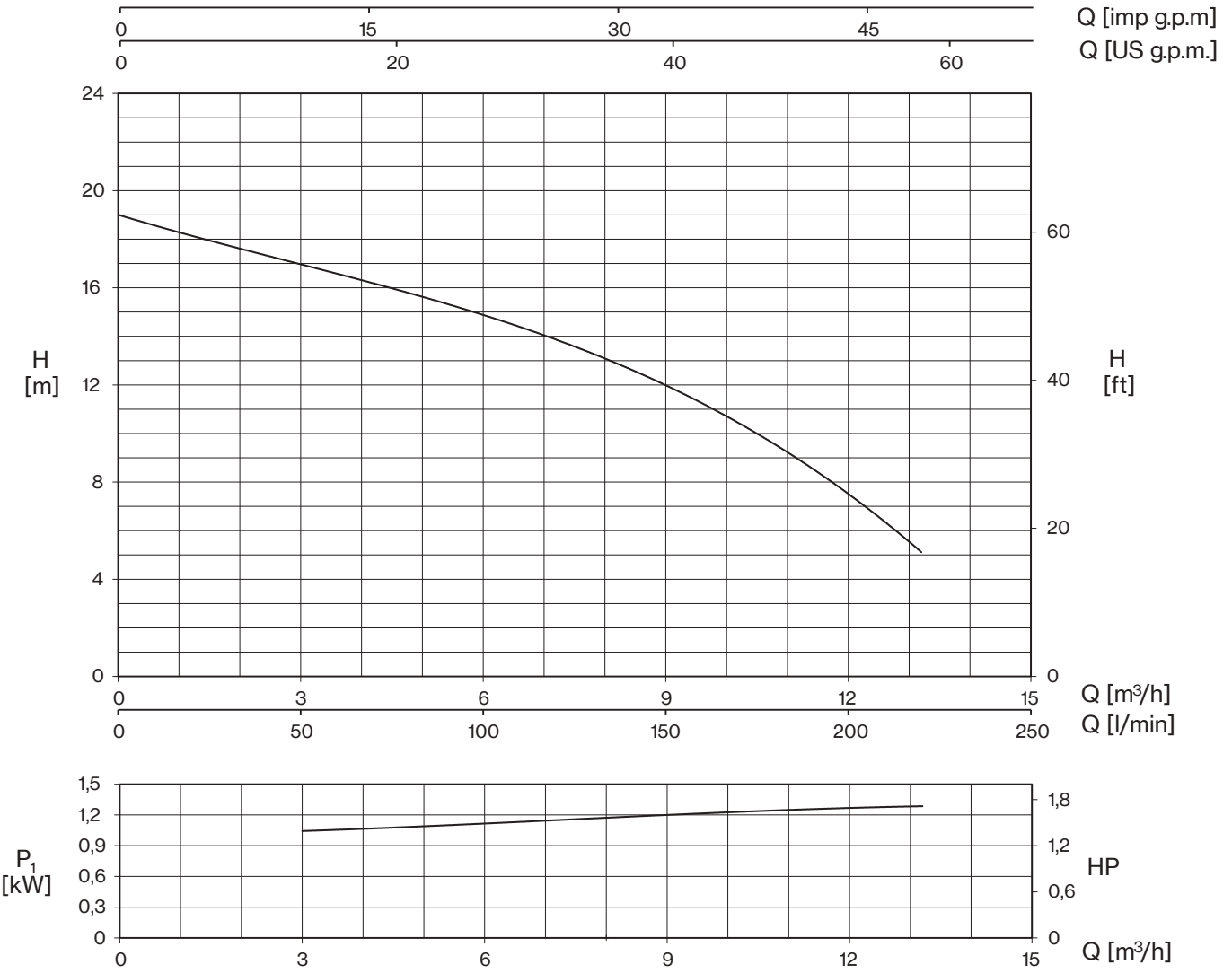
Pump body	cast iron
Shell, motor cover	stainless steel
Impeller	brass
Mechanical seal	double seal with oil barrier; silicon carbide on pump side, sealing ring on motor side
Motor shaft	stainless steel AISI 430
 Grinder	treated stainless steel
Max submergence	5 m
Liquid temperature	0 - 40 °C
Cable	H07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

Motor

	3~ 380V - 60Hz
2 Poles induction motor	1~ 220V - 60Hz (with thermal protection)
Insulation class	F
Protection degree	IPX8

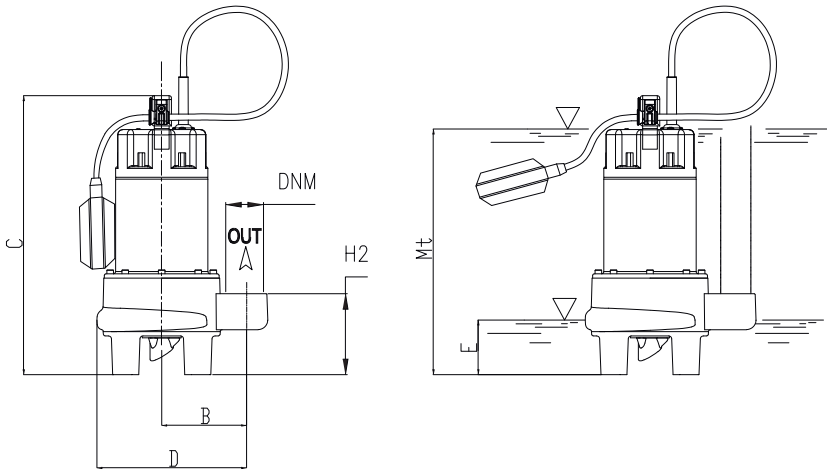


DTR 101



TYPE		W	AMPERE		Q (m³/h - l/min)					
1~	3~		1~	3~	0	3	6	9	12	13,2
			1x220V 60Hz	3x380V 60Hz	0	50	100	150	200	220
					H (m)					
DTR 101 (G)	DTRT 101	1300	6,0	2,4	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
	B	C	D	E	H2	Mt	DNM	I	L	M	
DTR 101	105	359	218,5	70	104,5	313	1" ½ G	260	185	450	16,5



DTR/DTRT

**Sewage
Grinder**



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.

DTR 150-300

DTRT 400-1000

DTRT 400-1000/P

Construction features

Pump body	cast iron
Shell, motor cover	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier: silicon carbide on pump side, sealing ring 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

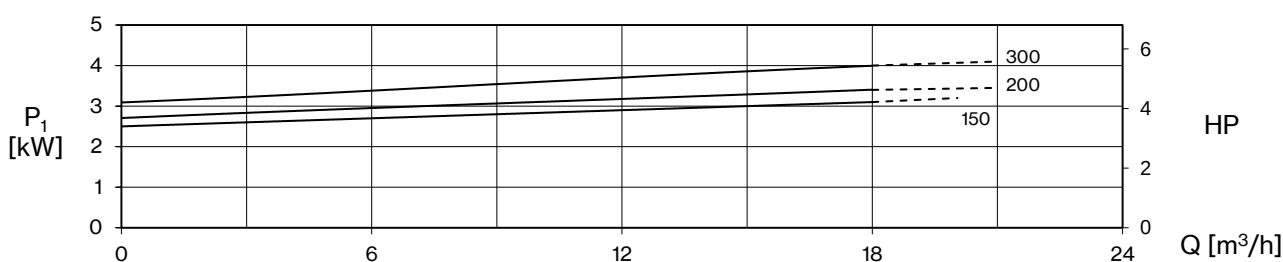
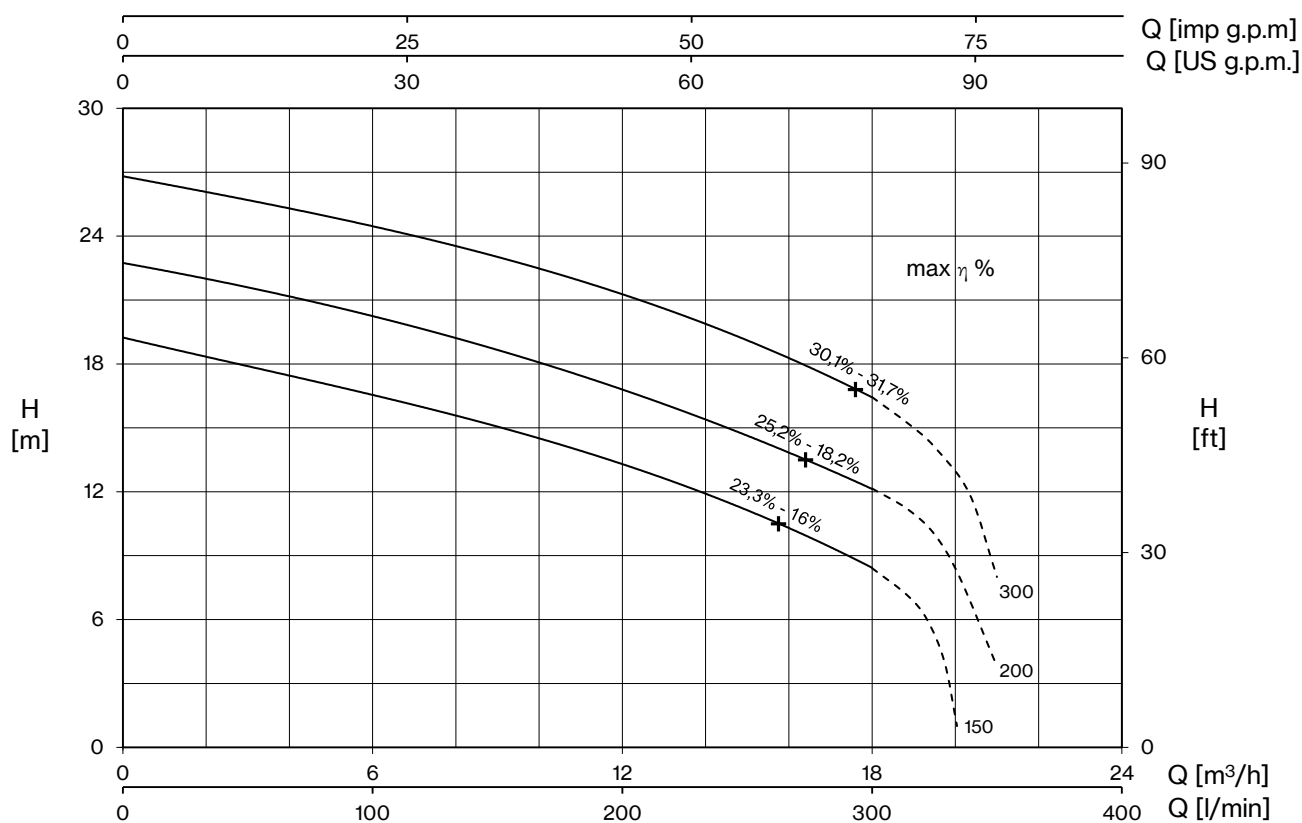
Motor

2 Poles induction motor	3~ 220V - 60Hz
	3~ 380V - 60Hz
	3~ 220/380V - 60Hz
	1~ 220V - 60Hz (required run capacitor (35µF for 1,5HP model, 50µF for 2HP model))
Insulation class	F
Protection degree	IPX8

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



DTR/DTRT



TYPE		AMPERE			
1~	3~	220 V 60 Hz	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DTR 150	DTRT 150	16,2	9,4	5,4	-
DTR 200	DTRT 200	17,5	10,2	5,9	-
-	DTRT 300	-	12,6	7,3	-

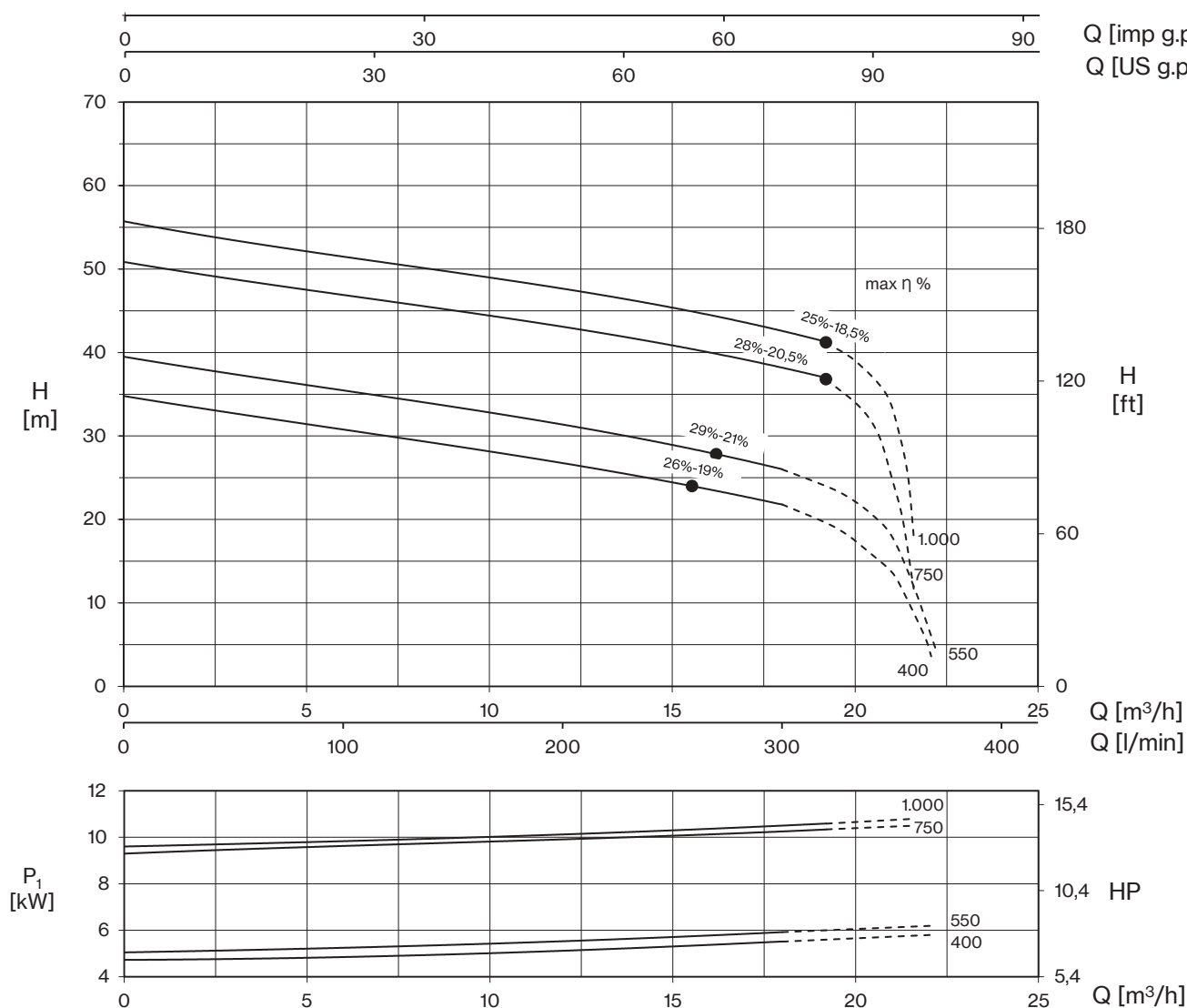
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE		P2		P1 (kW)		Q (m³/h - l/min)							
1~	3~					0	3	6	9	12	13,2	15	18
						0	50	100	150	200	220	250	300
						HP	kW	1~	3~	H (m)			
DTRT 150	DTRT 150	1,5	1,1	3,4	3,1	19,2	18,0	16,5	15,0	13,3	12,5	11,2	8,4
DTRT 200	DTRT 200	2	1,5	3,7	3,4	22,7	21,7	20,2	18,6	16,8	16,0	14,7	12,1
-	DTRT 300	3	2,2	-	4,0	26,8	25,7	24,5	23,0	21,2	20,5	19,2	16,4





TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz Δ / Δ
DTRT 400	15,9	9,2	-
DTRT 550	18,2	10,5	-
DTRT 750	-	18,8	32,5
DTRT 1000	-	19,0	32,9

(*) no standard execution

+ max η %

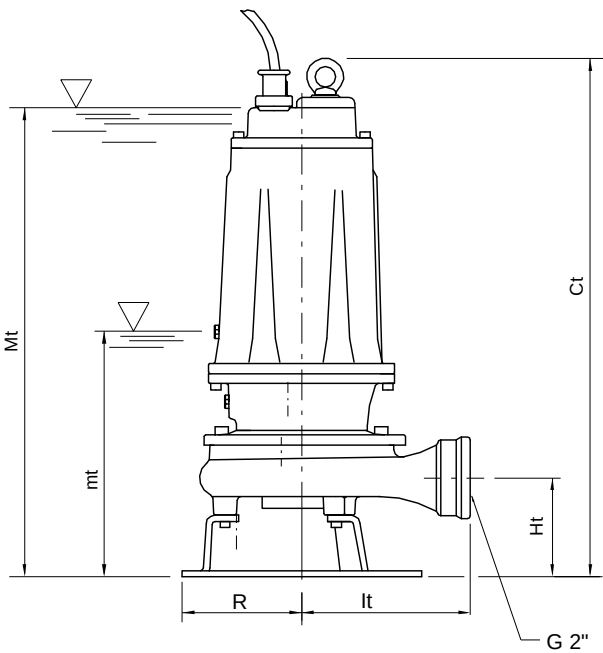
max hydraulic efficiency and respective
total efficiency

TYPE	P2		P1 (kW)	Q (m³/h - l/min)							
				0	3	6	9	12	15	18	
	HP	kW	3~	0	50	100	150	200	250	300	300
DTRT 400	4	3	5,1	34,8	32,7	30,8	28,8	26,8	24,4	21,8	
DTRT 550	5,5	4	5,9	39,5	37,4	35,5	33,5	31,3	29,0	26,0	

TYPE	P2		P1 (kW)	Q (m³/h - l/min)							
				0	3	6	9	12	15	18	19,2
	HP	kW	3~	0	50	100	150	200	250	300	320
DTRT 750	7,5	5,5	10,3	50,8	48,9	46,9	45,0	43,0	40,9	38,4	36,8
DTRT 1000	10	7,5	10,6	55,7	53,5	51,5	49,6	47,6	45,4	42,7	41,2

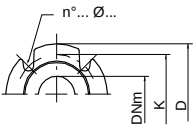
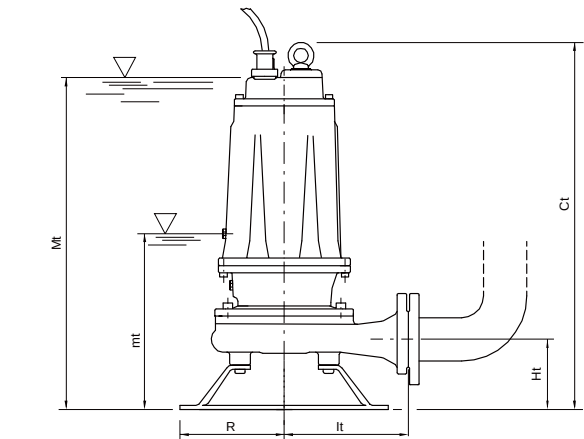


DTR/DTRT

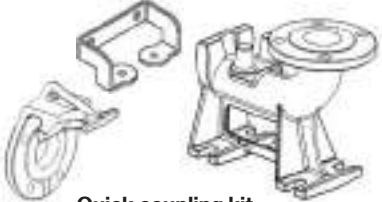


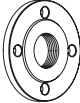
mt: minimum working level
Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							
	Ct	Ht	R	Lt	mt	Mt	DNM	
DTR 150-DTRT 150	513	102	117	174	205	475	2" G	37,5
DTR 200-DTRT 200	513	102	117	174	205	475	2" G	38,5
DTRT 300	513	102	117	174	205	475	2" G	38



ACCESSORIES

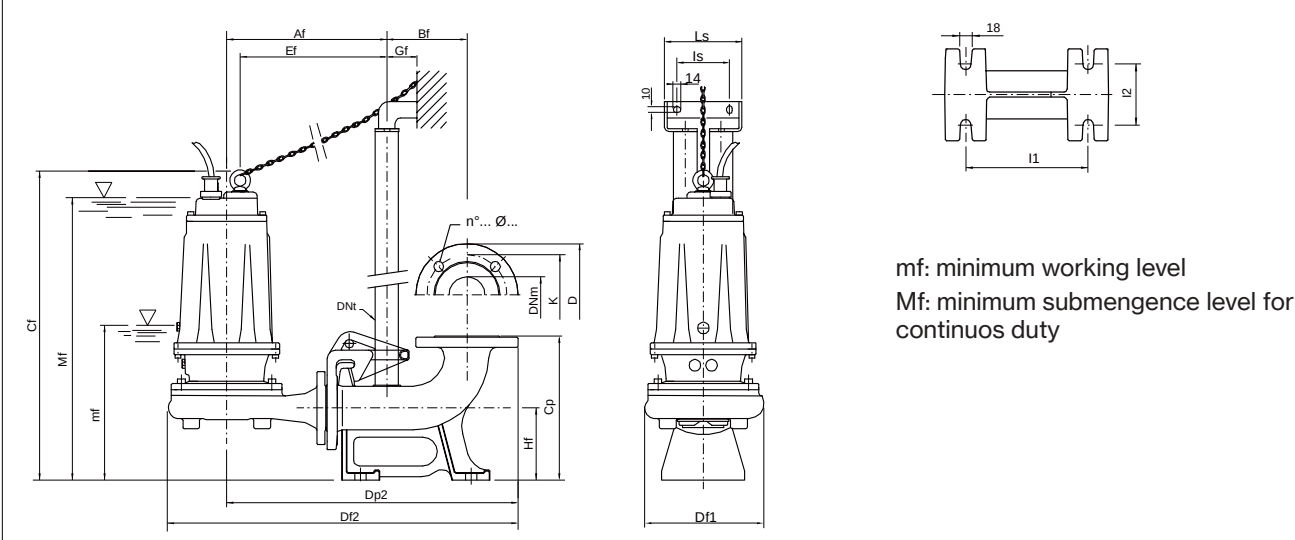

Quick coupling kit


Counterflange

mt: minimum working level
Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							
	Ct	Ht	R	Lt	mt	Mt	DNM	
DTRT 400	595	112	160	190	265	550	50	61,5
DTRT 550	595	112	160	190	265	550	50	65,5
DTRT 750	680	160	180	250	280	630	65	91,5
DTRT 1000	680	160	180	250	280	630	65	94,5





TYPE	DIMENSIONS (mm)																	
	Af	Bf	Cf	Cp	Df1	Df2	Dp2	Dnt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
DTRT 400/P	300	145	614	260	237	654	538	1" ¼	269	55	130	200	100	95	140	290	566	50
DTRT 550/P	300	145	614	260	237	654	538	1" ¼	269	55	130	200	100	95	140	290	566	50
DTRT 750/P	331	145	656	260	279	710	569	1" ¼	297	55	130	200	100	95	140	290	600	65
DTRT 1000/P	331	145	656	260	279	710	569	1" ¼	297	55	130	250	100	95	140	290	600	65

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





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.



Construction features

Pump body cast iron with openings 1"½ and 2"

Shell, motor cover, base support stainless steel



Impeller stainless steel set-back Vortex

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 35 mm (80-100)
Ø max 50 mm (82-102)

Max submergence 5 m

Liquid temperature 0 - 40 °C

Cable H07 RN8F, 10 m

G float switch

Motor

3~ 380V - 60Hz

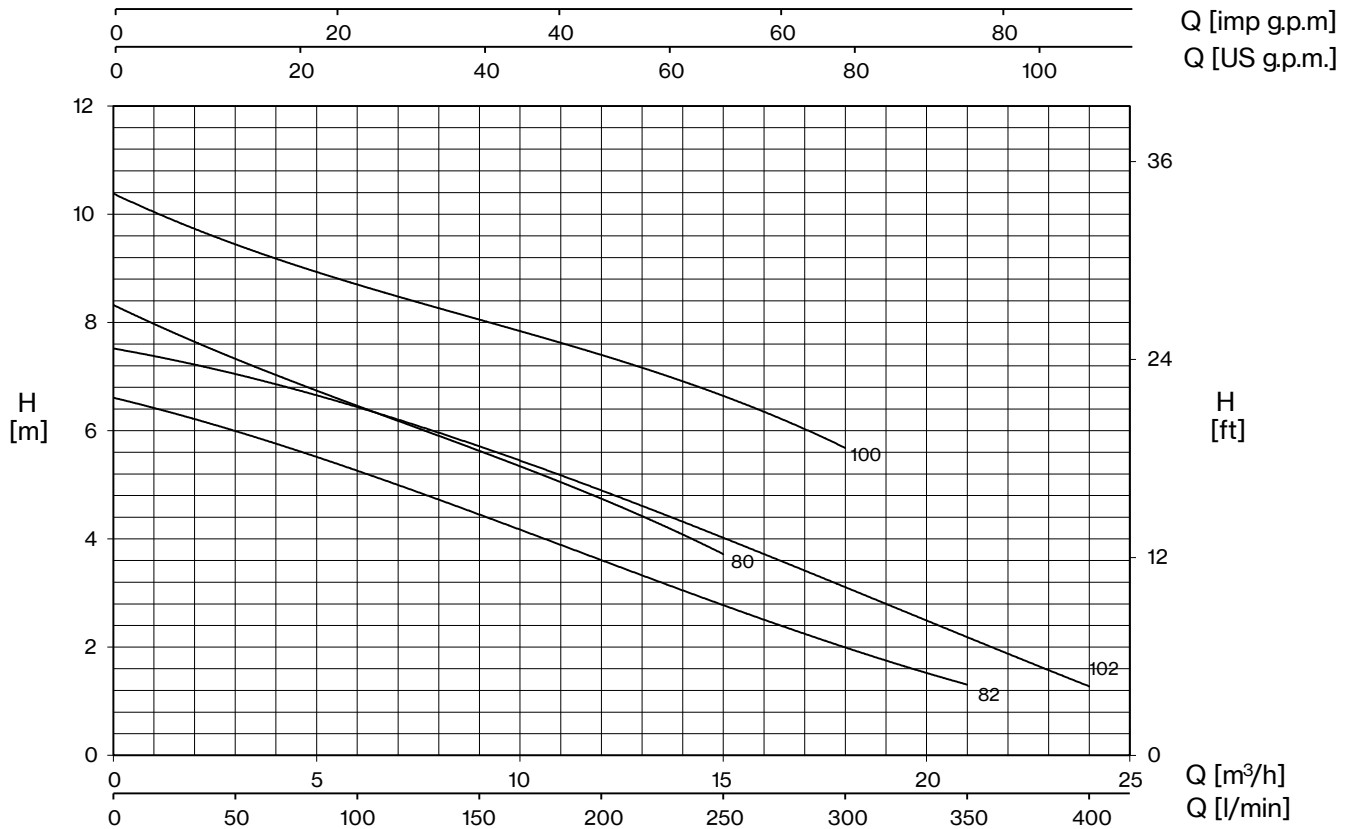
2 Poles induction motor 1~ 220V - 60Hz
(with thermal protection)

Insulation class F

Protection degree IPX8

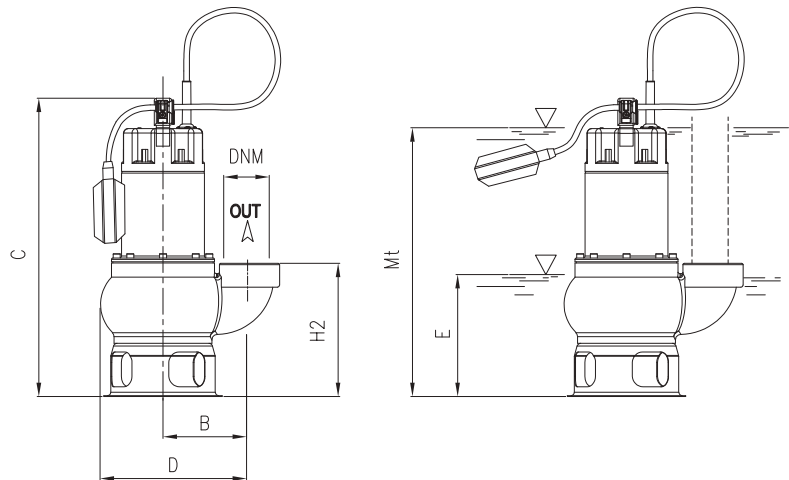
TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DG	80×120×145	48	80×120×190	76





TYPE		W	AMPERE		Q (m³/h - l/min)								
1~	3~		1~	3~	0	3	6	9	12	15	18	21	24
					0	50	100	150	200	250	300	350	400
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)								
DG 80 (G)	DGT 80	1050	4,7	2,2	8,3	7,4	6,4	5,6	4,8	3,7			
DG 80/2 (G)	DGT 80/2	1050	4,7	2,2	8,3	7,4	6,4	5,6	4,8	3,7			
DG 100 (G)	DGT 100	1350	6,2	2,8	10,4	9,4	8,7	8,1	7,4	6,6	5,7		
DG 100/2 (G)	DGT 100/2	1350	6,2	2,8	10,4	9,4	8,7	8,1	7,4	6,6	5,7		
DG 82 (G)	DGT 82	1000	4,5	2,1	6,6	6	5,3	4,4	3,6	2,8	2	1,3	
DG 102 (G)	DGT 102	1200	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
	B	C	D	E	H2	Mt	DNM	I	L	M	
DG 80 (G)	110	410	230	140	174	290	1" ½ G	250	183	448	14
DG 80/2 (G)	110	410	230	140	174	290	2" G	250	183	448	14
DG 100 (G)	110	410	230	140	174	290	1" ½ G	250	183	448	15
DG 100/2 (G)	110	410	230	140	174	290	2" G	250	183	448	15,5
DG 82 (G)	120	426	250	150	190	300	2" G	265	205	500	15
DG 102 (G)	120	426	250	150	190	300	2" G	265	205	500	16



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 1½" and 2"

Shell, motor cover, base support stainless steel



Impeller stainless steel set-back Vortex

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

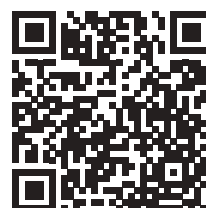
3~ 380V - 60Hz

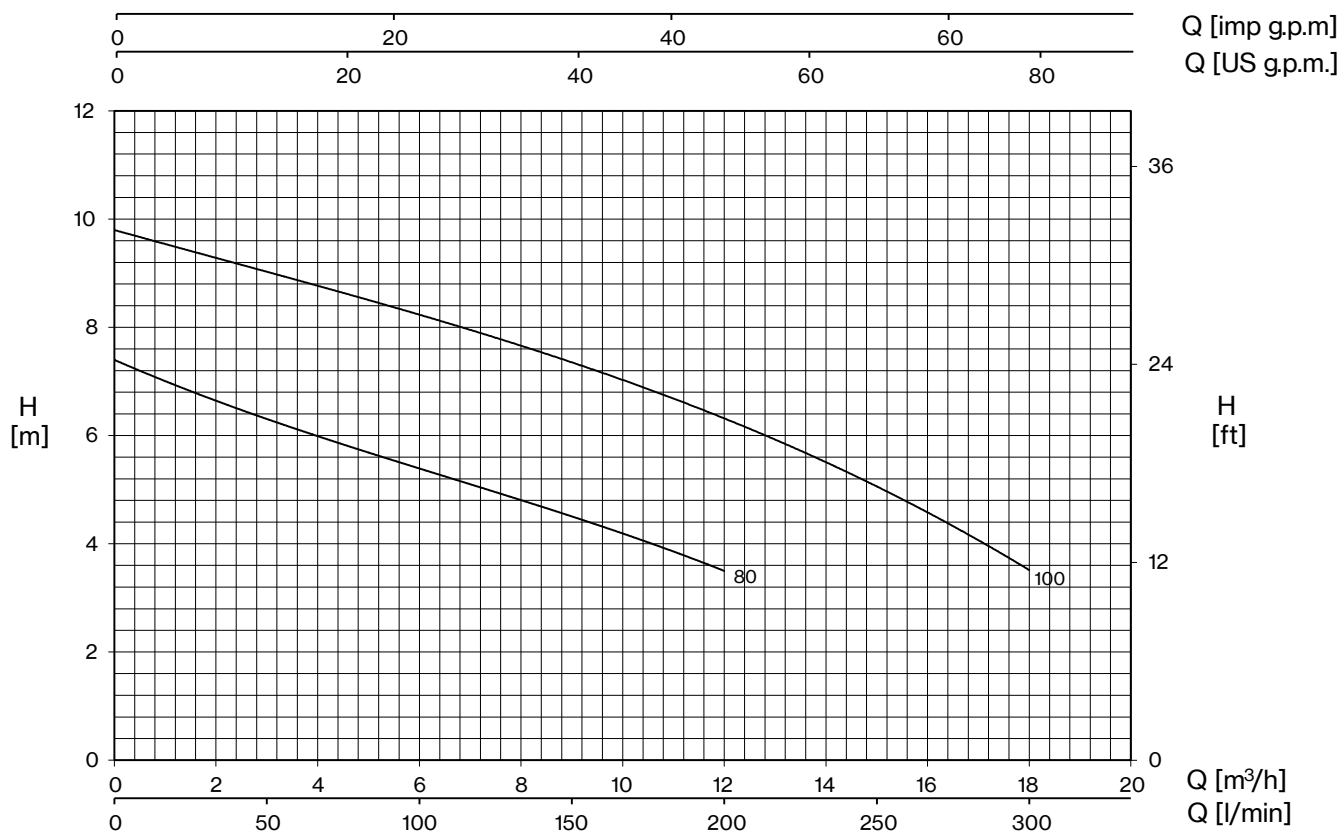
2 Poles induction motor 1~ 220V - 60Hz
(with thermal protection)

Insulation class F

Protection degree IPX8

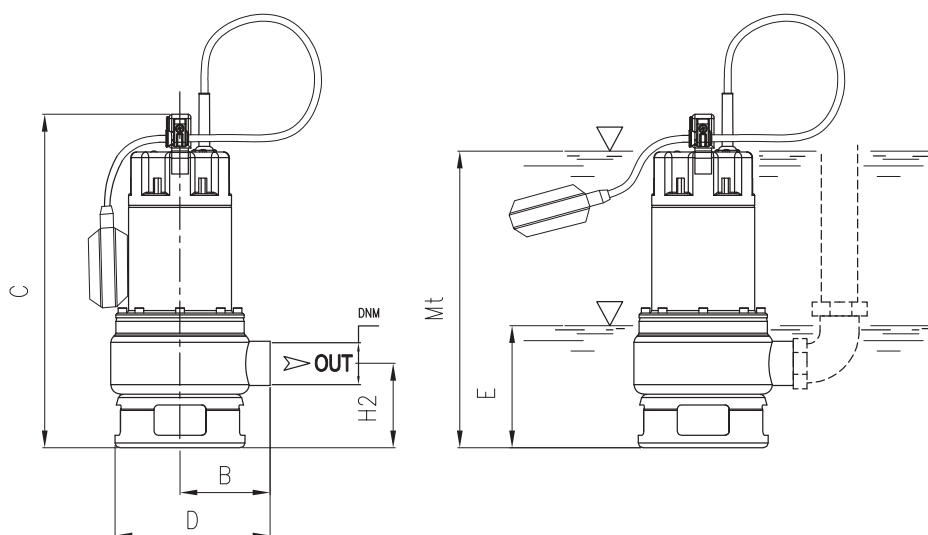
TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DX	80×120×145	48	80×120×190	76





TYPE		W	AMPERE		Q (m³/h - l/min)						
1~	3~		1~	3~	0	3	6	9	12	15	18
					0	50	100	150	200	250	300
			1x220 V 60 Hz	3x380 V 60 Hz	H (m)						
DX 80 (G)	DXT 80	1050	4,7	2,2	7,4	6,3	5,4	4,5	3,5		
DX 80/2 (G)	DXT 80/2	1050	4,7	2,2	7,4	6,3	5,4	4,5	3,5		
DX 100 (G)	DXT 100	1350	6,2	2,8	9,8	9	8,3	7,3	6,3	5,1	3,5
DX 100/2 (G)	DXT 100/2	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
 continuous duty



TYPE	DIMENSIONS (mm)										Kg
	B	C	D	E	H2	Mt	DNM	I	L	M	
DX 80 G	104	400	183	125	112	280	1" ½ G	250	183	448	10,5
DX 80/2 G	114	400	183	125	112	280	2" G	250	183	448	10,5
DX 100 G	104	400	183	125	112	280	1" ½ G	250	183	448	12
DX 100/2 G	114	400	183	125	112	280	2" G	250	183	448	12



Construction features

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 5 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

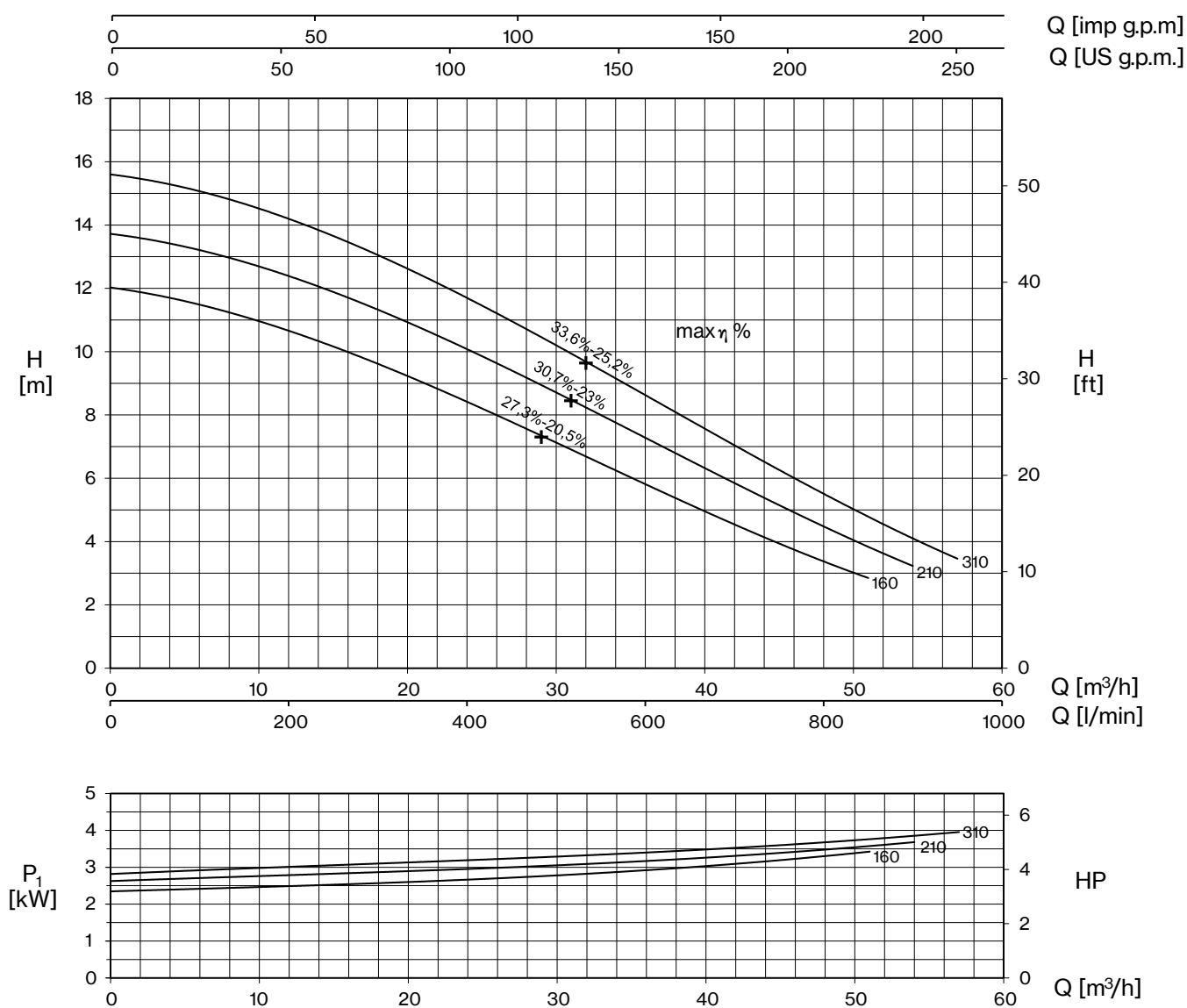
3~ 220/380V - 60Hz
1~ 220V - 60Hz
required run capacitor
(35µF for 1,5HP
model, 50µF for 2HP
model)

Insulation class F

Protection degree IPX8

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





TYPE		AMPERE			
1~	3~	220 V 60 Hz	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DV 160	DVT 160	15,7	9,1	5,3	-
DV 210	DVT 210	17,2	11,0	6,4	-
-	DVT 310	-	12,3	7,1	-

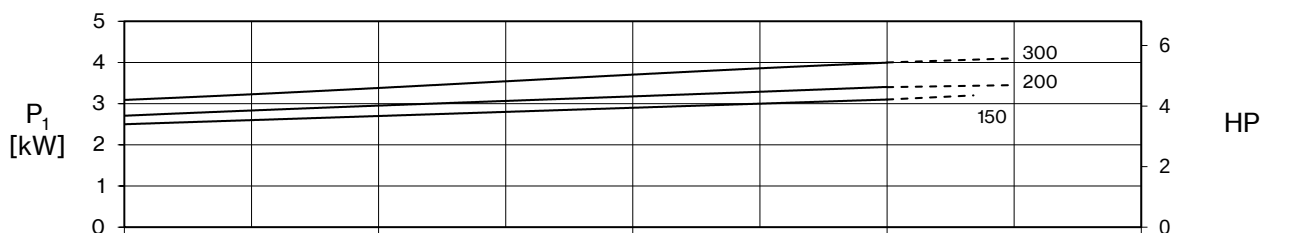
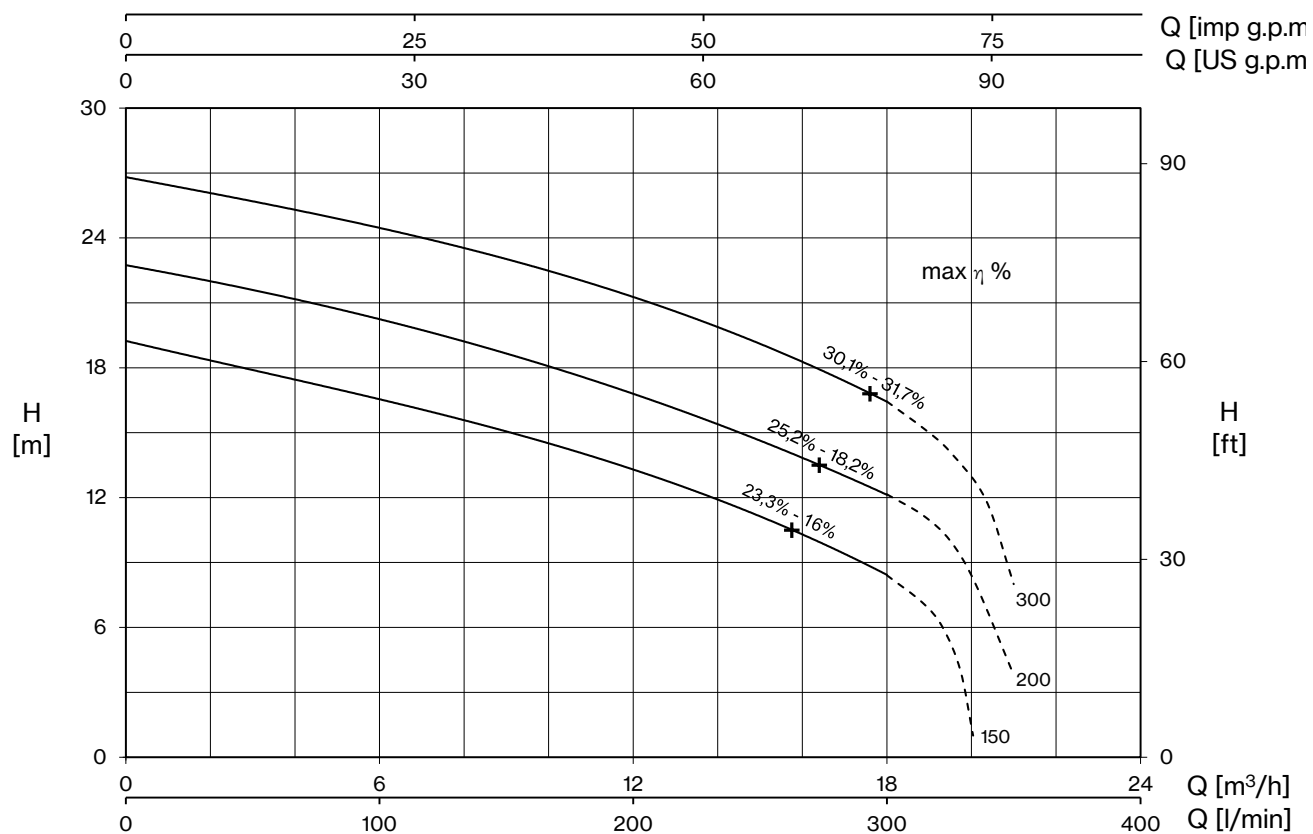
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE		P2		P1 (kW)		Q (m³/h - l/min)							
1~	3~					0	12	24	36	48	51	54	57
						0	200	400	600	800	850	900	950
		HP	kW	1~	3~	H (m)							
DV 160	DVT 160	1,5	1,1	3,4	3	12,0	10,7	8,3	5,9	3,4	2,8		
DV 210	DVT 210	2	1,5	3,7	3,6	13,7	12,5	9,9	7,3	4,5	3,8	3,2	
-	DVT 310	3	2,2	-	3,9	15,6	14,2	11,6	8,7	5,5	4,8	4,1	3,5





TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DVT 400	18,40	10,6	-
DVT 550	22,00	12,7	-
DVT 750	-	19,7	34,1
DVT 1000	-	21,4	37,0

(*) no standard execution

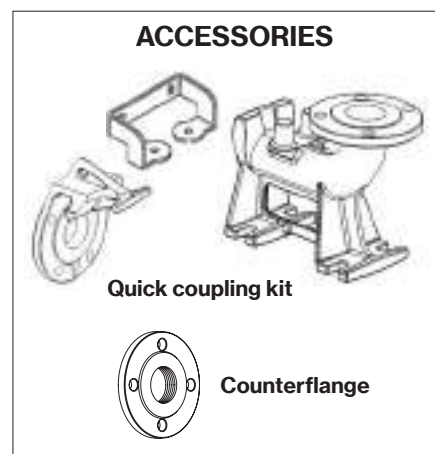
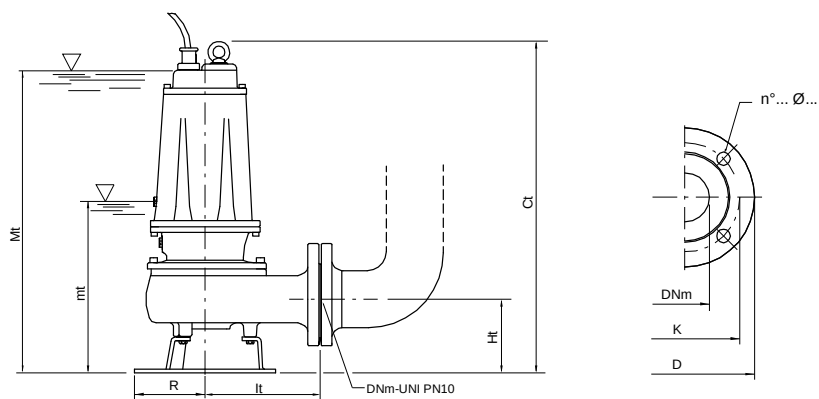
+ max η %

max hydraulic efficiency and respective total efficiency

TYPE	P2		P1 (kW)	Q (m³/h - l/min)									
				0	12	24	36	48	60	72	78	84	
	HP	kW	3~	0	200	400	600	800	1000	1200	1300	1400	
3~	H (m)												
DVT 400	4	3	6,2	23,1	21,2	18,3	14,7	10,9	7,3	4,1	2,5		
DVT 550	5,5	4	7,2	26,4	24,4	21,0	17,4	13,6	9,5	6,0	4,3	2,8	

TYPE	P2		P1 (kW)	Q (m³/h - l/min)									
				0	12	24	36	48	60	72	84	96	108
	HP	kW	3~	0	200	400	600	800	1000	1200	1400	1600	1800
3~	H (m)												
DVT 750	7,5	5,5	11,0	24,4	23,0	21,0	18,7	16,4	13,9	11,1	8,2	5,6	3,3
DVT 1000	10	7,5	12,3	27,1	25,5	23,8	21,6	19,1	16,4	13,7	10,6	7,6	4,9

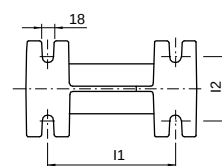
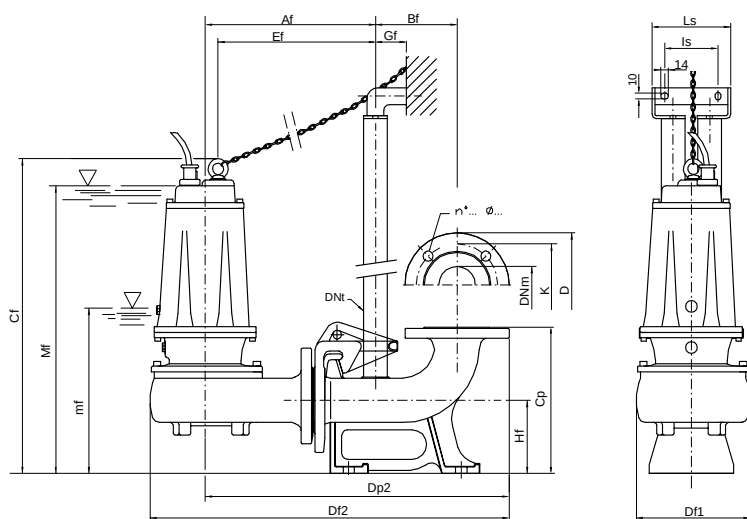




mt : minimum working level

Mt : minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	lt	mt	Mt	DNM	
DVT 160	551	123	117	191	243	513	65	39
DV 160-DVT 210	551	123	117	191	243	513	65	40
DV 210-DVT 310	551	123	117	191	243	513	65	42,5
DVT 400	645	148	160	210	285	600	80	68
DVT 550	645	148	160	210	285	600	80	72
DVT 750	725	178	180	232	358	670	80	89
DVT 1000	725	178	180	232	358	670	80	92,5



mf : minimum working level

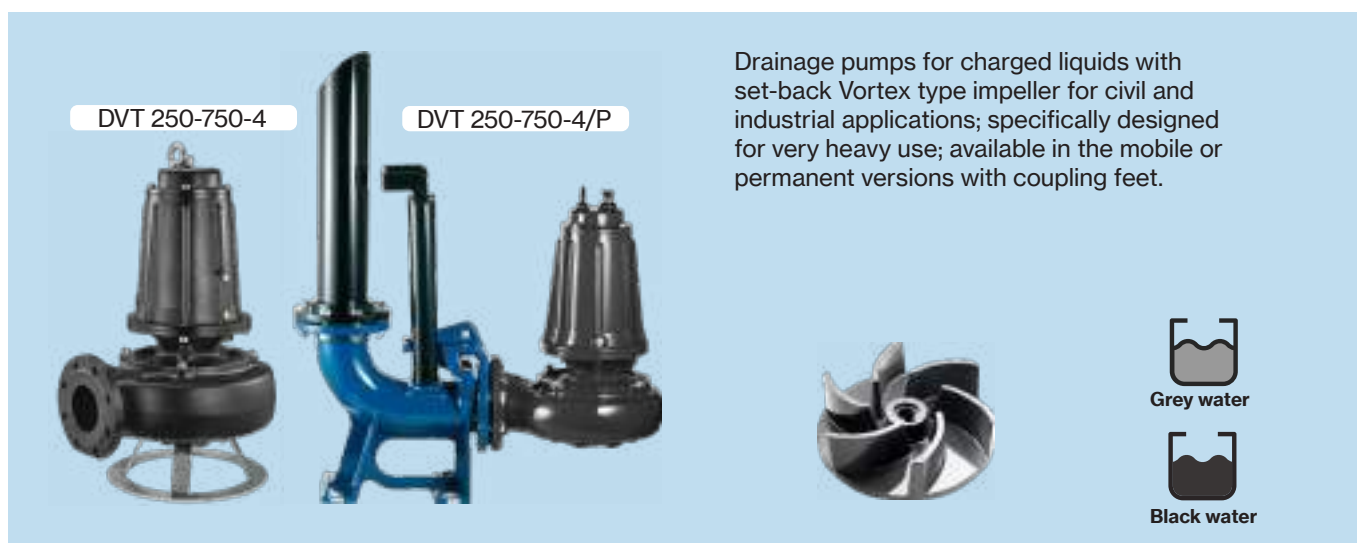
Mf : minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)																	
	Af	Bf	Cf	Cp	$Df1$	$Df2$	$Dp2$	DNt	Ef	Gf	Hf	$l1$	$l2$	ls	Ls	mf	Mf	DNM
DVT 160 /P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DV 160-DVT 210/P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DV 210-DVT 310/P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DVT 400/P	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
DVT 550/P	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
DVT 750/P	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80
DVT 1000/P	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80

Flange UNI PN 10 (mm)

DNM	K	D	$n^\circ \dots \varnothing \dots$
65	145	185	4... 18...
80	160	200	8... 18...





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.

Construction features

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

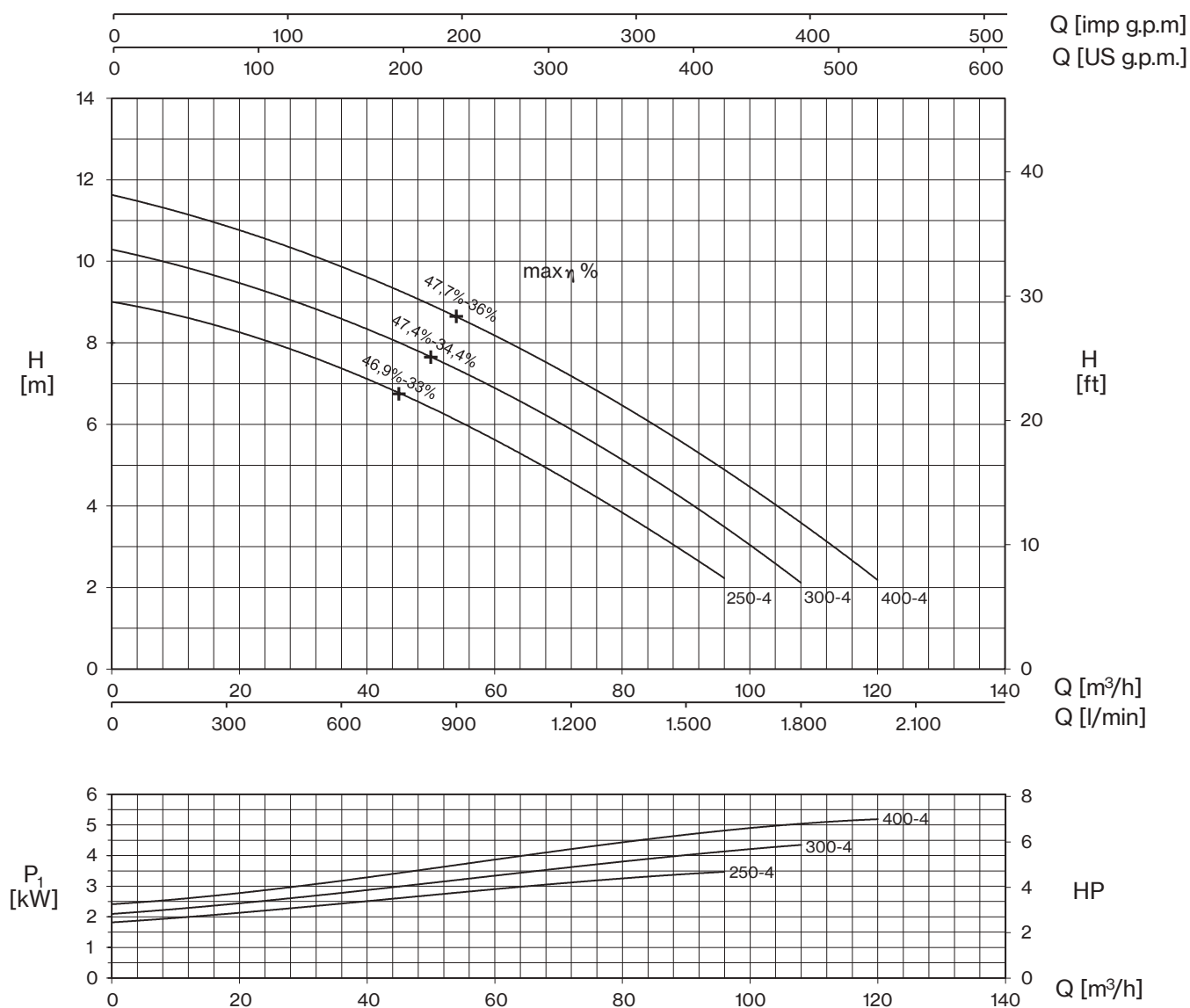
4 Poles induction motor 3~ 220/380V - 60Hz

Insulation class F

Protection degree IPX8

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





TYPE	AMPERE		
3~	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DVT 250-4	12,70	7,3	-
DVT 300-4	14,70	8,5	-
DVT 400-4	17,70	10,2	-

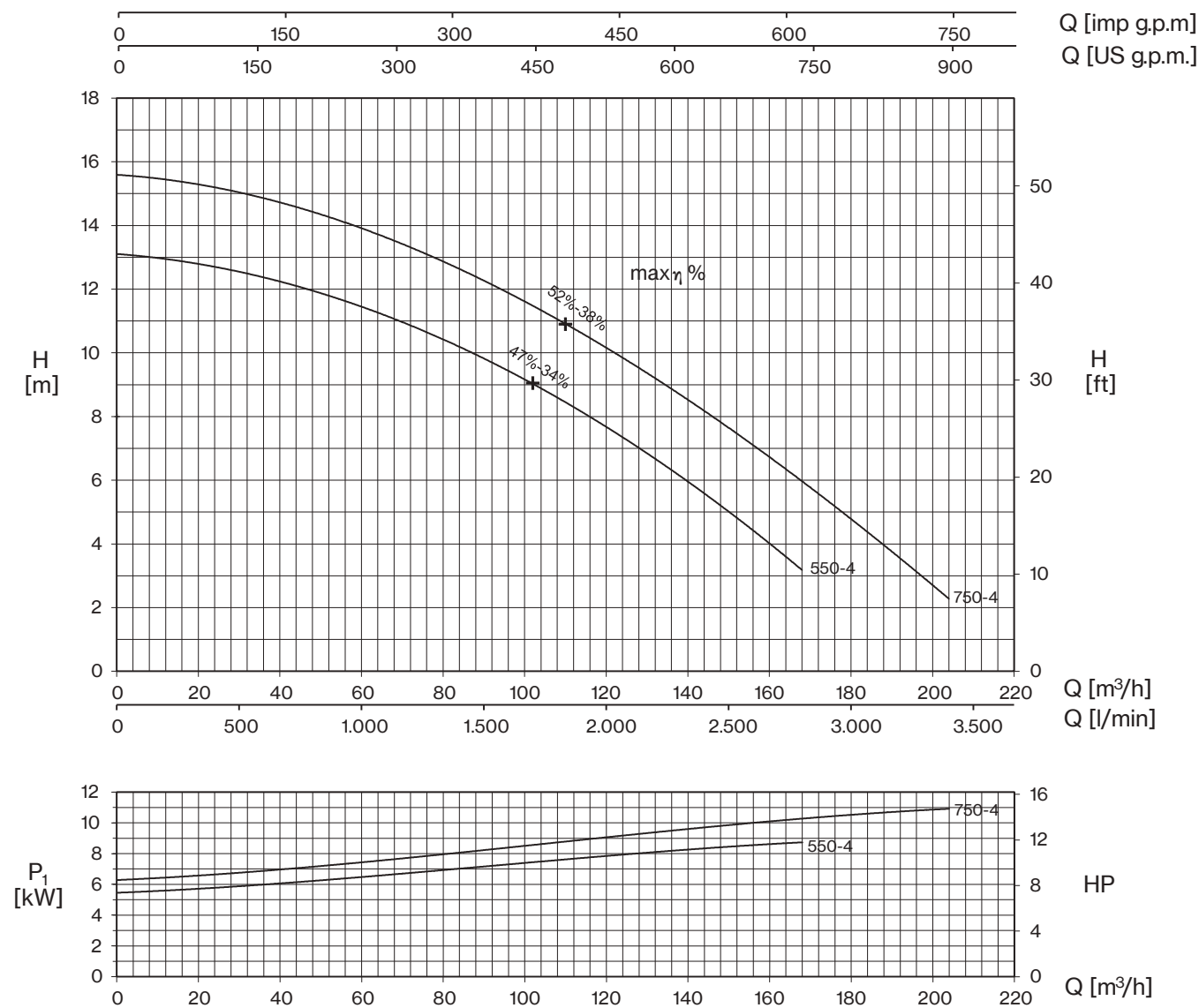
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

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

DV4



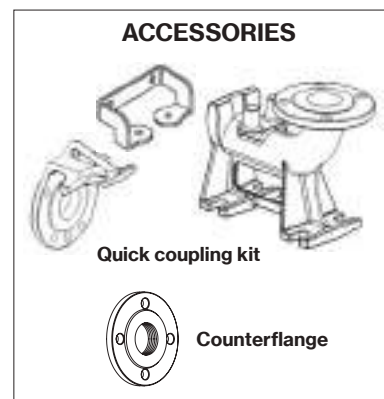
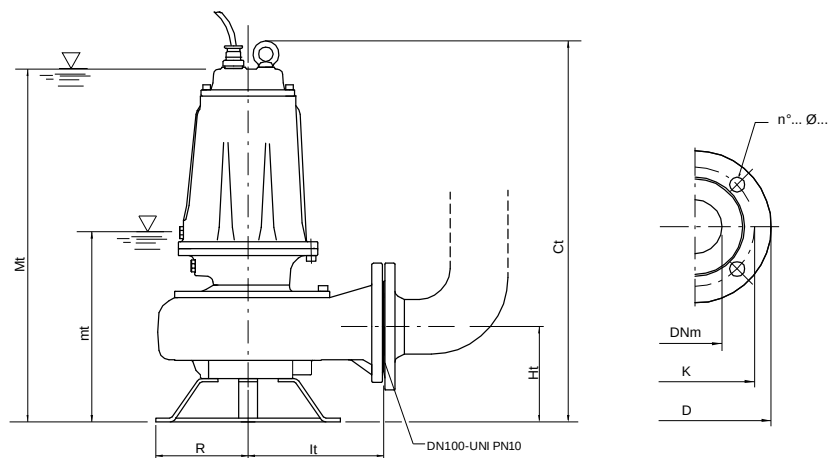
TYPE	AMPERE		
	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DVT 550-4	-	15,8	27,3
DVT 750-4	-	18,6	32,2

(*) no standard execution

+ max η %
max hydraulic efficiency and respective
total efficiency

TYPE	P2		P1 (kW)	Q (m³/h - l/min)								
				0	24	48	72	96	120	144	168	204
	HP	kW	3~	0	400	800	1200	1600	2000	2400	2800	3400
				H (m)								
DVT 550-4	5,5	4	9,0	13,1	12,7	12	10,8	9,4	7,8	5,5	3,2	
DVT 750-4	7,5	5,5	10,7	15,6	15,2	14,4	13,3	11,9	10,2	8,2	5,9	2,3

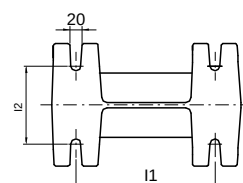
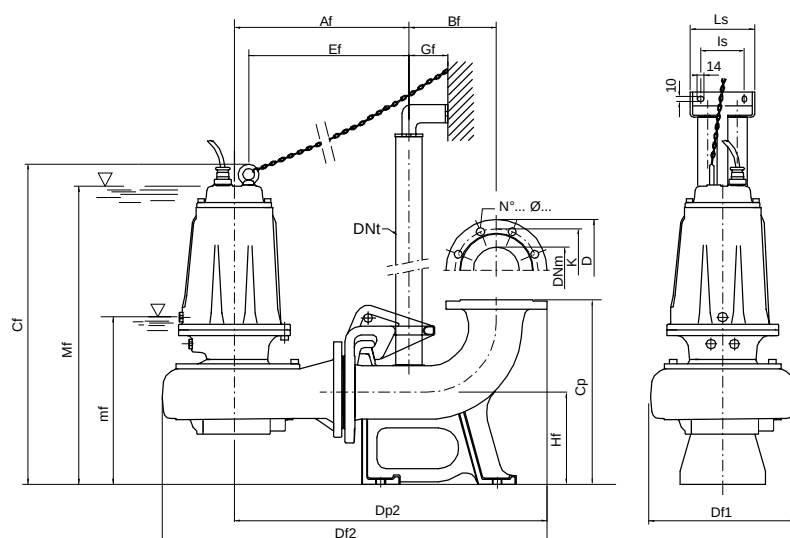




mt: minimum working level

Mt: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)							
	Ct	Ht	R	lt	mt	Mt	DNM	
DVT 250-4	660	165	160	235	300	614	100	70,5
DVT 300-4	660	165	160	235	300	614	100	71,5
DVT 400-4	660	165	160	235	300	614	100	75
DVT 550-4	715	195	180	276	385	695	100	102,5
DVT 750-4	715	195	180	276	385	695	100	109



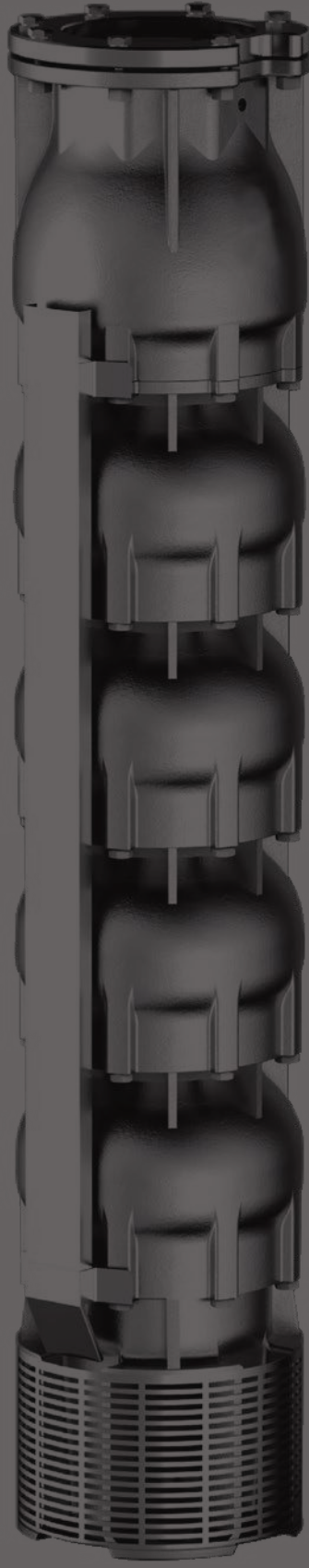
mf: minimum working level

Mf: I minimum submengence level for
continuos duty

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





DEEPWELL BOREHOLE

DEEPWELL BOREHOLE PUMPS



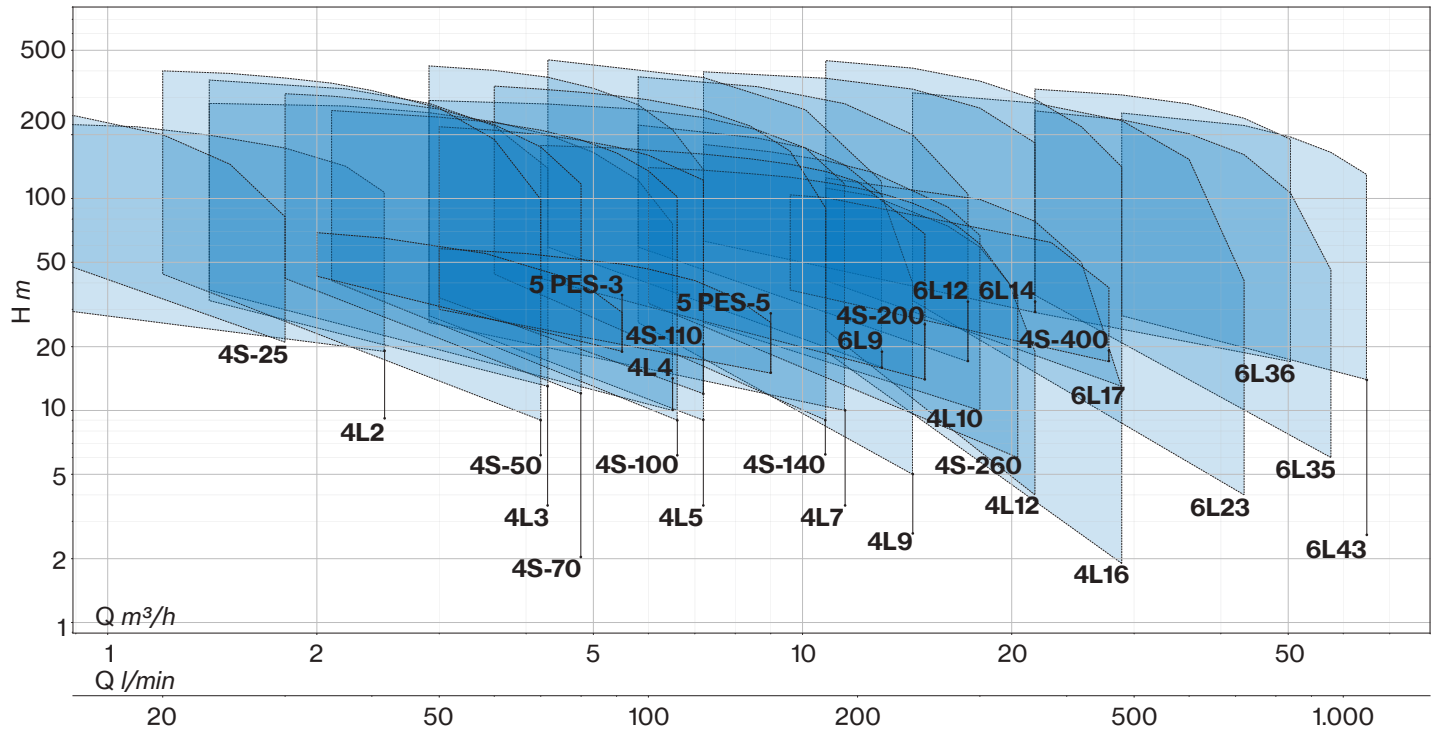
- **5PES, 4S/A, 4L, 6L lines:** 4", 5" and 6" electric well pumps with polymer hydraulics and pressed steel body. Coupling to the motor according to Nema flange.
- **6- 8- 10LMG lines:** 6", 8" and 10" electric well pumps with cast iron hydraulics. Non-return valve in the delivery port and motor coupling according to Nema flange.
- **LM, LR and E14 lines:** 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:

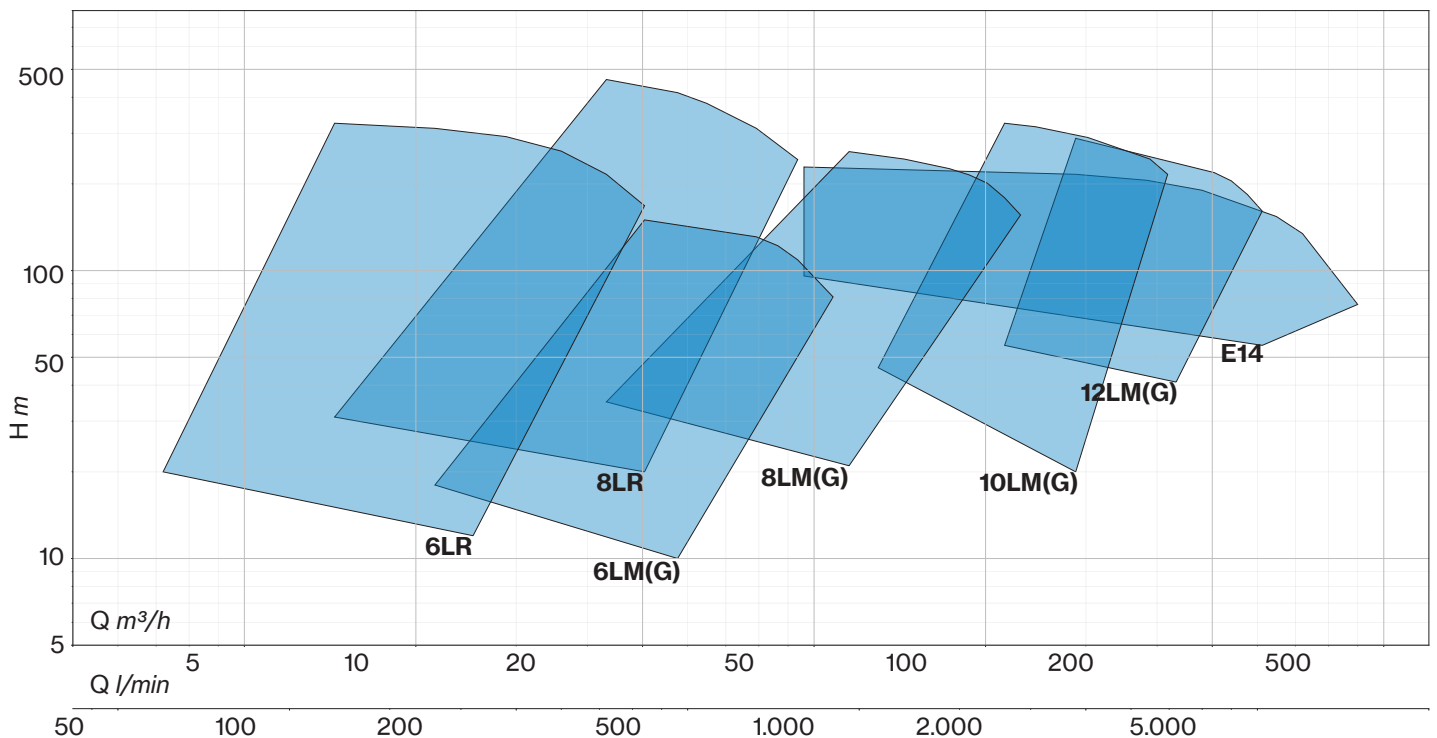
- Water supply for civil and industrial uses
- Distribution in aqueducts
- Agricultural irrigation
- Installation on wells and groundwater withdrawal
- Reverse osmosis plants

DEEPWELL BOREHOLE PUMPS

Low-Medium flow



High flow





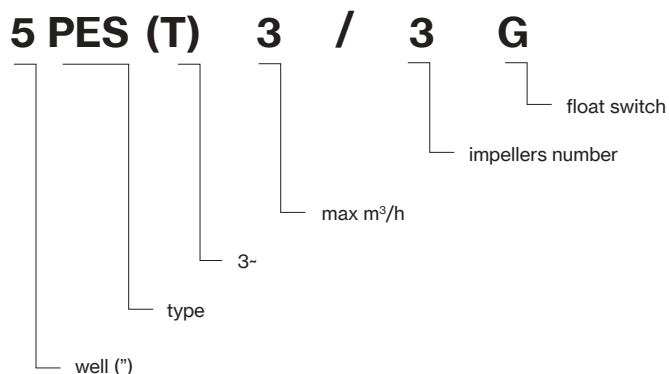
5" submersible multistage centrifugal pumps. All components in contact with fluid are made of AISI 304 stainless steel. Particularly suitable for water distribution rainwater collection, irrigation, dewatering fountains, wash down unit. Single phase versions have an internal capacitor and thermal motorprotector.

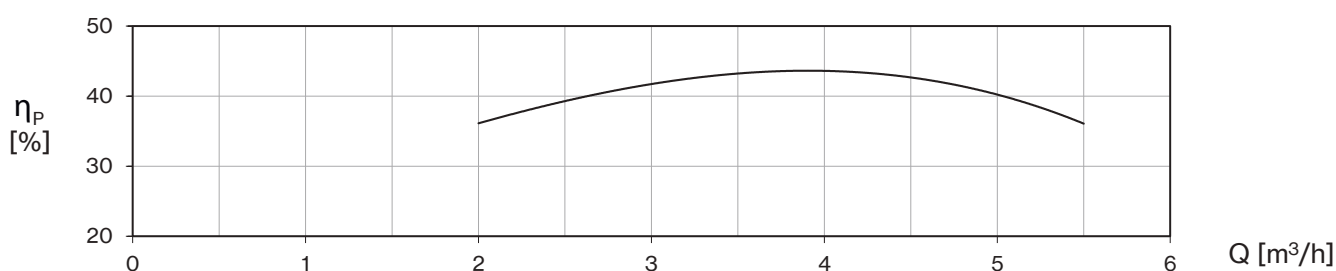
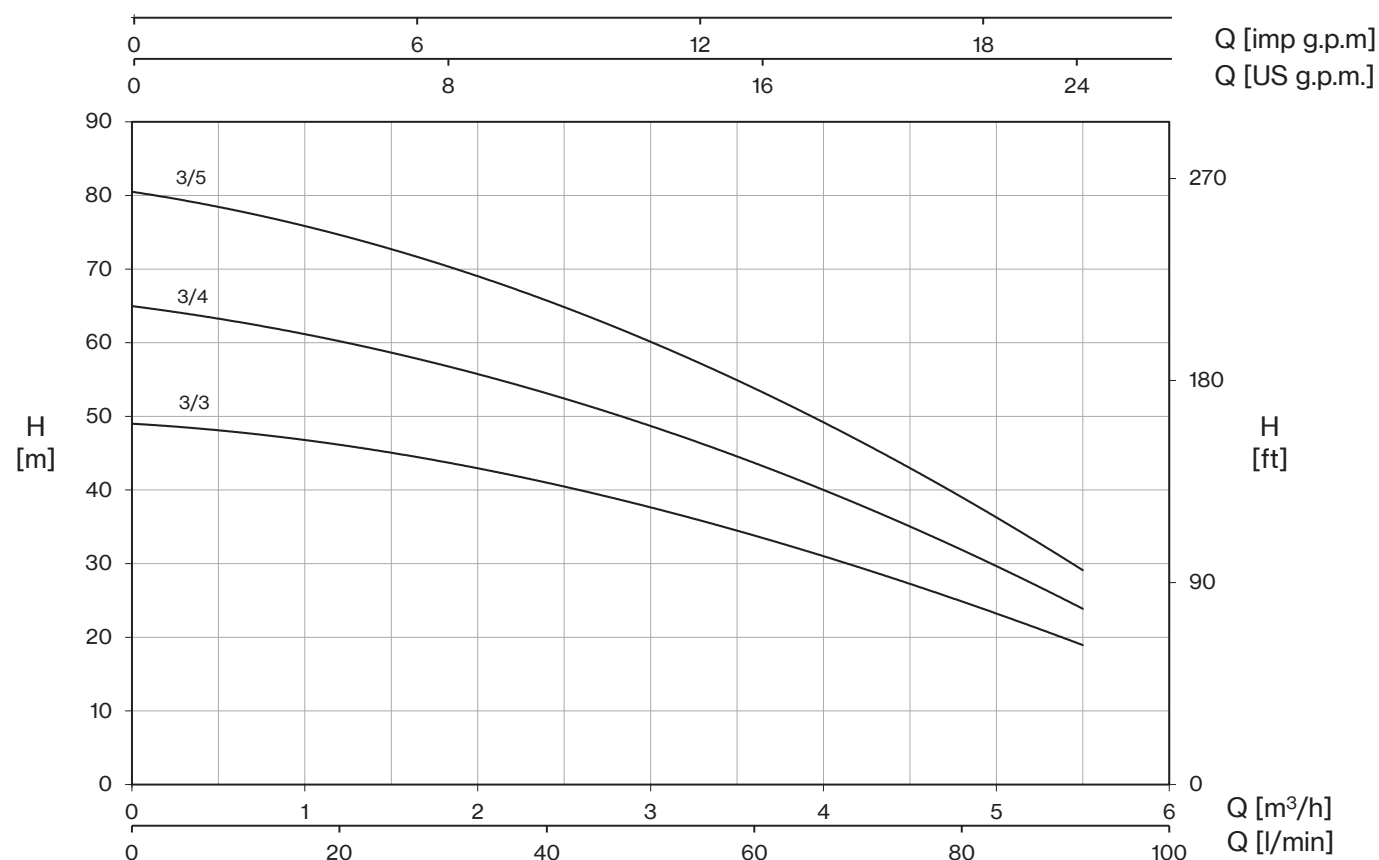
Construction features

Delivery outlet	1" ¼ G
External jacket, impellers and diffusers	stainless steel AISI 304
Passage of solids	2 mm
Depth of immersion	max 20 m
Liquid temperature	-5 °C +40 °C
Quantity of sand in the water	max 50 g/m ³
Cable	H07 RNF, 20 m
Number of startups/hr	max 20

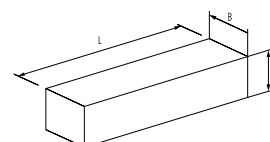
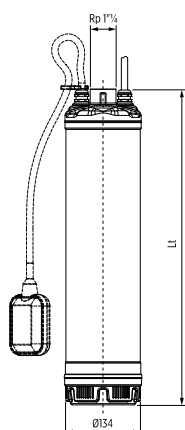
Motor

	3~ 380/415V-60 Hz
Asynchronous 2 poles	1~ 220/240V-60 Hz (with thermal protection)
Insulation class	F
Protection degree	IP68



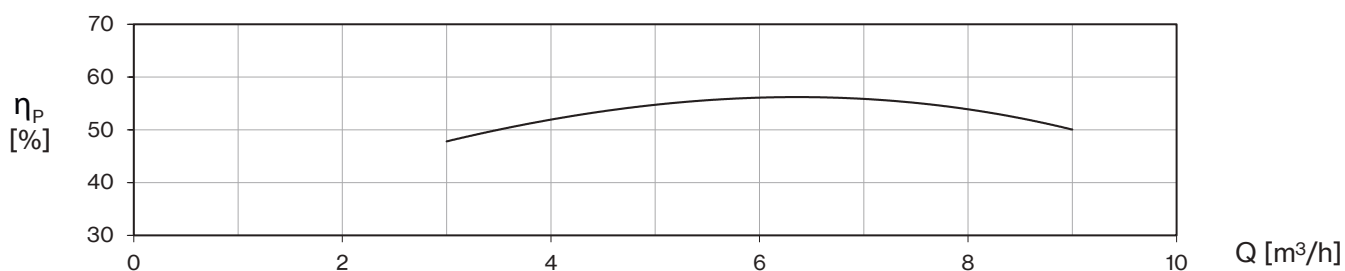
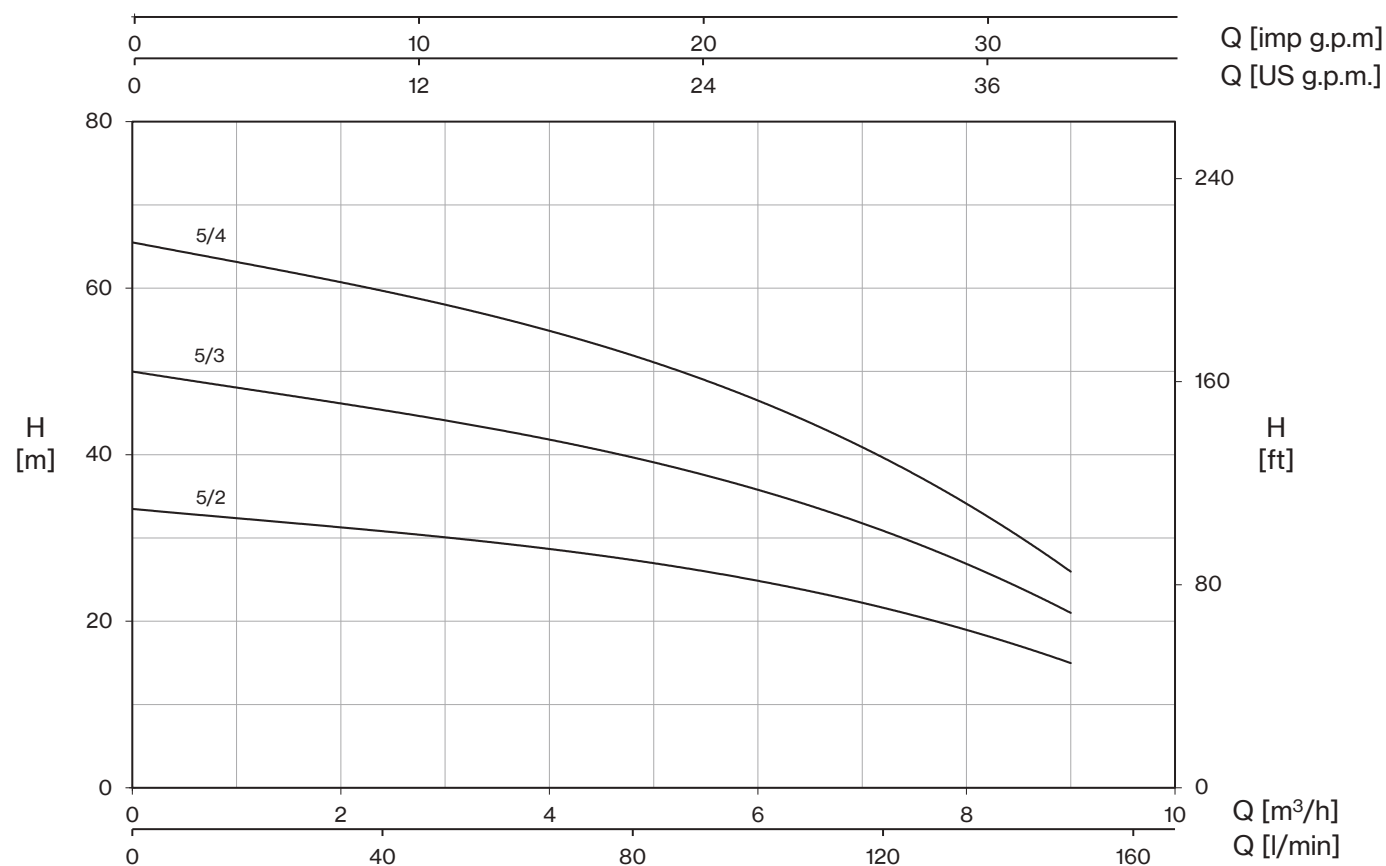


TYPE	MOTOR		INTERNAL CAPACITOR		RATED CURRENT			Q (m³/h - l/min)								
					1~	3~	3~	0	2	2,5	3	3,5	4	4,5	5	5,5
	HP	kW			220/230 V 60 Hz	220/230 V 60 Hz	380/400 V 60 Hz	0	33,3	42	50	58,3	67	75	83,3	92
								H (m)								
5 PES 3/3	1	0,75	20	450	5,2	4,2	2,4	49	43	40,5	37,5	34,5	31	27,5	23	19
5 PES 3/4	1,2	0,9	20	450	6,2	4,5	2,6	65	55,5	52,5	49	44,5	40	35	29,5	24
5 PES 3/5	1,5	1,1	25	450	8	5,2	3	80,5	69	65	60	55	49	43	36,5	29

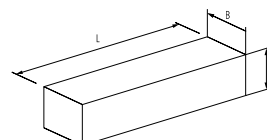
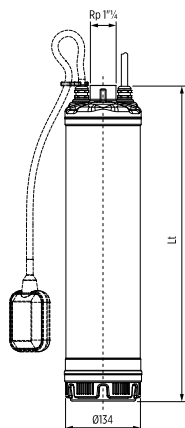


TYPE	DIMENSIONS (mm)				Kg	
	Lt	L	B	H	1~	3~
5PES 3/3	490	720	230	175	13,3	14,2
5PES 3/4	520	720	230	175	14,7	14,7
5PES 3/5	544	720	230	175	15,4	15,2

5PES



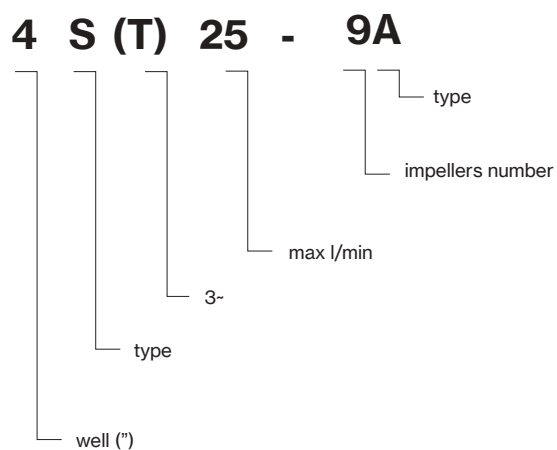
TYPE	MOTOR		INTERNAL CAPACITOR		RATED CURRENT			Q (m³/h - l/min)										
					1~	3~	3~	0	3	3,5	4	4,5	5	5,5	6	7	8	9
	HP	kW			220/230 V 60 Hz	220/230 V 60 Hz	380/400 V 60 Hz	H (m)										
5 PES 5/2	1	0,75	20	450	5	4	2,3	33,5	30	29,5	28,5	28	27	26	25	22	19	15
5 PES 5/3	1,2	0,9	20	450	6,4	4,7	2,7	50	44	43	42	40,5	39	37,5	36	31,5	27	21
5 PES 5/4	1,5	1,1	25	450	8	5,5	3,2	65,5	58	56,5	55	53	51	49	46,5	41	34	26



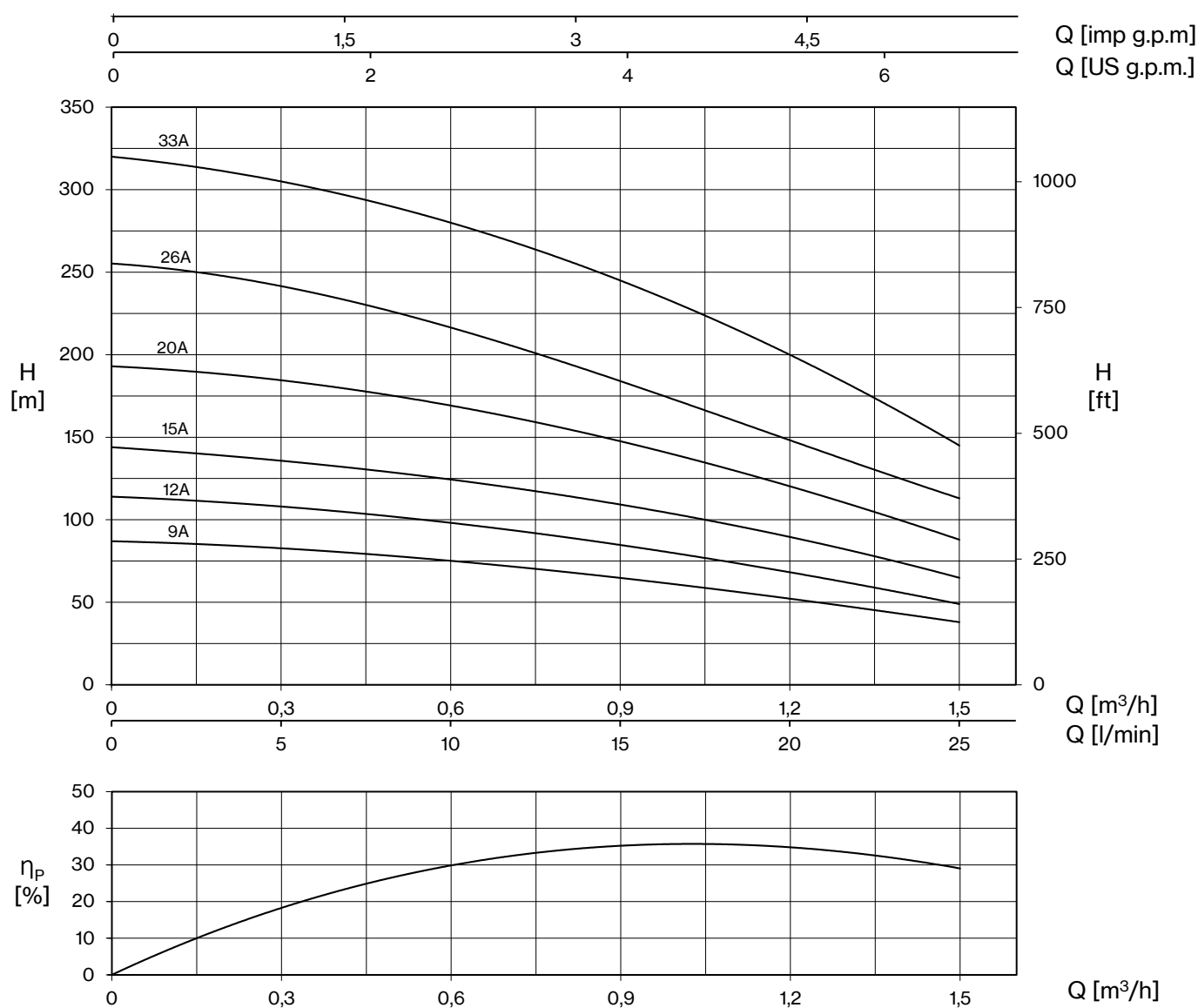
TYPE	DIMENSIONS (mm)				Kg	
	Lt	L	B	H	1~	3~
5 PES 5/2	470	720	230	175	14	14
5 PES 5/3	494	720	230	175	14,2	14,2
5 PES 5/4	518	720	230	175	15,9	14,7

Submersible multistage centrifugal pumps for 4" wells with sand-resistant floating impellers. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.

Construction features	
Delivery outlet and bracket	stainless steel AISI 304
External jacket	stainless steel
Impellers and diffusers	glass filled polycarbonate
Upper bushings	NBR rubber
Shaft	stainless steel
Quantity of sand in the water	max 300 g/m ³
Max liquid temperature	35° C

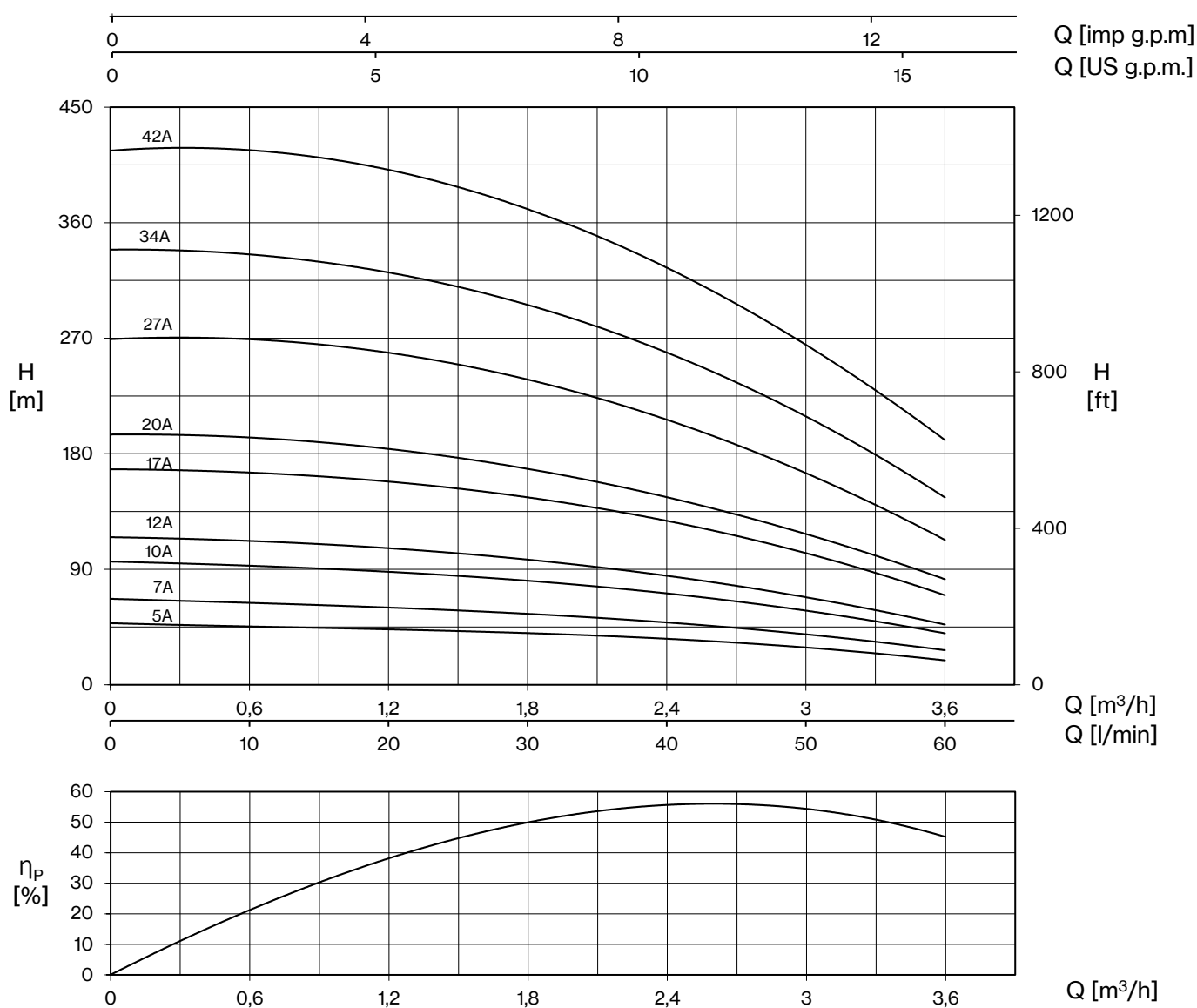


4S/A 25



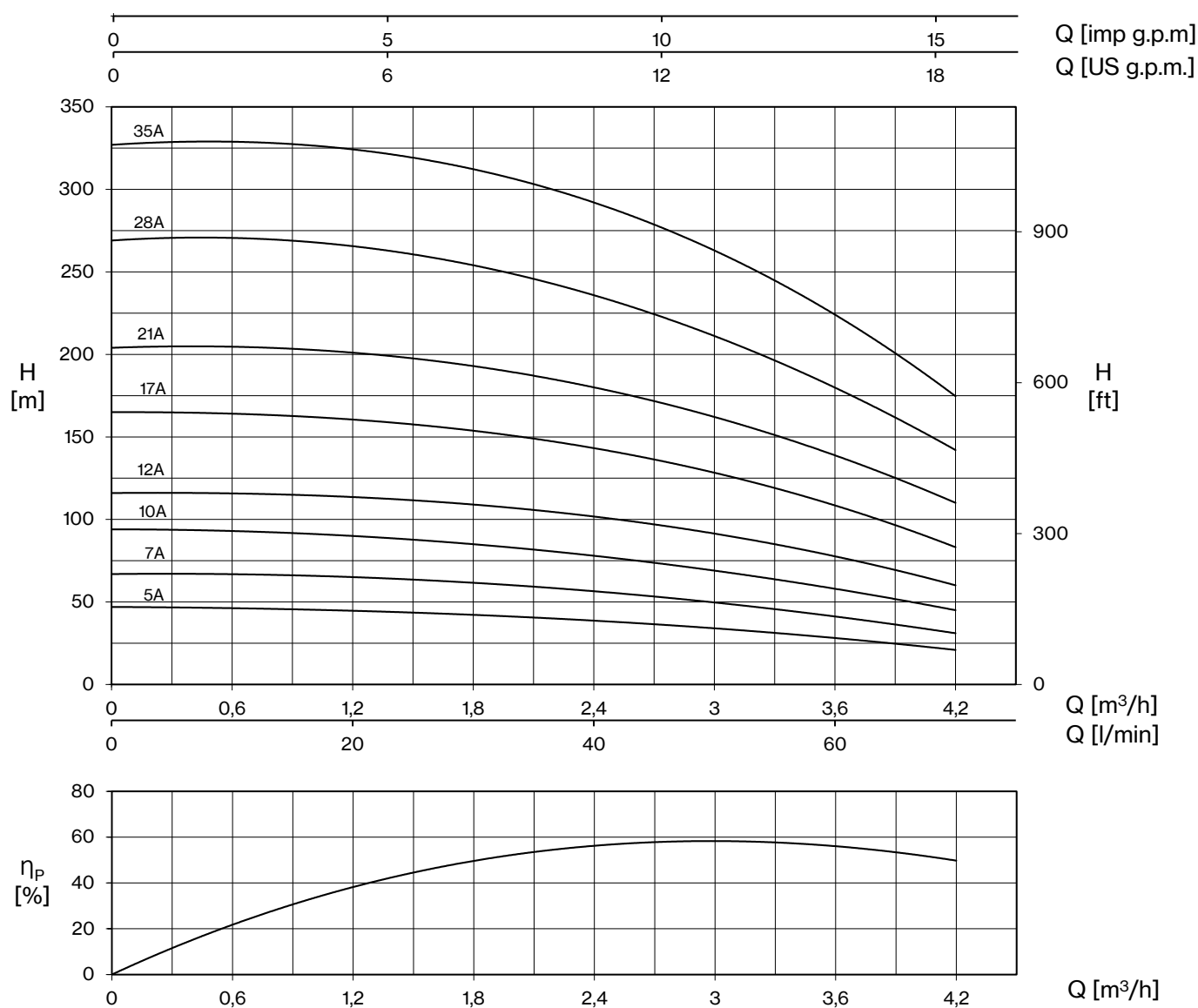
TYPE	MOTOR		Q (m³/h - l/min)					DNM	Lenght	Weight
			0	0,6	0,9	1,2	1,5			
			0	10	15	20	25			
			H (m)							
	HP	kW						mm	Kg	
4S 25/9A	0,5	0,37	87	75	65	52	38	1" ¼	332	3,4
4S 25/12A	0,5	0,37	114	98	85	68	49		384	3,9
4S 25/15A	0,75	0,55	144	124	110	89	65		436	4,4
4S 25/20A	1	0,75	193	169	148	120	88		523	5,3
4S 25/26A	1,5	1,1	255	219	179	152	112		659	6,7
4S 25/33A	2	1.5	320	280	245	200	145		781	8





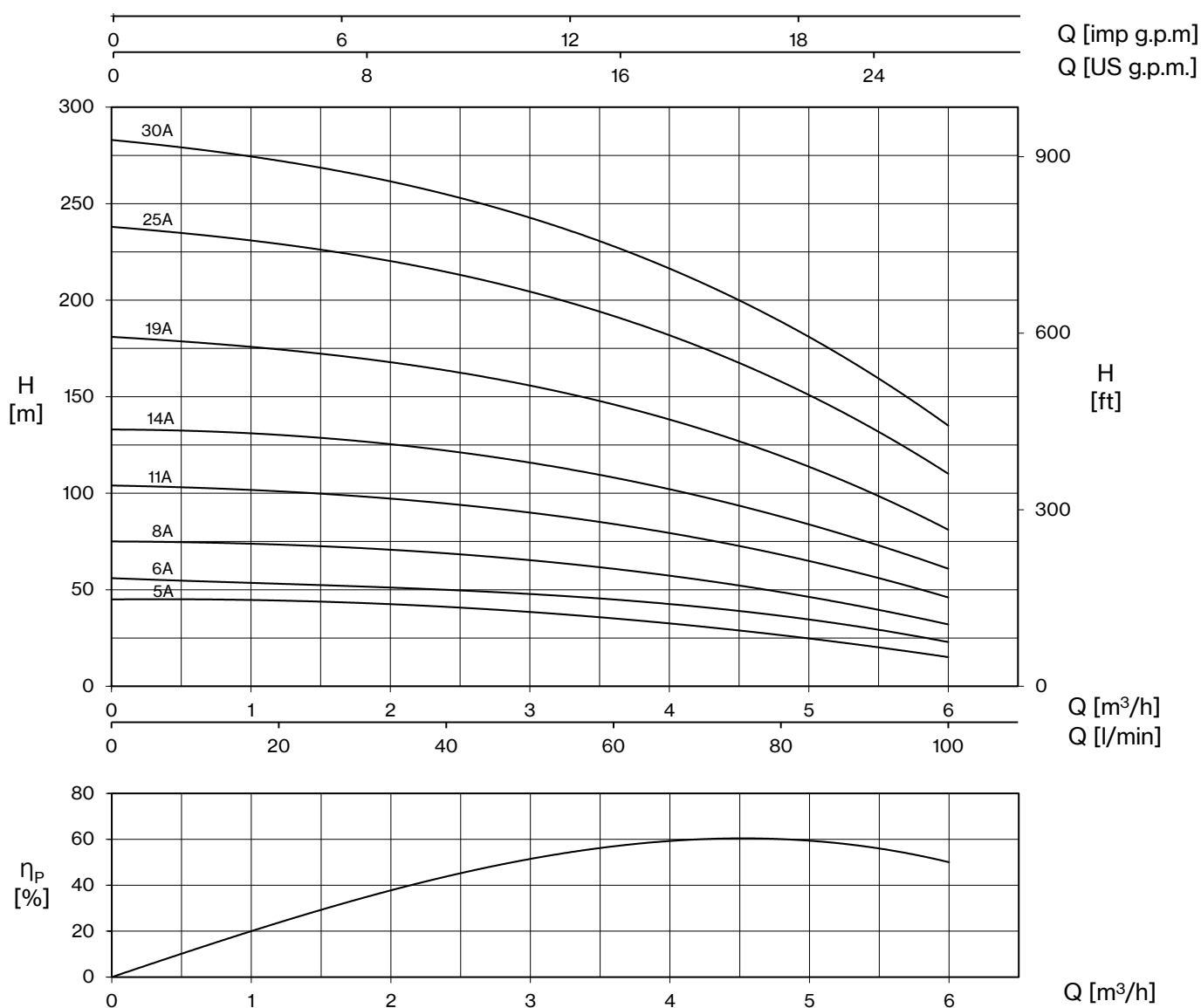
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	1,5	1,8	2,4	3	3,6			
			0	25	30	40	50	60			
	HP	kW	H (m)							mm	Kg
4S 50/5A	0,5	0,37	48	42	40	36	29	19	1" ¼	261	2,6
4S 50/7A	0,5	0,37	67	58	55	49	39	27		296	2,9
4S 50/10A	0,75	0,55	96	85	81	71	58	40		348	3,4
4S 50/12A	1	0,75	115	102	98	85	68	47		383	3,8
4S 50/17A	1,5	1,1	168	152	147	128	102	70		471	4,7
4S 50/20A	2	1,5	195	177	168	146	118	82		523	5,1
4S 50/27A	3	2,2	270	247	237	209	167	111		645	6,4
4S 50/34A	4	3	339	310	296	259	209	146		767	7,7
4S 50/42A	5	3,7	416	389	370	323	267	190		907	9,3

4S/A 70



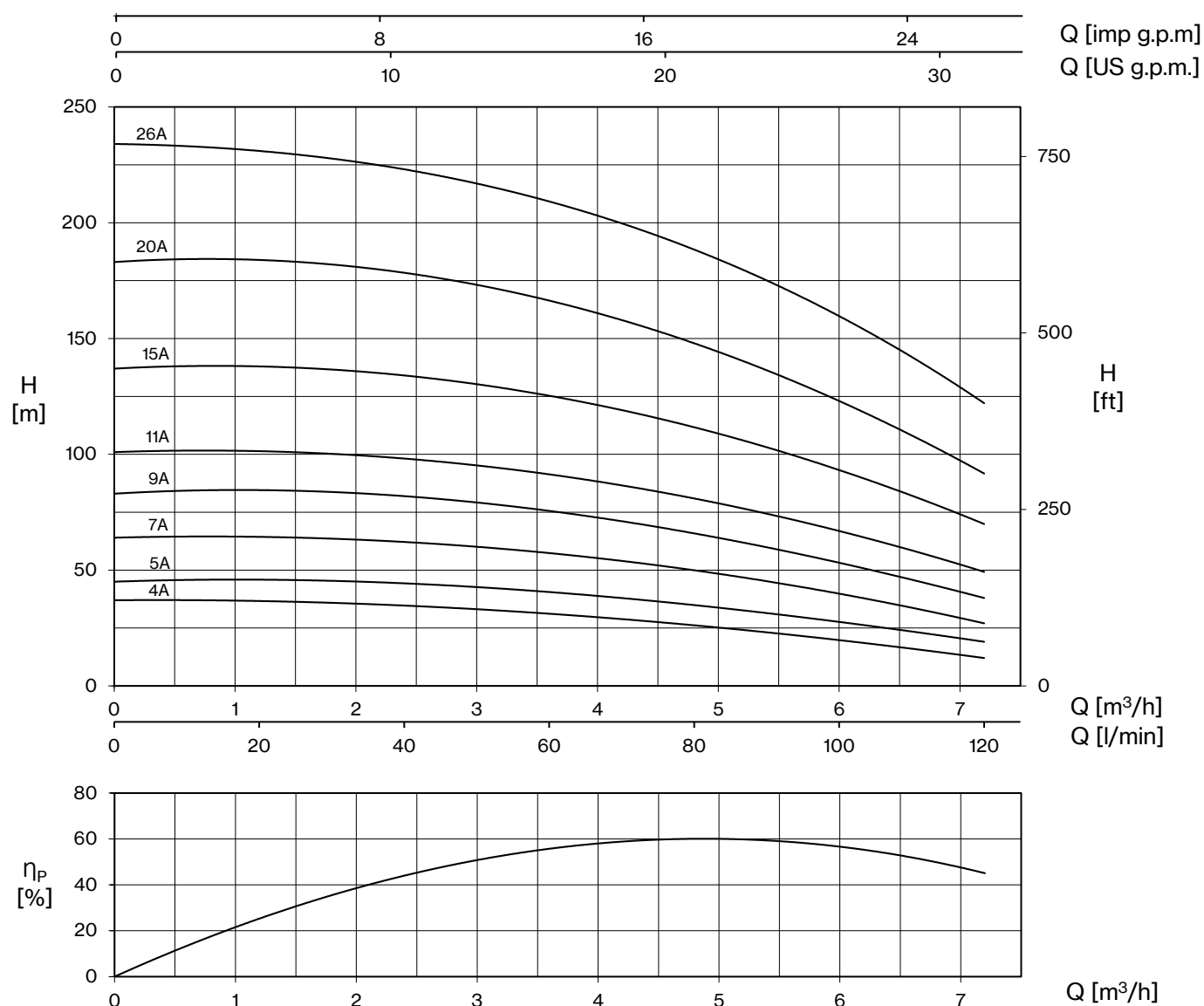
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	1,8	2,4	3	3,6	4,2			
			0	30	40	50	60	70			
	HP	kW	H (m)							mm	Kg
4S 70/5A	0,5	0,37	47	42	39	34	28	21	1" ¼	261	2,6
4S 70/7A	0,75	0,55	67	61	57	50	41	31		296	2,9
4S 70/10A	1	0,75	94	85	78	69	58	45		348	3,5
4S 70/12A	1,5	1,1	116	109	102	91	78	60		383	3,8
4S 70/17A	2	1,5	165	154	143	128	109	83		469	4,8
4S 70/21A	3	2,2	204	193	180	162	139	110		540	5,4
4S 70/28A	4	3	269	254	236	211	180	142		661	6,9
4S 70/35A	5	3,7	327	312	292	264	223	175		819	8,2





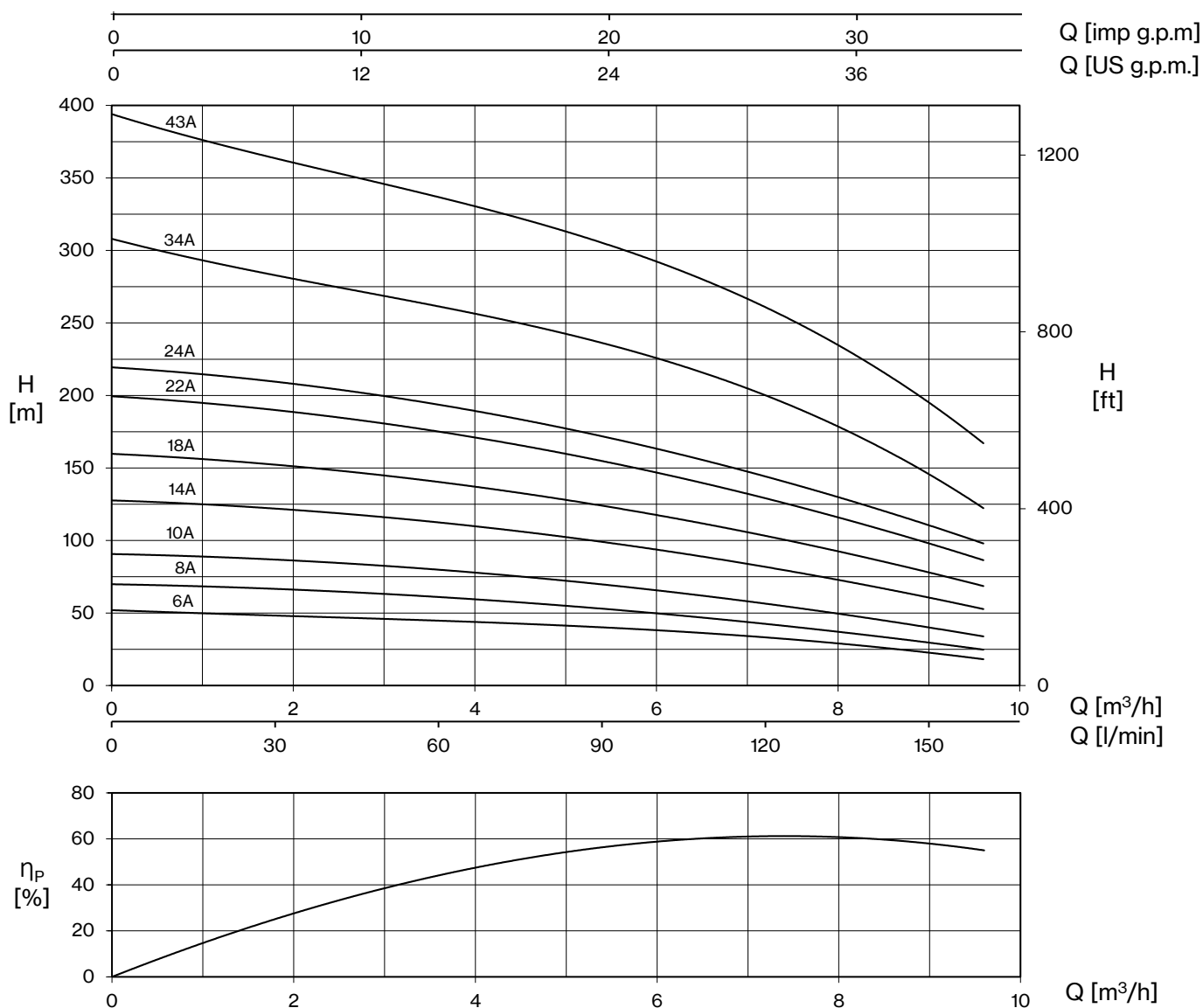
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	3,6	4,2	4,8	5,4	6			
			0	60	70	80	90	100			
	HP	kW	H (m)							mm	Kg
4S 100/5A	0,5	0,37	45	35	31	27	21	15	1" ¼	278	2,7
4S 100/6A	0,75	0,55	56	45	41	37	30	23		299	2,9
4S 100/8A	1	0,75	75	61	55	49	41	32		340	3,3
4S 100/11A	1,5	1,1	104	84	77	68	58	46		402	4
4S 100/14A	2	1,5	133	108	99	88	75	61		464	4,5
4S 100/19A	3	2,2	181	146	134	119	102	81		568	5,6
4S 100/25A	4	3	238	192	176	158	136	110		722	7,1
4S 100/30A	5	3,7	283	228	210	189	164	135		826	8,2

4S/A 110



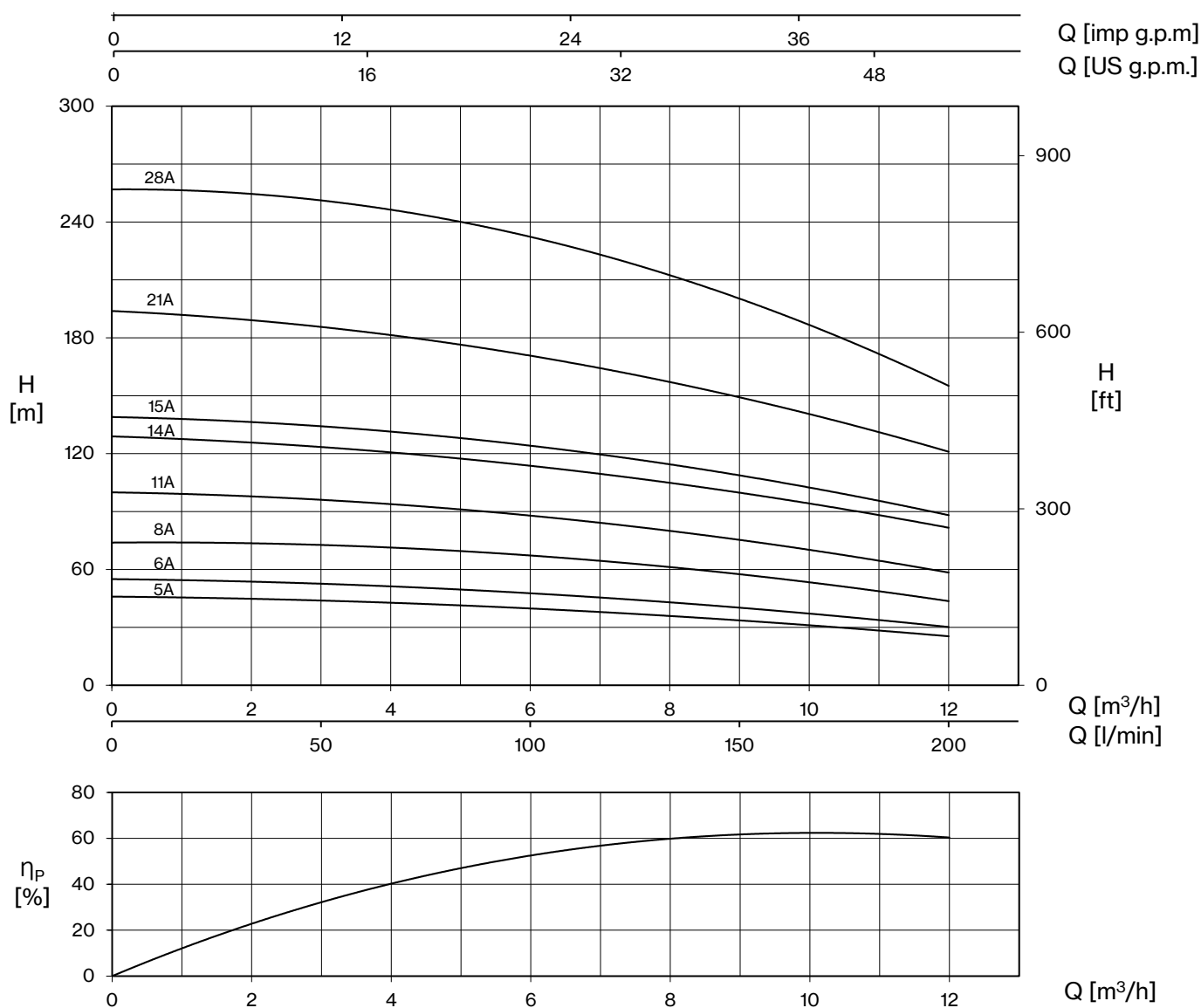
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	4,2	4,8	5,4	6	7,2			
			0	70	80	90	100	120			
	HP	kW	H (m)							mm	Kg
4S 110/4A	0,5	0,37	37	29	26	23	20	12	1" ¼	272	2,6
4S 110/5A	0,75	0,55	45	38	35	31	28	19		296	2,8
4S 110/7A	1	0,75	64	54	50	45	40	27		344	3,3
4S 110/9A	1,5	1,1	83	71	66	60	53	38		391	3,8
4S 110/11A	2	1,5	101	86	81	75	67	49		442	4,2
4S 110/15A	3	2,2	137	109	112	103	93	70		538	5,1
4S 110/20A	4	3	183	158	148	137	122	92		660	6,2
4S 110/26A	5	3,7	234	200	188	175	160	122		800	7,6





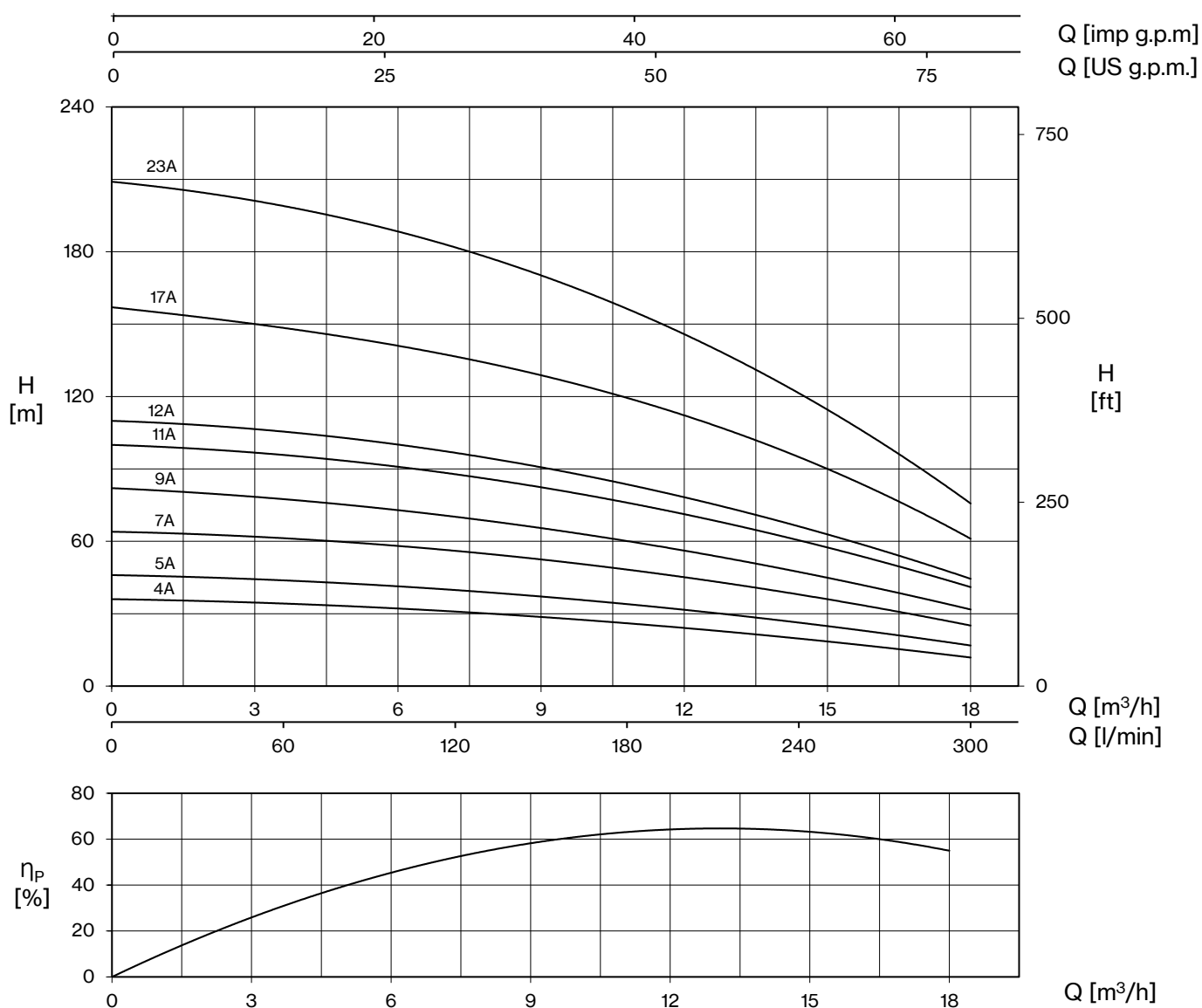
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	4,8	6	7,2	8,4	9,6			
			0	80	100	120	140	160			
	HP	kW	H (m)							mm	Kg
4S 140/6A	1	0,75	52	42	38	33	27	18	2"	355	3,3
4S 140/8A	1,5	1,1	70	55	50	43	35	24		415	3,9
4S 140/10A	2	1,5	91	72	65	58	48	32		478	4,5
4S 140/14A	3	2,2	128	102	94	83	70	51		601	5,6
4S 140/18A	4	3	160	129	117	104	89	67		725	6,7
4S 140/22A	5	3,7	200	159	147	132	111	84		848	8
4S 140/24A	5,5	4	220	177	162	148	125	95		911	8,5
4S 140/34A	7,5	5,5	308	246	225	200	167	122		1252	11,7
4S 140/34A	10	7,5	394	317	292	261	220	167		1560	14,5

4S/A 200



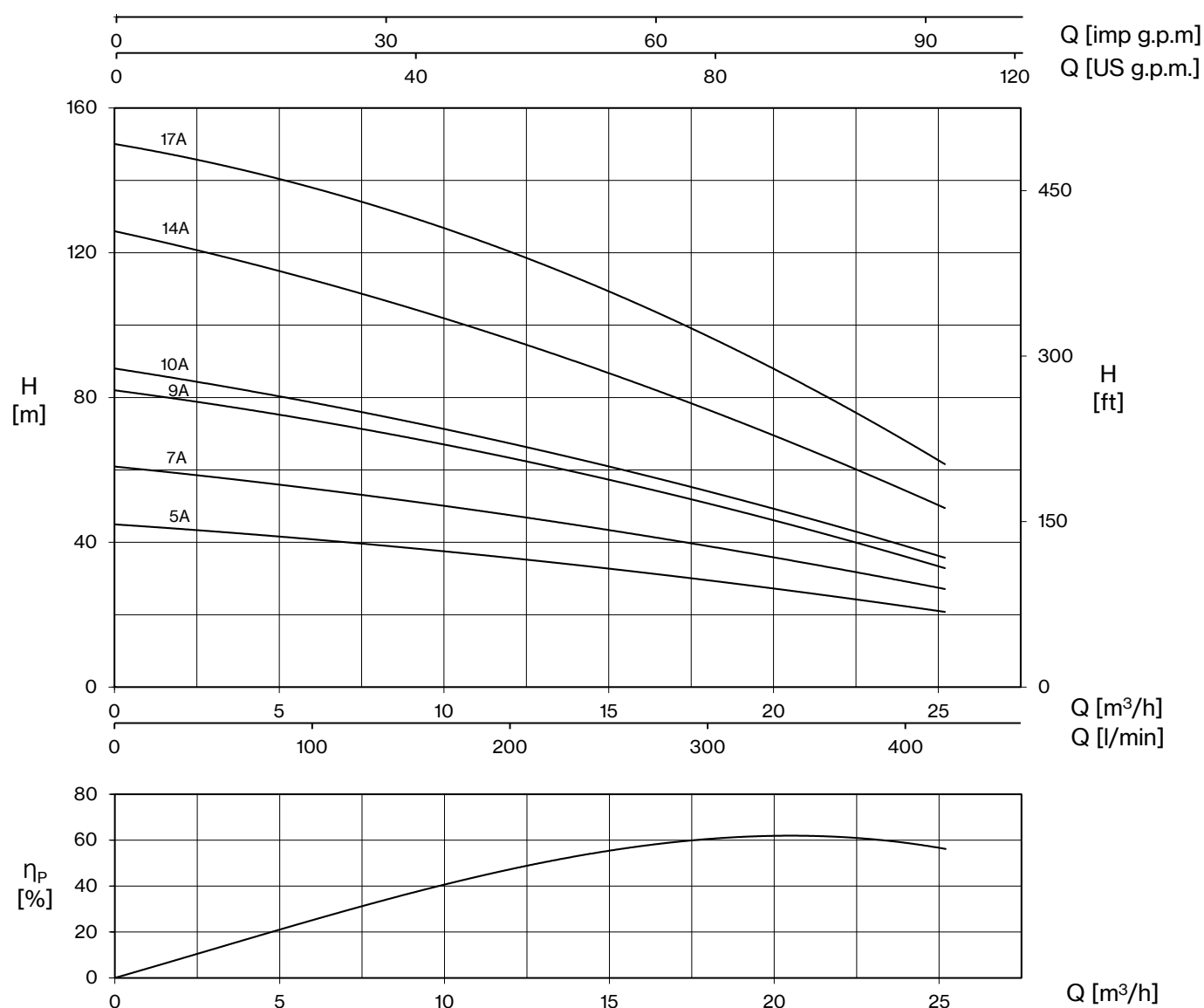
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	7,2	8,4	9,6	10,8	12			
	HP	kW	0	120	140	160	180	200		mm	Kg
4S 200/5A	1,5	1,1	46	37	35	33	29	25	2"	325	3,1
4S 200/6A	2	1,5	55	45	42	38	35	30		356	3,4
4S 200/8A	3	2,2	74	63	60	56	50	43		419	3,9
4S 200/11A	4	3	100	83	78	73	66	58		497	4,6
4S 200/14A	5	3,7	129	108	103	97	90	81		602	5,7
4S 200/15A	5,5	4	139	118	113	105	97	88		637	6
4S 200/21A	7,5	5,5	194	162	154	145	134	120		820	7,6
4S 200/28A	10	7,5	257	220	208	193	176	154		1066	10





TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	9,6	12	13,2	15,6	18			
			0	160	200	220	260	300			
	HP	kW	H (m)							mm	Kg
4S 260/4A	1,5	1,1	36	28	24	22	17	12	2"	377	3,5
4S 260/5A	2	1,5	46	36	32	29	23	17		429	4
4S 260/7A	3	2,2	64	51	45	42	34	25		533	5
4S 260/9A	4	3	82	64	56	52	42	32		637	6
4S 260/11A	5	3,7	100	80	71	67	54	41		740	6,8
4S 260/12A	5,5	4	110	88	78	73	60	44		792	7,2
4S 260/17A	7,5	5,5	157	126	112	104	85	61		1083	9,9
4S 260/23A	10	7,5	209	166	148	130	110	75		1395	12,7

4S/A 400



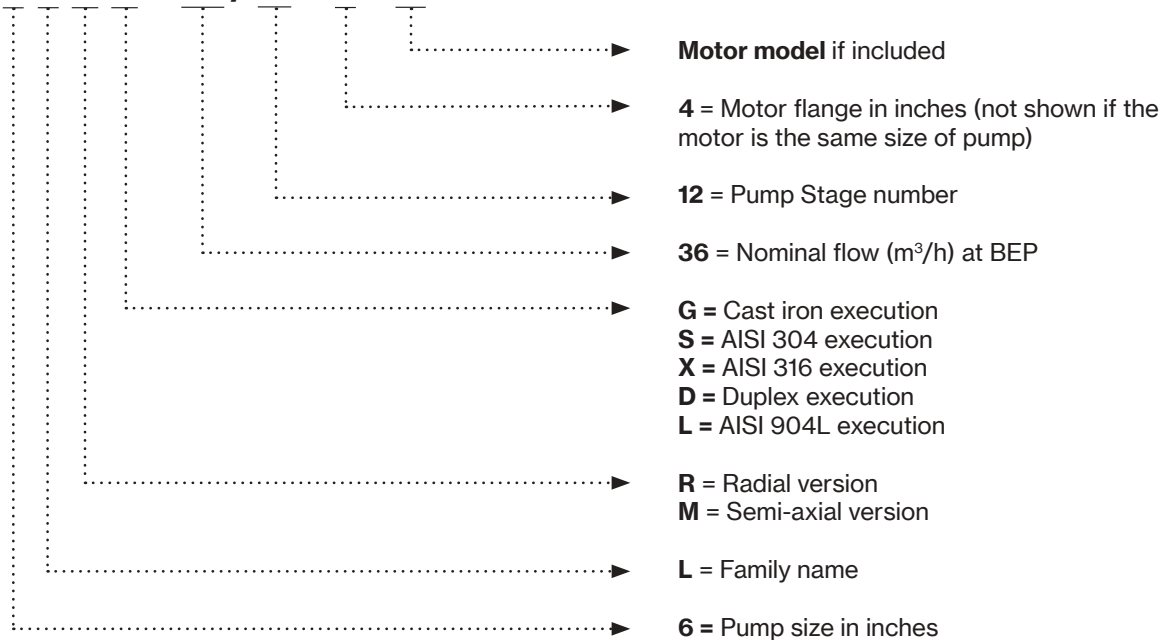
TYPE	MOTOR		Q (m³/h - l/min)						DNM	Lenght	Weight
			0	15,6	18	20,4	22,8	25,2			
			0	260	300	340	380	420			
	HP	kW	H (m)							mm	Kg
4S 400/5A	3	2,2	45	32	29	27	25	20	2"	508	4,7
4S 400/7A	4	3	61	42	39	35	33	26		643	5,7
4S 400/9A	5	3,7	82	56	51	45	39	33		778	6,8
4S 400/10A	5,5	4	88	60	54	48	42	36		847	7,5
4S 400/14A	7,5	5,5	126	85	76	67	62	48		1149	10
4S 400/17A	10	7,5	150	108	96	86	74	62		1354	11,7



Name key

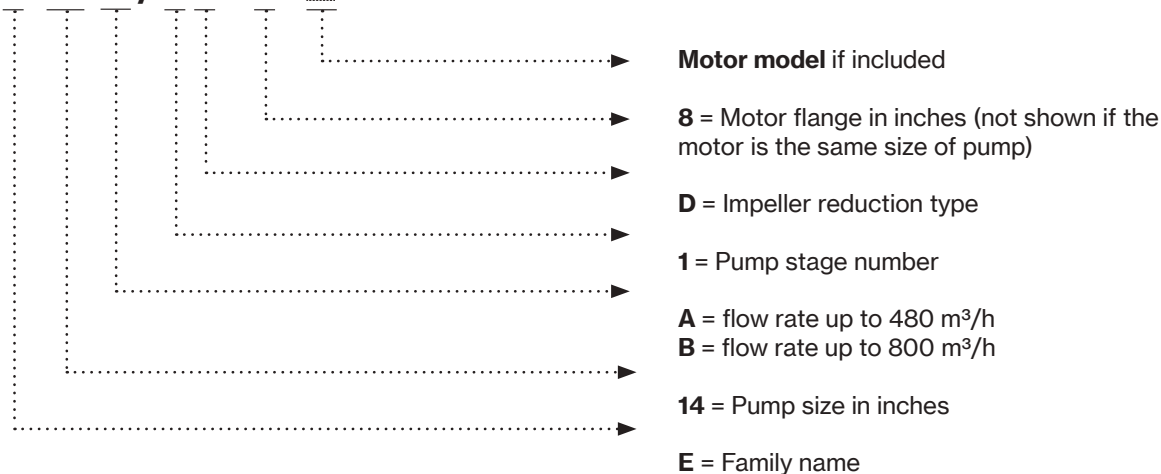
L line

6 L R G * 36 / 12 - 4 - 



E line

E 14 A / 1 D - 8 - 



* = Lowercase letter, is shown only if impeller material is different than pump (ex. d=Duplex)



Submersible multistage centrifugal pumps for 4" wells with sand-resistant floating impellers. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.

Construction features

Delivery outlet and bracket	stainless steel AISI 304
External jacket	stainless steel AISI 304
Impellers	polycarbonate Lexan
Diffusers	polycarbonate Noryl®
Upper bushings	NBR rubber
Shaft	stainless steel AISI 420
Quantity of sand in the water	max 300 g/m ³
Max liquid temperature	35° C



Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	6	12	18	24	30	36	42
						I/sec	0	0,1	0,2	0,3	0,4	0,5	0,6	0,7
	HP	kW	A	μF	A	m³/h	0	0,4	0,7	1,1	1,4	1,8	2,2	2,5
4L 2/05	0,5	0,37	3,5	16	1,0	H[m]	41	41	39	38	34	30	24	19
4L 2/07	0,75	0,55	4,9	20	1,5		58	57	55	53	48	42	34	26
4L 2/10	1	0,75	6,5	30	1,9		82	81	79	75	69	60	49	37
4L 2/14	1,5	1,1	9,4	40	2,6		115	113	111	105	96	84	69	52
4L 2/20	2	1,5	11,5	50	3,5		165	162	158	151	137	119	98	74
4L 2/29	3	2,2	14,7	75	5,0		239	235	229	218	199	173	142	107

Motor 60 Hz - 3500 rpm							Q					
TYPE	Power		1~ 230 V		460 V	I/min	0	24	36	48	60	72
						I/sec	0	0,4	0,6	0,8	1	1,2
	HP	kW	A	μF	A	m³/h	0	1,4	2,2	2,9	3,6	4,3
4L 3/04	0,5	0,37	3,5	16	1,0	H[m]	38	33	30	26	20	13
4L 3/06	0,75	0,55	4,9	20	1,5		57	49	45	38	30	19
4L 3/08	1	0,75	6,5	30	1,9		76	66	60	51	40	25
4L 3/12	1,5	1,1	9,4	40	2,6		114	99	90	77	60	38
4L 3/16	2	1,5	11,5	50	3,5		151	132	120	102	80	50
4L 3/24	3	2,2	14,7	75	5,0		227	197	179	153	120	76
4L 3/33	4	3	-	-	6,4		312	272	247	210	165	104
4L 3/44	5,5	4	-	-	8,7		416	362	329	281	220	139

Motor 60 Hz - 3500 rpm							Q								
TYPE	Power		1~ 230 V		460 V	I/min	0	24	36	48	60	72	84	96	108
						I/sec	0	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8
	HP	kW	A	μF	A	m³/h	0	1,4	2,2	2,9	3,6	4,3	5,0	5,8	6,5
4L 4/04	0,75	0,55	4,9	20	1,5	H[m]	38	37	36	34	31	27	22	16	10
4L 4/06	1	0,75	6,5	30	1,9		57	56	55	51	46	40	33	24	15
4L 4/08	1,5	1,1	9,4	40	2,6		76	75	73	68	61	53	44	32	20
4L 4/11	2	1,5	11,5	50	3,5		105	103	100	93	84	73	60	45	28
4L 4/17	3	2,2	14,7	75	5,0		162	159	155	144	130	113	93	69	43
4L 4/23	4	3	-	-	6,4		219	215	209	195	176	153	126	93	58
4L 4/30	5,5	4	-	-	8,7		286	281	273	254	230	200	165	122	76

4L

4L 5

Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	48	60	72	84	96	108	120
						I/sec	0	0,8	1	1,2	1,4	1,6	1,8	2
	HP	kW	A	µF	A	m³/h	0	2,9	3,6	4,3	5,0	5,8	6,5	7,2
4L 5/03	0,75	0,55	4,9	20	1,5	H[m]	30	28	26	24	22	18	14	9
4L 5/05	1	0,75	6,5	30	1,9		50	46	44	41	36	30	23	15
4L 5/07	1,5	1,1	9,4	40	2,6		69	64	61	57	50	42	32	21
4L 5/09	2	1,5	11,5	50	3,5		89	83	79	73	65	54	41	27
4L 5/13	3	2,2	14,7	75	5,0		129	119	113	105	94	78	60	39
4L 5/18	4	3	-	-	6,4		178	165	157	146	130	109	83	53
4L 5/24	5,5	4	-	-	8,7		238	220	210	194	173	145	110	71
4L 5/33	7,5	5,5	-	-	11,7		327	303	288	267	238	199	151	98
4L 5/46	10	7,5	-	-	15,7		455	422	402	373	331	277	211	137

4L 7

Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	48	72	96	120	144	168	192
						I/sec	0	0,8	1,2	1,6	2	2,4	2,8	3,2
	HP	kW	A	µF	A	m³/h	0	2,9	4,3	5,8	7,2	8,6	10,1	11,5
4L 7/03	1	0,75	6,5	30	1,9	H[m]	28	26	25	23	21	19	15	10
4L 7/05	1,5	1,1	9,4	40	2,6		46	43	41	39	35	31	25	17
4L 7/07	2	1,5	11,5	50	3,5		64	60	57	54	50	43	36	24
4L 7/10	3	2,2	14,7	75	5,0		92	85	82	78	71	62	51	34
4L 7/13	4	3	-	-	6,4		120	111	107	101	92	81	66	45
4L 7/18	5,5	4	-	-	8,7		165	154	148	140	128	112	92	62
4L 7/25	7,5	5,5	-	-	11,7		230	213	205	194	177	155	127	86
4L 7/34	10	7,5	-	-	15,7		313	290	279	264	241	211	173	117

4L 9

Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	96	120	144	168	192	216	240
						I/sec	0	1,6	2	2,4	2,8	3,2	3,6	4
	HP	kW	A	μF	A	m³/h	0	5,8	7,2	8,6	10,1	11,5	13	14,4
4L 9/03	1	0,75	6,5	30	1,9	H[m]	27	26	24	22	20	17	12	5
4L 9/04	1,5	1,1	9,4	40	2,6		36	34	32	30	27	22	16	6
4L 9/05	2	1,5	11,5	50	3,5		45	43	40	37	33	28	20	8
4L 9/08	3	2,2	14,7	75	5,0		72	68	64	59	53	44	32	12
4L 9/10	4	3	-	-	6,4		90	85	80	74	66	55	40	16
4L 9/14	5,5	4	-	-	8,7		126	119	112	104	93	78	56	22
4L 9/19	7,5	5,5	-	-	11,7		170	162	152	141	126	105	76	29
4L 9/26	10	7,5	-	-	15,7		233	222	207	193	173	144	104	40



4L 10

Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	l/min	0	120	150	180	210	240	270	300
						l/sec	0	2	2,5	3	3,5	4	4,5	5
	HP	kW	A	µF	A	m³/h	0	7,2	9	10,8	12,6	14,4	16,2	18
4L 10/03	1,5	1,1	9,4	40	2,6	H[m]	33	26	24	22	19	16	13	10
4L 10/04	2	1,5	11,5	50	3,5		44	34	32	29	25	21	17	13
4L 10/06	3	2,2	14,7	75	5,0		67	51	48	43	38	31	26	19
4L 10/08	4	3	-	-	6,4		89	69	63	58	51	41	35	25
4L 10/11	5,5	4	-	-	8,7		122	94	87	79	70	57	48	35
4L 10/15	7,5	5,5	-	-	11,7		166	129	119	108	95	78	65	48
4L 10/21	10	7,5	-	-	15,7		233	180	166	151	133	109	91	67

4L 12

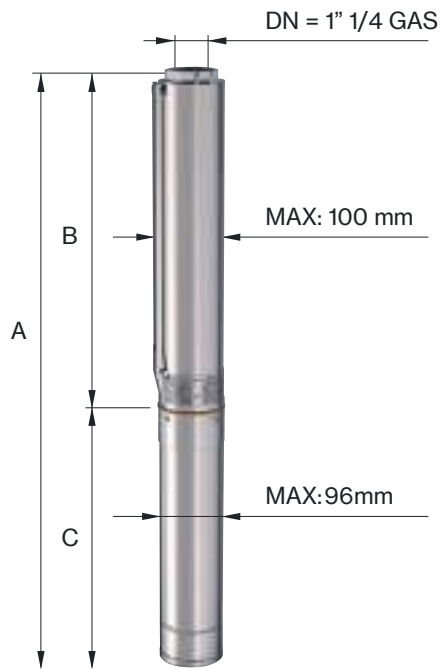
Motor 60 Hz - 3500 rpm							Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	180	210	240	270	300	330	360
						I/sec	0	3	3,5	4	4,5	5	5,5	6
	HP	kW	A	μF	A	m³/h	0	10,8	12,6	14,4	16,2	18	19,8	21,6
4L 12/03	2	1,5	11,5	50	3,5	H[m]	30	24	22	19	16	13	9	4
4L 12/04	3	2,2	14,7	75	5,0		40	32	29	25	21	17	12	5
4L 12/06	4	3	-	-	6,4		60	48	44	37	32	25	17	8
4L 12/07	5,5	4	-	-	8,7		71	56	52	44	37	30	20	10
4L 12/10	7,5	5,5	-	-	11,7		101	80	74	62	53	42	29	14
4L 12/14	10	7,5	-	-	15,7		141	112	103	87	74	59	40	19

4L 16

Motor 60 Hz - 3500 rpm						Q							
TYPE	Power		1~ 230 V		460 V	I/min	0	180	240	300	360	420	480
						I/sec	0	3	4	5	6	7	8
	HP	kW	A	μF	A	m³/h	0	10,8	14,4	18	21,6	25,2	28,8
4L 16/03	1,5	1,1	9,4	40	2,6	H[m]	24	19	17	15	12	7	1,9
4L 16/04	2	1,5	11,5	50	3,5		32	25	22	20	16	10	2,6
4L 16/06	3	2,2	14,7	75	5		48	37	34	30	24	15	3,8
4L 16/08	4	3	-	-	6,4		64	50	45	40	31	20	5,1
4L 16/11	5,5	4	-	-	8,7		88	69	62	55	43	27	7,0
4L 16/15	7,5	5,5	-	-	11,7		120	94	84	74	59	37	9,6
4L 16/20	10	7,5	-	-	15,7		160	125	112	99	78	50	12,8



4L



4L 2

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 2/05	625	-	308	317	-	7	-	3
4L 2/07	684	664	347	337	317	8	8	4
4L 2/10	767	742	405	362	337	10	10	5
4L 2/14	875	845	483	392	362	12	12	6
4L 2/20	1022	992	600	422	392	13	13	7
4L 2/29	1243	1228	776	467	452	15	15	9

Max Eff. % =	40,5
Max kW / St. =	0,076

Q (flow)	25%	50%	75%	100%
NPSH (m)	2	2	2,2	2,7

4L 3

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 3/04	615	-	298	317	-	7	-	3
4L 3/06	679	659	342	337	317	8	8	4
4L 3/08	748	723	386	362	337	10	10	4
4L 3/12	866	836	474	392	362	12	12	5
4L 3/16	984	954	562	422	392	13	13	6
4L 3/24	1205	1190	738	467	452	15	15	8
4L 3/33	-	1493	936	-	557	-	19	10
4L 3/44	-	1775	1178	-	597	-	22	13

Max Eff. % =	56
Max kW / St. =	0,092

Q (flow)	25%	50%	75%	100%
NPSH (m)	2	3	2,5	3,2



4L

4L 4

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 4/04	635	615	298	337	317	8	8	3
4L 4/06	704	679	342	362	337	10	10	4
4L 4/08	778	748	386	392	362	12	12	4
4L 4/11	874	844	452	422	392	13	13	5
4L 4/17	1051	1036	584	467	452	15	15	6
4L 4/23	-	1273	716	-	557	-	19	8
4L 4/30	-	1467	870	-	597	-	22	10

Max Eff. % =	64
Max kW / St. =	0,131

Q (flow)	25%	50%	75%	100%
NPSH (m)	2	2	2,5	3,2

4L 5

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 5/03	613	593	276	337	317	8	8	8
4L 5/05	682	657	320	362	337	10	10	10
4L 5/07	756	726	364	392	362	12	12	12
4L 5/09	830	800	408	422	392	13	13	13
4L 5/13	963	948	496	467	452	15	15	15
4L 5/18	-	1163	606	-	557	-	19	19
4L 5/24	-	1335	738	-	597	-	22	22
4L 5/33	-	1634	936	-	698	-	27	27
4L 5/46	-	2040	1222	-	818	-	32	32

Max Eff. % =	63,5
Max kW / St. =	0,164

Q (flow)	25%	50%	75%	100%
NPSH (m)	2	2	2,5	3,2

4L 7

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 7/03	662	637	300	362	337	10	10	3
4L 7/05	752	722	360	392	362	12	12	4
4L 7/07	842	812	420	422	392	13	13	4
4L 7/10	977	962	510	467	452	15	15	5
4L 7/13	-	1157	600	-	557	-	19	6
4L 7/18	-	1347	750	-	597	-	22	8
4L 7/25	-	1658	960	-	698	-	27	11
4L 7/34	-	2048	1230	-	818	-	32	14

Max Eff. % =	65
Max kW / St. =	0,221

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	2,7	3,5



4L

4L 9

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 9/03	662	637	300	362	337	10	10	3
4L 9/04	722	692	330	392	362	12	12	3
4L 9/05	782	752	360	422	392	13	13	4
4L 9/08	917	902	450	467	452	15	15	5
4L 9/10	-	1067	510	-	557	-	19	5
4L 9/14	-	1227	630	-	597	-	22	7
4L 9/19	-	1478	780	-	698	-	27	8
4L 9/26	-	1808	990	-	818	-	32	11

Max Eff. % =	64
Max kW / St. =	0,285

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8

4L 10

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 10/03	725	695	333	392	362	12	12	3
4L 10/04	796	766	374	422	392	13	13	4
4L 10/06	923	908	456	467	452	15	15	4
4L 10/08	-	1095	538	-	557	-	19	5
4L 10/11	-	1258	661	-	597	-	22	6
4L 10/15	-	1523	825	-	698	-	27	8
4L 10/21	-	1889	1071	-	818	-	32	10

Max Eff. % =	60
Max kW / St. =	0,363

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8

4L 12

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 12/03	755	725	333	422	392	13	13	3
4L 12/04	841	826	374	467	452	15	15	4
4L 12/06	-	1013	456	-	557	-	19	4
4L 12/07	-	1094	497	-	597	-	22	5
4L 12/10	-	1318	620	-	698	-	27	6
4L 12/14	-	1602	784	-	818	-	32	8

Max Eff. % =	57
Max kW / St. =	0,533

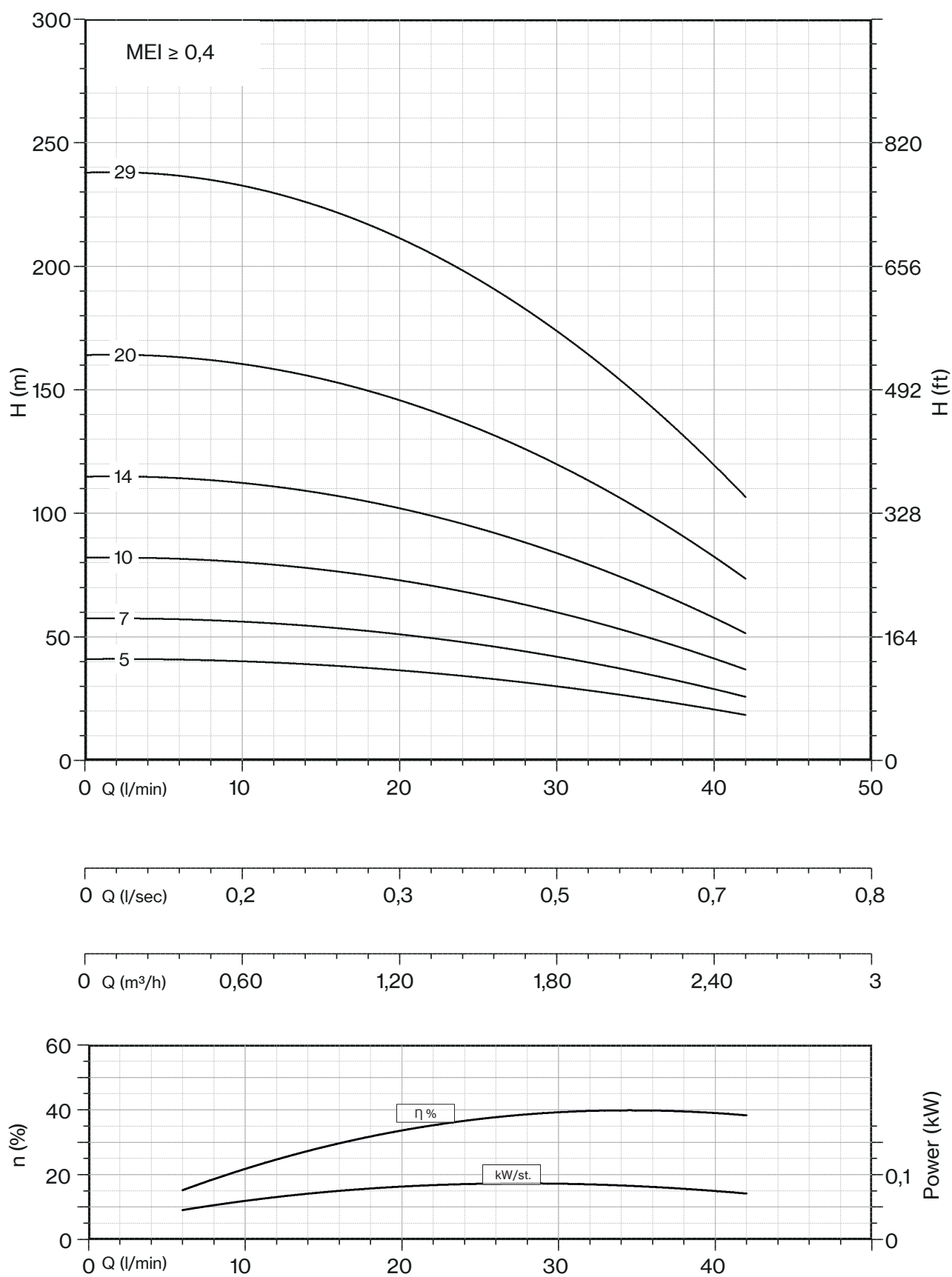
Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8

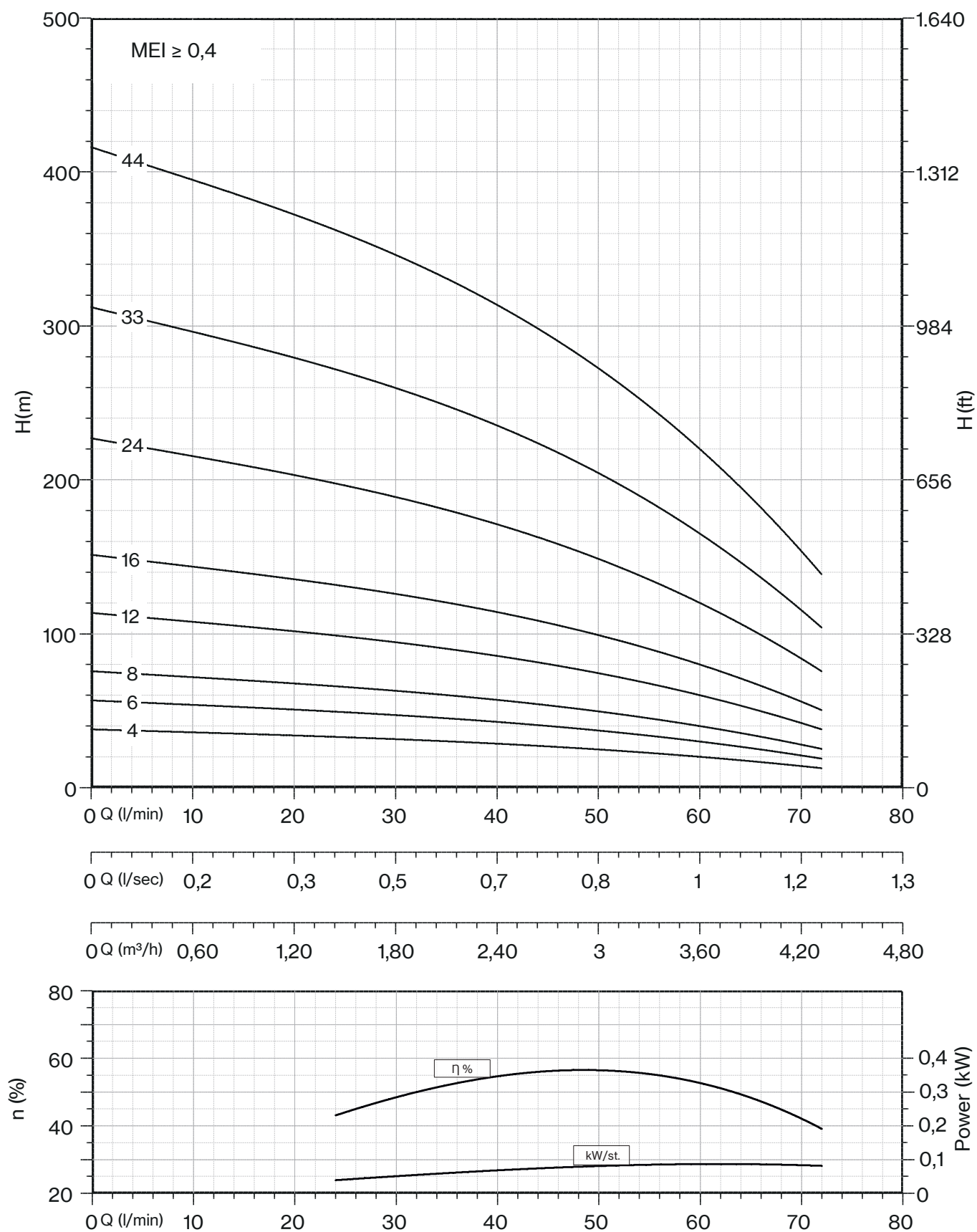


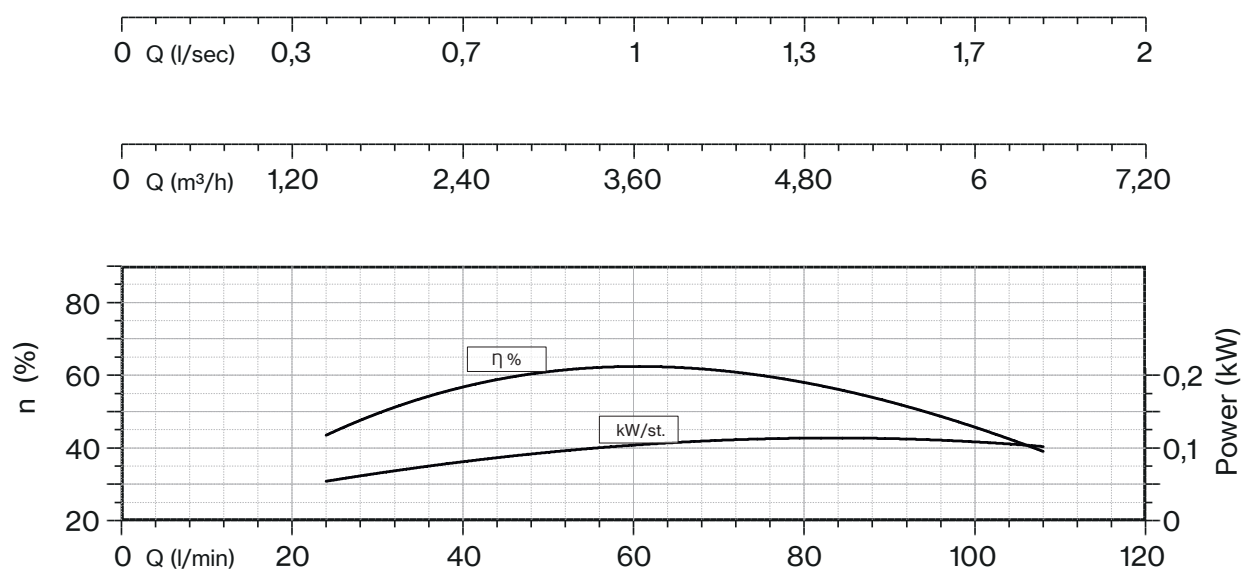
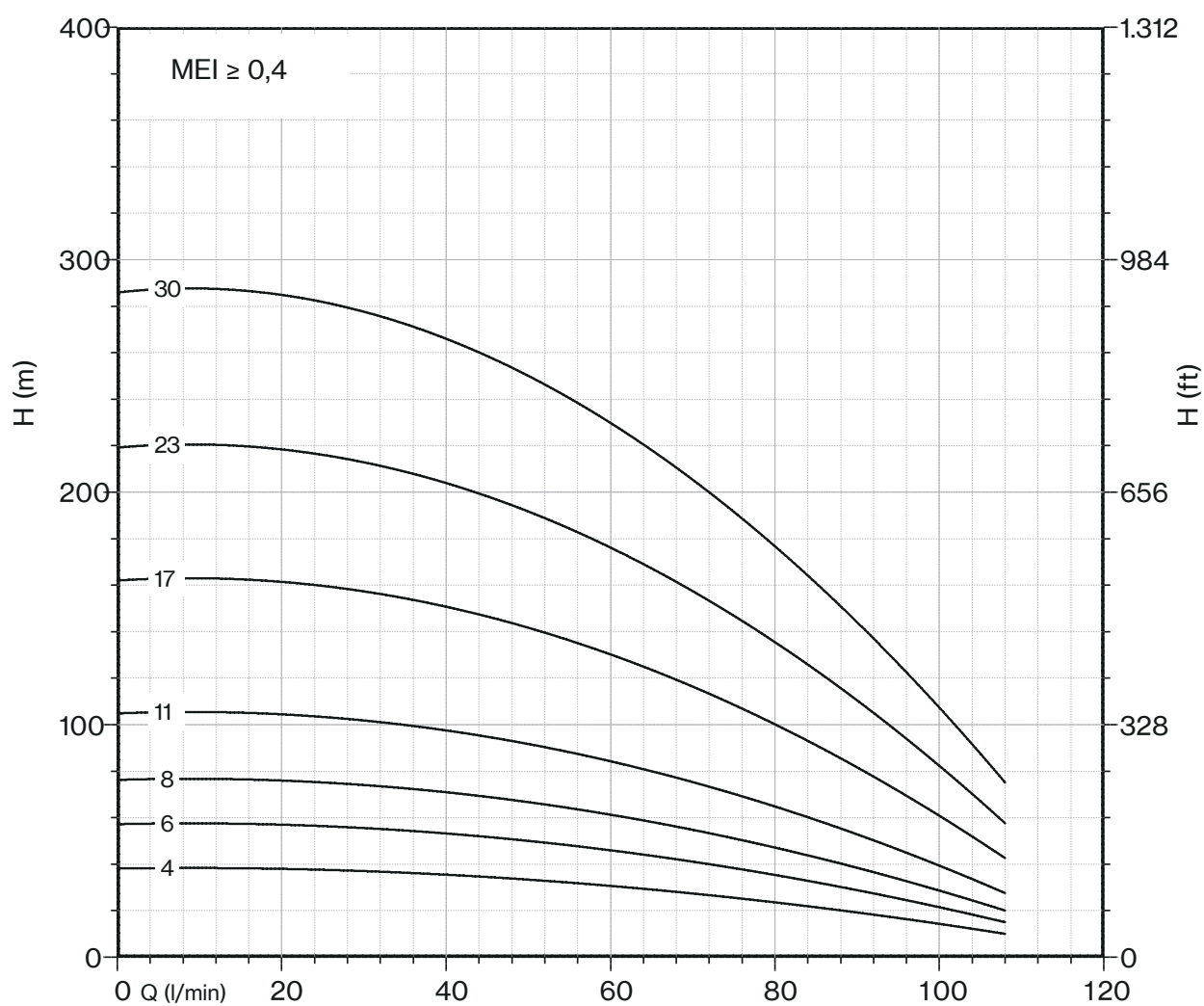
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)					Weight (kg)		
TYPE	A 1~ 230 V	A 3~ 460 V	B	C 1~	C 3~	M 1~	M 3~	P
4L 16/03	821	791	429	392	362	12	12	4
4L 16/04	924	894	502	422	392	13	13	4
4L 16/06	1115	1100	648	467	452	15	15	6
4L 16/08	-	1351	794	-	557	-	19	7
4L 16/11	-	1610	1013	-	597	-	22	9
4L 16/15	-	2003	1305	-	698	-	27	11
4L 16/20	-	2488	1670	-	818	-	32	14

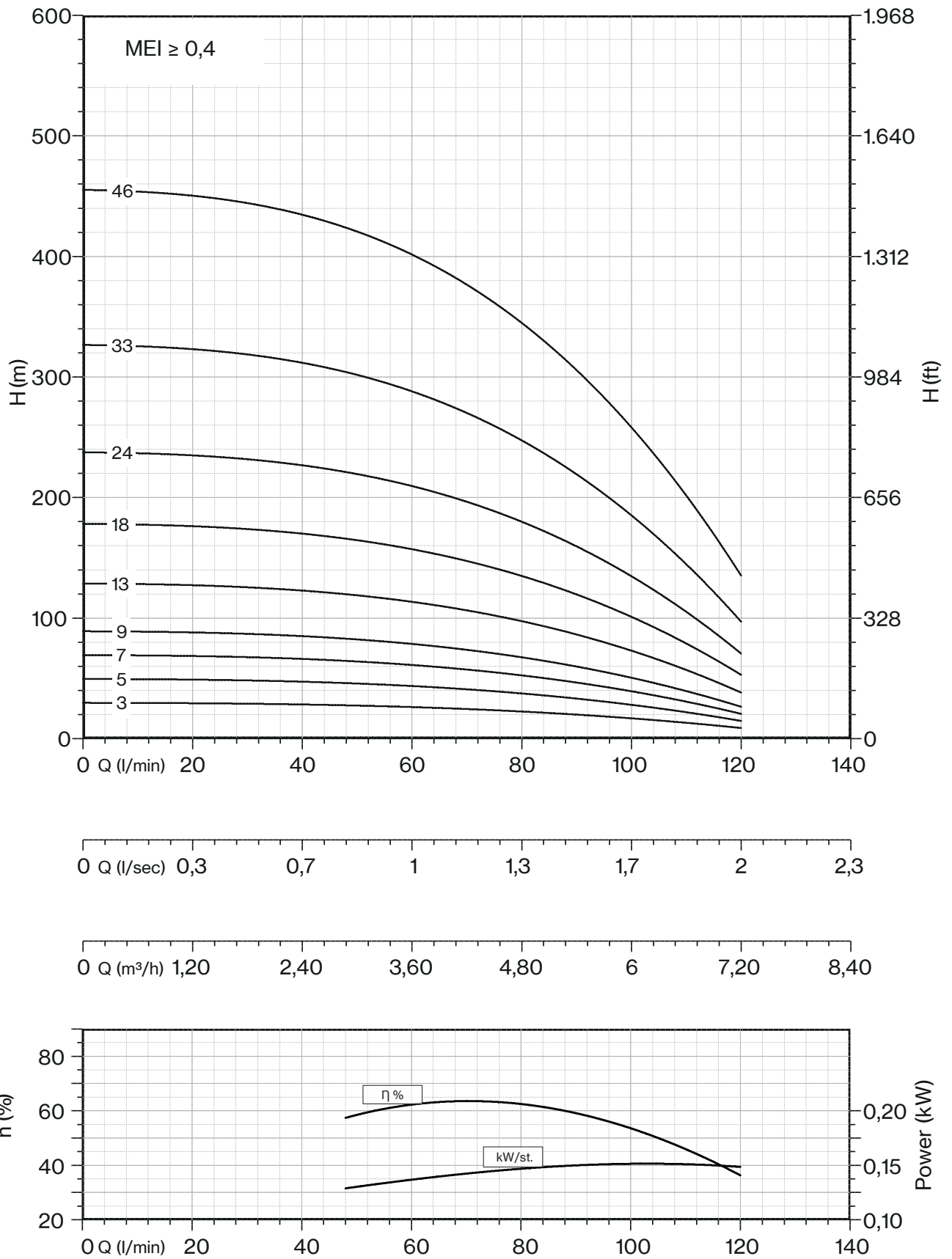
Max Eff. % =	64,5
Max kW / St. =	0,374

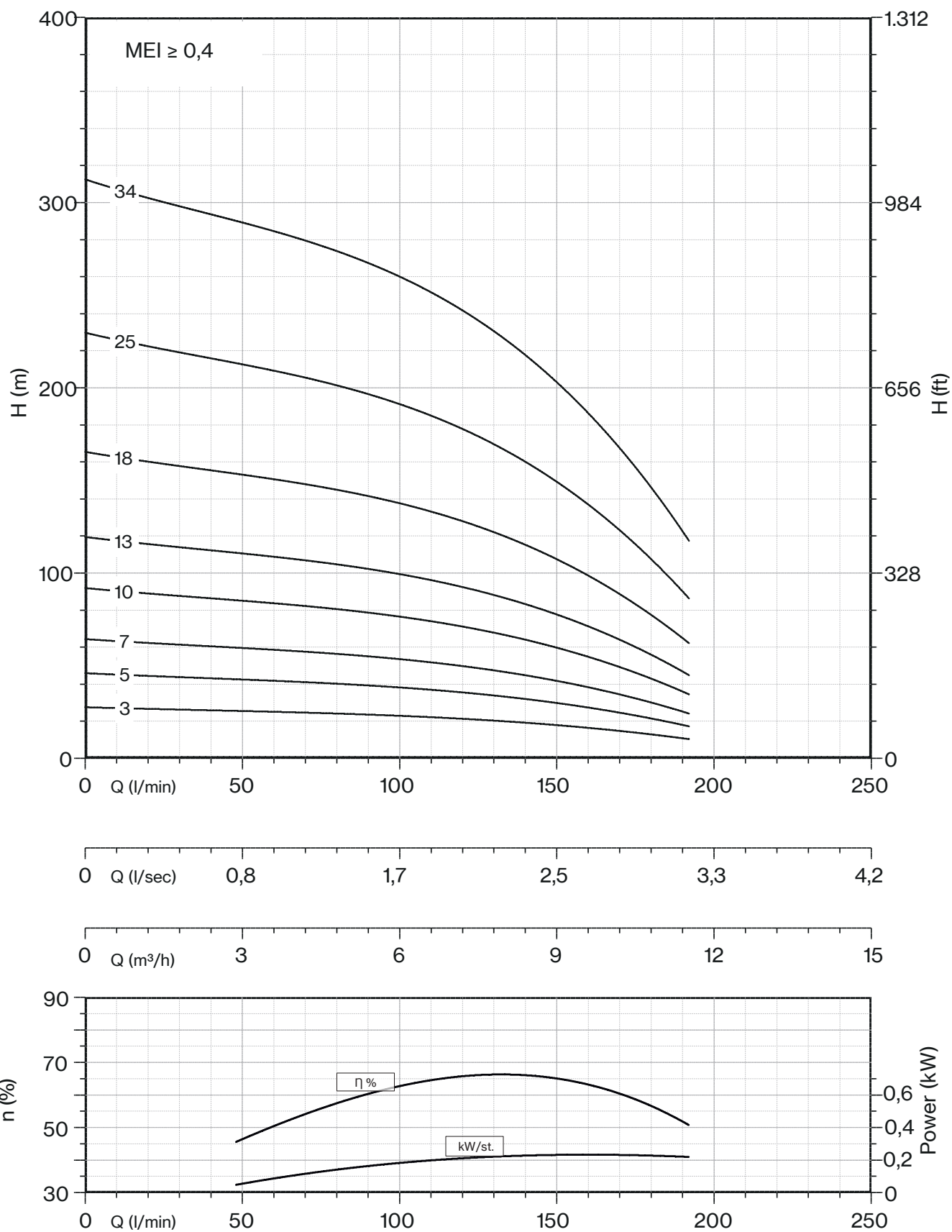
Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	4	6

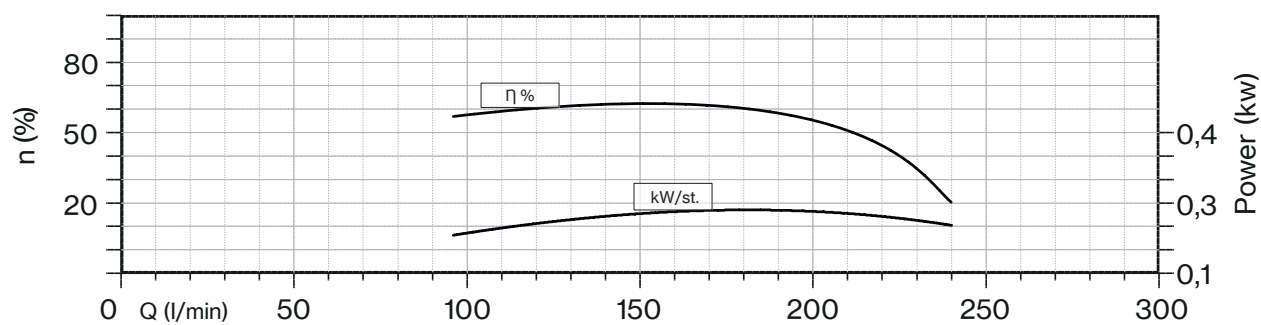
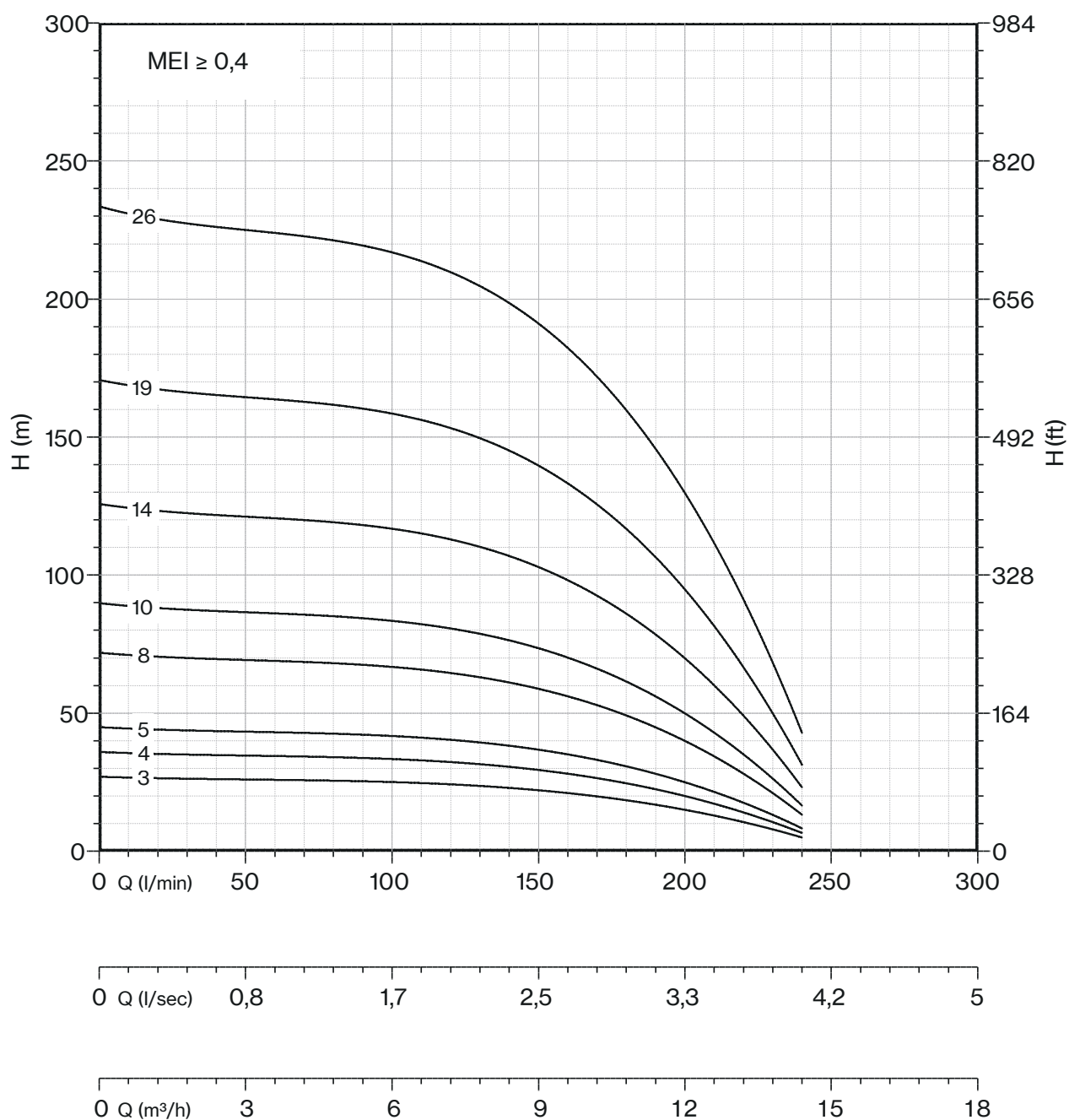


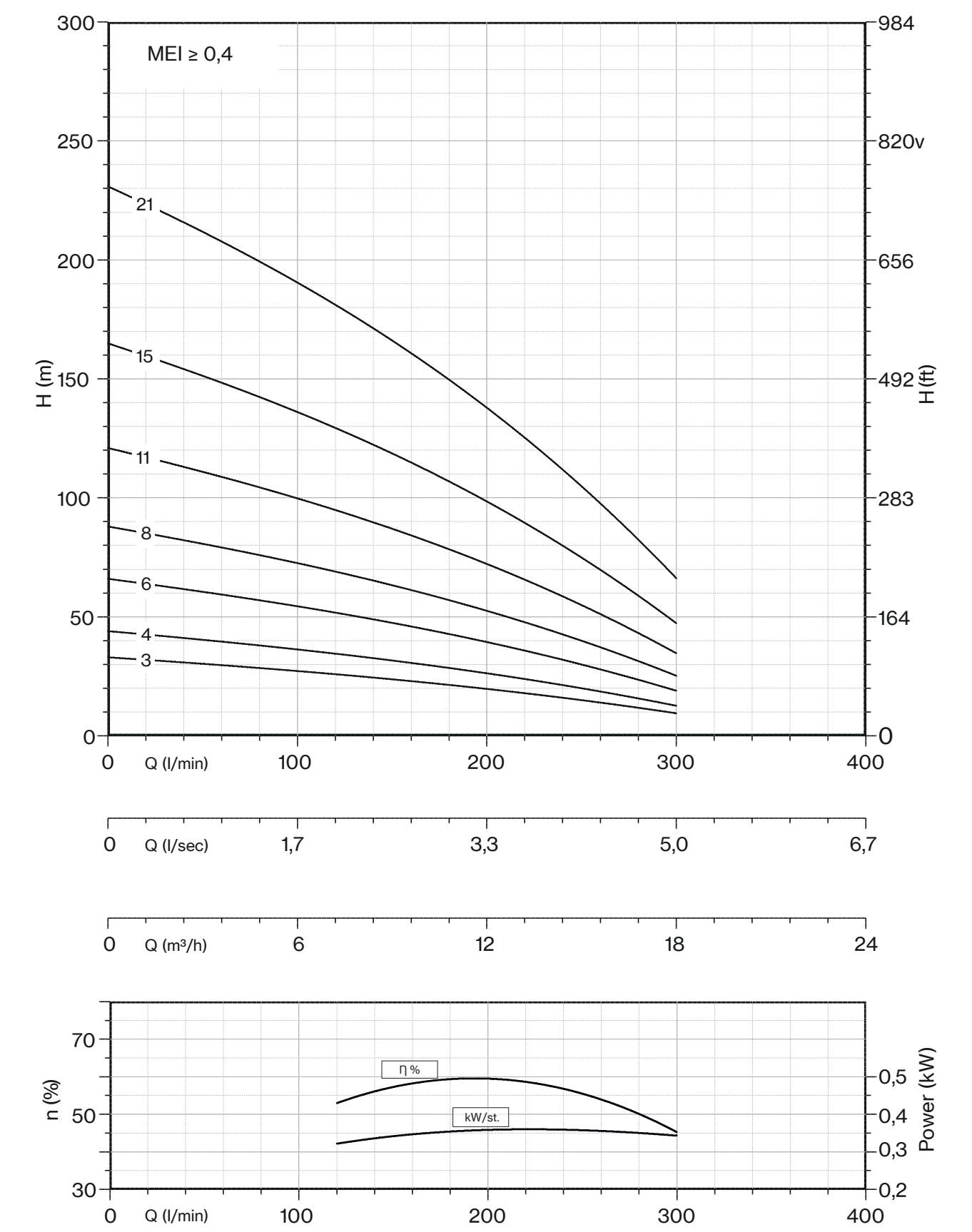


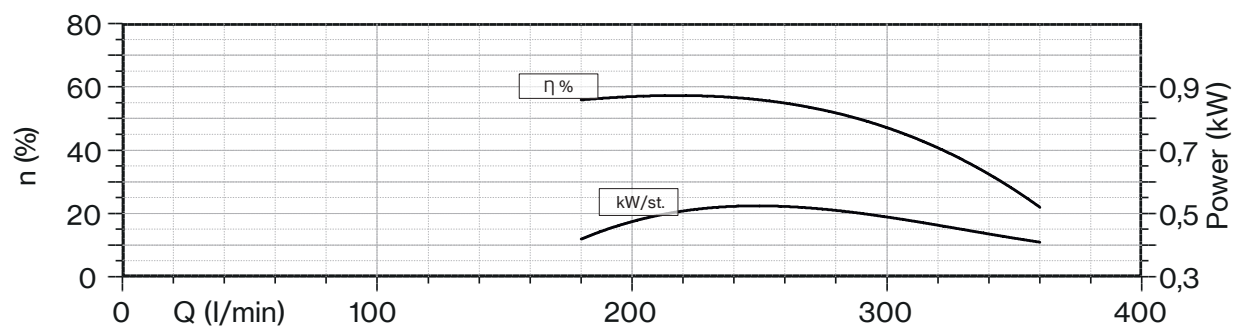
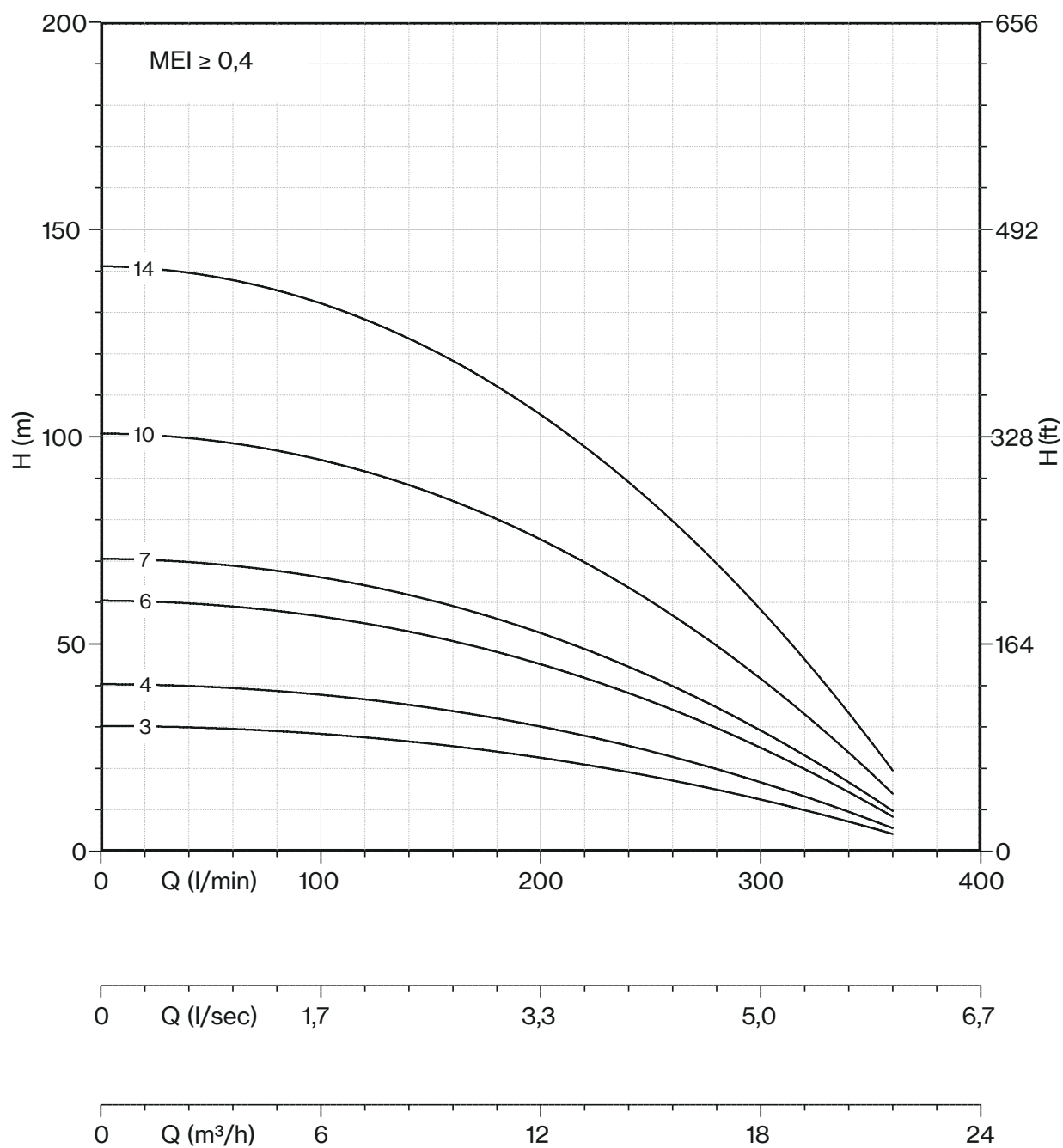


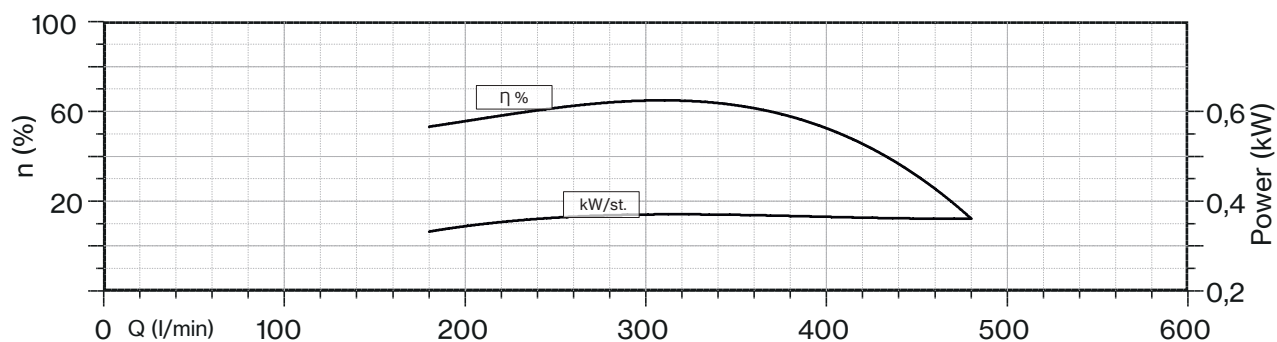
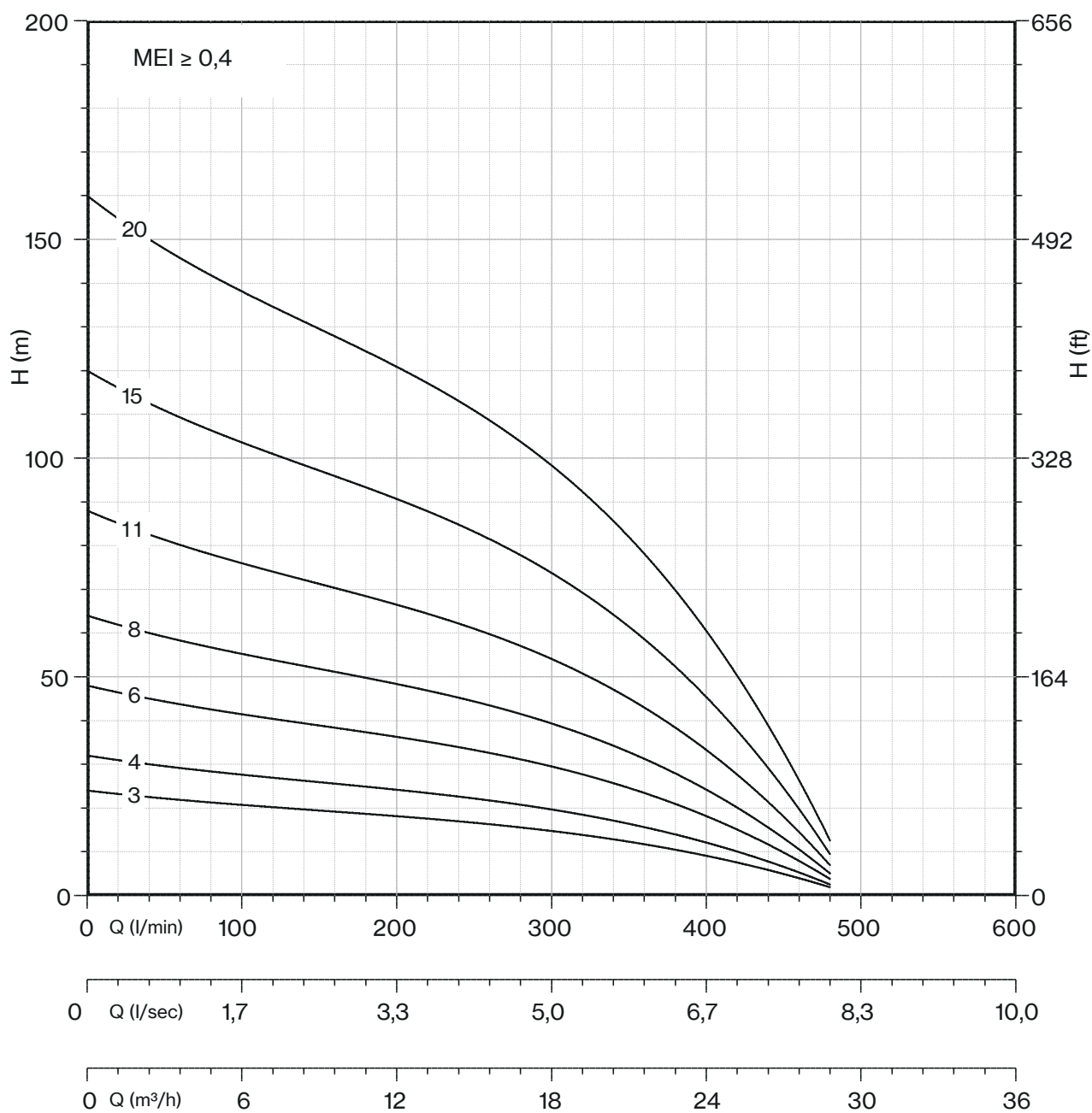


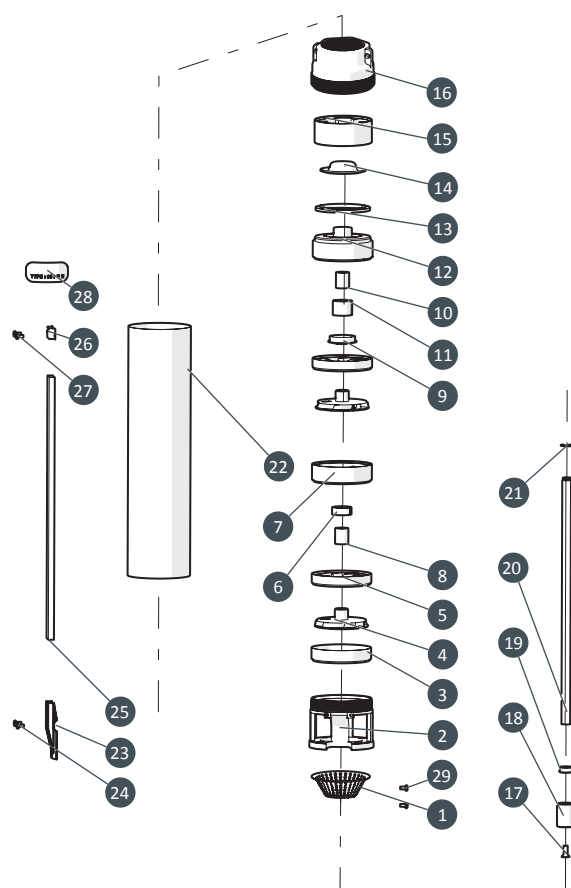












N. CODE	DESCRIPTION	MATERIAL
1	SUCTION STRAINER	AISI 304
2	SUCTION CAGE	AISI 304
3	INTERMEDIATE CASING	AISI 304
4	IMPELLER	POLYCARBONATE
5	DIFFUSEUR	NORYL GFN2
6	INTERMEDIATE BEARING BUSH	RUBBER NBR
7	INTERMEDIATE SUPPORT	NORYL GFN2
8	INTERMEDIATE SPACER	AISI 304
9	SAND GUARD	NORYL GFN2
10	SPACER UPPER SUPPORT	AISI 304
11	UPPER BEARING BUSH	RUBBER NBR
12	UPPER SUPPORT	NORYL GFN2
13	GASLET VALVE	RUBBER NBR
14	CAP VALVE	AISI 304
15	RING CONNECTOR DELIVERY BOWL	NORYL GFN2
16	DELIVERY BOWL	AISI 304
17	SCREW M6X12	AISI 304
18	FLOTTANTE FLOATING JOINT	AISI 304
19	SPACER FIRST IMPELLER	POLYCARBONATE
20	PUMP SHAFT	AISI 420
21	SEEGER	AISI 304
22	SLEEVE	AISI 304
23	LOWER FLANGE	AISI 304
24	N.2 SCREW M4X10 FOR LOWER FLANGE	AISI 304
25	COVER CABLE	AISI 304
26	UPPER FLANGE	AISI 304
27	N.2 SCREW M4X10 FOR UPPER FLANGE	AISI 304
28	ADHESIVE LABEL	POLYESTER
29	N.2 SCREW M4X10 SUCTION STRAINER	AISI 304



Submersible multistage centrifugal pumps for 6" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.

Construction features

Suction and delivery outlet	micro-casted stainless steel AISI 304
Valve	stainless steel AISI 304
Impellers and diffusers	polycarbonate Lexan
Upper bushings	NBR rubber
Shaft	stainless steel AISI 420
Quantity of sand in the water	max 400 g/m ³
Max liquid temperature	35° C



Motor 60 Hz - 3500 rpm				Q				
TYPE	Power		l/min	0	72	120	168	216
			l/sec	0	1,2	2	2,8	3,6
	HP	kW	m³/h	0	4,3	7,2	10,1	13
6L 9/03	3	2,2	H[m]	66	59	49	34	16
6L 9/05	4	3		111	98	81	57	26
6L 9/06	5,5	4		133	118	97	68	31
6L 9/08	7,5	5,5		177	157	129	91	42
6L 9/12	10	7,5		266	235	194	137	62
6L 9/14	12,5	9,2		310	274	226	160	73
6L 9/17	15	11		377	333	275	194	89
6L 9/20	17,5	13		443	392	323	228	104
6L 9/23	20	15		510	451	372	262	120

Motor 60 Hz - 3500 rpm				Q				
TYPE	Power		l/min	0	96	144	192	240
			l/sec	0	1,6	2,4	3,2	4
	HP	kW	m³/h	0	5,8	8,6	11,5	14,4
6L 12/03	3	2,2	H[m]	63	59	53	44	32
6L 12/04	4	3		84	79	71	59	42
6L 12/05	5,5	4		105	99	89	74	53
6L 12/07	7,5	5,5		147	138	124	103	74
6L 12/10	10	7,5		210	197	177	147	105
6L 12/12	12,5	9,2		252	237	213	177	126
6L 12/14	15	11		294	276	248	206	147
6L 12/17	17,5	13		358	335	301	251	179
6L 12/19	20	15		400	375	337	280	200

Motor 60 Hz - 3500 rpm				Q				
TYPE	Power		l/min	0	120	180	240	300
			l/sec	0	2	3	4	5
	HP	kW	m³/h	0	7,2	10,8	14,4	18
6L 14/03	4	3	H[m]	65	63	58	52	42
6L 14/04	5,5	4		86	83	78	69	56
6L 14/05	7,5	5,5		108	104	97	86	70
6L 14/07	10	7,5		151	146	136	121	98
6L 14/08	12,5	9,2		173	167	155	138	112
6L 14/10	15	11		216	208	194	173	141
6L 14/11	17,5	13		238	229	213	190	155
6L 14/13	20	15		281	271	252	225	183
6L 14/16	25	18,5		346	333	310	276	225
6L 14/19	30	22		410	396	369	328	267

6L

6L 17

Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	180	240	300	360	420	480
			l/sec	0	3	4	5	6	7	8
	HP	kW	m³/h	0	10,8	14,4	18	21,6	25,2	28,8
6L 17/02	4	3	H[m]	43	41	37	33	27	20	13
6L 17/03	5,5	4		64	61	56	49	40	30	19
6L 17/04	7,5	5,5		85	81	75	65	54	40	26
6L 17/05	10	7,5		106	102	94	81	67	49	32
6L 17/07	12,5	9,2		149	142	131	114	94	69	45
6L 17/08	15	11		170	162	150	130	107	79	51
6L 17/09	17,5	13		191	183	168	146	120	89	58
6L 17/11	20	15		234	223	206	179	147	109	70
6L 17/13	25	18,5		276	264	243	211	174	129	83
6L 17/16	30	22		340	325	300	260	214	158	102
6L 17/19	35	26		404	386	356	309	254	188	122
6L 17/22	40	30		468	447	412	358	294	218	141

6L 23

Motor 60 Hz - 3500 rpm			Q						
TYPE	Power		l/min	0	240	360	480	600	720
			l/sec	0	4	6	8	10	12
	HP	kW	m³/h	0	14,4	21,6	28,8	36	43,2
6L 23/02	5,5	4	H[m]	40	33	30	25	16	4
6L 23/03	7,5	5,5		59	50	45	37	24	7
6L 23/05	10	7,5		99	83	74	61	40	11
6L 23/06	12,5	9,2		119	99	89	74	48	13
6L 23/07	15	11		139	116	104	86	56	15
6L 23/08	17,5	13		158	133	119	98	64	17
6L 23/09	20	15		178	149	134	110	72	20
6L 23/12	25	18,5		238	199	178	147	96	26
6L 23/14	30	22		277	232	208	172	112	31
6L 23/16	35	26		317	265	237	196	128	35
6L 23/19	40	30		376	315	282	233	153	41

6L 35

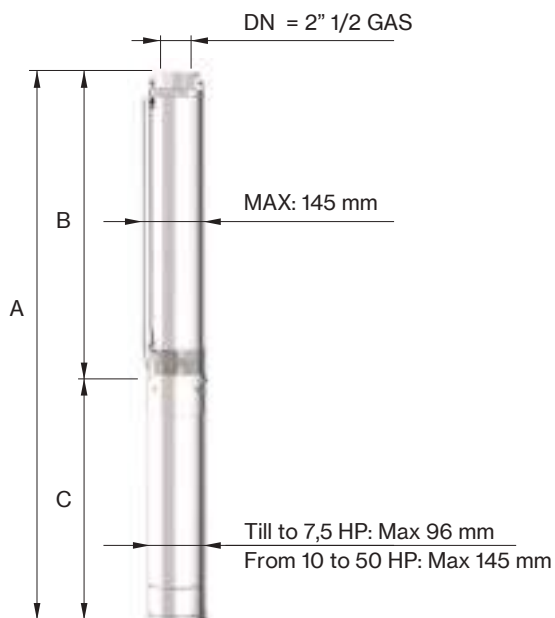
Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	360	480	600	720	840	960
			l/sec	0	6	8	10	12	14	16
	HP	kW	m³/h	0	21,6	28,8	36	43,2	50,4	57,6
6L 35/02	10	7,5	H[m]	39	35	31	27	21	14	6
6L 35/03	12,5	9,2		59	52	47	40	32	21	9
6L 35/04	15	11		79	69	63	54	43	28	12
6L 35/05	17,5	13		98	86	78	67	54	35	15
6L 35/06	20	15		118	104	94	81	64	42	18
6L 35/08	25	18,5		157	138	125	108	86	56	24
6L 35/09	30	22		177	156	141	121	96	63	27
6L 35/11	35	26		216	190	172	148	118	77	33
6L 35/12	40	30		236	207	188	161	129	84	36
6L 35/15	50	37		295	259	235	202	161	106	46



Motor 60 Hz - 3500 rpm				Q					
TYPE	Power		l/min	0	360	480	600	720	840
			l/sec	0	6	8	10	12	14
	HP	kW	m³/h	0	21,6	28,8	36	43,2	50,4
6L 36/02	5,5	4	H[m]	35	29	27	24	21	17
6L 36/03	7,5	5,5		53	43	40	36	31	25
6L 36/05	10	7,5		88	71	67	61	52	41
6L 36/06	12,5	9,2		106	86	80	73	62	50
6L 36/07	15	11		124	100	94	85	73	58
6L 36/08	17,5	13		141	114	107	97	83	66
6L 36/09	20	15		159	128	121	109	93	74
6L 36/11	25	18,5		194	157	147	133	114	91
6L 36/14	30	22		247	200	188	170	145	116
6L 36/16	35	26		282	228	214	194	166	132
6L 36/19	40	30		335	271	255	230	197	157
6L 36/23	50	37		406	328	308	279	239	190

Motor 60 Hz - 3500 rpm				Q						
TYPE	Power		l/min	0	480	600	720	840	960	1080
			l/sec	0	8	10	12	14	16	18
	HP	kW	m³/h	0	28,8	36	43,2	50,4	57,6	64,8
6L 43/02	7,5	5,5	H[m]	33	28	26	25	22	18	14
6L 43/03	10	7,5		50	42	40	37	32	27	22
6L 43/04	12,5	9,2		66	56	53	49	43	37	29
6L 43/05	15	11		83	70	66	61	54	46	36
6L 43/06	17,5	13		99	84	79	74	65	55	43
6L 43/07	20	15		116	98	92	86	76	64	50
6L 43/09	25	18,5		149	126	119	110	97	82	65
6L 43/11	30	22		182	154	145	135	119	101	79
6L 43/13	35	26		216	182	171	159	141	119	94
6L 43/15	40	30		249	210	198	184	162	137	108
6L 43/18	50	37		298	253	237	221	195	165	130

6L



6L 9

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 9/03	877	425	452	15	15
6L 9/05	1034	477	557	19	16
6L 9/06	1100	503	597	22	16
6L 9/08	1253	555	698	27	17
6L 9/12	1360	659	701	55	19
6L 9/14	1494	743	751	60	20
6L 9/17	1632	821	811	65	22
6L 9/20	1740	899	841	70	23
6L 9/23	1908	977	931	75	25

Max Eff. % =	56
Max kW / St. =	0,640

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8

6L 12

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 12/03	877	425	452	15	15
6L 12/04	1008	451	557	19	16
6L 12/05	1074	477	597	22	16
6L 12/07	1227	529	698	27	18
6L 12/10	1308	607	701	55	20
6L 12/12	1410	659	751	60	21
6L 12/14	1554	743	811	65	22
6L 12/17	1662	821	841	70	24
6L 12/19	1804	873	931	75	25

Max Eff. % =	61
Max kW / St. =	0,780

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 14/03	1009	452	557	19	15
6L 14/04	1084	487	597	22	16
6L 14/05	1220	522	698	27	17
6L 14/07	1293	592	701	55	18
6L 14/08	1378	627	751	60	19
6L 14/10	1508	697	811	65	20
6L 14/11	1605	764	841	70	21
6L 14/13	1765	834	931	75	22
6L 14/16	1930	939	991	83	24
6L 14/19	2115	1044	1071	92	26

Max Eff. % =	62,5
Max kW / St. =	1,125

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,2	2,2	3	4,8

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 17/02	974	417	557	19	15
6L 17/03	1049	452	597	22	16
6L 17/04	1185	487	698	27	16
6L 17/05	1223	522	701	55	17
6L 17/07	1343	592	751	60	19
6L 17/08	1438	627	811	65	20
6L 17/09	1503	662	841	70	21
6L 17/11	1663	732	931	75	22
6L 17/13	1793	802	991	83	24
6L 17/16	1978	907	1071	92	27
6L 17/19	2193	1012	1181	100	29
6L 17/22	2368	1117	1251	108	32

Max Eff. % =	60
Max kW / St. =	1,372

Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	4	6

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 23/02	1032	435	597	22	15
6L 23/03	1177	479	698	27	16
6L 23/05	1268	567	701	55	17
6L 23/06	1362	611	751	60	18
6L 23/07	1466	655	811	65	19
6L 23/08	1540	699	841	70	20
6L 23/09	1674	743	931	75	21
6L 23/12	1866	875	991	83	23
6L 23/14	2034	963	1071	92	25
6L 23/16	2232	1051	1181	100	27
6L 23/19	2434	1183	1251	108	29

Max Eff. % =	60,5
Max kW / St. =	1,590

Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	4,5	6,6



6L

6L 35

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 35/02	1166	465	701	55	15
6L 35/03	1275	524	751	60	16
6L 35/04	1394	583	811	65	17
6L 35/05	1483	642	841	70	19
6L 35/06	1632	701	931	75	20
6L 35/08	1810	819	991	83	22
6L 35/09	1949	878	1071	92	23
6L 35/11	2177	996	1181	100	25
6L 35/12	2306	1055	1251	108	26
6L 35/15	2573	1232	1341	118	30

Max Eff. % =	57
Max kW / St. =	2,405

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	3,8	8

6L 36

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 36/02	1069	472	597	22	14
6L 36/03	1266	568	698	27	15
6L 36/05	1461	760	701	55	17
6L 36/06	1607	856	751	60	17
6L 36/07	1763	952	811	65	18
6L 36/08	1889	1048	841	70	19
6L 36/09	2075	1144	931	75	19
6L 36/11	2327	1336	991	83	21
6L 36/14	2695	1624	1071	92	23
6L 36/16	2997	1816	1181	100	24
6L 36/19	3355	2104	1251	108	26
6L 36/23	3829	2488	1341	118	29

Max Eff. % =	76,3
Max kW / St. =	1,61

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	4	6

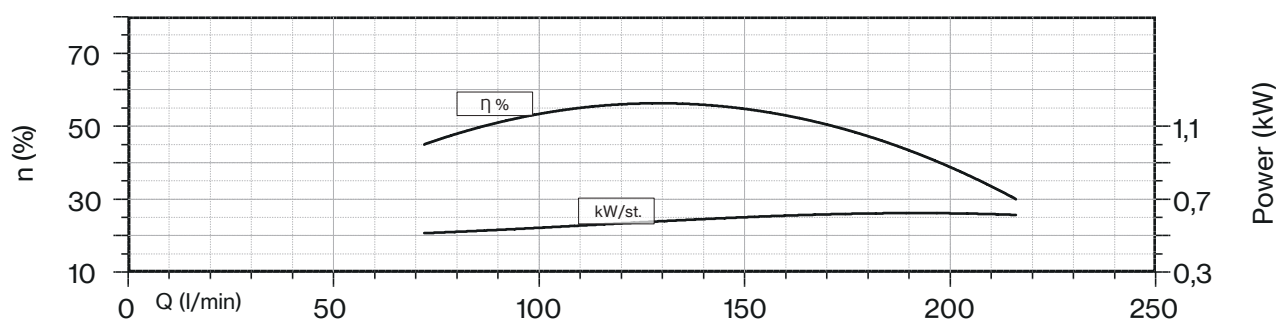
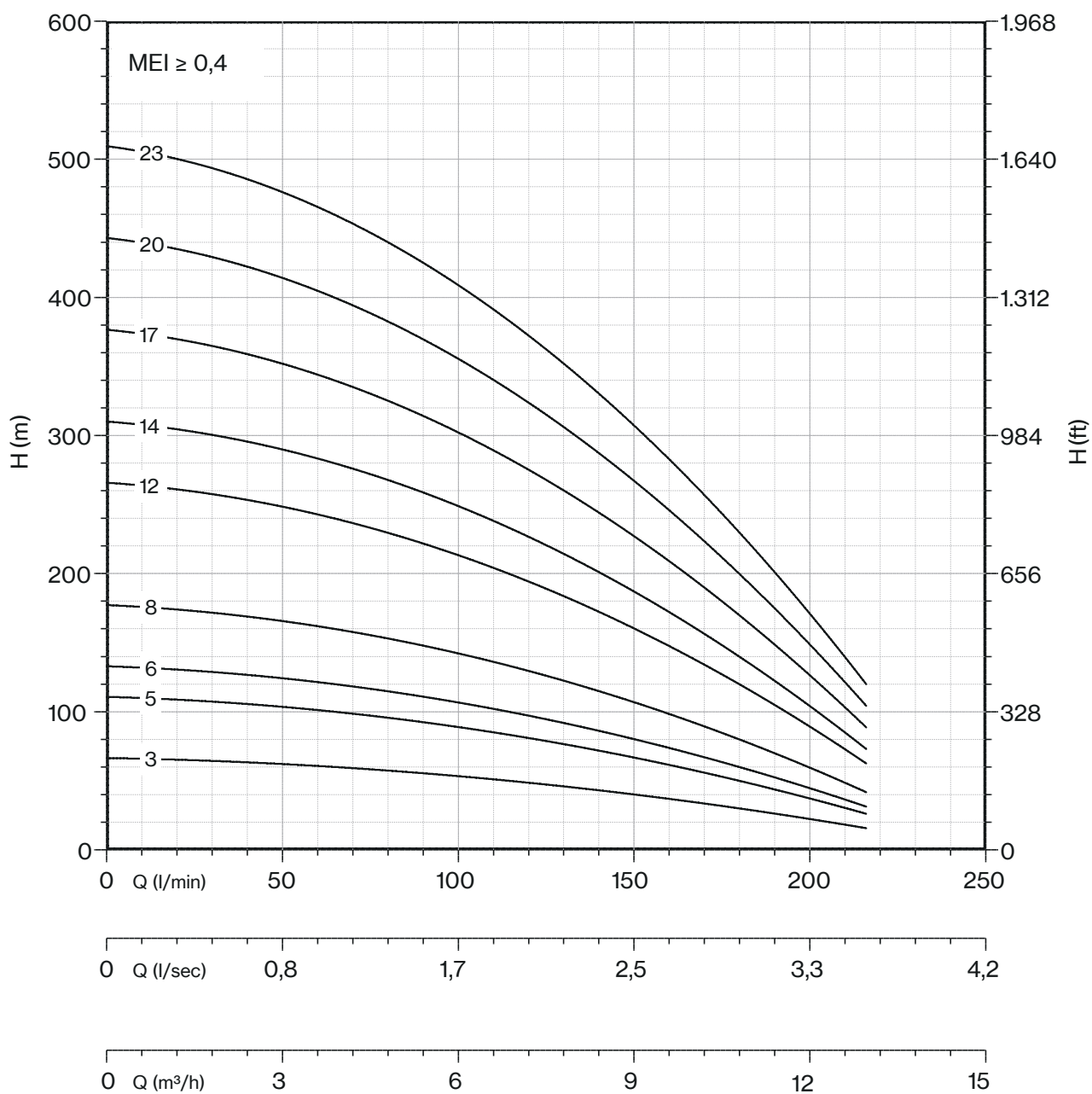
6L 43

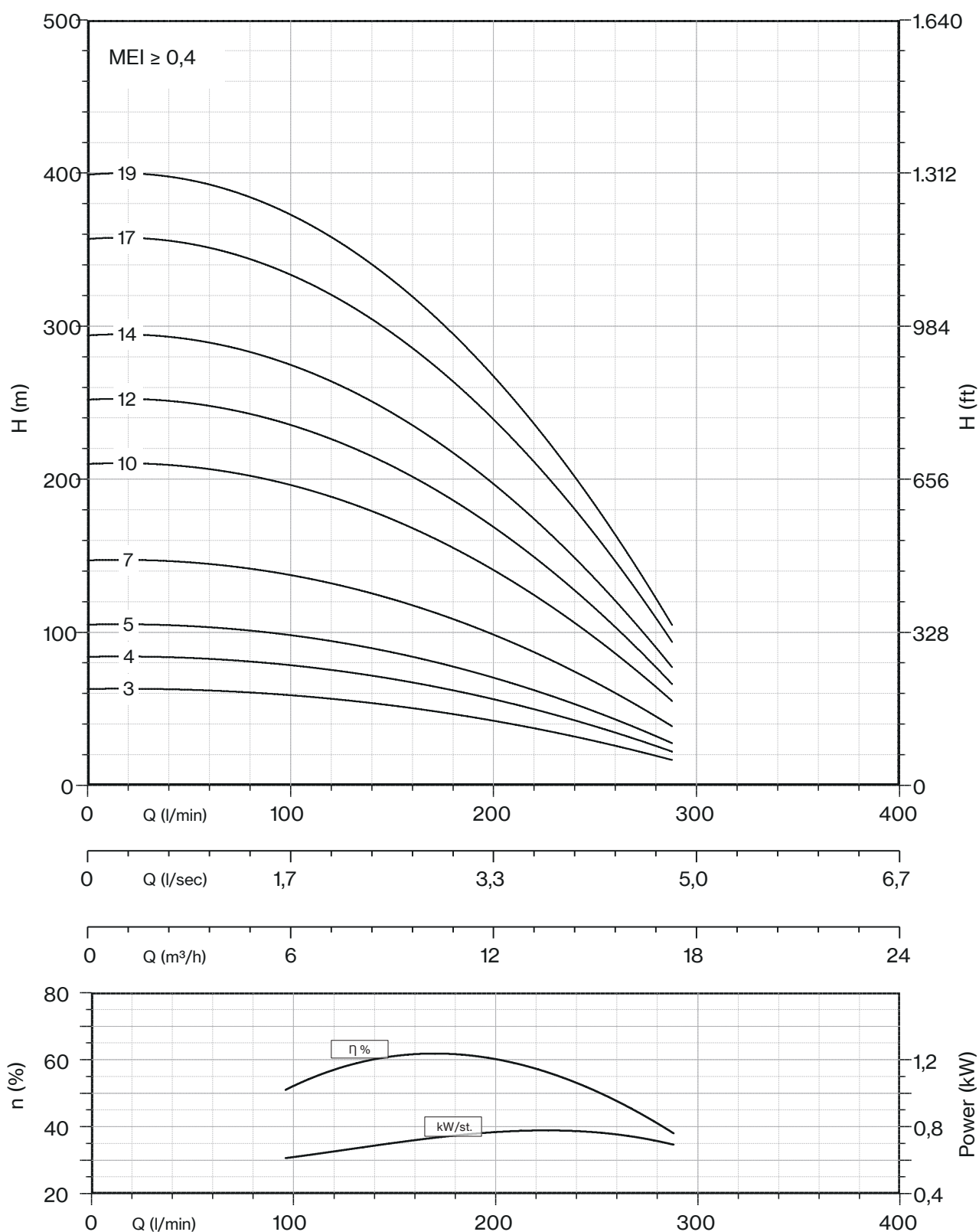
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6L 43/02	1170	472	698	27	14
6L 43/03	1269	568	701	55	15
6L 43/04	1415	664	751	60	16
6L 43/05	1571	760	811	65	17
6L 43/06	1697	856	841	70	17
6L 43/07	1883	952	931	75	18
6L 43/09	2135	1144	991	83	19
6L 43/11	2407	1336	1071	92	21
6L 43/13	2709	1528	1181	100	22
6L 43/15	2971	1720	1251	108	24
6L 43/18	3349	2008	1341	118	26

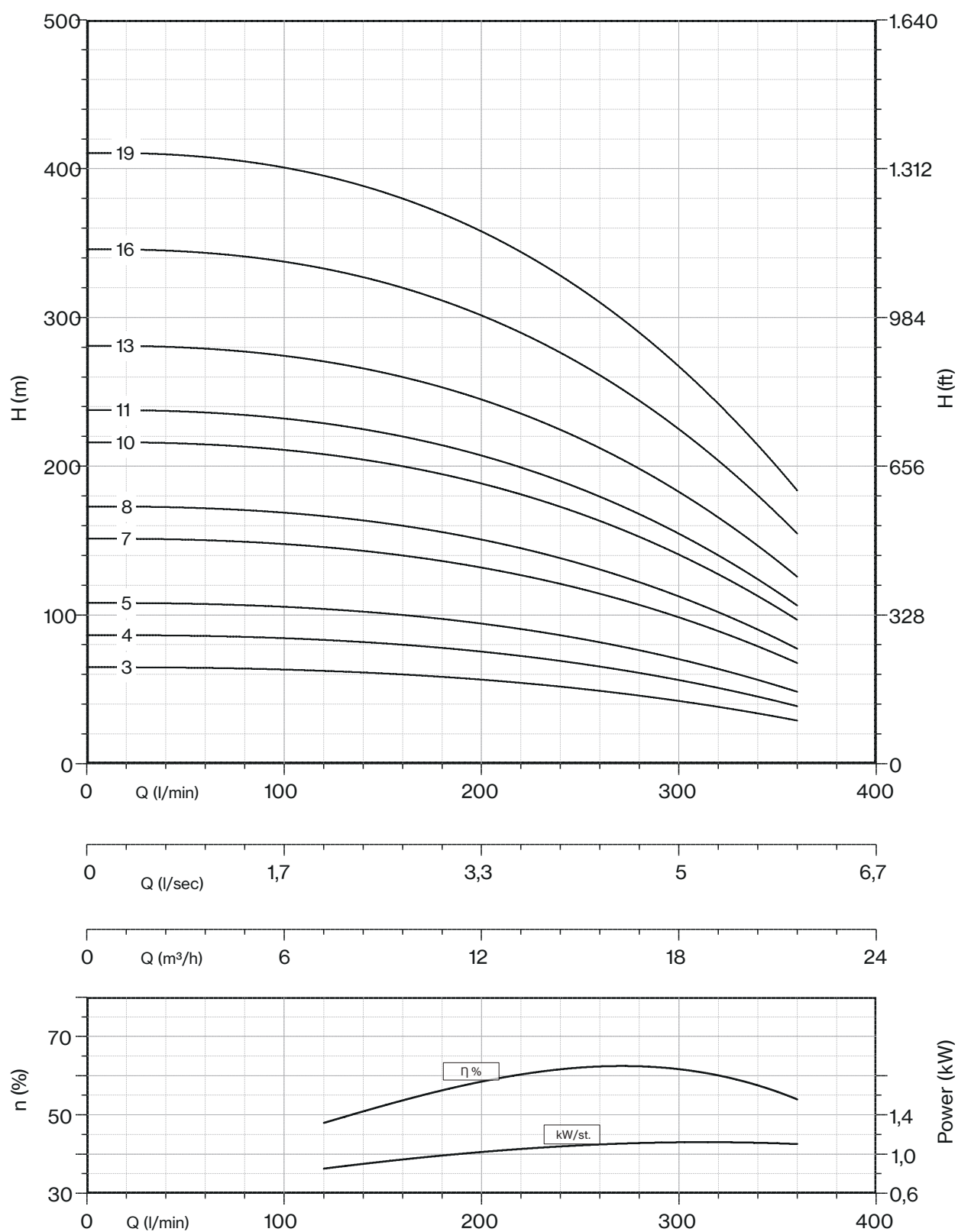
Max Eff. % =	74
Max kW / St. =	2,041

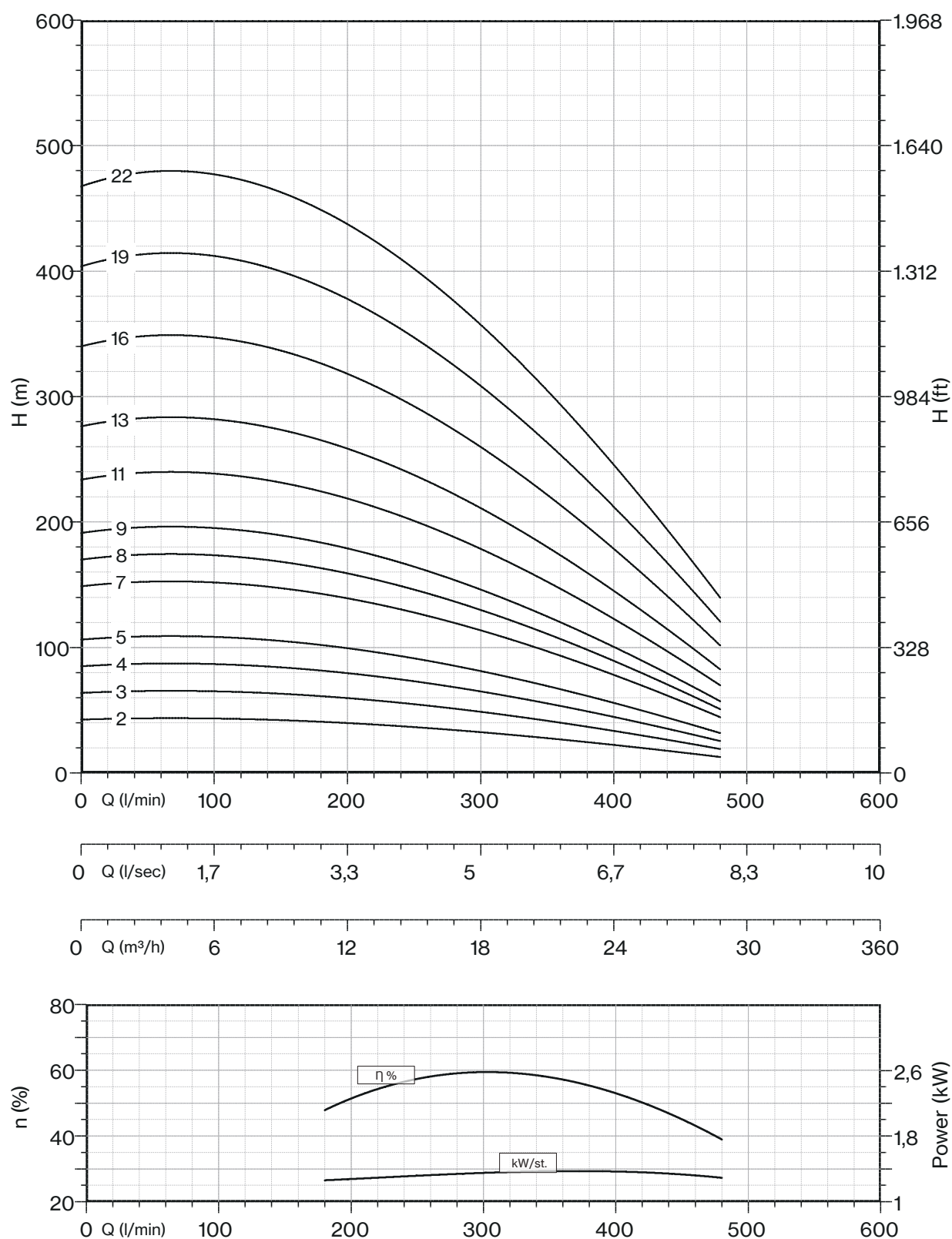
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,6	4,5	6,5

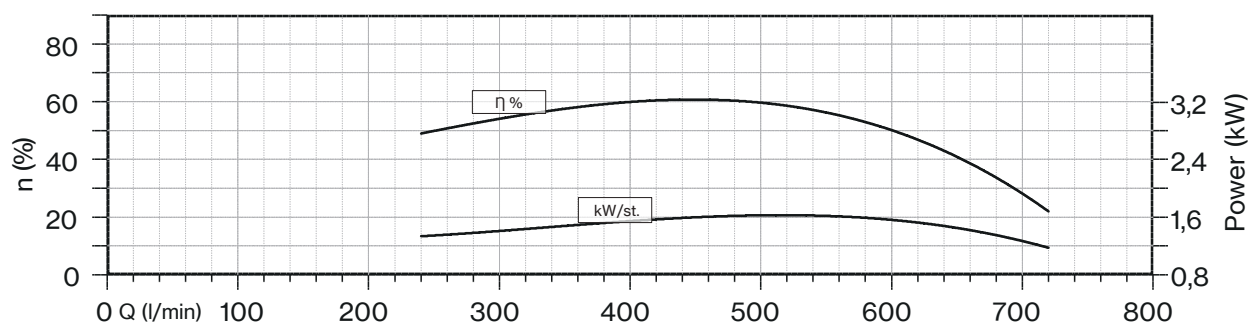
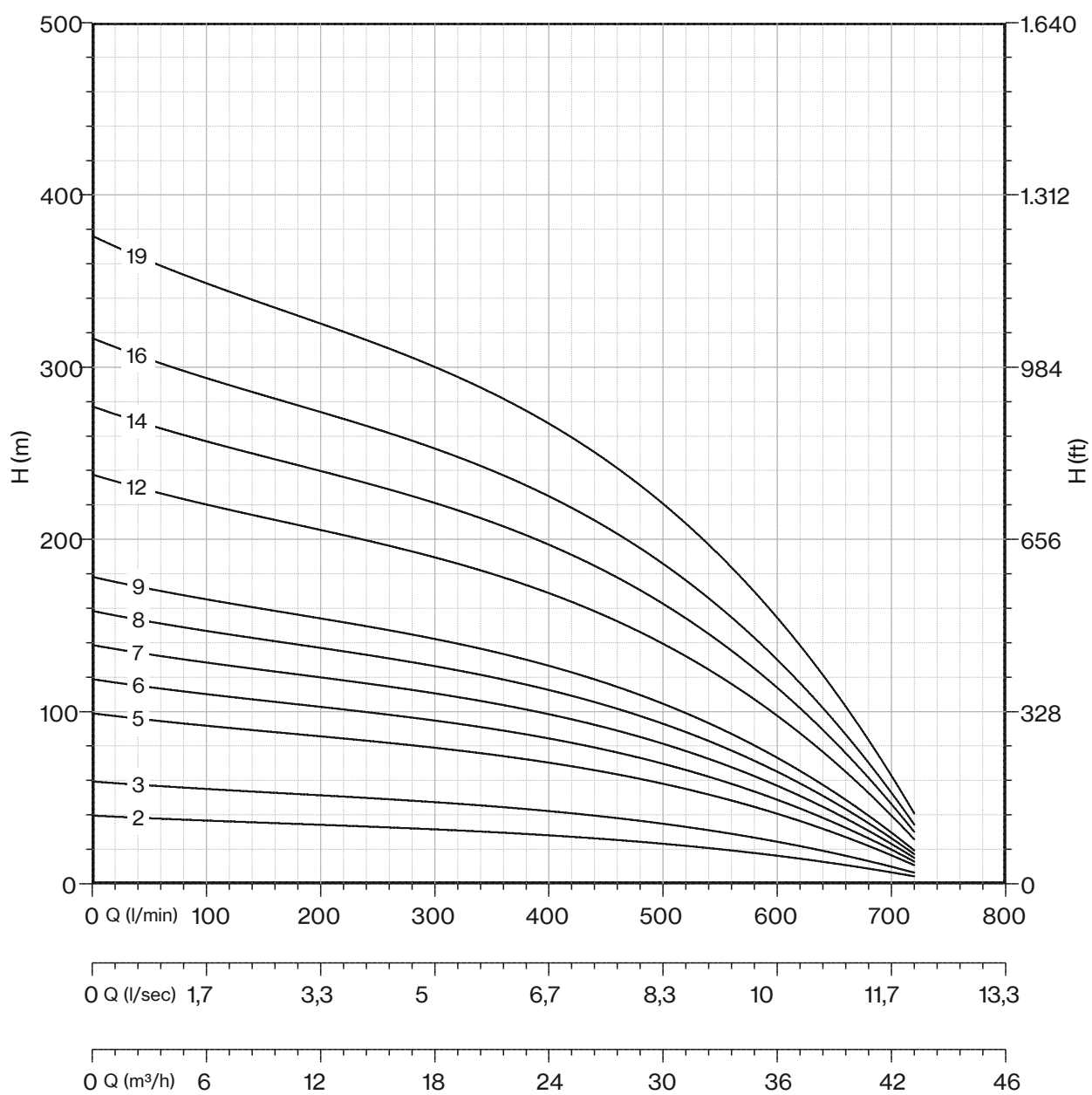


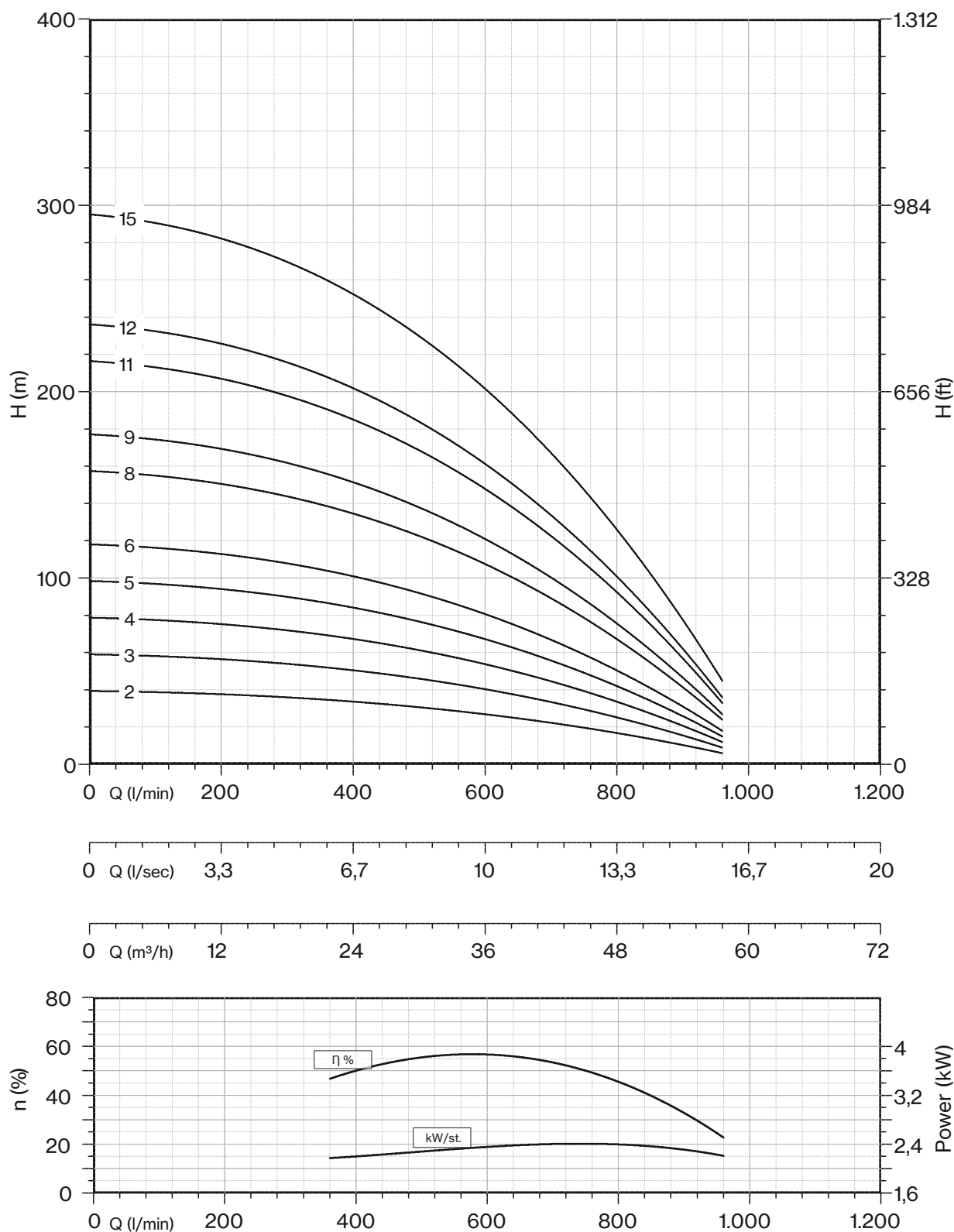


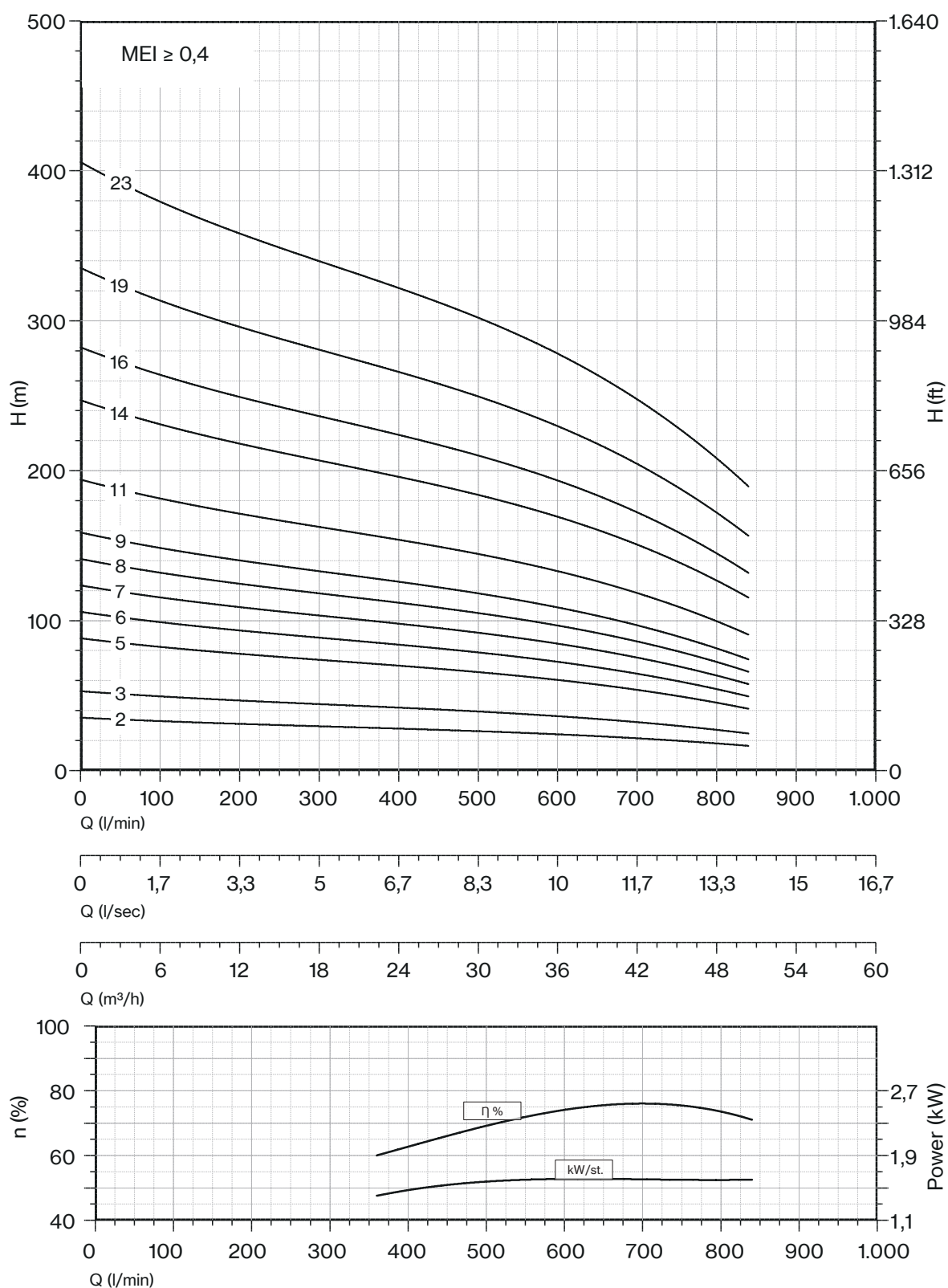


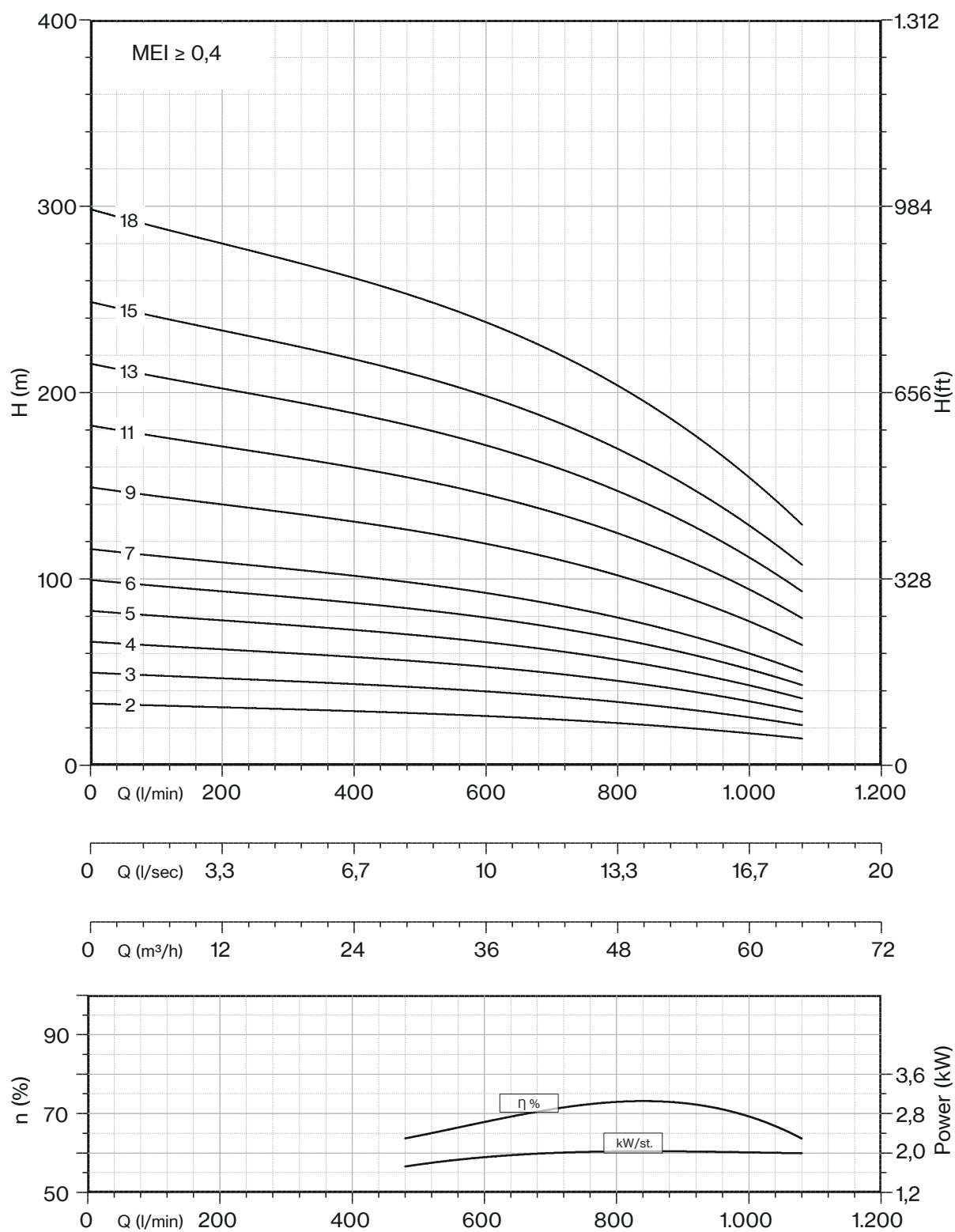


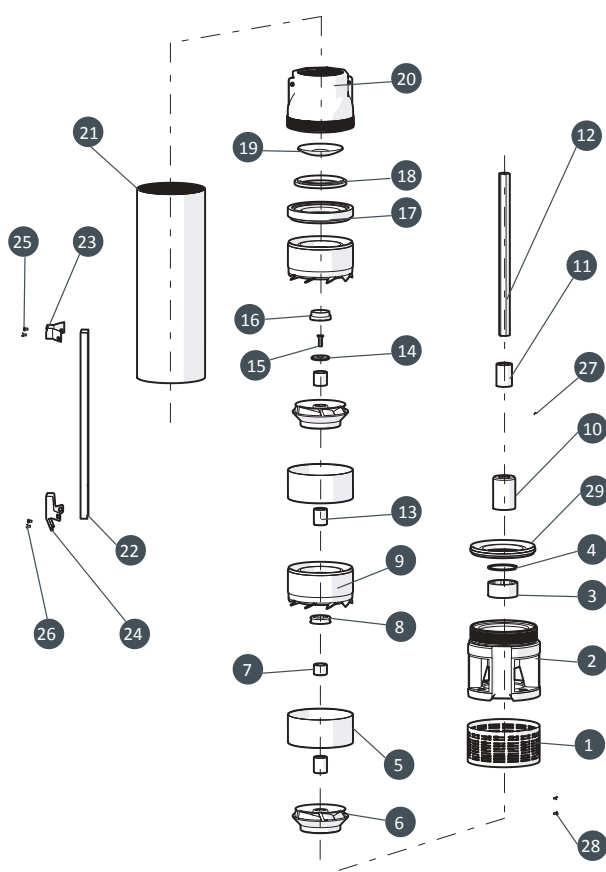












N. CODE	DESCRIPTION	MATERIAL
1	SUCTION STRAINER	AISI 304
2	SUCTION CAGE	CAST IRON
3	BEARING BUSH FOR SUCTION CAGE RUBBER NBR	RUBBER NBR
4	BEARING BUSH	AISI 304
5	INTERMEDIATE CASING	AISI 304
6	IMPELLER	NORYL GFN2
7	INTERMEDIATE SPACER	AISI 304
8	DIFFUSER BEARING BUSH	RUBBER NBR
9	DIFFUSER	NORYL GFN2 +RING AISI 304
10	JOINT	AISI 304
11	SPACER FIRST IMPELLER	NORYL GFN2
12	PUMP SHAFT	AISI 420
13	SPACER	NORYL GFN2
14	RING	AISI 304
15	SCREW	AISI 304
16	COUNTERTHRUST	PTFE+25%CARBON
17	RING GASKET VALVE	NORYL GFN2
18	GASKET VALVE	RUBBER NBR
19	CAP VALVE	AISI 304
20	DELIVERY BOWL	AISI 304
21	SLEEVE	AISI 304
22	COVER CABLE	AISI 304
23	UPPER FLANGE	AISI 304
24	LOWER FLANGE	AISI 304
25	N.2 SCREW M4X10 FOR UPPER FLANGE	AISI 304
26	N.2 SCREW M4X10 FOR LOWER FLANGE	AISI 304
27	SCREW	AISI 304
28	N.2 SCREW M4X8 SUCTION STRAINER	AISI 304
29	RING FOR SUCTION CAGE	NORYL GFN2 + RING AISI 304

6-8-10LMG lines

Deepwell Borehole



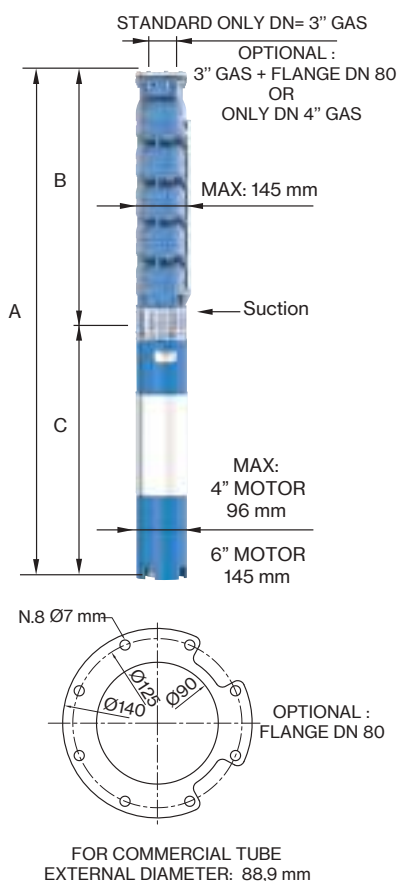
Submersible multistage centrifugal pumps for 6", 8", 10" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.

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/m ³



Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	360	480	600	720	840	960
			l/sec	0	6	8	10	12	14	16
	HP	kW	m³/h	0	21,6	28,8	36	43,2	50,4	57,6
6LMG 38/01	3	2,2	H[m]	21	17	16	14	13	11	7
6LMG 38/02	7,5	5,5		41	35	32	29	26	21	14
6LMG 38/03	10	7,5		62	52	48	43	39	32	22
6LMG 38/04	12,5	9,2		82	69	63	58	53	43	29
6LMG 38/05	15	11		103	86	79	72	66	53	36
6LMG 38/06	17,5	13		123	104	95	86	79	64	43
6LMG 38/07	20	15		144	121	111	101	92	75	50
6LMG 38/08	25	18,5		165	138	127	115	105	86	58
6LMG 38/09	30	22		185	156	143	130	118	96	65
6LMG 38/10	30	22		206	173	158	144	132	107	72
6LMG 38/11	35	26		226	190	174	158	145	118	79
6LMG 38/12	35	26		247	207	190	173	158	128	86
6LMG 38/13	40	30		267	225	206	187	171	139	94
6LMG 38/14	40	30		288	242	222	202	184	150	101
6LMG 38/15	50	37		309	259	238	216	197	160	108
6LMG 38/16	50	37		329	276	253	230	211	171	115
6LMG 38/17	50	37		350	294	269	245	224	182	122



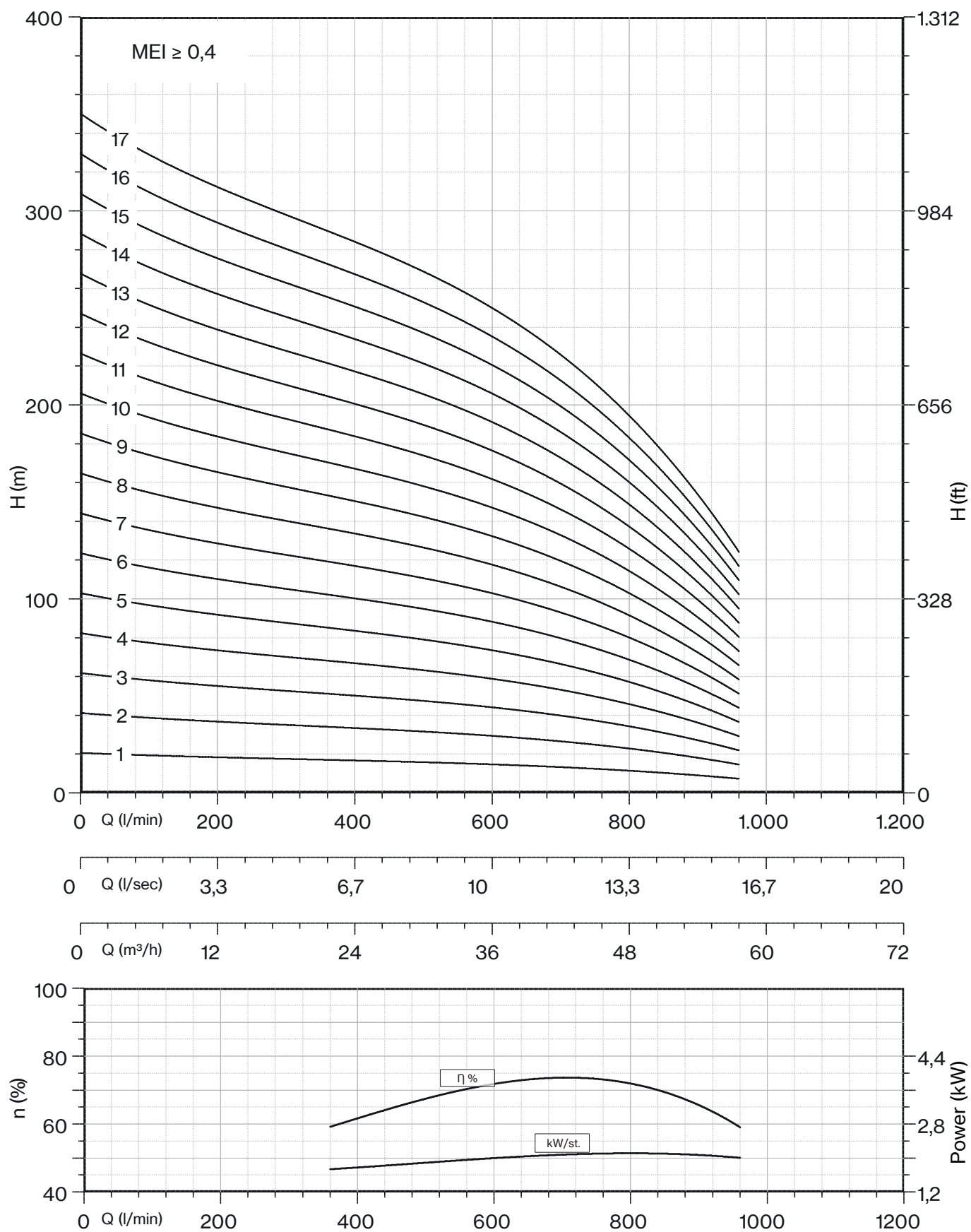
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LMG 38/01	846	394	452	15	11
6LMG 38/02	1193	495	698	27	15
6LMG 38/03	1297	596	701	55	19
6LMG 38/04	1448	697	751	60	23
6LMG 38/05	1609	798	811	65	28
6LMG 38/06	1740	899	841	70	32
6LMG 38/07	1931	1000	931	75	36
6LMG 38/08	2092	1101	991	83	40
6LMG 38/09	2273	1202	1071	92	44
6LMG 38/10	2374	1303	1071	92	48
6LMG 38/11	2585	1404	1181	100	52
6LMG 38/12	2686	1505	1181	100	56
6LMG 38/13	2857	1606	1251	108	60
6LMG 38/14	2958	1707	1251	108	64
6LMG 38/15	3149	1808	1341	118	69
6LMG 38/16	3250	1909	1341	118	73
6LMG 38/17	3351	2010	1341	118	77

Max Eff. % =	74
Max kW / St. =	2,11

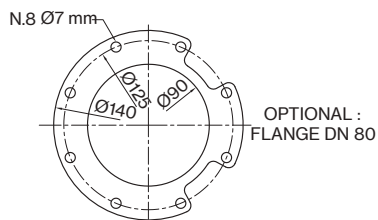
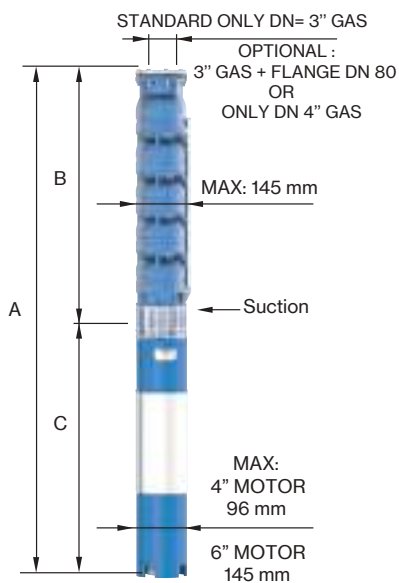
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	3,8	8



6LMG 38



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	480	600	720	840	960	1080	1200
			l/sec	0	8	10	12	14	16	18	20
	HP	kW	m³/h	0	28,8	36	43,2	50,4	57,6	64,8	72
6LMG 48/01	3	2,2	H[m]	19	15	15	14	12	10	8	5
6LMG 48/02	7,5	5,5		38	31	29	27	24	21	16	10
6LMG 48/03	10	7,5		58	46	44	41	37	31	24	14
6LMG 48/04	12,5	9,2		77	61	59	55	49	41	32	19
6LMG 48/05	17,5	13		96	77	73	68	61	52	40	24
6LMG 48/06	20	15		115	92	88	82	73	62	48	29
6LMG 48/07	25	18,5		134	108	102	96	86	72	55	34
6LMG 48/08	25	18,5		154	123	117	109	98	83	63	38
6LMG 48/09	30	22		173	138	132	123	110	93	71	43
6LMG 48/10	35	26		192	154	146	137	122	103	79	48
6LMG 48/11	35	26		211	169	161	150	135	114	87	53
6LMG 48/12	40	30		230	184	176	164	147	124	95	58
6LMG 48/13	40	30		250	200	190	178	159	134	103	62
6LMG 48/14	50	37		269	215	205	192	171	144	111	67
6LMG 48/15	50	37		288	230	220	205	184	155	119	72
6LMG 48/16	50	37		307	246	234	219	196	165	127	77



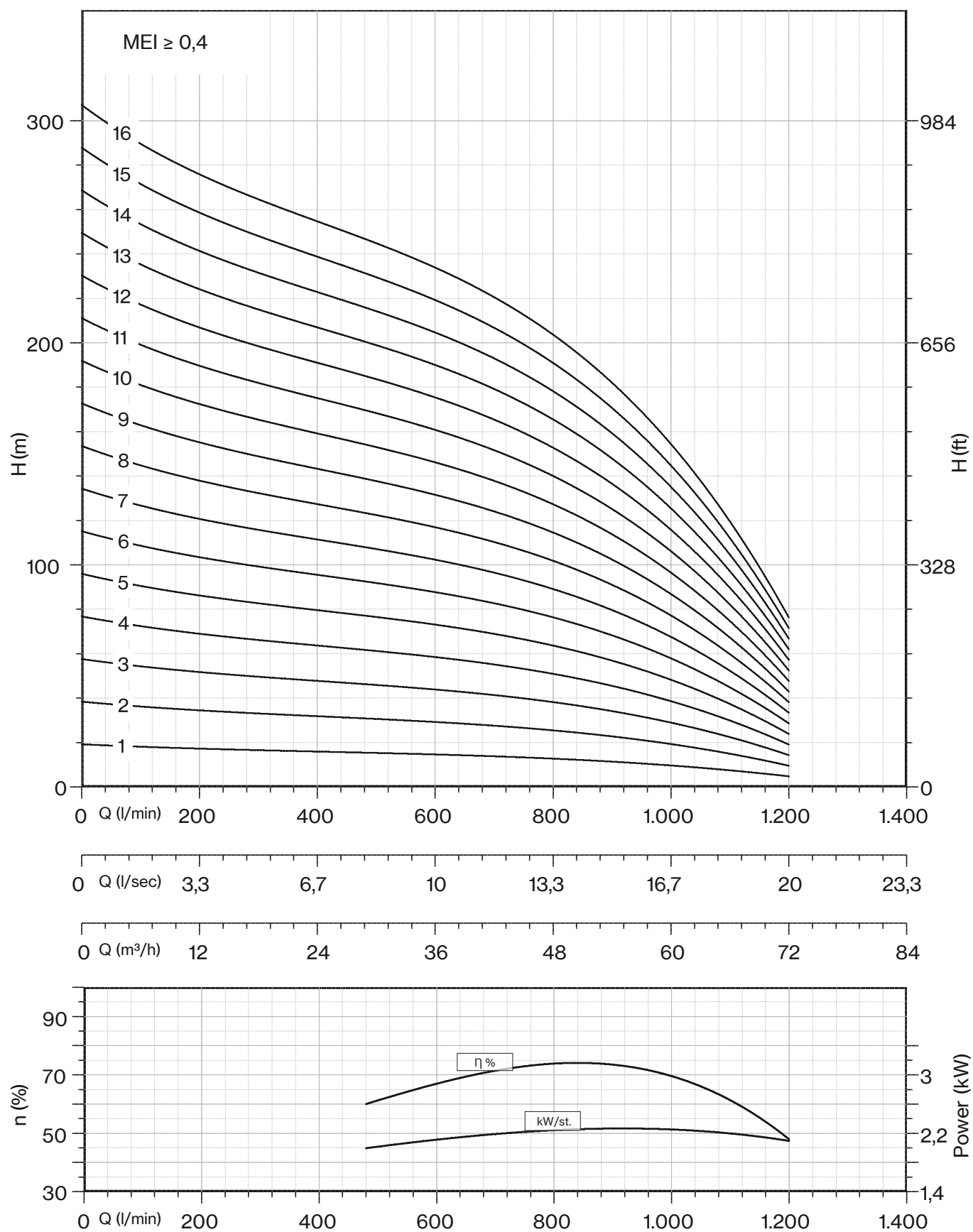
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LMG 48/01	846	394	452	15	11
6LMG 48/02	1193	495	698	27	15
6LMG 48/03	1297	596	701	55	19
6LMG 48/04	1448	697	751	60	23
6LMG 48/05	1639	798	841	70	28
6LMG 48/06	1830	899	931	75	32
6LMG 48/07	1991	1000	991	83	36
6LMG 48/08	2092	1101	991	83	40
6LMG 48/09	2273	1202	1071	92	44
6LMG 48/10	2484	1303	1181	100	48
6LMG 48/11	2585	1404	1181	100	52
6LMG 48/12	2756	1505	1251	108	56
6LMG 48/13	2857	1606	1251	108	60
6LMG 48/14	3048	1707	1341	118	64
6LMG 48/15	3149	1808	1341	118	69
6LMG 48/16	3250	1909	1341	118	73

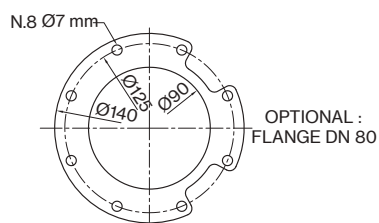
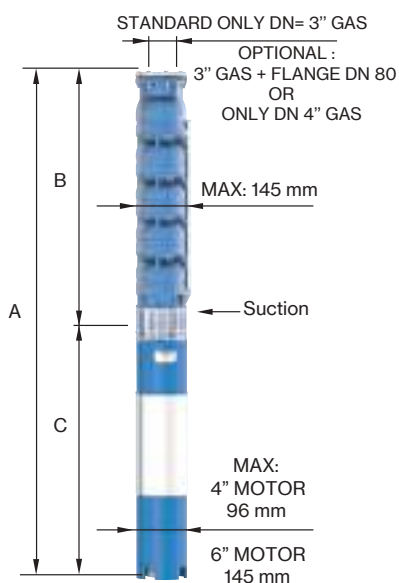
Max Eff. % =	74
Max kW / St. =	2,28

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,45	3,5	3,8	5





Motor 60 Hz - 3500 rpm			Q						
TYPE	Power		I/min	0	600	720	960	1200	1440
			I/sec	0	10	12	16	20	24
	HP	kW	m³/h	0	36	43,2	57,6	72	86,4
6LMG 60/01	4	3	H[m]	19	14,4	13,5	11	8	4
6LMG 60/02	7,5	5,5		37	29	27	23	17	7
6LMG 60/03	10	7,5		56	43	41	34	25	11
6LMG 60/04	15	11		75	58	54	46	34	15
6LMG 60/05	17,5	13		94	72	68	57	42	19
6LMG 60/06	20	15		112	86	81	69	51	22
6LMG 60/07	25	18,5		131	101	95	80	59	26
6LMG 60/08	30	22		150	115	108	92	68	30
6LMG 60/09	35	26		168	130	122	103	76	34
6LMG 60/10	35	26		187	144	135	114	85	37
6LMG 60/11	40	30		206	158	149	126	93	41
6LMG 60/12	40	30		225	173	162	137	102	45
6LMG 60/13	50	37		243	187	176	149	110	49
6LMG 60/14	50	37		262	202	190	160	119	52
6LMG 60/15	50	37		281	216	203	172	127	56



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EXTERNAL DIAMETER: 88,9 mm

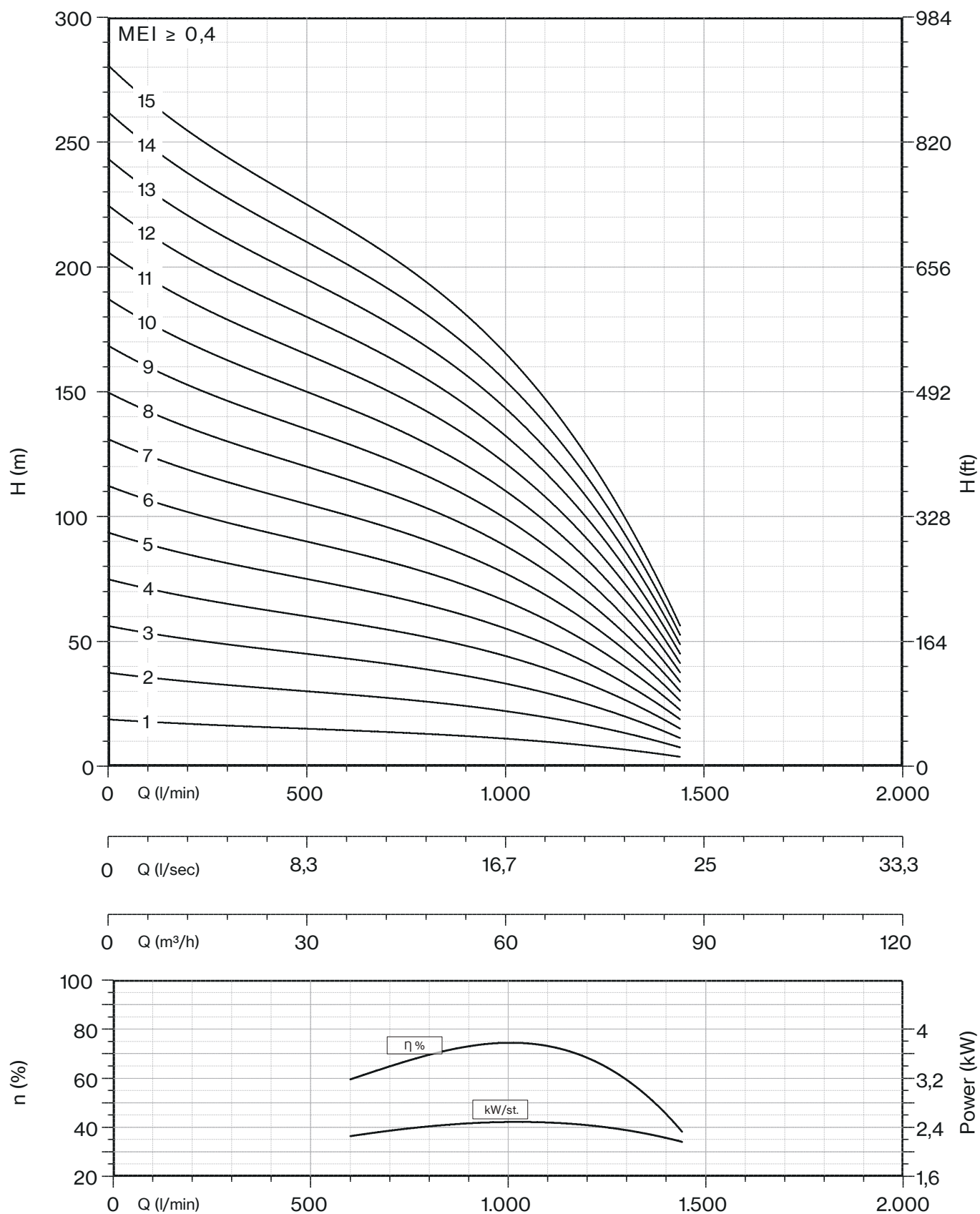
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LMG 60/01	957	400	557	19	12
6LMG 60/02	1205	507	698	27	16
6LMG 60/03	1315	614	701	55	21
6LMG 60/04	1532	721	811	65	25
6LMG 60/05	1669	828	841	70	30
6LMG 60/06	1866	935	931	75	34
6LMG 60/07	2033	1042	991	83	39
6LMG 60/08	2220	1149	1071	92	43
6LMG 60/09	2437	1256	1181	100	48
6LMG 60/10	2544	1363	1181	100	52
6LMG 60/11	2721	1470	1251	108	57
6LMG 60/12	2828	1577	1251	108	61
6LMG 60/13	3025	1684	1341	118	66
6LMG 60/14	3132	1791	1341	118	70
6LMG 60/15	3239	1898	1341	118	75

Max Eff. % =	73,6
Max kW / St. =	2,49

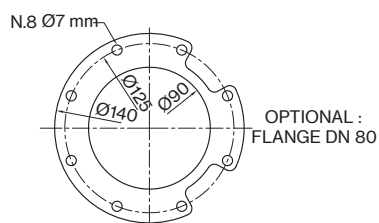
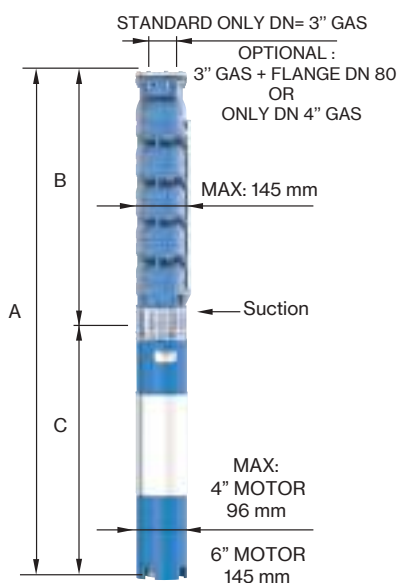
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,8	3,8	5,1	7,1



6LMG 60



Motor 60 Hz - 3500 rpm				Q					
TYPE	Power		l/min	0	720	960	1200	1440	1680
			l/sec	0	12	16	20	24	28
	HP	kW	m³/h	0	43,2	57,6	72	86,4	100,8
6LMG 70/01	4	3	H[m]	19	14	13	11	8	3
6LMG 70/02	10	7,5		37	28	25	22	16	6
6LMG 70/03	12,5	9,2		56	42	38	34	25	9
6LMG 70/04	17,5	13		75	56	51	45	33	12
6LMG 70/05	20	15		94	71	63	56	41	14
6LMG 70/06	25	18,5		112	85	76	67	49	17
6LMG 70/07	30	22		131	99	89	79	57	20
6LMG 70/08	35	26		150	113	101	90	66	23
6LMG 70/09	40	30		168	127	114	101	74	26
6LMG 70/10	40	30		187	141	127	112	82	29
6LMG 70/11	50	37		206	155	139	124	90	32
6LMG 70/12	50	37		225	169	152	135	98	35



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EXTERNAL DIAMETER: 88,9 mm

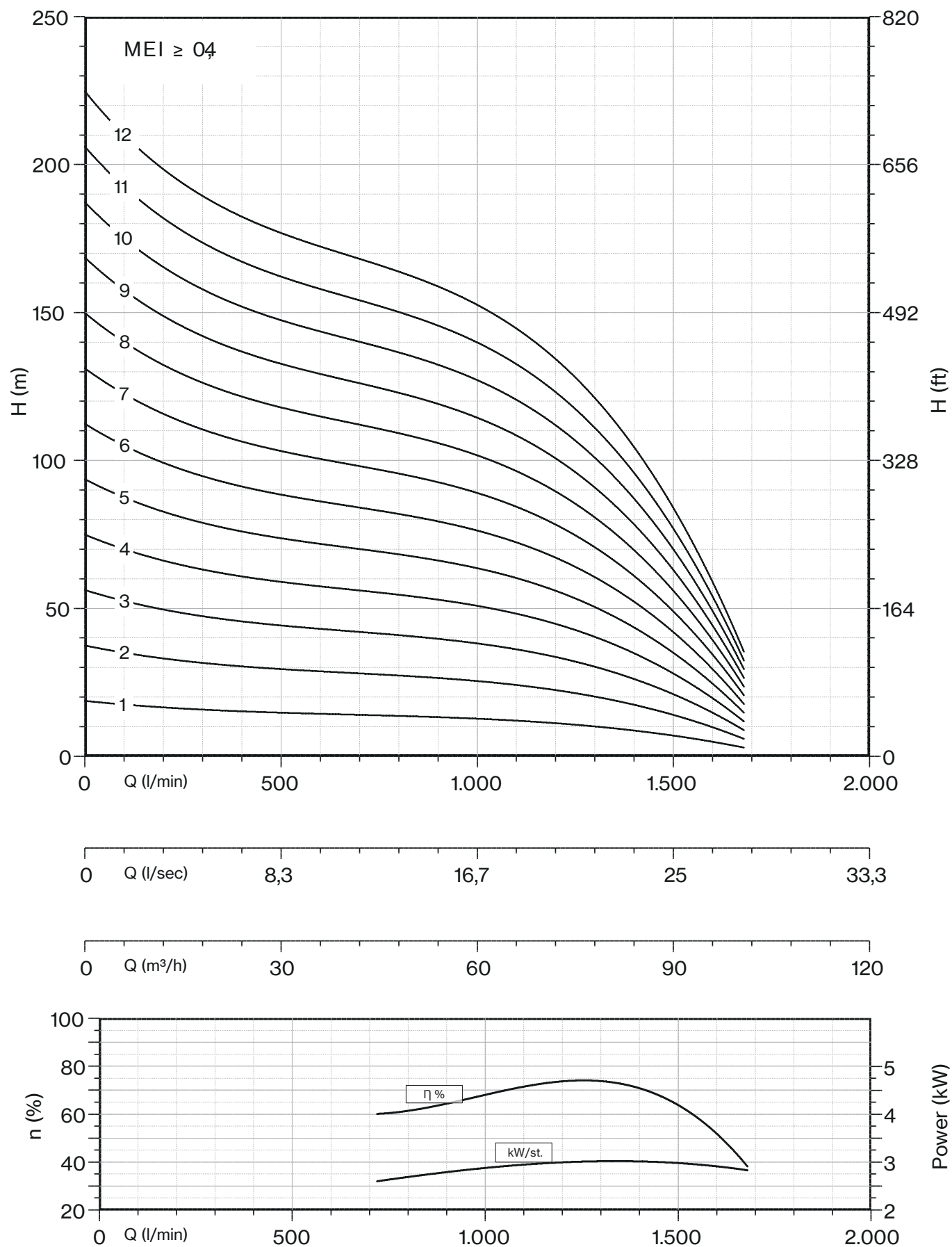
Motor 60 Hz 3500 rpm	Dimensions (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LMG 70/01	957	400	557	19	12
6LMG 70/02	1208	507	701	55	16
6LMG 70/03	1365	614	751	60	21
6LMG 70/04	1562	721	841	70	25
6LMG 70/05	1759	828	931	75	30
6LMG 70/06	1926	935	991	83	34
6LMG 70/07	2113	1042	1071	92	39
6LMG 70/08	2330	1149	1181	100	43
6LMG 70/09	2507	1256	1251	108	48
6LMG 70/10	2614	1363	1251	108	52
6LMG 70/11	2811	1470	1341	118	57
6LMG 70/12	2918	1577	1341	118	61

Max Eff. % =	74
Max kW / St. =	3

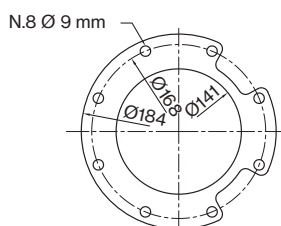
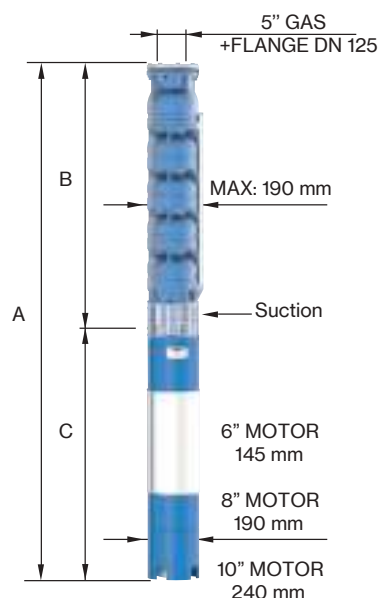
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,8	3,8	5,1	7,1



6LMG 70



Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	720	960	1200	1440	1680	1920
			l/sec	0	12	16	20	24	28	32
	HP	kW	m³/h	0	43,2	57,6	72	86,4	100,8	115,2
8LMG 80/01	12,5	9,2	H[m]	38	32	30	28	25	21	16
8LMG 80/02	25	18,5		76	64	60	56	50	42	32
8LMG 80/03	35	26		113	96	91	84	76	64	49
8LMG 80/04	50	37		151	128	121	112	101	85	65
8LMG 80/05	60	44		189	160	151	140	126	106	81
8LMG 80/06	75	55		227	192	181	167	151	127	97
8LMG 80/07	90	66		265	224	212	195	176	149	113
8LMG 80/08	100	75		302	256	242	223	202	170	130
8LMG 80/09	125	92		340	288	272	251	227	191	146
8LMG 80/10	125	92		378	320	302	279	252	212	162
8LMG 80/11	150	110		416	352	333	307	277	234	178
8LMG 80/12	150	110		454	384	363	335	302	255	194



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EXTERNAL DIAMETER: 139,7 mm

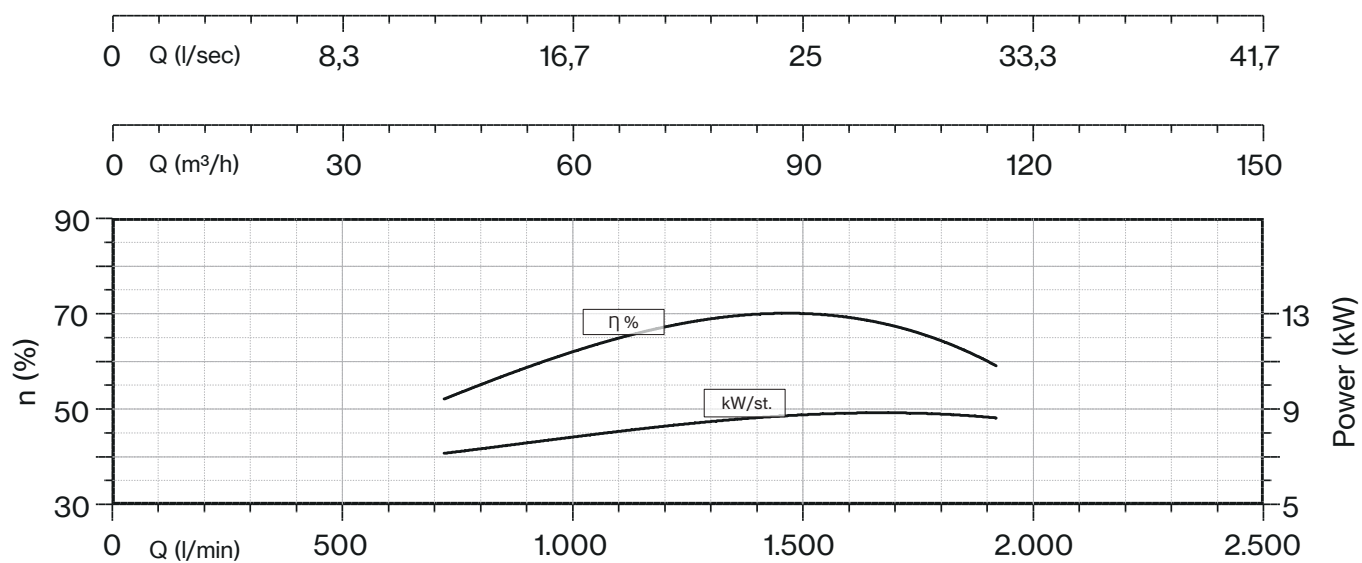
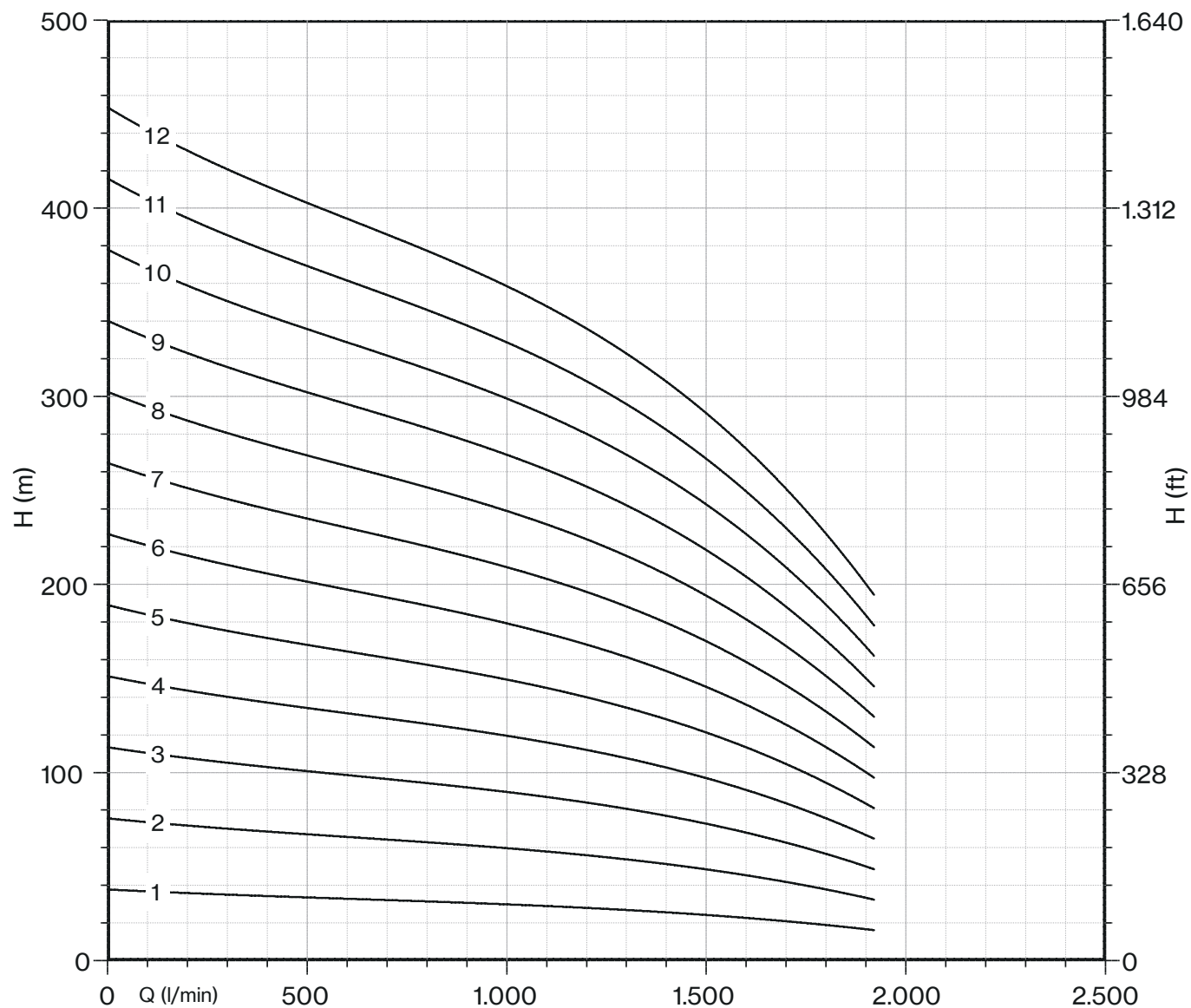
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LMG 80/01	1278	527	751	60	23
8LMG 80/02	1643	652	991	83	31
8LMG 80/03	1958	777	1181	100	39
8LMG 80/04	2243	902	1341	118	48
8LMG 80/05	2150	1027	1123	178	56
8LMG 80/06	2385	1152	1233	200	64
8LMG 80/07	2580	1277	1303	214	73
8LMG 80/08	2785	1402	1383	230	81
8LMG 80/09	3110	1527	1583	270	89
8LMG 80/10	3235	1652	1583	270	98
8LMG 80/11	3510	1777	1733	300	106
8LMG 80/12	3635	1902	1733	300	114

Max Eff. % =	70
Max kW / St. =	8,82

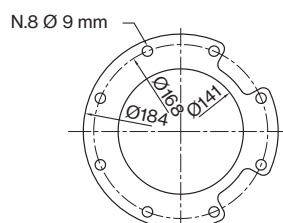
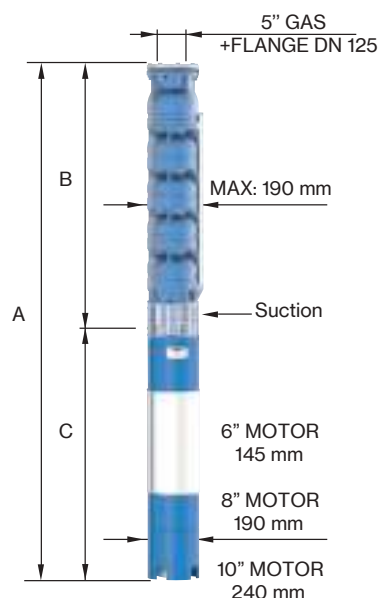
Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	3,5	4,5



8LMG 80



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	960	1200	1440	1680	1920	2160	2400
			l/sec	0	16	20	24	28	32	36	40
	HP	kW	m³/h	0	57,6	72	86,4	100,8	115,2	129,6	144
8LMG 92/01	15	11	H[m]	38	32	30	28	25	22	18	14
8LMG 92/02	30	22		76	64	60	56	50	44	36	28
8LMG 92/03	40	30		113	96	90	84	76	66	54	42
8LMG 92/04	60	45		151	127	120	112	101	88	72	56
8LMG 92/05	75	55		189	159	150	140	126	110	90	70
8LMG 92/06	90	66		227	191	180	168	151	132	108	84
8LMG 92/07	100	75		265	223	210	197	176	154	126	98
8LMG 92/08	125	92		302	255	240	225	202	176	144	112
8LMG 92/09	125	92		340	287	271	253	227	198	162	126
8LMG 92/10	150	110		378	319	301	281	252	220	180	140
8LMG 92/11	150	110		416	350	331	309	277	242	198	154



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

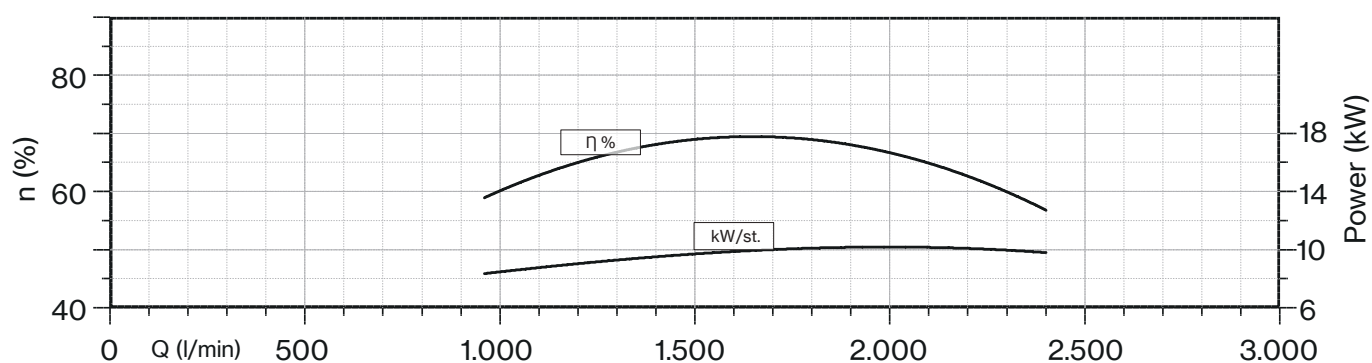
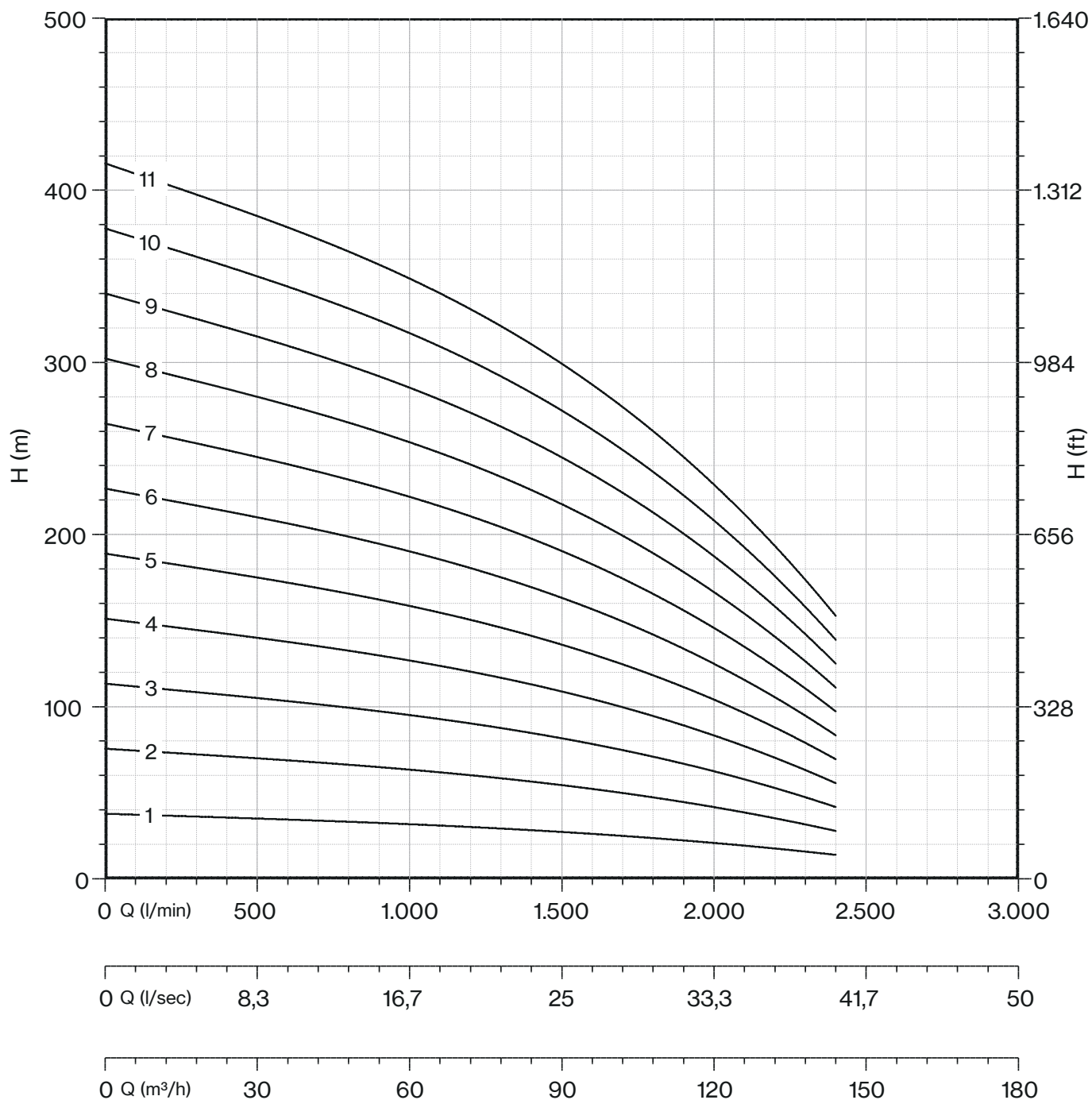
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LMG 92/01	1338	527	811	65	23
8LMG 92/02	1723	652	1071	92	31
8LMG 92/03	2028	777	1251	108	39
8LMG 92/04	2025	902	1123	178	48
8LMG 92/05	2260	1027	1233	200	56
8LMG 92/06	2455	1152	1303	214	64
8LMG 92/07	2660	1277	1383	230	73
8LMG 92/08	2985	1402	1583	270	81
8LMG 92/09	3110	1527	1583	270	89
8LMG 92/10	3385	1652	1733	300	98
8LMG 92/11	3510	1777	1733	300	106

Max Eff. % =	70
Max kW / St. =	10,2

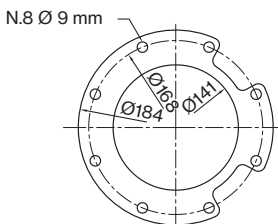
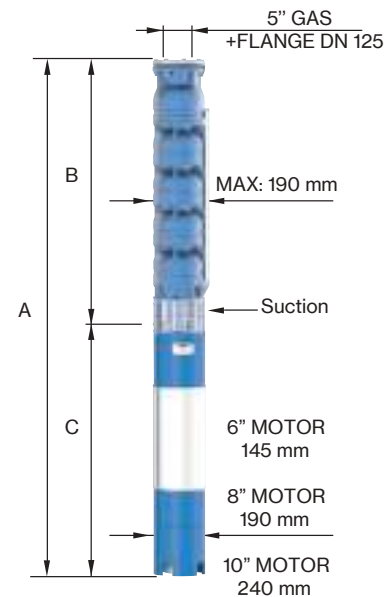
Q (flow)	25%	50%	75%	100%
NPSH (m)	3	4	5	8



8LMG 92



Motor 60 Hz - 3500 rpm			Q									
TYPE	Power		l/min	0	1200	1440	1680	1920	2160	2400	2640	2880
			l/sec	0	20	24	28	32	36	40	44	48
	HP	kW	m³/h	0	72	86,4	100,8	115,2	129,6	144	158,4	172,8
8LMG 110/01	17,5	13	H[m]	38	31	30	29	27	26	23	20	16
8LMG 110/02	35	26		76	63	60	58	55	51	46	40	32
8LMG 110/03	50	37		114	94	91	86	82	77	70	60	48
8LMG 110/04	75	55		151	126	121	115	109	102	93	80	64
8LMG 110/05	90	66		189	157	151	144	137	128	116	100	80
8LMG 110/06	100	75		227	189	181	173	164	153	139	120	96
8LMG 110/07	125	92		265	220	212	202	192	179	163	140	112
8LMG 110/08	150	110		303	252	242	230	219	204	186	160	128
8LMG 110/09	150	110		341	283	272	259	246	230	209	180	144



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

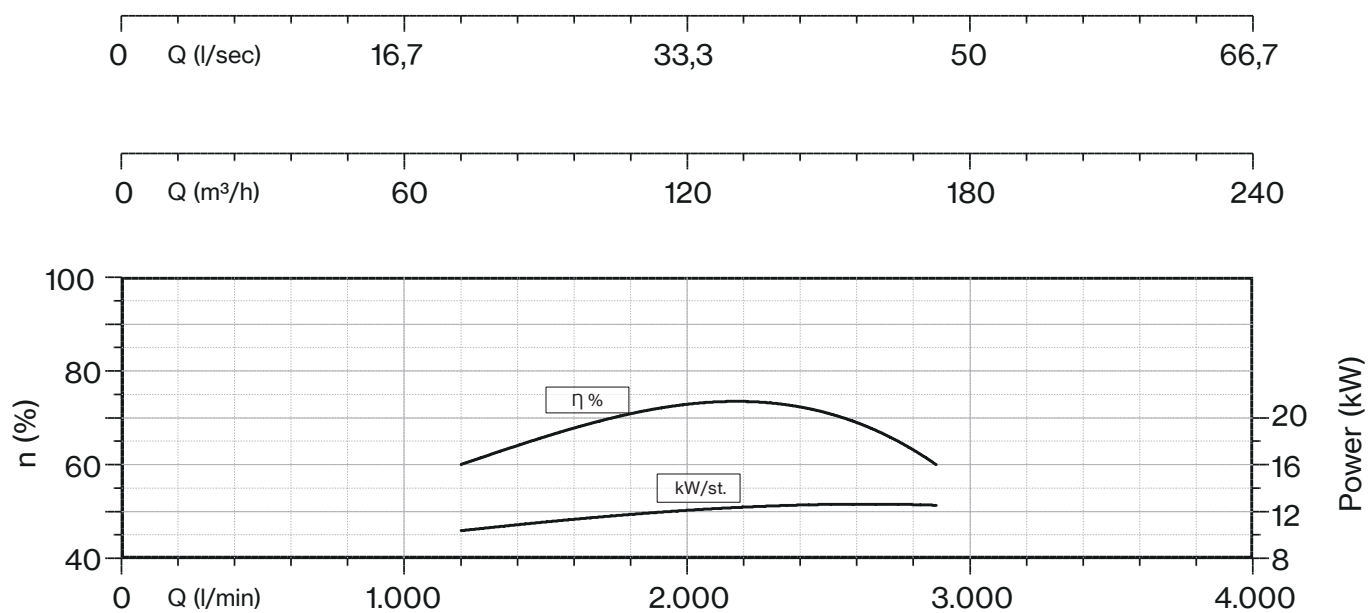
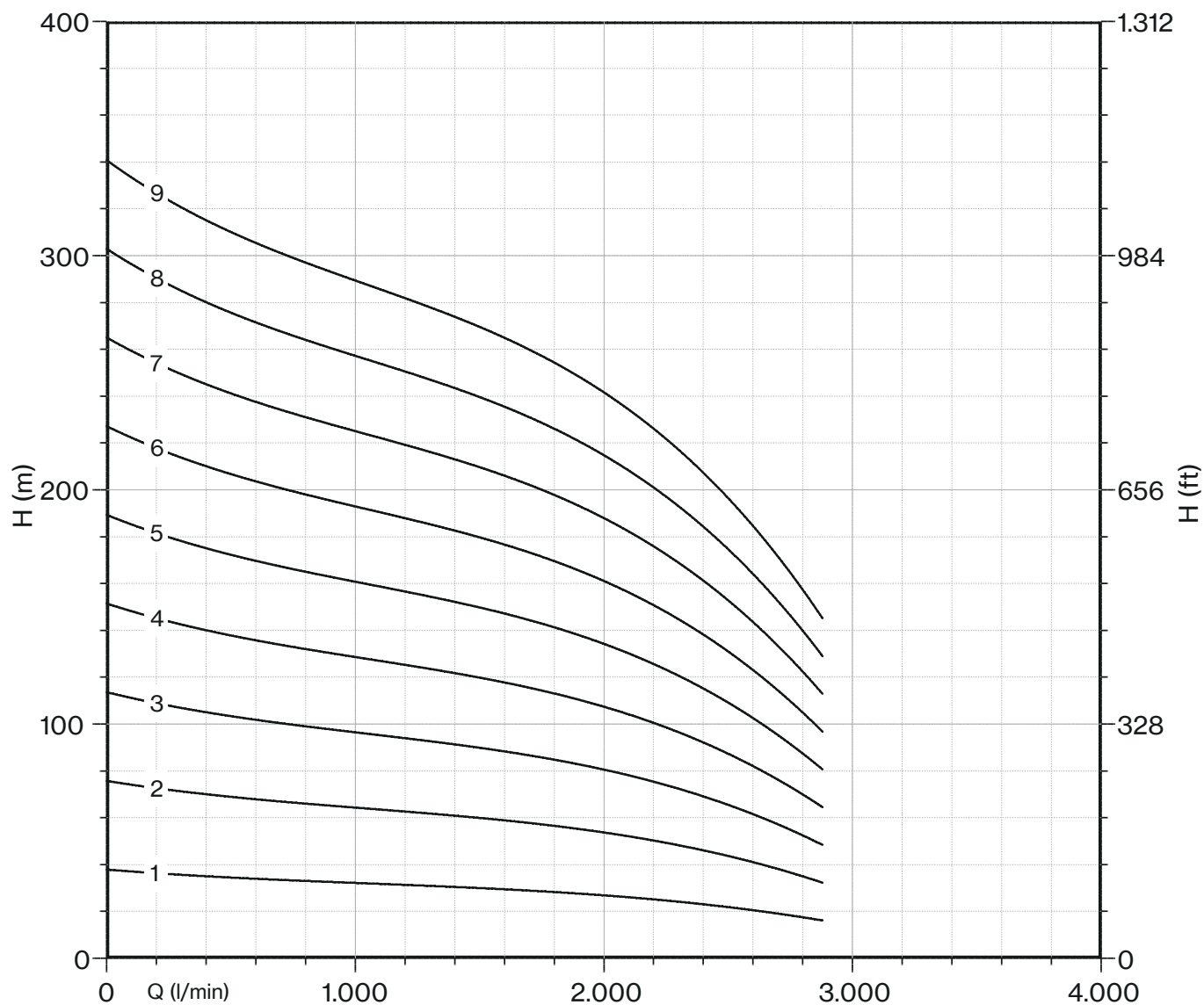
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LMG 110/01	1368	527	841	70	23
8LMG 110/02	1833	652	1181	100	32
8LMG 110/03	2118	777	1341	118	40
8LMG 110/04	2135	902	1233	200	49
8LMG 110/05	2330	1027	1303	214	58
8LMG 110/06	2535	1152	1383	230	66
8LMG 110/07	2860	1277	1583	270	75
8LMG 110/08	3135	1402	1733	300	83
8LMG 110/09	3260	1527	1733	300	92

Max Eff. % =	74
Max kW / St. =	12,6

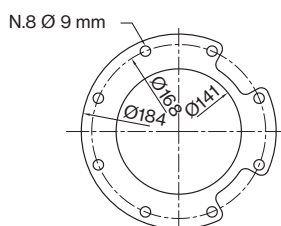
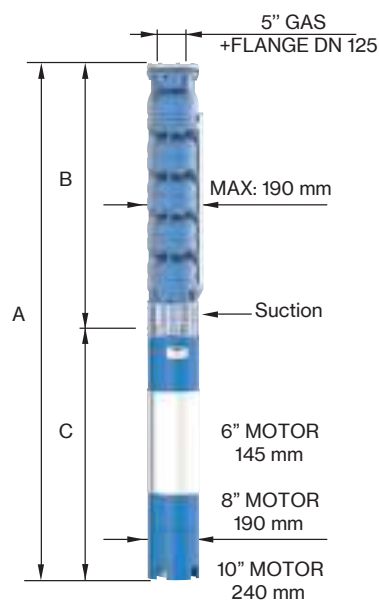
Q (flow)	25%	50%	75%	100%
NPSH (m)	2,5	3,5	4,5	8



8LMG 110



Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	1440	1680	1920	2160	2400	2640	2880	3120	3360
			l/sec	0	24	28	32	36	40	44	48	52	56
	HP	kW	m³/h	0	86,4	100,8	115,2	129,6	144	158,4	172,8	187,2	201,6
8LMG 130/01	17,5	13	H[m]	38	30	29	28	26	24	22	19	15	11
8LMG 130/02	35	26		76	61	58	55	52	49	44	39	31	22
8LMG 130/03	60	45		114	91	88	83	78	73	67	58	46	33
8LMG 130/04	75	55		152	122	117	110	105	97	89	77	62	44
8LMG 130/05	90	66		190	152	146	138	131	121	111	97	77	55
8LMG 130/06	125	92		228	183	175	165	157	146	133	116	93	65
8LMG 130/07	125	92		266	213	204	193	183	170	156	135	108	76
8LMG 130/08	150	110		304	244	234	221	209	194	178	155	123	87



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

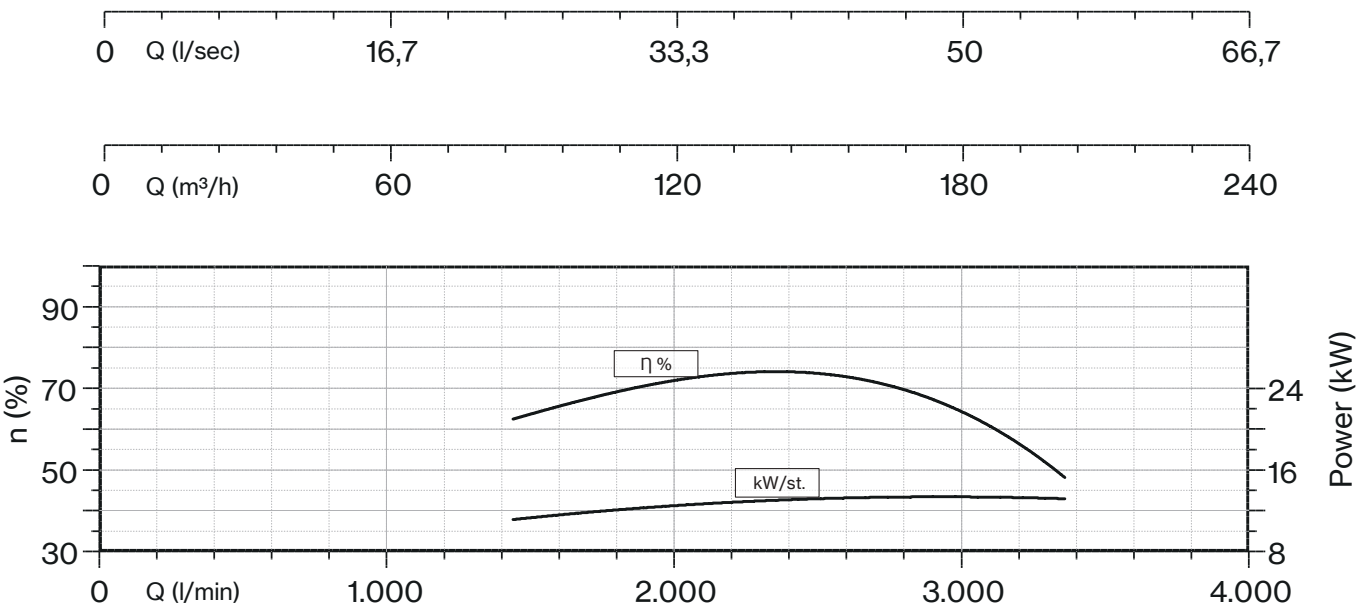
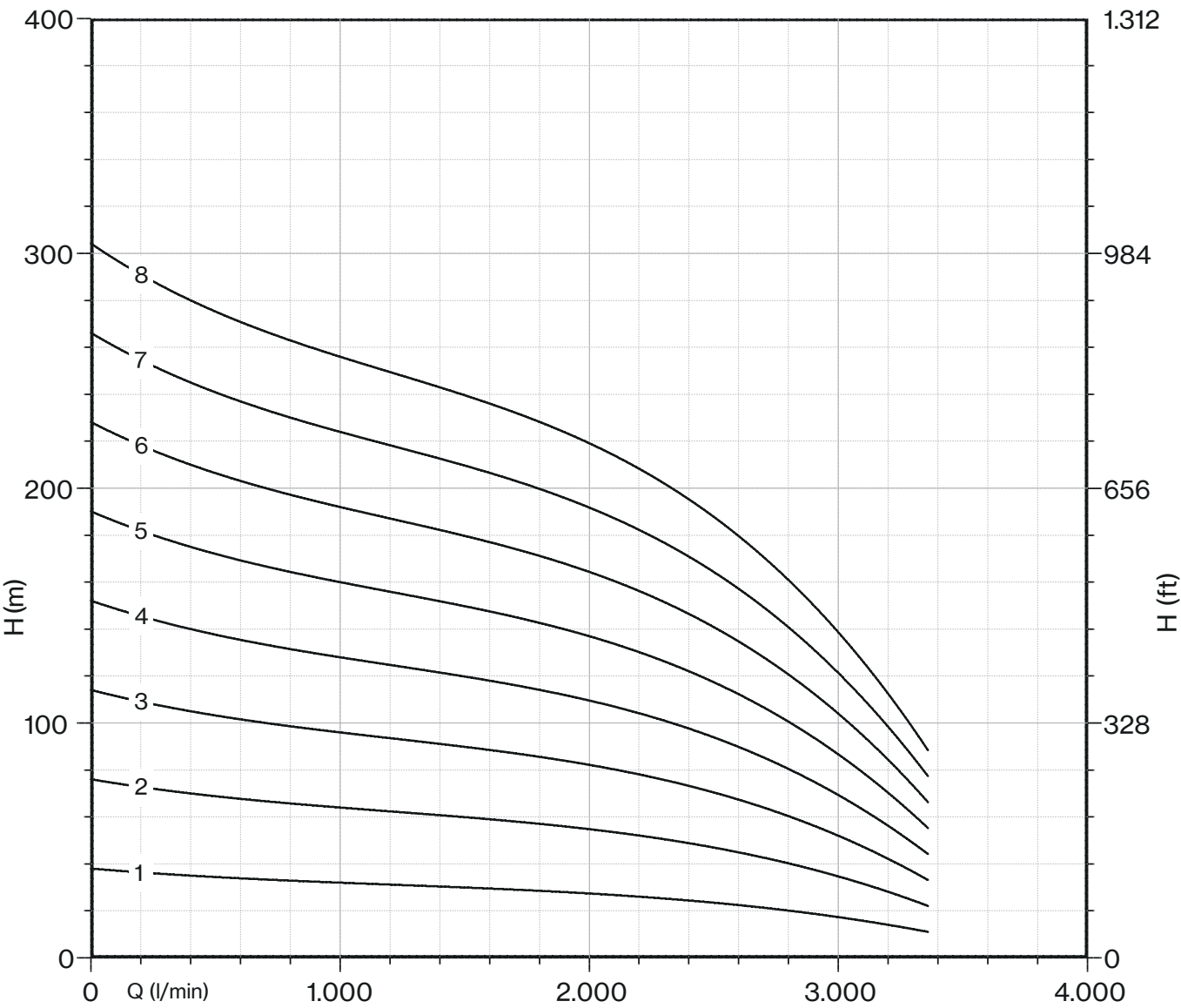
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LMG 130/01	1368	527	841	70	23
8LMG 130/02	1833	652	1181	100	32
8LMG 130/03	1900	777	1123	178	41
8LMG 130/04	2135	902	1233	200	49
8LMG 130/05	2330	1027	1303	214	58
8LMG 130/06	2735	1152	1583	270	67
8LMG 130/07	2860	1277	1583	270	75
8LMG 130/08	3135	1402	1733	300	84

Max Eff. % =	75
Max kW / St. =	13,3

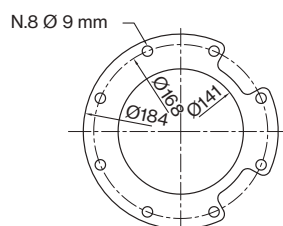
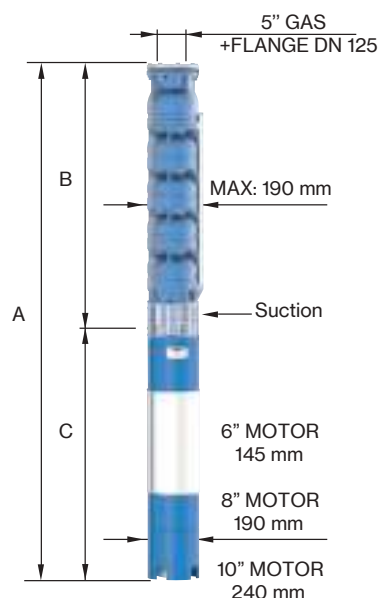
Q (flow)	25%	50%	75%	100%
NPSH (m)	2,5	3	5	9



8LMG 130



Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	1920	2160	2400	2640	2880	3120	3360	3600	3840
			l/sec	0	32	36	40	44	48	52	56	60	64
	HP	kW	m³/h	0	115,2	129,6	144	158,4	172,8	187,2	201,6	216	230,4
8LMG 160/01	20	15	H[m]	35	27	26	25	24	23	21	19	17	14
8LMG 160/02	40	30		70	55	52	50	47	45	43	39	35	29
8LMG 160/03	60	45		105	82	78	75	71	68	64	58	52	43
8LMG 160/04	90	66		140	109	104	100	95	91	86	77	69	58
8LMG 160/05	100	75		175	137	130	124	118	113	107	97	86	72
8LMG 160/06	125	92		210	164	156	149	142	136	128	116	104	86
8LMG 160/07	150	110		245	192	181	174	166	158	150	135	121	101



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

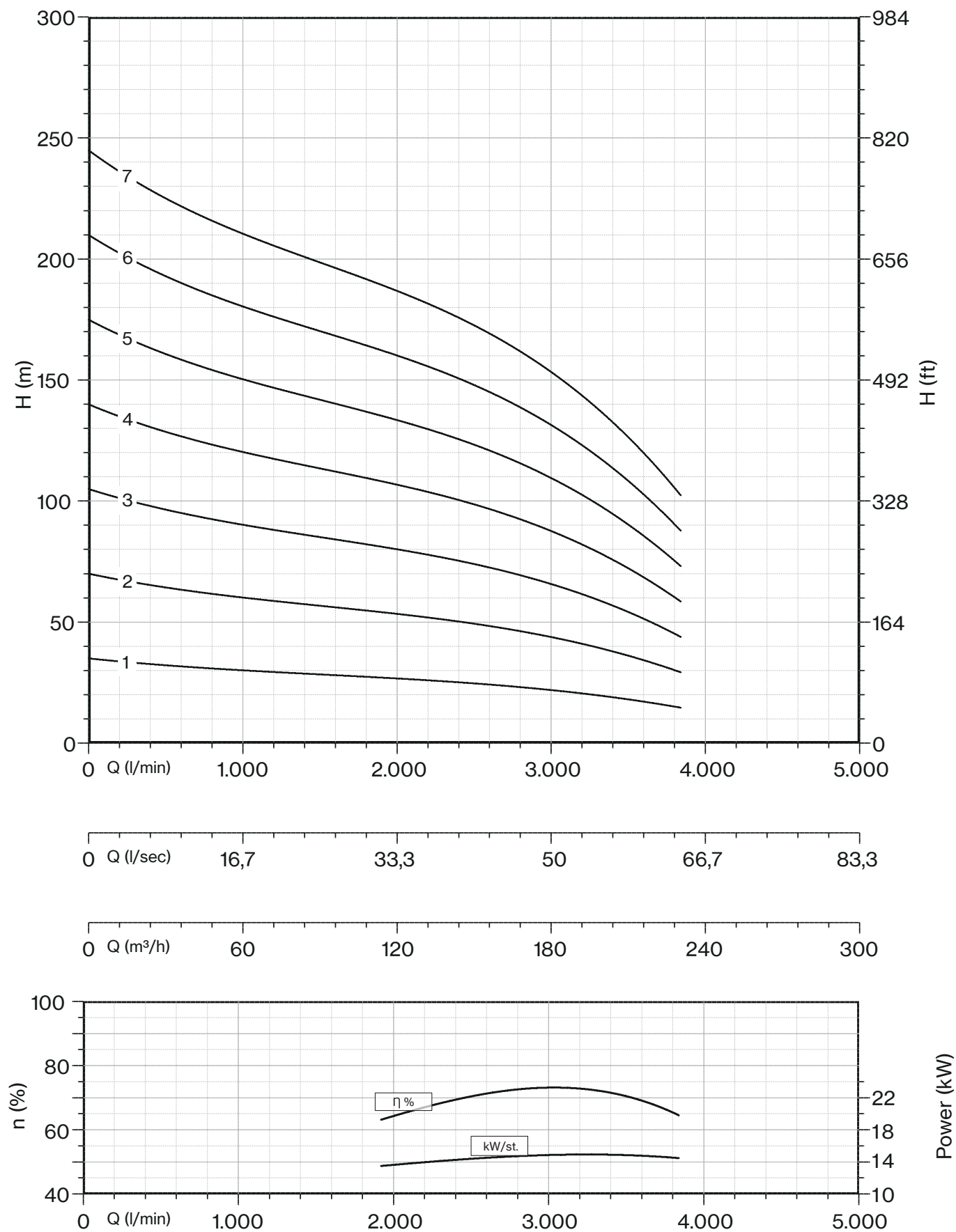
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LMG 160/01	1483	552	931	75	24
8LMG 160/02	1953	702	1251	108	33
8LMG 160/03	1975	852	1123	178	42
8LMG 160/04	2305	1002	1303	214	51
8LMG 160/05	2535	1152	1383	230	60
8LMG 160/06	2885	1302	1583	270	69
8LMG 160/07	3185	1452	1733	300	78

Max Eff. % =	74
Max kW / St. =	14,9

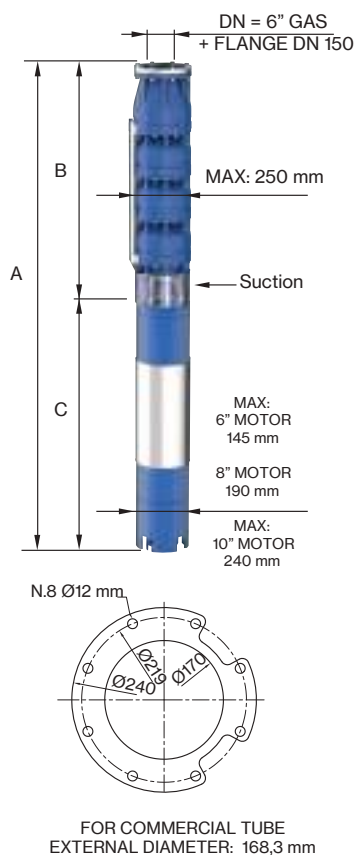
Q (flow)	25%	50%	75%	100%
NPSH (m)	4	4,5	7	13



8LMG 160



Motor 60 Hz - 3500 rpm				Q						
TYPE	Power		l/min	0	2160	2460	3120	3600	4080	4560
			l/sec	0	36	44	52	60	68	76
	HP	kW	m³/h	0	129,6	158,4	187,2	216	244,8	273,5
10LMG 190/01 DR 20	40	30	H[m]	47	42	40	36	34	29	23
10LMG 190/01 DR 10	40	30		53	48	45	41	39	32	26
10LMG 190/01	50	37		60	53	50	46	43	36	29
10LMG 190/02 DR 20	75	55		93	84	79	73	69	57	46
10LMG 190/02 DR 10	90	66		105	95	90	82	77	65	51
10LMG 190/02	90	66		120	107	101	92	86	72	58
10LMG 190/03 DR 20	125	92		140	126	119	109	103	86	68
10LMG 190/03 DR 10	125	92		158	143	135	124	116	97	77
10LMG 190/03	150	110		180	160	151	138	130	108	86
10LMG 190/04 DR 20	150	110		187	168	159	145	137	114	91
10LMG 190/04 DR 10	175	130		211	190	180	165	154	129	103
10LMG 190/04	200	150		240	213	202	184	173	144	115
10LMG 190/05 DR 20	200	150		233	210	199	181	171	143	114
10LMG 190/05 DR 10	225	165		264	238	225	206	193	161	128
10LMG 190/05	225	165		300	266	252	230	216	180	144
10LMG 190/06 DR 20	225	165		280	252	238	218	206	171	137
10LMG 190/06 DR 10	250	185		316	285	270	247	232	194	154
10LMG 190/06	300	220		359	320	302	276	259	216	173



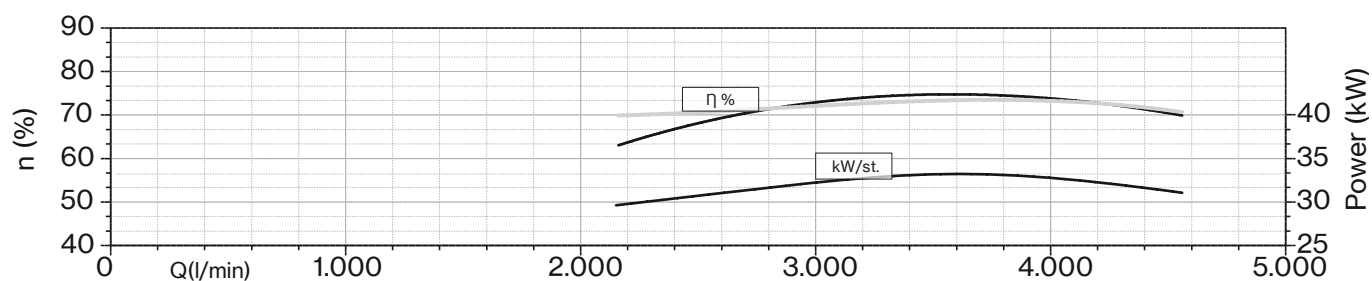
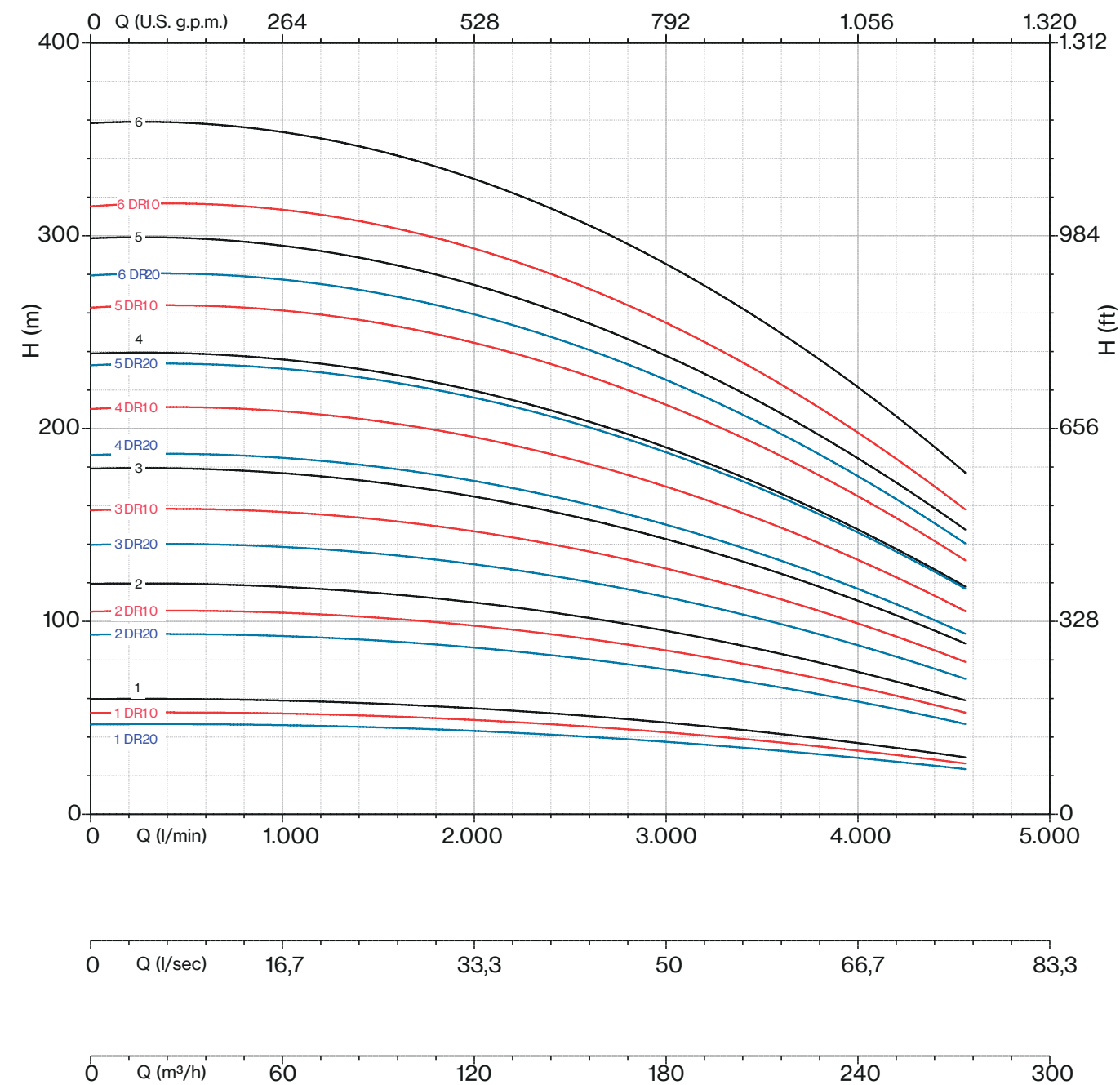
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LMG 190/01 DR 20	1618	625	993	150	50
10LMG 190/01 DR 10	1618	625	993	150	50
10LMG 190/01	1668	625	1043	160	50
10LMG 190/02 DR 20	2038	805	1233	200	68
10LMG 190/02 DR 10	2108	805	1303	214	68
10LMG 190/02	2108	805	1303	214	68
10LMG 190/03 DR 20	2568	985	1583	270	87
10LMG 190/03 DR 10	2568	985	1583	270	87
10LMG 190/03	2718	985	1733	300	87
10LMG 190/04 DR 20	2898	1165	1733	300	105
10LMG 190/04 DR 10	2799	1165	1634	385	105
10LMG 190/04	2899	1165	1734	415	105
10LMG 190/05 DR 20	3079	1345	1734	415	124
10LMG 190/05 DR 10	3199	1345	1854	444	124
10LMG 190/05	3199	1345	1854	444	124
10LMG 190/06 DR 20	3379	1525	1854	444	142
10LMG 190/06 DR 10	3509	1525	1984	480	142
10LMG 190/06	3635	1525	2110	700	142

Max Eff. % DR20 =	74
Max Eff. % DR10 =	75
Max Eff. % =	75,5
Max kW / St. DR20 =	27,2
Max kW / St. DR10 =	30,3
Max kW / St. =	33,6

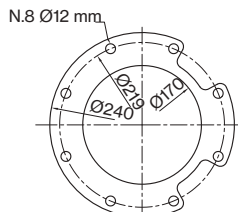
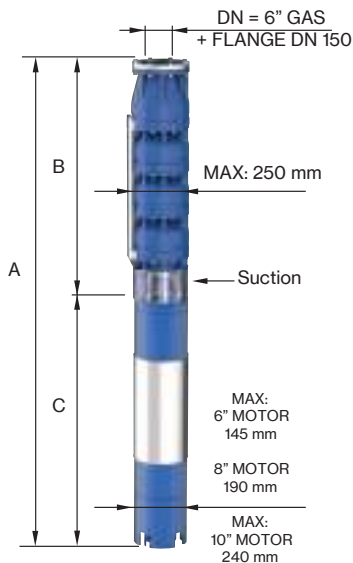
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,6	5,3	8,1	14



10LMG 190



Motor 60 Hz - 3500 rpm				Q							
TYPE	Power		I/min	0	2640	3120	3600	4080	4560	5040	5280
	HP	kW	I/sec	0	44	52	60	68	76	84	88
10LMG 230/01 DR 20	50	37	H[m]	49	42	40	37	34	32	27	24
10LMG 230/01 DR 10	50	37		55	48	45	42	39	36	31	25
10LMG 230/01	60	45		62	53	50	48	43	40	35	32
10LMG 230/02 DR 20	90	66		98	84	79	75	69	64	55	47
10LMG 230/02 DR 10	100	75		111	95	90	85	77	72	62	50
10LMG 230/02	125	92		124	107	101	95	86	81	69	63
10LMG 230/03 DR 20	125	92		147	126	119	112	103	96	82	71
10LMG 230/03 DR 10	150	110		166	143	135	127	116	108	92	75
10LMG 230/03	175	130		186	160	151	143	130	121	104	95
10LMG 230/04 DR 20	175	130		196	168	159	150	137	128	109	94
10LMG 230/04 DR 10	200	150		221	190	180	169	154	144	123	100
10LMG 230/04	225	165		248	213	202	190	173	161	138	127
10LMG 230/05 DR 20	225	165		245	210	199	187	171	160	137	118
10LMG 230/05 DR 10	250	185		276	238	225	212	193	180	154	125
10LMG 230/05	300	220		310	266	252	238	216	202	173	158
10LMG 230/06 DR 20	300	220		294	252	238	225	206	192	164	142
10LMG 230/06 DR 10	300	220		332	285	270	254	232	216	185	150
10LMG 230/06	340	250		372	320	302	285	259	242	207	190



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

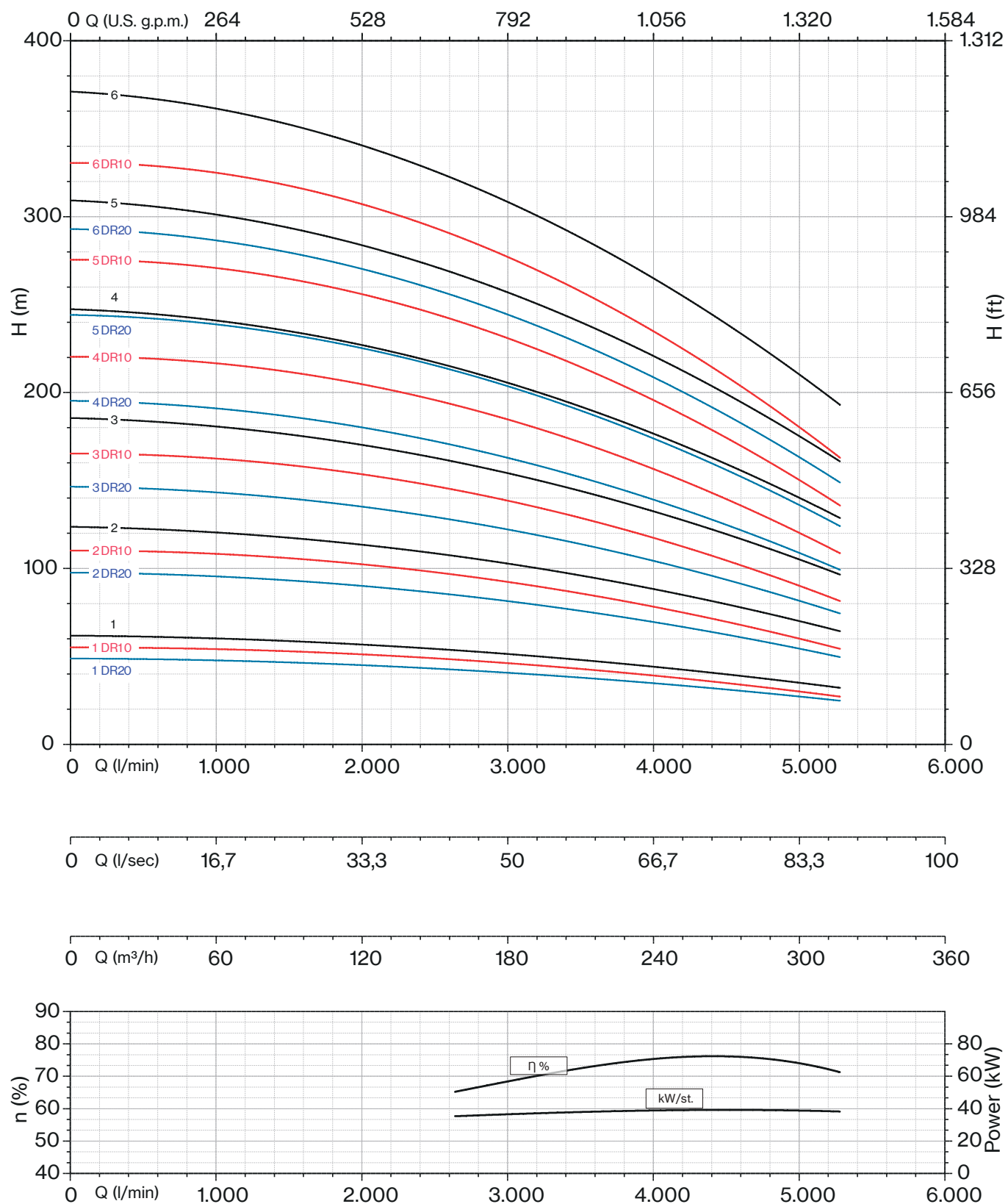
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LMG 230/01 DR 20	1668	625	1043	160	50
10LMG 230/01 DR 10	1668	625	1043	160	50
10LMG 230/01	1748	625	1123	178	50
10LMG 230/02 DR 20	2108	805	1303	214	68
10LMG 230/02 DR 10	2188	805	1383	230	68
10LMG 230/02	2388	805	1583	270	68
10LMG 230/03 DR 20	2568	985	1583	270	87
10LMG 230/03 DR 10	2718	985	1733	300	87
10LMG 230/03	2619	985	1634	385	87
10LMG 230/04 DR 20	2799	1165	1634	385	105
10LMG 230/04 DR 10	2899	1165	1734	415	105
10LMG 230/04	3019	1165	1854	444	105
10LMG 230/05 DR 20	3199	1345	1854	444	124
10LMG 230/05 DR 10	3329	1345	1984	480	124
10LMG 230/05	3455	1345	2110	700	124
10LMG 230/06 DR 20	3635	1525	2110	700	142
10LMG 230/06 DR 10	3635	1525	2110	700	142
10LMG 230/06	3805	1525	2280	775	142

Max Eff. % DR20 =	75,5
Max Eff. % DR10 =	76
Max Eff. % =	76,5
Max kW / St. DR20 =	35,5
Max kW / St. DR10 =	31,7
Max kW / St. =	39,8

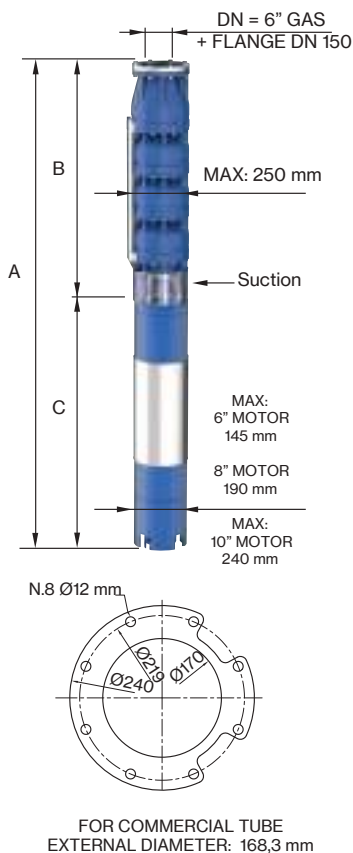
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,7	5,4	8,3	14,2



10LMG 230



Motor 60 Hz - 3500 rpm			Q									
TYPE	Power		l/min	0	2880	3360	3840	4320	4800	5280	5760	6000
			l/sec	0	48	56	64	72	80	88	96	100
	HP	kW	m³/h	0	172,8	201,6	230,4	259,1	287,9	316,8	345,5	359,9
10LMG 250/01 DR 20	50	37	H[m]	49	41	39	38	35	32	30	26	25
10LMG 250/01 DR 10	60	45		55	46	44	42	40	36	33	29	28
10LMG 250/01	60	45		62	52	49	48	45	40	37	33	32
10LMG 250/02 DR 20	100	75		98	82	78	75	71	64	59	52	50
10LMG 250/02 DR 10	125	92		111	92	88	85	79	72	67	59	56
10LMG 250/02	125	92		124	104	98	95	89	81	75	66	63
10LMG 250/03 DR 20	150	110		147	123	117	113	106	96	89	79	75
10LMG 250/03 DR 10	175	130		166	138	131	127	119	108	100	88	85
10LMG 250/03	200	150		186	156	147	143	134	121	112	99	95
10LMG 250/04 DR 20	225	165		196	164	156	151	142	128	119	105	100
10LMG 250/04 DR 10	225	165		221	184	175	169	159	144	134	118	113
10LMG 250/04	250	185		248	207	196	190	179	161	150	132	127
10LMG 250/05 DR 20	300	220		245	204	194	189	177	160	148	131	125
10LMG 250/05 DR 10	300	220		276	230	219	212	199	180	167	147	141
10LMG 250/05	340	250		310	259	245	238	223	202	187	166	158
10LMG 250/06 DR 20	340	250		294	245	233	226	213	192	178	157	150
10LMG 250/06 DR 10	340	250		332	276	263	254	238	216	200	176	169
10LMG 250/06	400	300		372	311	294	285	268	242	225	199	190



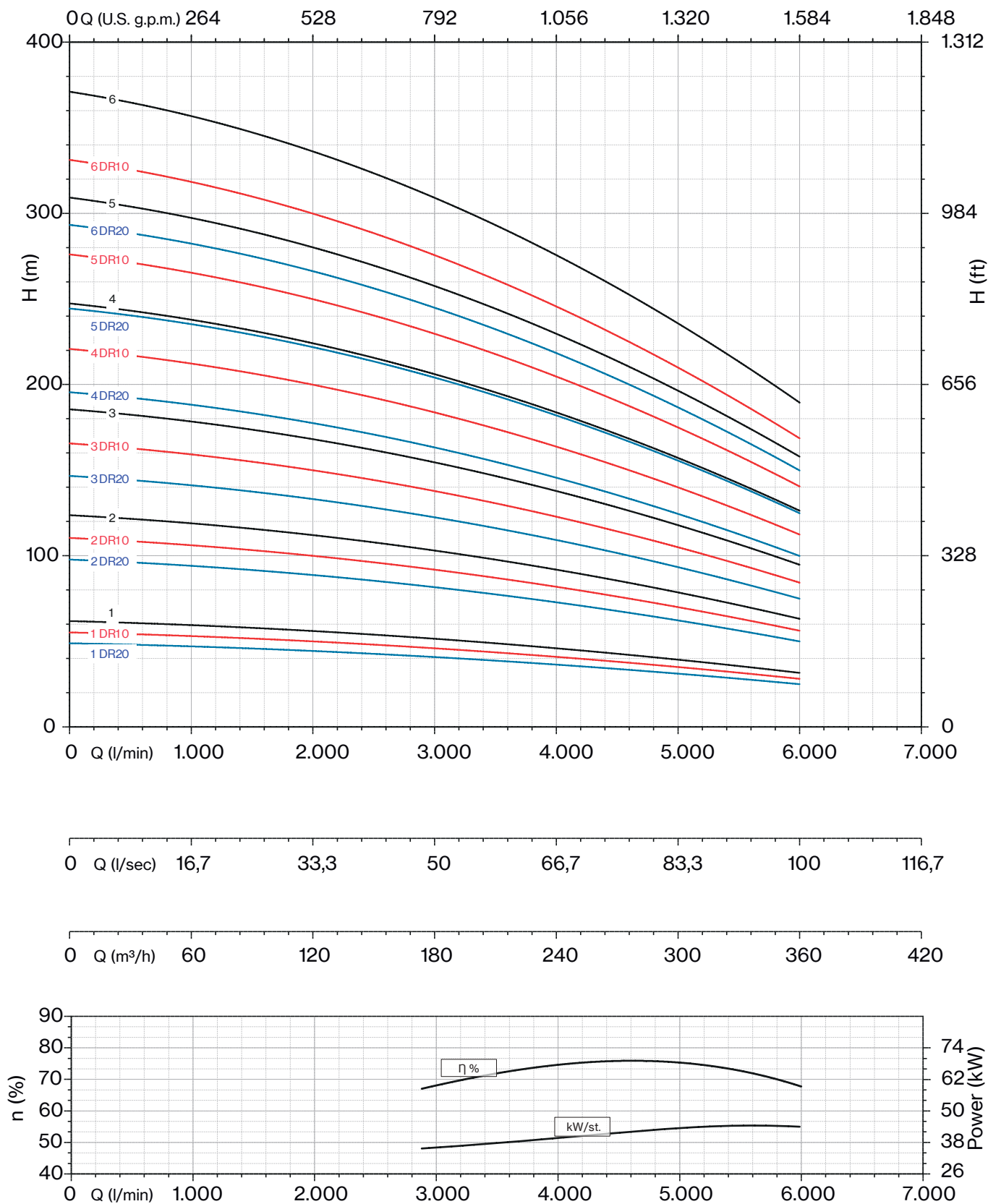
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LMG 250/01 DR 20	1668	625	1043	160	50
10LMG 250/01 DR 10	1748	625	1123	178	50
10LMG 250/01	1748	625	1123	178	50
10LMG 250/02 DR 20	2188	805	1383	230	68
10LMG 250/02 DR 10	2388	805	1583	270	68
10LMG 250/02	2388	805	1583	270	68
10LMG 250/03 DR 20	2718	985	1733	300	87
10LMG 250/03 DR 10	2619	985	1634	385	87
10LMG 250/03	2719	985	1734	415	87
10LMG 250/04 DR 20	3019	1165	1854	444	105
10LMG 250/04 DR 10	3019	1165	1854	444	105
10LMG 250/04	3149	1165	1984	480	105
10LMG 250/05 DR 20	3455	1345	2110	700	124
10LMG 250/05 DR 10	3455	1345	2110	700	124
10LMG 250/05	3625	1345	2280	775	124
10LMG 250/06 DR 20	3805	1525	2280	775	142
10LMG 250/06 DR 10	3805	1525	2280	775	142
10LMG 250/06	3805	1525	2280	775	142

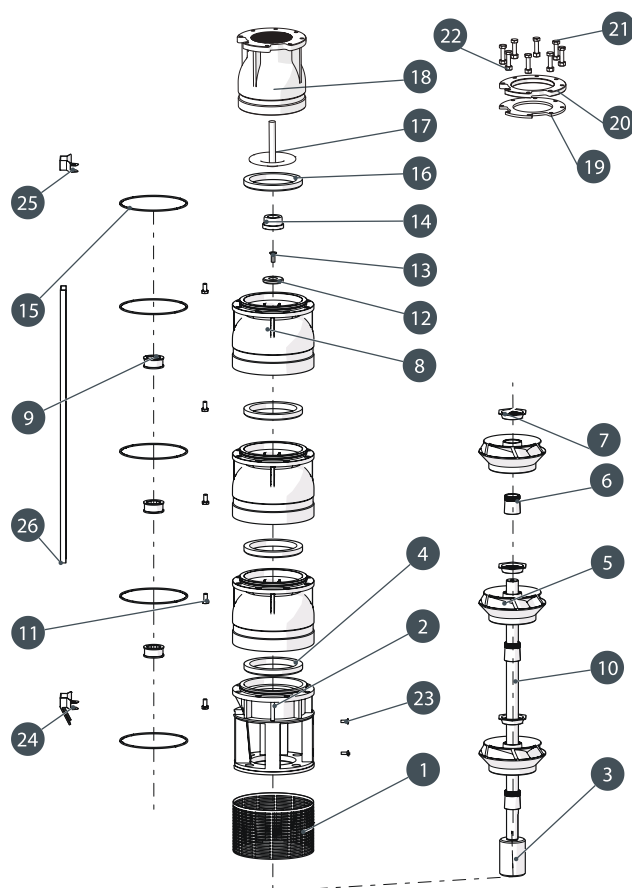
Max Eff. % DR20 =	75,5
Max Eff. % DR10 =	76
Max Eff. % =	76,5
Max kW / St. DR20 =	37,9
Max kW / St. DR10 =	40,7
Max kW / St. =	45,5

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,9	5,5	8,5	14,4



10LMG 250





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

6LR & 6LM lines

Deepwell Borehole



6LR line



6LM line



Submersible multistage centrifugal pumps for 6" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural. All components are made of stainless steel with lost wax Microfusion technology. The standard material is AISI 304 stainless steel, alternatively the following materials are available on request: AISI 316 Steel, Duplex steel, AISI 904L Steel. Bushing bearings and wear-rings made of sand abrasion-resistant rubber, reverse-Thrust ring in PTFE/Graphite.

General operating data:

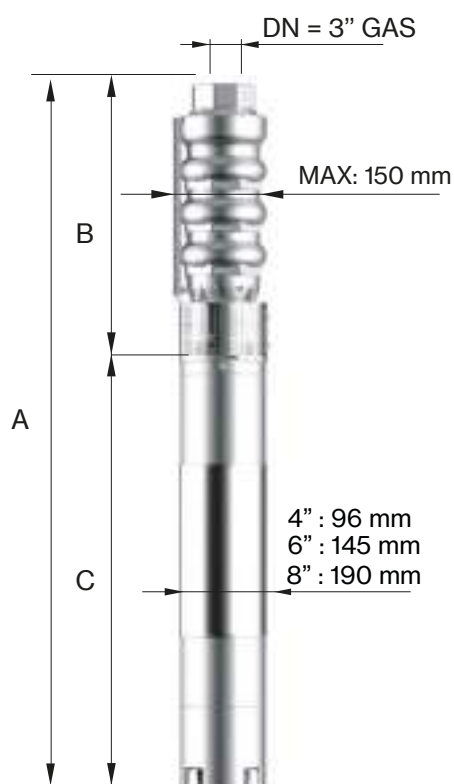
- Capacity up to 108 m³/h
- Pressure up to 522 m
- Hydraulic efficiency 6", up to 78,5%
- Pressure up to 50 bar
- Powers up to 37 kW
- Rotation speed up to 3.600 rpm
- Maximum depth: 350 m
- Maximum quantity of permitted sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI >= 0,4 (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B

Construction features

Suction and delivery outlet	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Valve	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Impellers and diffusers	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Quantity of sand in the water	max 100 g/m ³



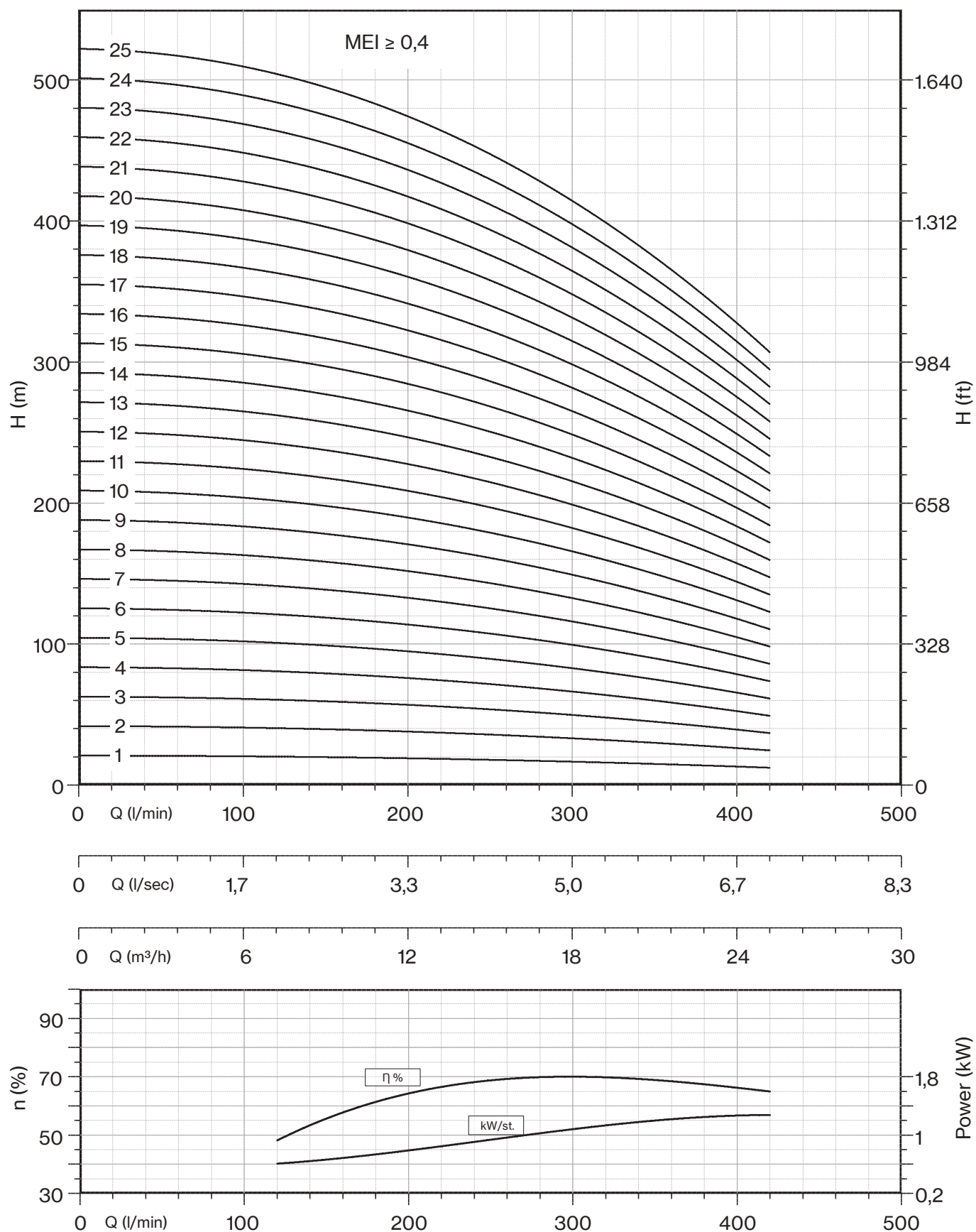
Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	120	180	240	300	360	420
	HP	kW	l/sec	0	2	3	4	5	6	7
			m ³ /h	0	7,2	10,8	14,4	18	21,6	25,2
6LR 14/01	2	1,5	H[m]	21	20	19	18	17	15	12
6LR 14/02	4	3		42	40	39	36	33	29	24
6LR 14/03	5,5	4		63	60	58	54	50	44	37
6LR 14/04	7,5	5,5		84	81	78	72	66	59	49
6LR 14/05	10	7,5		104	101	97	90	83	74	61
6LR 14/06	10	7,5		125	121	117	108	99	88	73
6LR 14/07	12,5	9,2		146	141	136	126	116	103	86
6LR 14/08	15	11		167	161	156	144	132	118	98
6LR 14/09	17,5	13		188	181	175	162	149	132	110
6LR 14/10	17,5	13		209	202	194	180	166	147	122
6LR 14/11	20	15		230	222	214	198	182	162	135
6LR 14/12	25	18,5		251	242	233	216	199	177	147
6LR 14/13	25	18,5		271	262	253	234	215	191	159
6LR 14/14	25	18,5		292	282	272	252	232	206	171
6LR 14/15	30	22		313	302	292	270	248	221	184
6LR 14/16	30	22		334	323	311	288	265	236	196
6LR 14/17	30	22		355	343	330	306	282	250	208
6LR 14/18	35	26		376	363	350	324	298	265	220
6LR 14/19	35	26		397	383	369	342	315	280	233
6LR 14/20	35	26		418	403	389	360	331	294	245
6LR 14/21	40	30		438	423	408	378	348	309	257
6LR 14/22	40	30		459	444	428	396	364	324	269
6LR 14/23	40	30		480	464	447	414	381	339	282
6LR 14/24	50	37		501	484	467	432	397	353	294
6LR 14/25	50	37		522	504	486	450	414	368	306



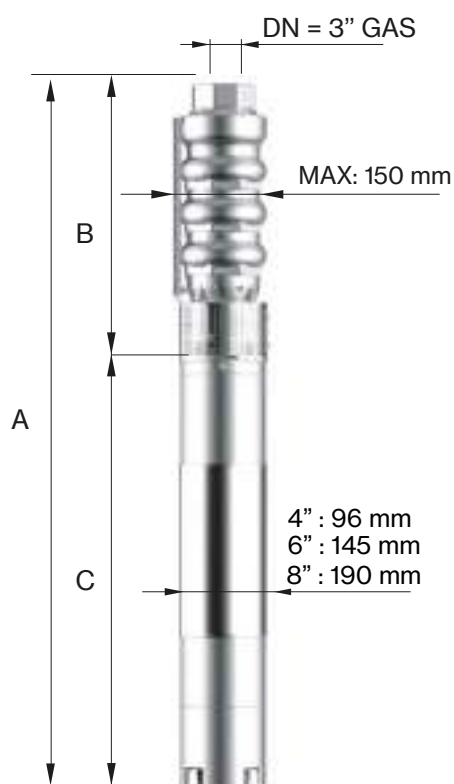
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LR 14/01	694	302	392	13	10
6LR 14/02	926	369	557	19	14
6LR 14/03	1033	436	597	22	17
6LR 14/04	1201	503	698	27	21
6LR 14/05	1271	570	701	55	25
6LR 14/06	1338	637	701	55	28
6LR 14/07	1455	704	751	60	32
6LR 14/08	1582	771	811	65	35
6LR 14/09	1679	838	841	70	39
6LR 14/10	1746	905	841	70	43
6LR 14/11	1903	972	931	75	46
6LR 14/12	2030	1039	991	83	50
6LR 14/13	2097	1106	991	83	53
6LR 14/14	2164	1173	991	83	57
6LR 14/15	2311	1240	1071	92	61
6LR 14/16	2378	1307	1071	92	64
6LR 14/17	2445	1374	1071	92	68
6LR 14/18	2622	1441	1181	100	71
6LR 14/19	2689	1508	1181	100	75
6LR 14/20	2756	1575	1181	100	79
6LR 14/21	2893	1642	1251	108	82
6LR 14/22	2960	1709	1251	108	86
6LR 14/23	3027	1776	1251	108	89
6LR 14/24	3184	1843	1341	118	93
6LR 14/25	3251	1910	1341	118	97

Max Eff. % =	71
Max kW / St. =	1,28

Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	46	



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	180	240	300	360	420	480	540
			l/sec	0	3	4	5	6	7	8	9
	HP	kW	m³/h	0	10,8	14,4	18	21,6	25,2	28,8	32,4
6LR 20/01	3	2,2	H[m]	22	20	20	19	18	16	13	11
6LR 20/02	4	3		45	41	40	38	35	32	27	21
6LR 20/03	7,5	5,5		67	61	60	57	53	48	40	32
6LR 20/04	10	7,5		89	81	80	76	71	63	54	42
6LR 20/05	12,5	9,2		112	102	100	95	89	79	67	53
6LR 20/06	15	11		134	122	119	114	106	95	80	63
6LR 20/07	15	11		157	142	139	133	124	111	94	74
6LR 20/08	17,5	13		179	163	159	152	142	127	107	84
6LR 20/09	20	15		201	183	179	171	159	143	120	95
6LR 20/10	25	18,5		224	203	199	190	177	158	134	105
6LR 20/11	25	18,5		246	224	219	209	195	174	147	116
6LR 20/12	30	22		268	244	239	228	212	190	161	126
6LR 20/13	30	22		291	264	259	247	230	206	174	137
6LR 20/14	30	22		313	285	279	266	248	222	187	147
6LR 20/15	35	26		335	305	299	285	266	238	201	158
6LR 20/16	35	26		358	325	318	304	283	253	214	168
6LR 20/17	40	30		380	346	338	323	301	269	228	179
6LR 20/18	40	30		403	366	358	342	319	285	241	189
6LR 20/19	40	30		425	386	378	361	336	301	254	200
6LR 20/20	50	37		447	407	398	379	354	317	268	210
6LR 20/21	50	37		470	427	418	398	372	333	281	221
6LR 20/22	50	37		492	447	438	417	389	348	294	231
6LR 20/23	50	37		514	468	458	436	407	364	308	242



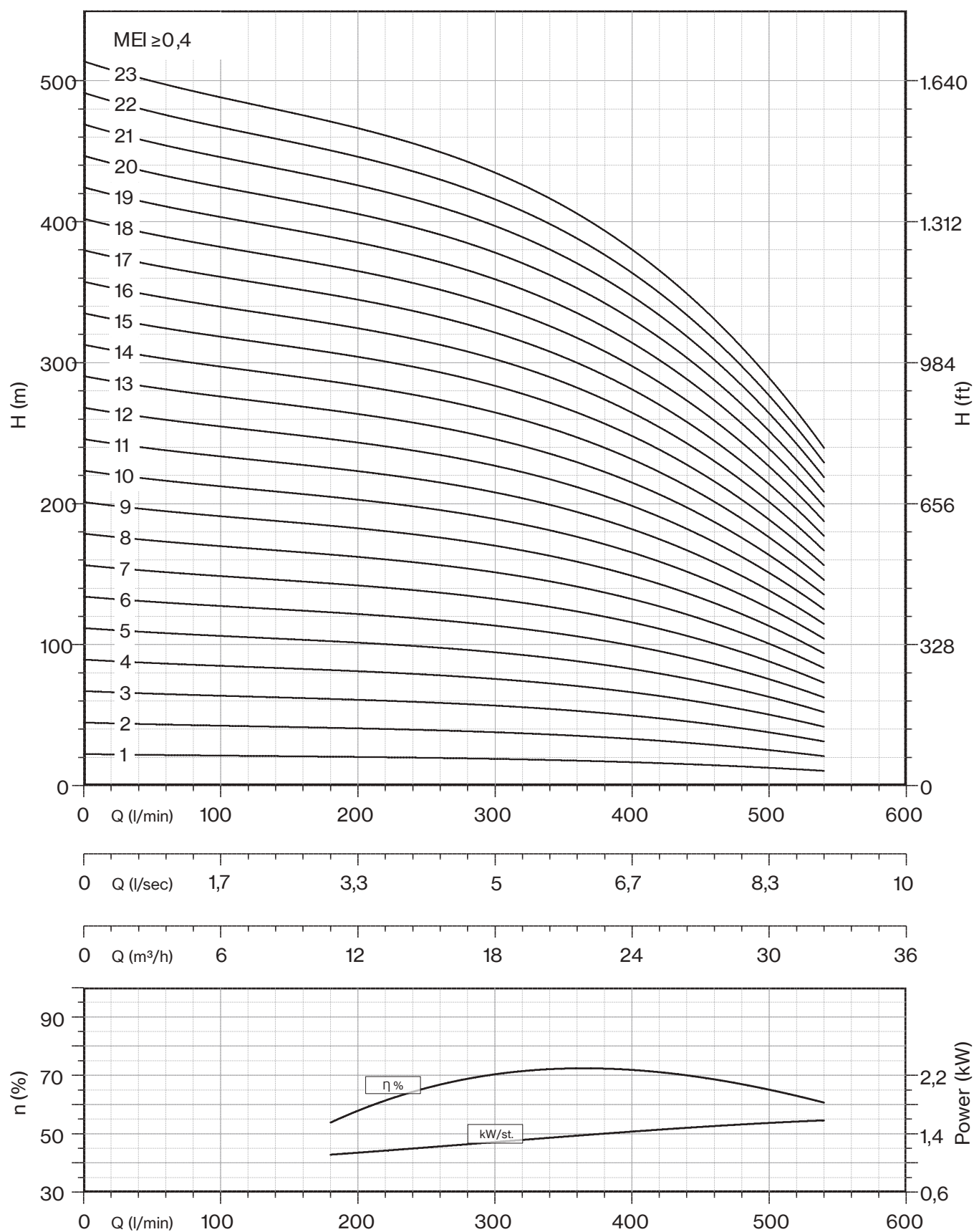
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LR 20/01	754	302	452	15	10
6LR 20/02	926	369	557	19	14
6LR 20/03	1134	436	698	27	17
6LR 20/04	1204	503	701	55	21
6LR 20/05	1321	570	751	60	25
6LR 20/06	1448	637	811	65	28
6LR 20/07	1515	704	811	65	32
6LR 20/08	1612	771	841	70	35
6LR 20/09	1769	838	931	75	39
6LR 20/10	1896	905	991	83	43
6LR 20/11	1963	972	991	83	46
6LR 20/12	2110	1039	1071	92	50
6LR 20/13	2177	1106	1071	92	53
6LR 20/14	2244	1173	1071	92	57
6LR 20/15	2421	1240	1181	100	61
6LR 20/16	2488	1307	1181	100	64
6LR 20/17	2625	1374	1251	108	68
6LR 20/18	2692	1441	1251	108	71
6LR 20/19	2759	1508	1251	108	75
6LR 20/20	2916	1575	1341	118	79
6LR 20/21	2983	1642	1341	118	82
6LR 20/22	3050	1709	1341	118	86
6LR 20/23	3117	1776	1341	118	89

Max Eff. % =	73
Max kW / St. =	1,57

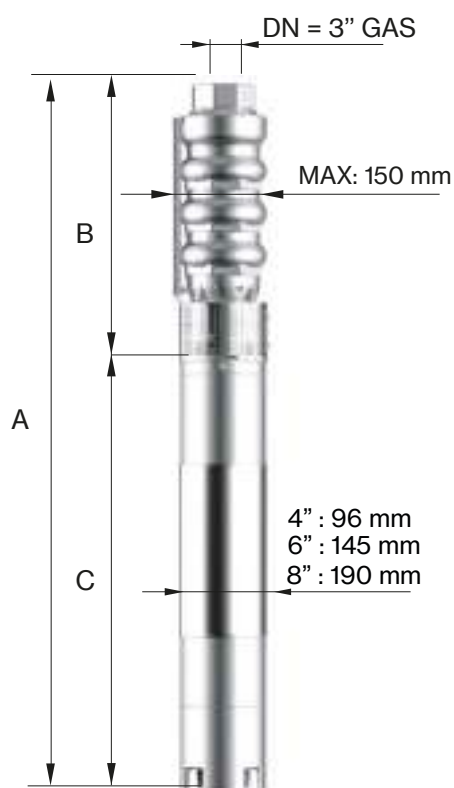
Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	4	6

* Coupled pump shaft





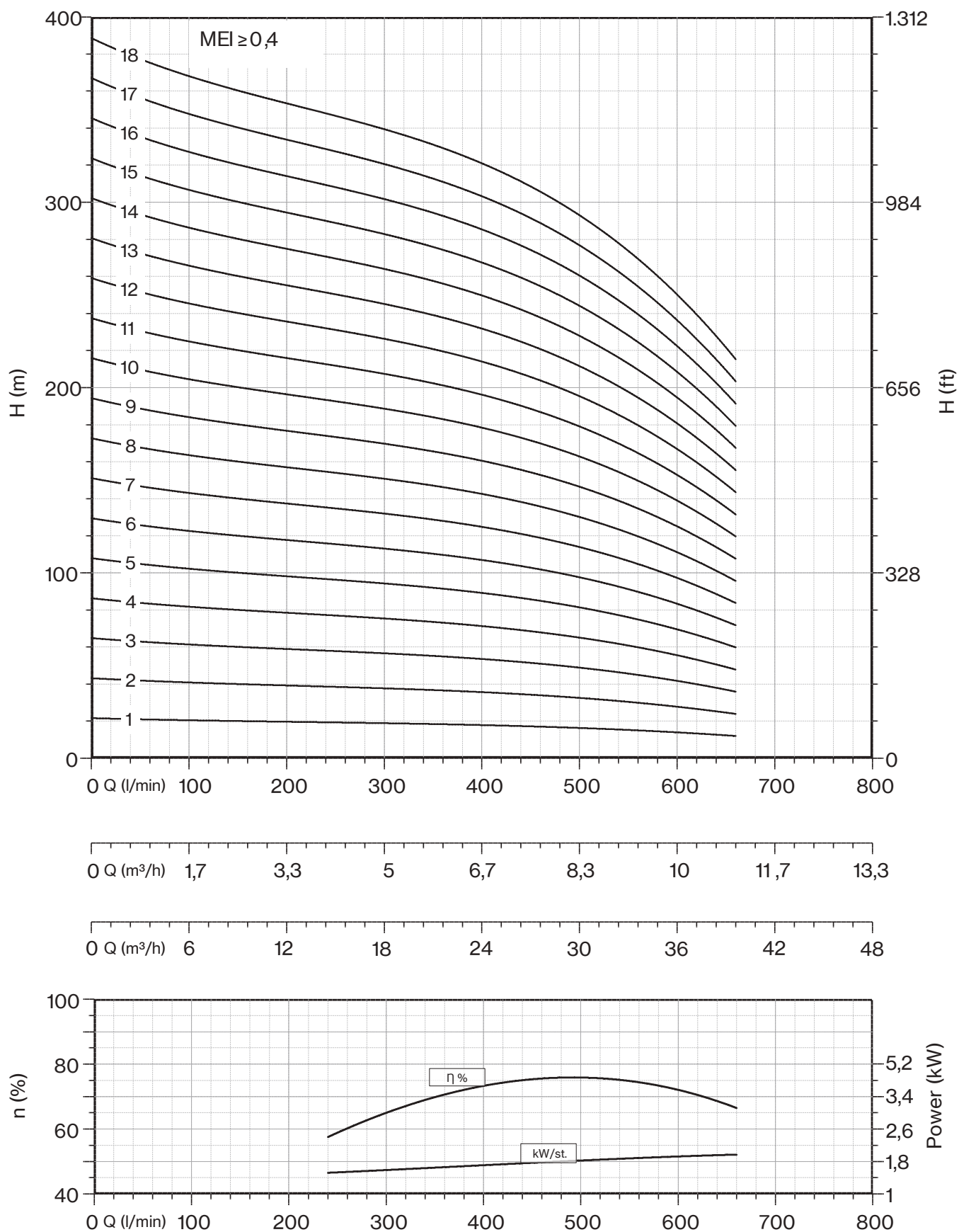
Motor 60 Hz - 3500 rpm			Q									
TYPE	Power		l/min	0	240	300	360	420	480	540	600	660
	HP	kW	l/sec	0	4	5	6	7	8	9	10	11
			m ³ /h	0	14,4	18	21,6	25,2	28,8	32,4	36	39,6
6LR 25/01	3	2,2	H[m]	22	19	19	18	18	17	15	14	12
6LR 25/02	5,5	4		43	39	38	36	35	33	31	27	24
6LR 25/03	10	7,5		65	58	57	55	53	50	46	41	36
6LR 25/04	12,5	9,2		86	77	76	73	71	67	62	55	48
6LR 25/05	15	11		108	96	94	91	88	84	77	68	60
6LR 25/06	17,5	13		130	116	113	109	106	100	93	82	72
6LR 25/07	20	15		151	135	132	128	124	117	108	96	85
6LR 25/08	25	18,5		173	154	151	146	141	134	124	109	97
6LR 25/09	25	18,5		194	174	170	164	159	150	139	123	109
6LR 25/10	30	22		216	193	189	182	177	167	154	137	121
6LR 25/11	30	22		238	212	208	201	194	184	170	150	133
6LR 25/12	35	26		259	231	227	219	212	201	185	164	145
6LR 25/13	35	26		281	251	245	237	230	217	201	178	157
6LR 25/14	40	30		302	270	264	255	248	234	216	192	169
6LR 25/15	40	30		324	289	283	274	265	251	232	205	181
6LR 25/16	50	37		346	308	302	292	283	268	247	219	193
6LR 25/17	50	37		367	328	321	310	301	284	262	233	205
6LR 25/18	50	37		389	347	340	328	318	301	278	246	217



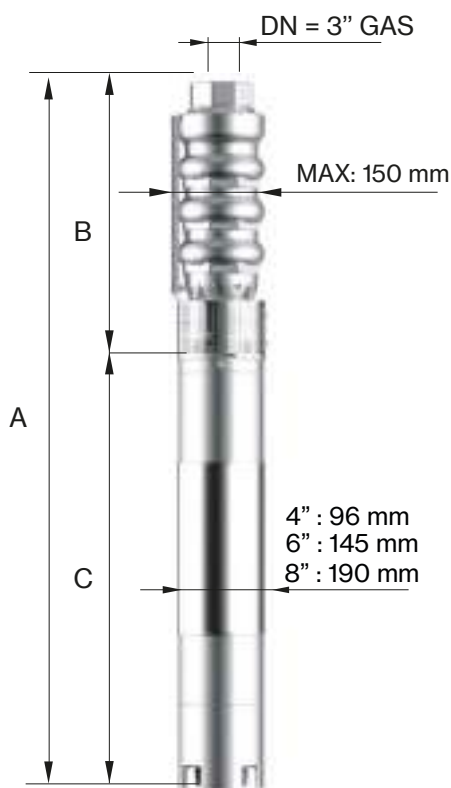
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LR 25/01	754	302	452	15	10
6LR 25/02	966	369	597	22	14
6LR 25/03	1137	436	701	55	18
6LR 25/04	1254	503	751	60	21
6LR 25/05	1381	570	811	65	25
6LR 25/06	1478	637	841	70	29
6LR 25/07	1635	704	931	75	32
6LR 25/08	1762	771	991	83	36
6LR 25/09	1829	838	991	83	40
6LR 25/10	1976	905	1071	92	44
6LR 25/11	2043	972	1071	92	47
6LR 25/12	2220	1039	1181	100	51
6LR 25/13	2287	1106	1181	100	55
6LR 25/14	2424	1173	1251	108	58
6LR 25/15	2491	1240	1251	108	62
6LR 25/16	2648	1307	1341	118	66
6LR 25/17	2715	1374	1341	118	69
6LR 25/18	2782	1441	1341	118	73

Max Eff. % =	77
Max kW / St. =	1,97

Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	4,5	6,6



Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		I/min	0	240	360	480	600	720	840
			I/sec	0	4	6	8	10	12	14
	HP	kW	m ³ /h	0	14,4	21,6	28,8	36	43,2	50,4
6LR 32/01	3	2,2	H[m]	22	20	20	18	16	14	10
6LR 32/02	7,5	5,5		43	41	39	36	32	27	21
6LR 32/03	10	7,5		65	61	59	55	49	41	31
6LR 32/04	12,5	9,2		86	81	78	73	65	54	42
6LR 32/05	17,5	13		108	102	98	91	81	68	52
6LR 32/06	20	15		130	122	117	109	97	81	63
6LR 32/07	25	18,5		151	142	137	128	114	95	73
6LR 32/08	25	18,5		173	163	156	146	130	108	84
6LR 32/09	30	22		194	183	176	164	146	122	94
6LR 32/10	35	26		216	203	195	182	162	135	105
6LR 32/11	35	26		238	224	215	201	179	149	115
6LR 32/12	40	30		259	244	234	219	195	162	126
6LR 32/13	40	30		281	264	254	237	211	176	136
6LR 32/14	50	37		302	284	273	255	227	189	147
6LR 32/15	50	37		324	305	293	274	244	203	157
6LR 32/16	50	37		346	325	312	292	260	216	168



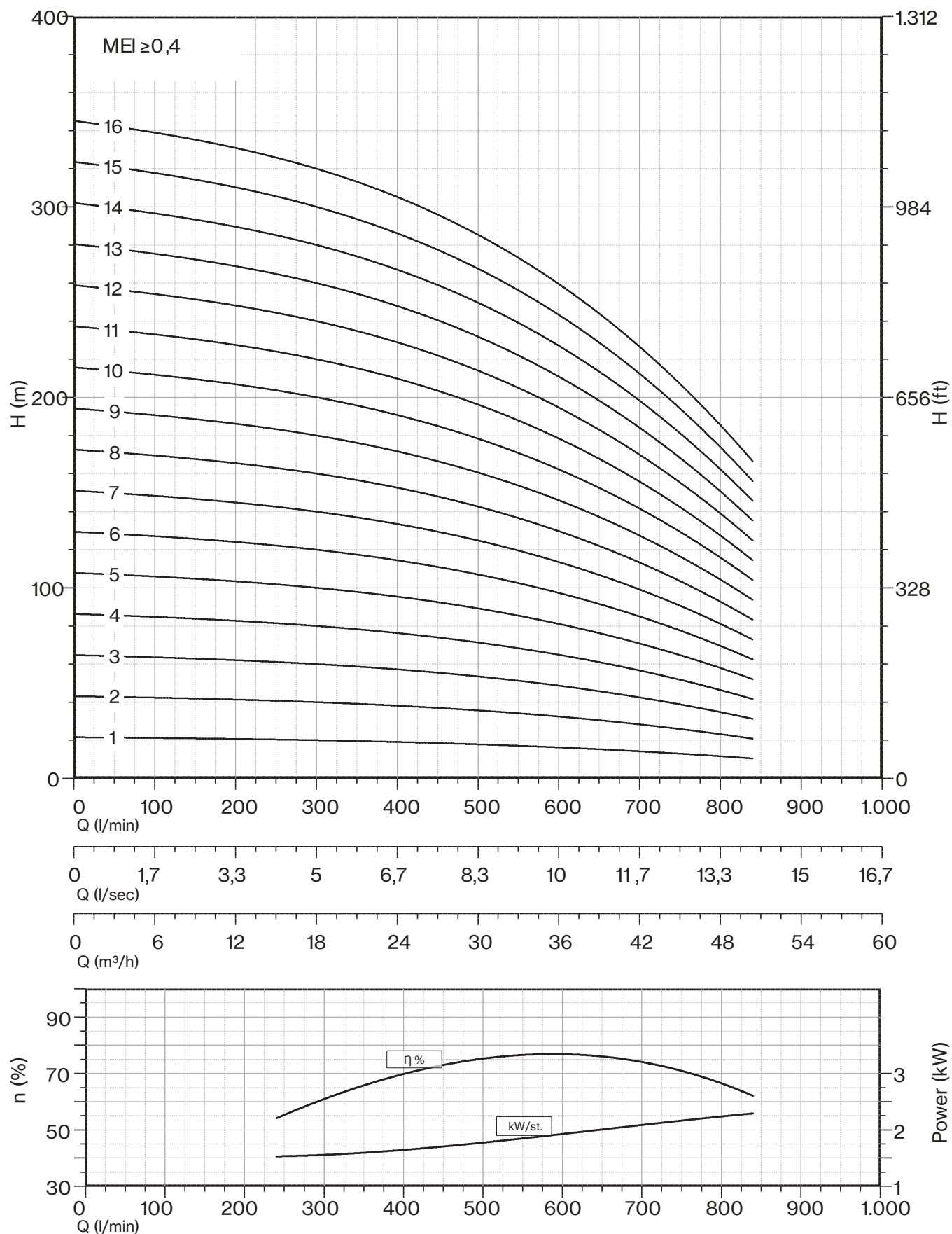
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LR 32/01	754	302	452	15	10
6LR 32/02	1067	369	698	27	14
6LR 32/03	1137	436	701	55	18
6LR 32/04	1254	503	751	60	21
6LR 32/05	1411	570	841	70	25
6LR 32/06	1568	637	931	75	29
6LR 32/07	1695	704	991	83	32
6LR 32/08	1762	771	991	83	36
6LR 32/09	1909	838	1071	92	40
6LR 32/10	2086	905	1181	100	44
6LR 32/11	2153	972	1181	100	47
6LR 32/12	2290	1039	1251	108	51
6LR 32/13	2357	1106	1251	108	55
6LR 32/14	2514	1173	1341	118	58
6LR 32/15	2581	1240	1341	118	62
6LR 32/16	2648	1307	1341	118	66

Max Eff. % =	77
Max kW / St. =	2,28

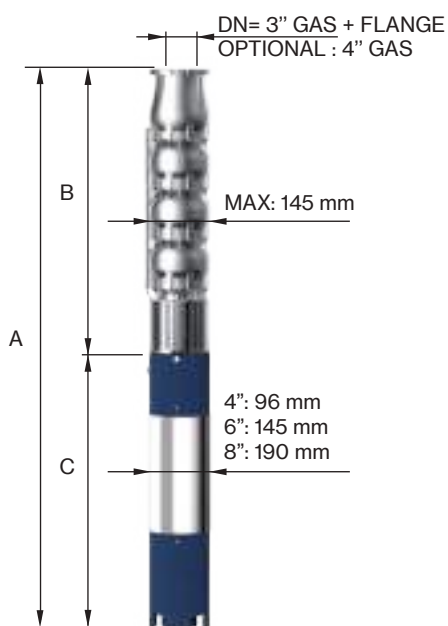
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	3,9	7,5

* Coupled pump shaft

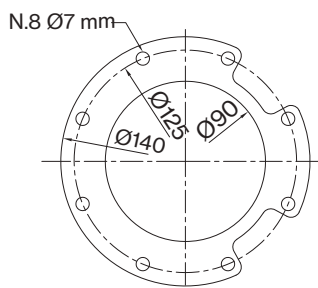




Motor 60 Hz - 3500 rpm				Q						
TYPE	Power		l/min	0	360	480	600	720	840	960
			l/sec	0	6	8	10	12	14	16
	HP	kW	m³/h	0	21,6	28,8	36	43,2	50,4	57,6
6LM 38/01	4	3	H [m]	21	18	17	16	15	13	10
6LM 38/02	7,5	5,5		41	37	35	33	29	25	20
6LM 38/03	10	7,5		62	55	52	49	44	38	29
6LM 38/04	12,5	9,2		82	73	69	65	59	50	39
6LM 38/05	17,5	13		103	91	86	81	73	63	49
6LM 38/06	20	15		124	110	104	98	88	75	59
6LM 38/07	25	18,5		144	128	121	114	103	88	69
6LM 38/08	25	18,5		165	146	138	130	118	100	78
6LM 38/09	30	22		185	165	156	146	132	113	88
6LM 38/10	35	26		206	183	173	163	147	125	98
6LM 38/11	35	26		227	201	190	179	162	138	108
6LM 38/12	40	30		247	219	207	195	176	150	118
6LM 38/13	40	30		268	238	225	212	191	163	127
6LM 38/14	50	37		288	256	242	228	206	175	137
6LM 38/15	50	37		309	274	259	244	220	188	147
6LM 38/16	50	37		329	293	276	260	235	200	157



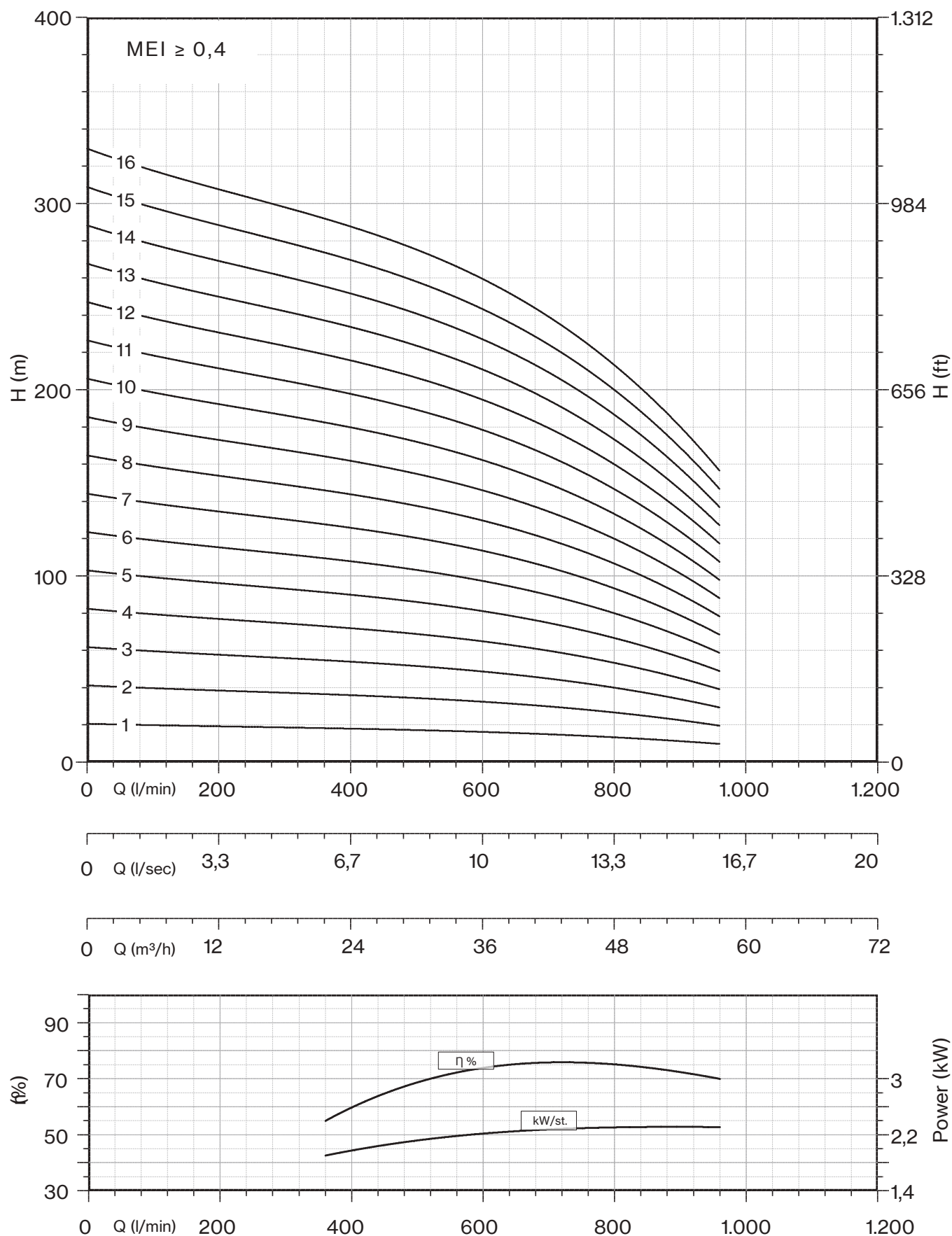
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LM 38/01	951	394	557	19	8
6LM 38/02	1193	495	698	27	12
6LM 38/03	1297	596	701	55	15
6LM 38/04	1448	697	751	60	19
6LM 38/05	1639	798	841	70	22
6LM 38/06	1830	899	931	75	26
6LM 38/07	1991	1000	991	83	29
6LM 38/08	2092	1101	991	83	33
6LM 38/09	2273	1202	1071	92	37
6LM 38/10	2484	1303	1181	100	40
6LM 38/11	2585	1404	1181	100	44
6LM 38/12	2756	1505	1251	108	47
6LM 38/13	2857	1606	1251	108	51
6LM 38/14	3048	1707	1341	118	54
6LM 38/15	3149	1808	1341	118	58
6LM 38/16	3250	1909	1341	118	61



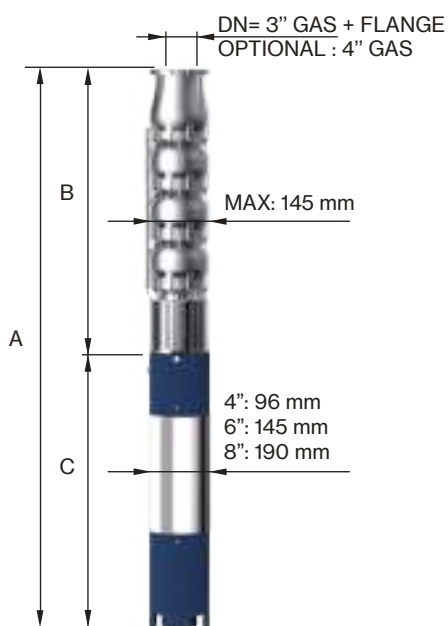
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

Max Eff. % =	76
Max kW / St. =	2,3

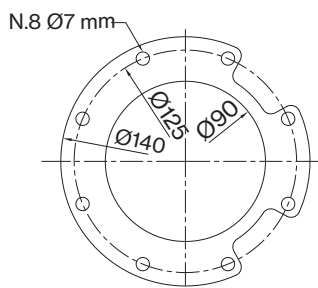
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	3,8	8



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		I/min	0	480	600	720	840	960	1080	1200
			I/sec	0	8	10	12	14	16	18	20
	HP	kW	m³/h	0	28,8	36	43,2	50,4	57,6	64,8	72
6LM 48/01	4	3	H [m]	20	16	16	15	14	13	11	9
6LM 48/02	7,5	5,5		40	33	32	31	28	25	21	18
6LM 48/03	10	7,5		60	49	48	46	42	38	32	28
6LM 48/04	15	11		81	66	64	61	56	51	43	37
6LM 48/05	17,5	13		101	82	80	76	71	63	53	46
6LM 48/06	20	15		121	98	96	92	85	76	64	55
6LM 48/07	25	18,5		141	115	112	107	99	89	75	65
6LM 48/08	30	22		161	131	128	122	113	101	85	74
6LM 48/09	35	26		181	148	144	137	127	114	96	83
6LM 48/10	35	26		202	164	160	153	141	127	107	92
6LM 48/11	40	30		222	181	176	168	155	139	117	101
6LM 48/12	40	30		242	197	192	183	169	152	128	111
6LM 48/13	50	37		262	213	208	198	183	165	139	120
6LM 48/14	50	37		282	230	224	214	198	177	149	129
6LM 48/15	50	37		302	246	240	229	212	190	160	138



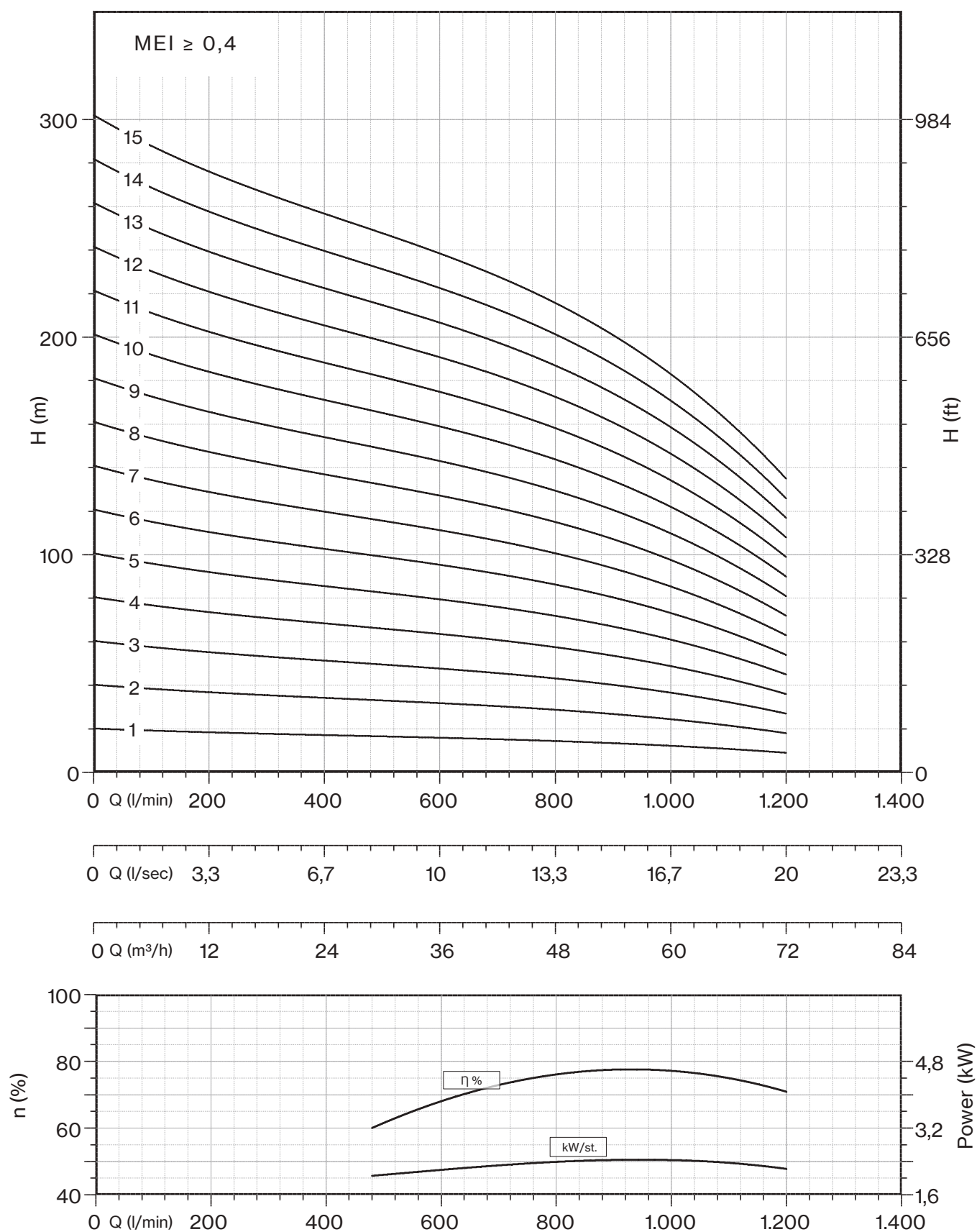
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LM 48/01	951	394	557	19	8
6LM 48/02	1193	495	698	27	12
6LM 48/03	1297	596	701	55	15
6LM 48/04	1508	697	811	65	19
6LM 48/05	1639	798	841	70	22
6LM 48/06	1830	899	931	75	26
6LM 48/07	1991	1000	991	83	29
6LM 48/08	2172	1101	1071	92	33
6LM 48/09	2383	1202	1181	100	37
6LM 48/10	2484	1303	1181	100	40
6LM 48/11	2655	1404	1251	108	44
6LM 48/12	2756	1505	1251	108	47
6LM 48/13	2947	1606	1341	118	51
6LM 48/14	3048	1707	1341	118	54
6LM 48/15	3149	1808	1341	118	58



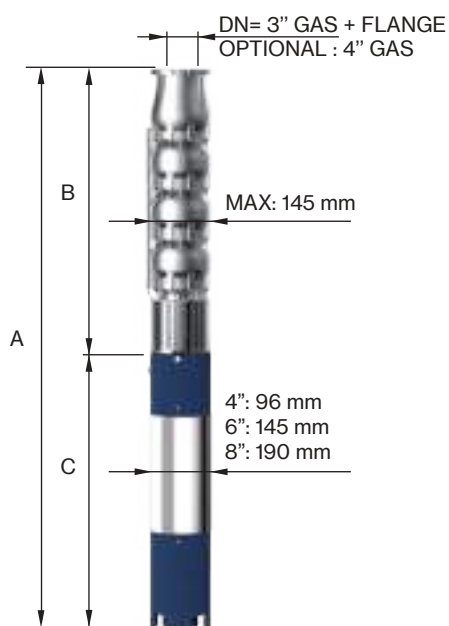
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

Max Eff. % =	78,5
Max kW / St. =	2,5

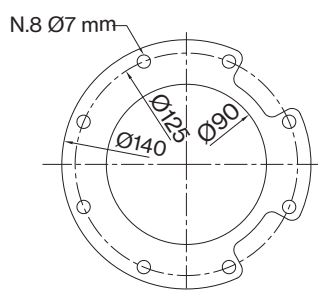
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,45	3,5	3,8	5



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	720	840	960	1080	1200	1320	1440
			l/sec	0	12	14	16	18	20	22	24
	HP	kW	m³/h	0	43,2	50,4	57,6	64,8	72	79,2	86,4
6LM 60/01	4	3	H[m]	20	15	14	13	12	11	10	9
6LM 60/02	7,5	5,5		39	30	28	26	24	22	20	17
6LM 60/03	12,5	9,2		59	44	41	39	37	34	30	26
6LM 60/04	17,5	13		79	59	55	52	49	45	40	35
6LM 60/05	20	15		99	74	69	66	61	56	50	43
6LM 60/06	25	18,5		118	89	83	79	73	67	60	52
6LM 60/07	30	22		138	104	97	92	86	79	70	60
6LM 60/08	35	26		158	119	111	105	98	90	79	69
6LM 60/09	35	26		178	133	124	118	110	101	89	78
6LM 60/10	40	30		197	148	138	131	122	112	99	86
6LM 60/11	50	37		217	163	152	144	135	124	109	95
6LM 60/12	50	37		237	178	166	157	147	135	119	104
6LM 60/13	50	37		256	193	180	170	159	146	129	112



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LM 60/01	957	400	557	19	8
6LM 60/02	1205	507	698	27	12
6LM 60/03	1365	614	751	60	16
6LM 60/04	1562	721	841	70	20
6LM 60/05	1759	828	931	75	24
6LM 60/06	1926	935	991	83	27
6LM 60/07	2113	1042	1071	92	31
6LM 60/08	2330	1149	1181	100	35
6LM 60/09	2437	1256	1181	100	39
6LM 60/10	2614	1363	1251	108	43
6LM 60/11	2811	1470	1341	118	46
6LM 60/12	2918	1577	1341	118	50
6LM 60/13	3025	1684	1341	118	54

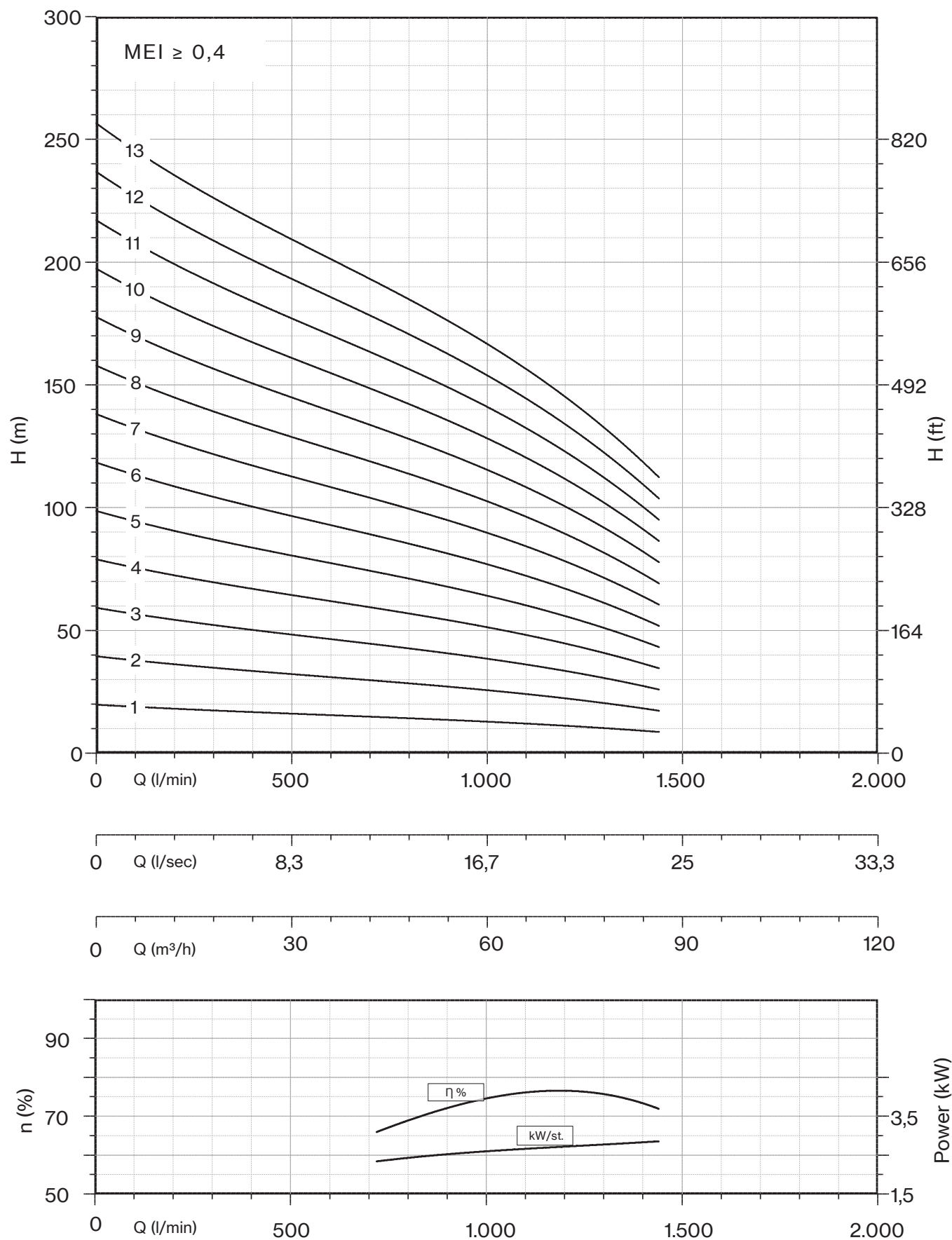


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

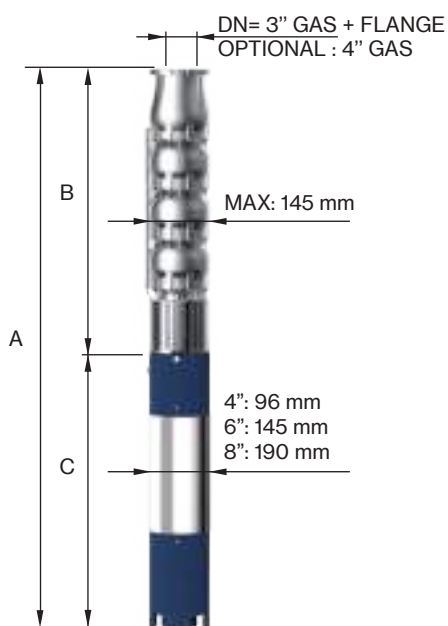
Max Eff. % =	77
Max kW / St. =	2,85

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,8	3,8	5,1	7,1

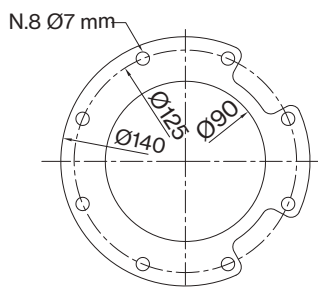
6LM 60



Motor 60 Hz - 3500 rpm				Q										
TYPE	Power		l/min	0	840	960	1080	1200	1320	1440	1560	1680	1800	
			l/sec	0	14	16	18	20	22	24	26	28	30	
	HP	kW	m³/h	0	50,4	57,6	64,8	72	79,2	86,4	93,6	100,8	108	
6LM 70/01	5,5	4	H[m]	18,9	15	14,3	13,7	13,5	13,1	12,2	10,9	9,5	8,1	
6LM 70/02	10	7,5		37,7	30	28,5	27,4	27,1	26,2	24,5	21,9	19,0	16,1	
6LM 70/03	15	11		56,6	44,9	42,8	41,0	40,6	39,3	36,7	32,8	28,5	24,2	
6LM 70/04	20	15		75	60	57	55	54	52	49	44	38	32	
6LM 70/05	25	18,5		94	75	71	68	68	66	61	55	48	40	
6LM 70/06	30	22		113	90	86	82	81	79	73	66	57	48	
6LM 70/07	35	26		132	105	100	96	95	92	86	77	67	56	
6LM 70/08	40	30		151	120	114	109	108	105	98	88	76	65	
6LM 70/09	50	37		170	135	128	123	122	118	110	98	86	73	
6LM 70/10	50	37		189	150	143	137	135	131	122	109	95	81	



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
6LM 70/01	997	400	597	22	9
6LM 70/02	1208	507	701	55	14
6LM 70/03	1425	614	811	65	18
6LM 70/04	1652	721	931	75	23
6LM 70/05	1819	828	991	83	27
6LM 70/06	2006	935	1071	92	32
6LM 70/07	2223	1042	1181	100	36
6LM 70/08	2400	1149	1251	108	41
6LM 70/09	2597	1256	1341	118	45
6LM 70/10	2704	1363	1341	118	50

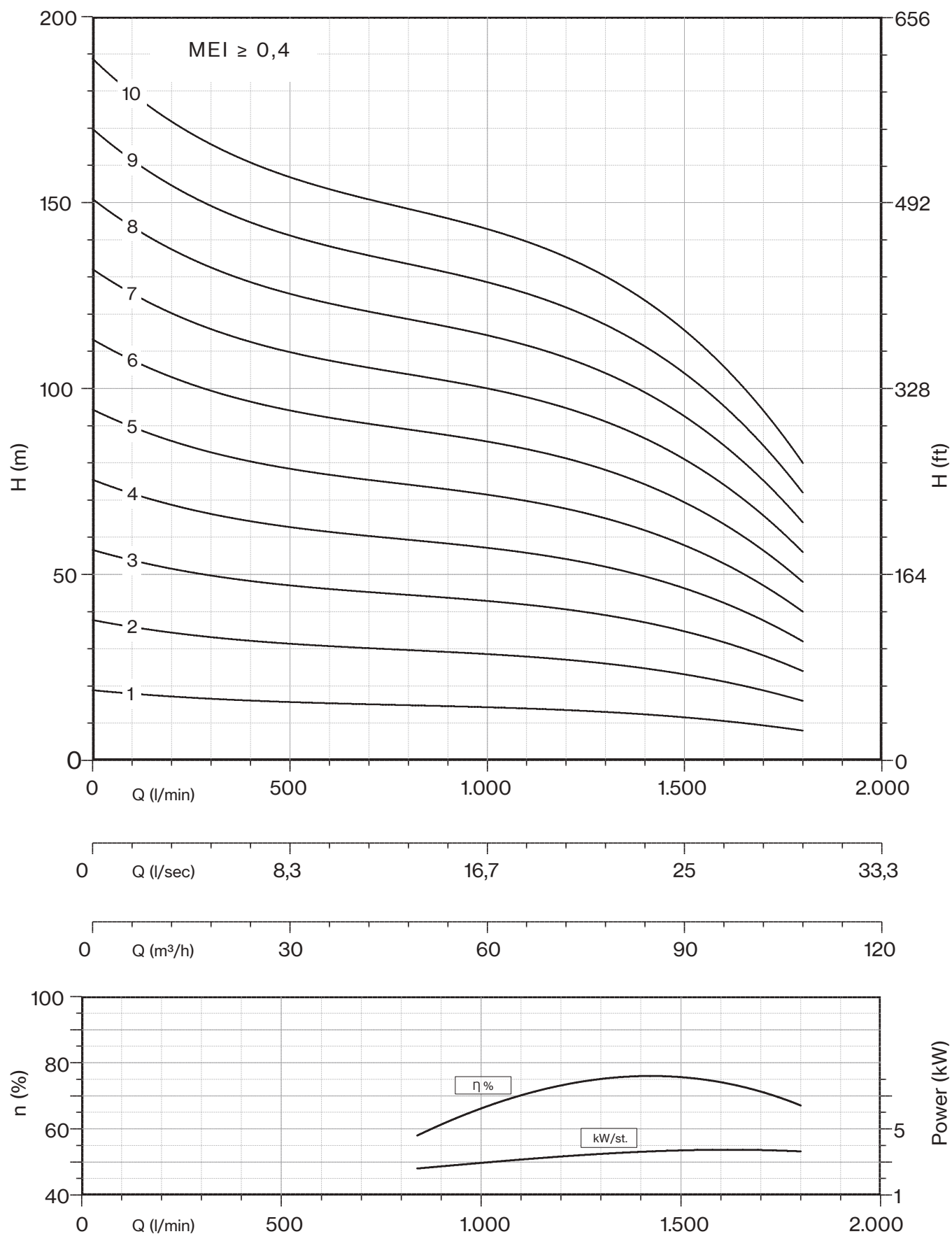


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 88,9 mm

Max Eff. % =	76
Max kW / St. =	3,8

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,8	3,8	5,1	7,1

6LM 70



8LR & 8LM lines

Deepwell Borehole



8LR line



8LM line



Submersible multistage centrifugal pumps for 8" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural. All components are made of stainless steel with lost wax Microfusion technology. The standard material is AISI 304 stainless steel, alternatively the following materials are available on request: AISI 316 Steel, Duplex steel, AISI 904L Steel. Bushing bearings and wear-rings made of sand abrasion-resistant rubber, reverse-Thrust ring in PTFE/Graphite.

General operating data:

- Capacity up to 230 m³/h
- Pressure up to 662 m
- Hydraulic efficiency 8", up to 78,5%
- Pressure up to 66 bar
- Powers up to 150 kW
- Rotation speed up to 3.600 rpm
- Maximum depth: 350 m
- Maximum quantity of permitted sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI $\geq 0,4$ (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

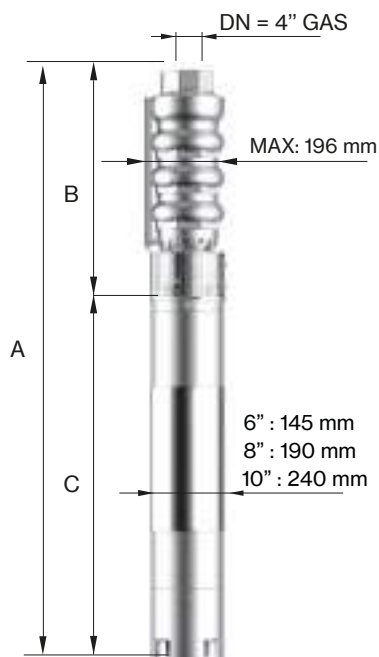
Construction features

Suction and delivery outlet	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Valve	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Impellers and diffusers	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LRS-LMS) stainless steel AISI 316 (LRX-LMX) Duplex (LRD-LMD)
Quantity of sand in the water	max 100 gr/m ³



8LR 34

Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		I/min	0	240	360	480	600	720	840
			I/sec	0	4	6	8	10	12	14
	HP	kW	m ³ /h	0	14,4	21,6	28,8	36	43,2	50,4
8LR 34/01	5,5	4	H[m]	33	31	29	28	26	24	20
8LR 34/02	12,5	9,2		66	61	59	56	53	48	40
8LR 34/03	17,5	13		99	92	88	84	79	71	60
8LR 34/04	25	18,5		132	122	118	112	105	95	79
8LR 34/05	30	22		166	153	147	140	132	119	99
8LR 34/06	35	26		199	183	177	168	158	143	119
8LR 34/07	40	30		232	214	206	197	184	166	139
8LR 34/08	50	37		265	244	235	225	211	190	159
8LR 34/09	50	37		298	275	265	253	237	214	179
8LR 34/10	60	45		331	305	294	281	263	238	199
8LR 34/11	75	55		364	336	324	309	290	261	218
8LR 34/12	75	55		397	367	353	337	316	285	238
8LR 34/13	75	55		431	397	382	365	342	309	258
8LR 34/14	90	66		464	428	412	393	369	333	278
8LR 34/15	90	66		497	458	441	421	395	356	298
8LR 34/16	90	66		530	489	471	449	421	380	318
8LR 34/17	100	75		563	519	500	477	448	404	337
8LR 34/18	100	75		596	550	530	505	474	428	357
8LR 34/19	125	92		629	580	559	534	500	451	377
8LR 34/20	125	92		662	611	588	562	527	475	397

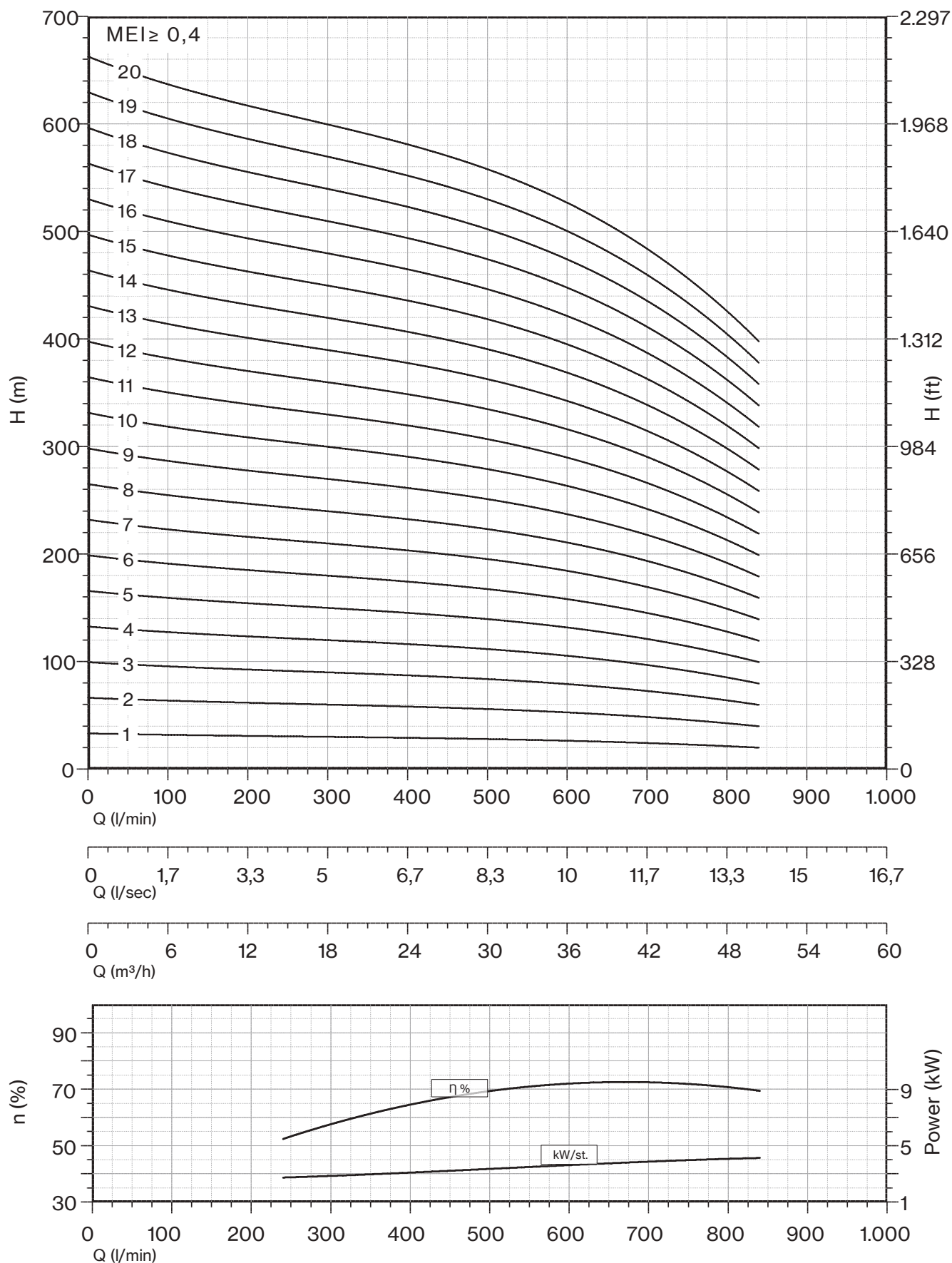


Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LR 34/01	987	390	597	22	16
8LR 34/02	1221	470	751	60	22
8LR 34/03	1391	550	841	70	28
8LR 34/04	1621	630	991	83	34
8LR 34/05	1781	710	1071	92	40
8LR 34/06	1971	790	1181	100	46
8LR 34/07	2121	870	1251	108	52
8LR 34/08	2291	950	1341	118	58
8LR 34/09	2371	1030	1341	118	64
8LR 34/10	2233	1110	1123	178	71
8LR 34/11	2423	1190	1233	200	77
8LR 34/12	2503	1270	1233	200	83
8LR 34/13	2583	1350	1233	200	89
8LR 34/14	2733	1430	1303	214	95
8LR 34/15	2813	1510	1303	214	101
8LR 34/16	2893	1590	1303	214	107
8LR 34/17	3053	1670	1383	230	113
8LR 34/18	3133	1750	1383	230	119
8LR 34/19	3413	1830	1583	270	125
8LR 34/20	3493	1910	1583	270	132

Max Eff. % =	73,5
Max kW / St. =	4,15

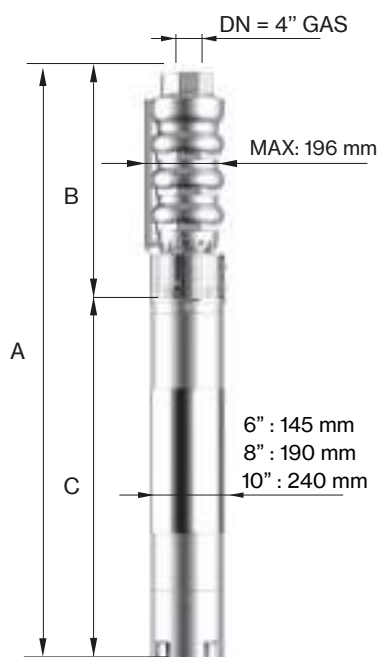
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,3	3,3	4,5	6,7





8LR 42

Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	360	480	600	720	840	960	1080
			l/sec	0	6	8	10	12	14	16	18
	HP	kW	m³/h	0	21,6	28,8	36	43,2	50,4	57,6	64,8
8LR 42/01	7,5	5,5	H[m]	35	31	30	28	26	23	20	15
8LR 42/02	15	11		69	62	60	56	52	47	40	31
8LR 42/03	20	15		104	93	90	85	79	70	60	46
8LR 42/04	30	22		138	124	120	113	105	93	79	61
8LR 42/05	35	26		173	156	150	141	131	117	99	76
8LR 42/06	40	30		207	187	180	169	157	140	119	92
8LR 42/07	50	37		242	218	210	198	183	163	139	107
8LR 42/08	60	45		276	249	240	226	210	187	159	122
8LR 42/09	60	45		311	280	270	254	236	210	179	137
8LR 42/10	75	55		346	311	300	282	262	233	199	153
8LR 42/11	75	55		380	342	329	310	288	257	219	168
8LR 42/12	90	66		415	373	359	339	314	280	238	183
8LR 42/13	90	66		449	404	389	367	341	303	258	198
8LR 42/14	100	75		484	435	419	395	367	327	278	214
8LR 42/15	100	75		518	467	449	423	393	350	298	229
8LR 42/16	125	92		553	498	479	452	419	373	318	244
8LR 42/17	125	92		588	529	509	480	446	397	338	259
8LR 42/18	125	92		622	560	539	508	472	420	358	275
8LR 42/19	125	92		657	591	569	536	498	443	378	290

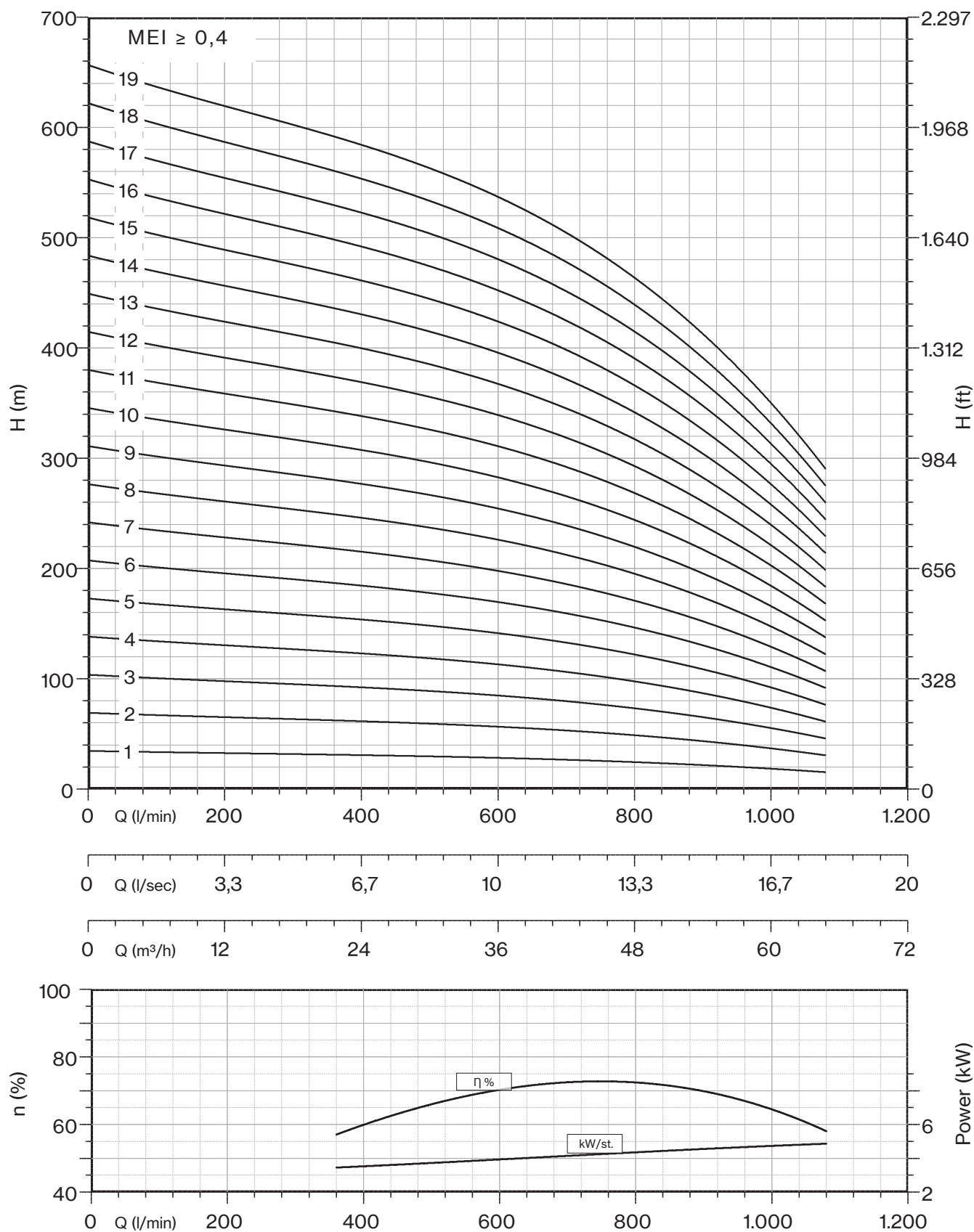


Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LR 42/01	1088	390	698	27	16
8LR 42/02	1281	470	811	65	22
8LR 42/03	1481	550	931	75	28
8LR 42/04	1701	630	1071	92	34
8LR 42/05	1891	710	1181	100	40
8LR 42/06	2041	790	1251	108	46
8LR 42/07	2211	870	1341	118	52
8LR 42/08	2073	950	1123	178	58
8LR 42/09	2153	1030	1123	178	64
8LR 42/10	2343	1110	1233	200	71
8LR 42/11	2423	1190	1233	200	77
8LR 42/12	2573	1270	1303	214	83
8LR 42/13	2653	1350	1303	214	89
8LR 42/14	2813	1430	1383	230	95
8LR 42/15	2893	1510	1383	230	101
8LR 42/16	3173	1590	1583	270	107
8LR 42/17	3253	1670	1583	270	113
8LR 42/18	3333	1750	1583	270	119
8LR 42/19	3413	1830	1583	270	125

Max Eff. % =	73
Max kW / St. =	4,84

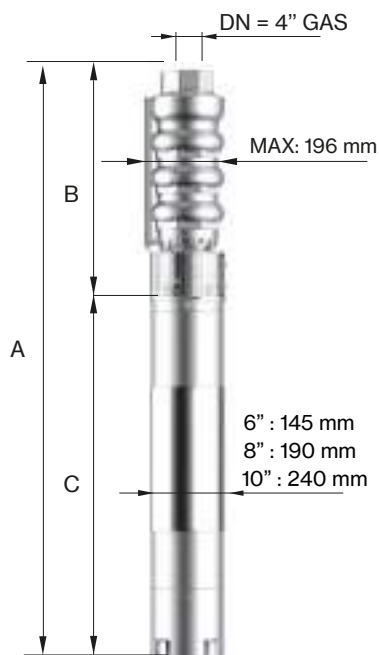
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	3,8	8





8LR 52

Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		I/min	0	600	720	840	960	1080	1200	1320
			I/sec	0	10	12	14	16	18	20	22
	HP	kW	m³/h	0	36	43,2	50,4	57,6	64,8	72	79,2
8LR 52/01	10	7,5	H[m]	35	31	29	28	26	23	21	18
8LR 52/02	17,5	13		69	62	58	55	51	47	42	37
8LR 52/03	25	18,5		104	93	87	83	77	70	63	55
8LR 52/04	35	26		138	124	117	111	102	94	84	73
8LR 52/05	40	30		173	155	146	139	128	117	104	92
8LR 52/06	50	37		207	186	175	166	153	140	125	110
8LR 52/07	60	45		242	217	204	194	179	164	146	129
8LR 52/08	75	55		276	248	233	222	204	187	167	147
8LR 52/09	75	55		311	279	262	249	230	211	188	165
8LR 52/10	90	66		346	310	292	277	256	234	209	184
8LR 52/11	90	66		380	341	321	305	281	257	230	202
8LR 52/12	100	75		415	372	350	333	307	281	251	220
8LR 52/13	125	92		449	402	379	360	332	304	271	239
8LR 52/14	125	92		484	433	408	388	358	328	292	257
8LR 52/15	125	92		518	464	437	416	383	351	313	275
8LR 52/16 D	150	110		553	495	467	444	409	374	334	294
8LR 52/17 D	150	110		588	526	496	471	435	398	355	312
8LR 52/18 D	150	110		622	557	525	499	460	421	376	330



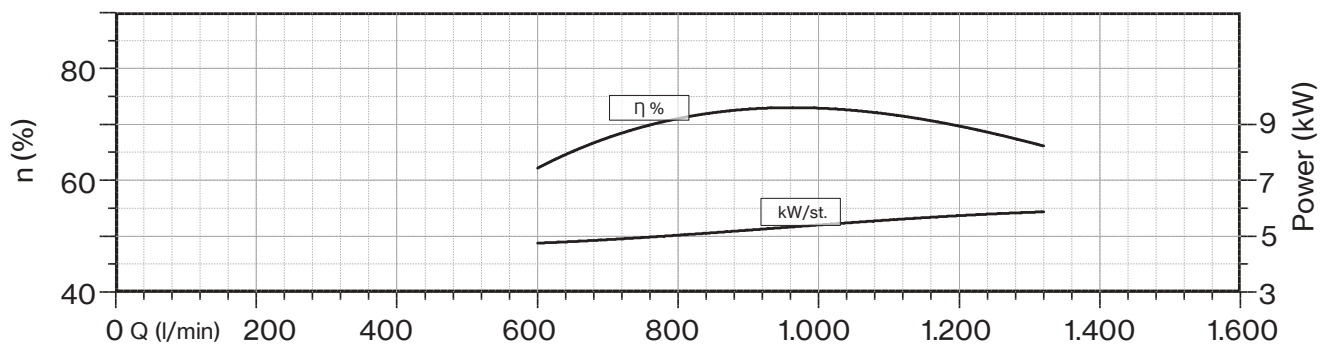
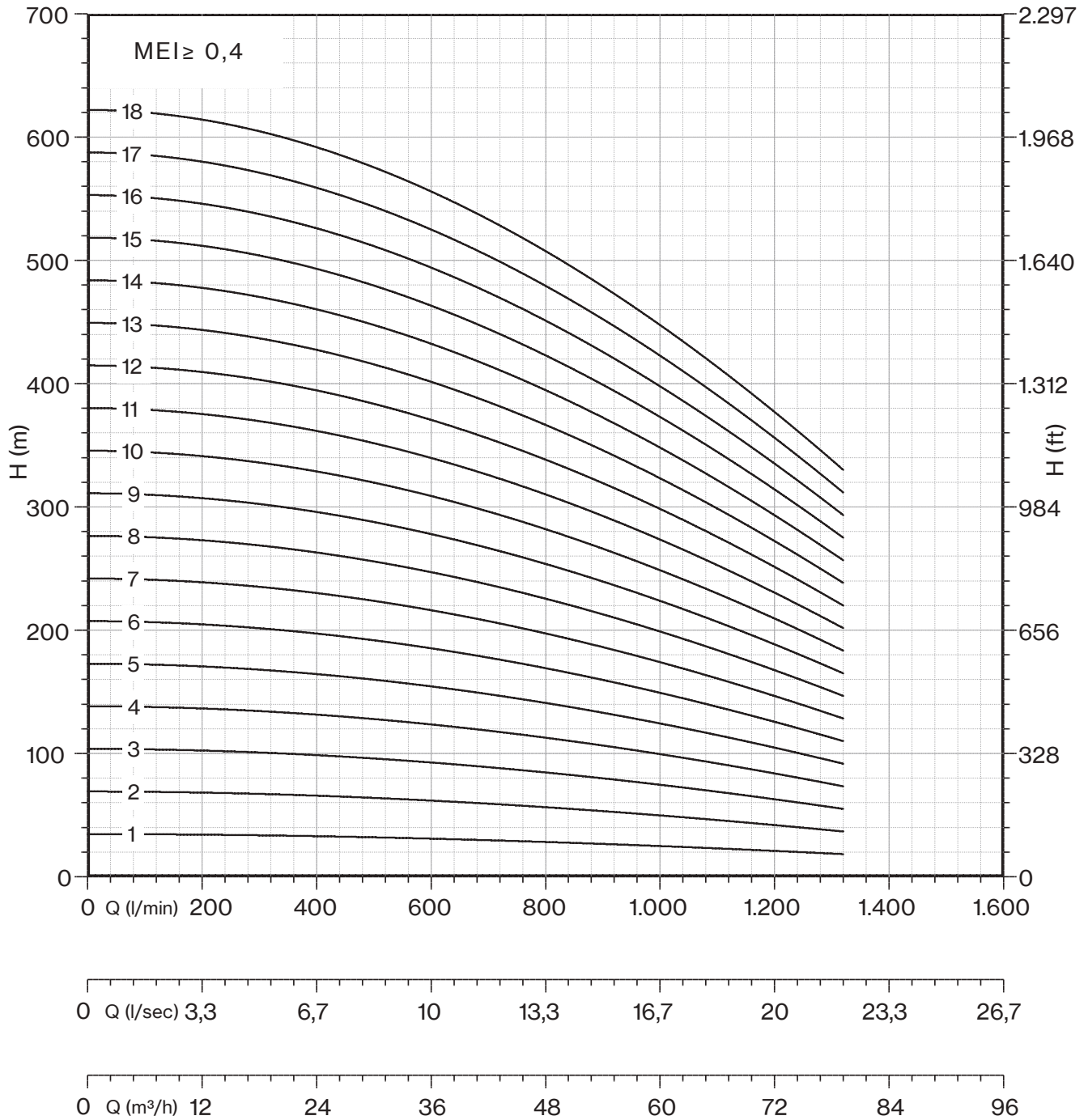
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LR 52/01	1099	398	701	55	16
8LR 52/02	1327	486	841	70	23
8LR 52/03	1565	574	991	83	29
8LR 52/04	1843	662	1181	100	36
8LR 52/05	2001	750	1251	108	42
8LR 52/06	2179	838	1341	118	49
8LR 52/07	2049	926	1123	178	55
8LR 52/08	2247	1014	1233	200	62
8LR 52/09	2335	1102	1233	200	68
8LR 52/10	2493	1190	1303	214	75
8LR 52/11	2581	1278	1303	214	81
8LR 52/12	2749	1366	1383	230	88
8LR 52/13	3037	1454	1583	270	94
8LR 52/14	3125	1542	1583	270	101
8LR 52/15	3213	1630	1583	270	107
8LR 52/16 D	3222	1718	1504	350	114
8LR 52/17 D	3310	1806	1504	350	120
8LR 52/18 D	3398	1894	1504	350	127

Max Eff. % =	73
Max kW / St. =	5,88

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,5	3,5	6	8

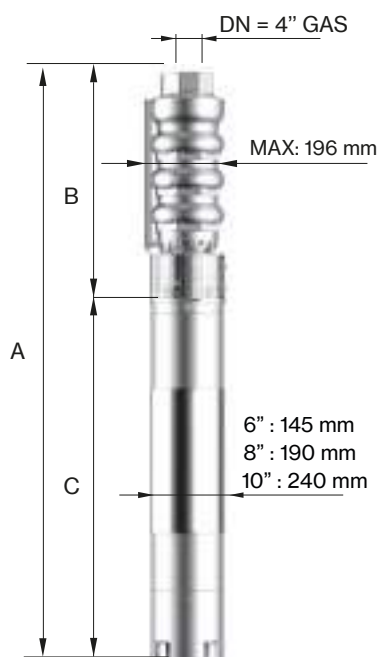
* Coupled pump shaft





8LR 62

Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	720	960	1080	1200	1320	1440	1560
			l/sec	0	12	16	18	20	22	24	26
	HP	kW	m³/h	0	43,2	57,6	64,8	72	79,2	86,4	93,6
8LR 62/01	10	7,5	H[m]	33	29	26	24	22	19	17	15
8LR 62/02	17,5	13		66	58	52	48	43	39	35	30
8LR 62/03	30	22		99	86	78	71	65	58	52	46
8LR 62/04	35	26		132	115	104	95	86	78	69	61
8LR 62/05	50	37		166	144	130	119	108	97	86	76
8LR 62/06	60	45		199	173	156	143	130	117	104	91
8LR 62/07	75	55		232	202	181	167	151	136	121	106
8LR 62/08	75	55		265	230	207	191	173	156	138	121
8LR 62/09	90	66		298	259	233	214	194	175	156	137
8LR 62/10	90	66		331	288	259	238	216	195	173	152
8LR 62/11	100	75		364	317	285	262	238	214	190	167
8LR 62/12	125	92		397	346	311	286	259	234	207	182
8LR 62/13	125	92		431	374	337	310	281	253	225	197
8LR 62/14	125	92		464	403	363	333	302	273	242	212
8LR 62/15 D	150	110		497	432	389	357	324	292	259	228
8LR 62/16 D	150	110		530	461	415	381	346	312	276	243

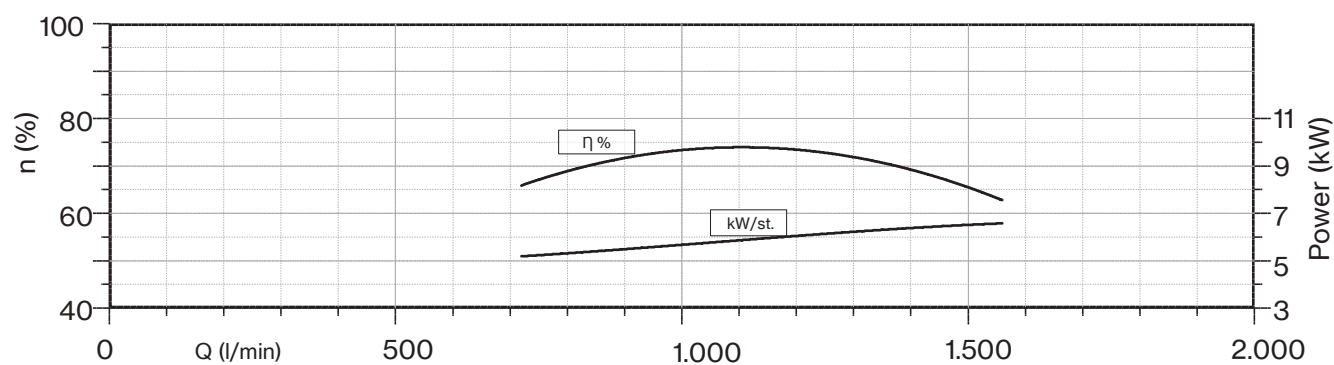
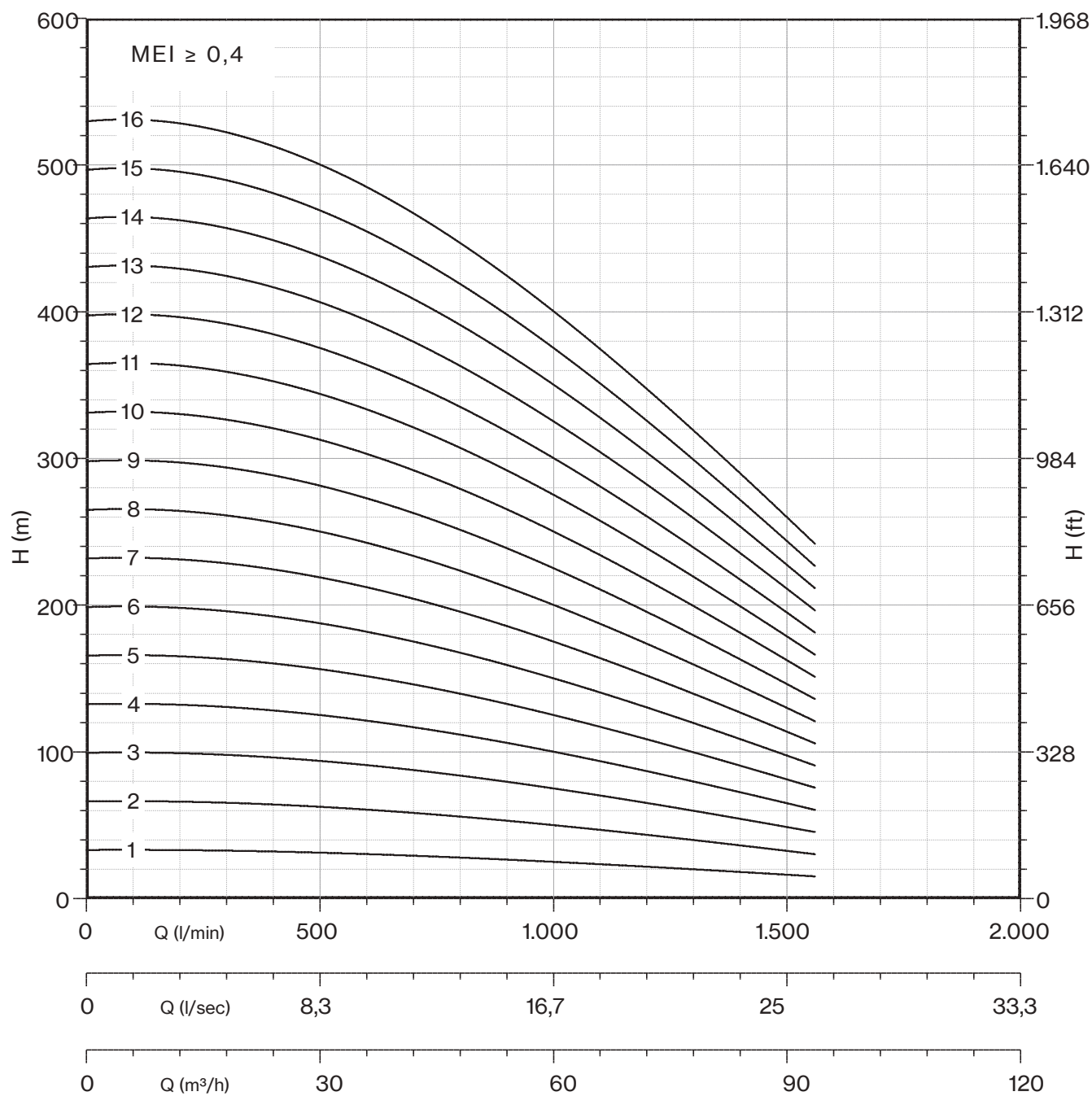


Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LR 62/01	1099	398	701	55	16
8LR 62/02	1327	486	841	70	23
8LR 62/03	1645	574	1071	92	29
8LR 62/04	1843	662	1181	100	36
8LR 62/05	2091	750	1341	118	42
8LR 62/06	1961	838	1123	178	49
8LR 62/07	2159	926	1233	200	55
8LR 62/08	2247	1014	1233	200	62
8LR 62/09	2405	1102	1303	214	68
8LR 62/10	2493	1190	1303	214	75
8LR 62/11	2661	1278	1383	230	81
8LR 62/12	2949	1366	1583	270	88
8LR 62/13	3037	1454	1583	270	94
8LR 62/14	3125	1542	1583	270	101
8LR 62/15 D	3134	1630	1504	350	107
8LR 62/16 D	3222	1718	1504	350	114

Max Eff. % =	74,5
Max kW / St. =	6,57

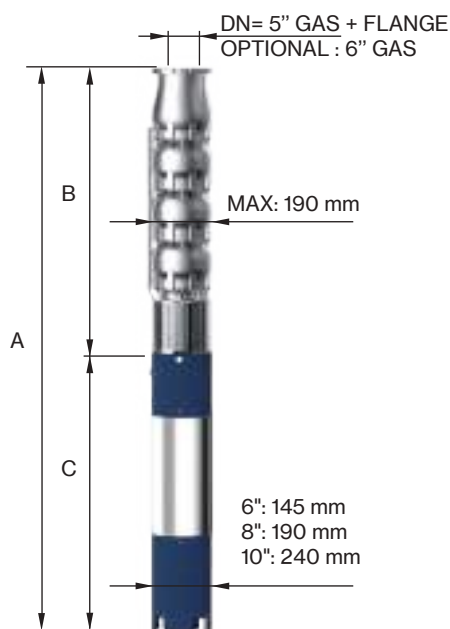
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	3,4	6	8



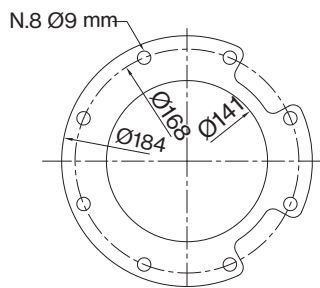


8LM 80

Motor 60 Hz - 3500 rpm			Q							
TYPE	Power		l/min	0	720	960	1200	1440	1680	1920
			l/sec	0	12	16	20	24	28	32
	HP	kW	m³/h	0	43,2	57,6	72	86,4	100,8	115,2
8LM 80/01	15	11	H[m]	39	35	34	31	29	25	21
8LM 80/02	30	22		78	70	67	63	58	50	43
8LM 80/03	40	30		117	105	101	94	86	76	64
8LM 80/04	60	45		156	140	134	126	115	101	85
8LM 80/05	75	55		194	175	168	157	144	126	107
8LM 80/06	90	66		233	210	201	188	173	151	128
8LM 80/07	100	75		272	245	235	220	202	176	149
8LM 80/08	125	92		311	280	268	251	230	202	170
8LM 80/09	125	92		350	315	302	283	259	227	192
8LM 80/10 D	150	110		389	350	336	314	288	252	213
8LM 80/11 D	150	110		428	385	369	345	317	277	234
8LM 80/12 D	175	130		467	420	403	377	346	302	256
8LM 80/13 D	175	130		505	455	436	408	374	328	277



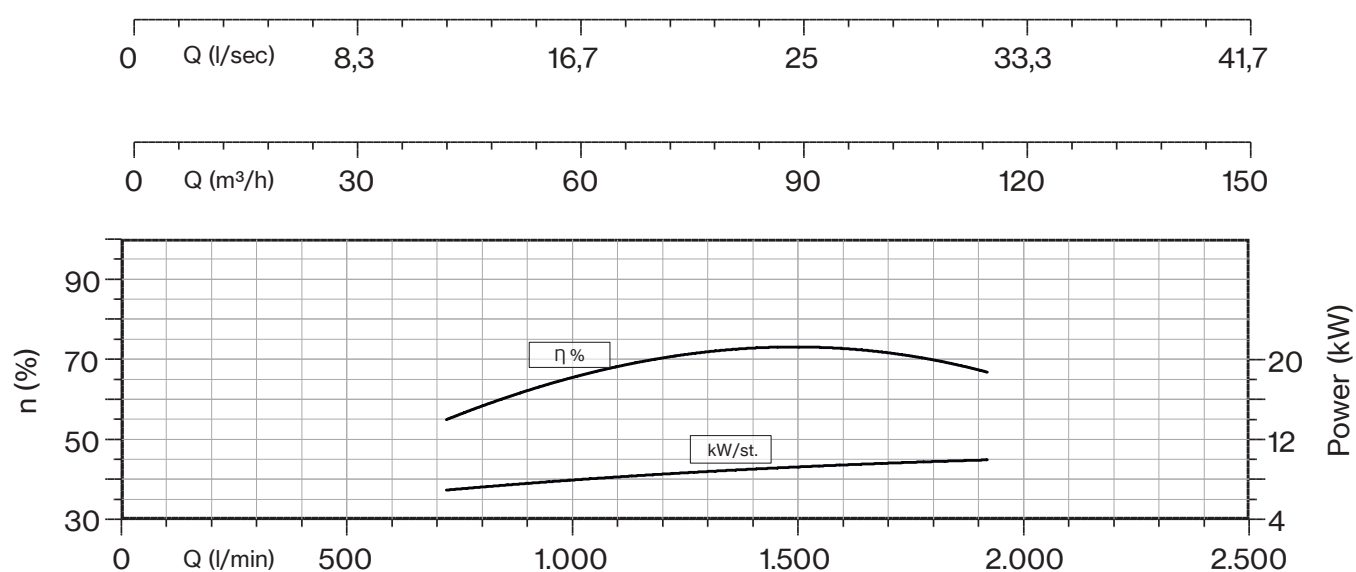
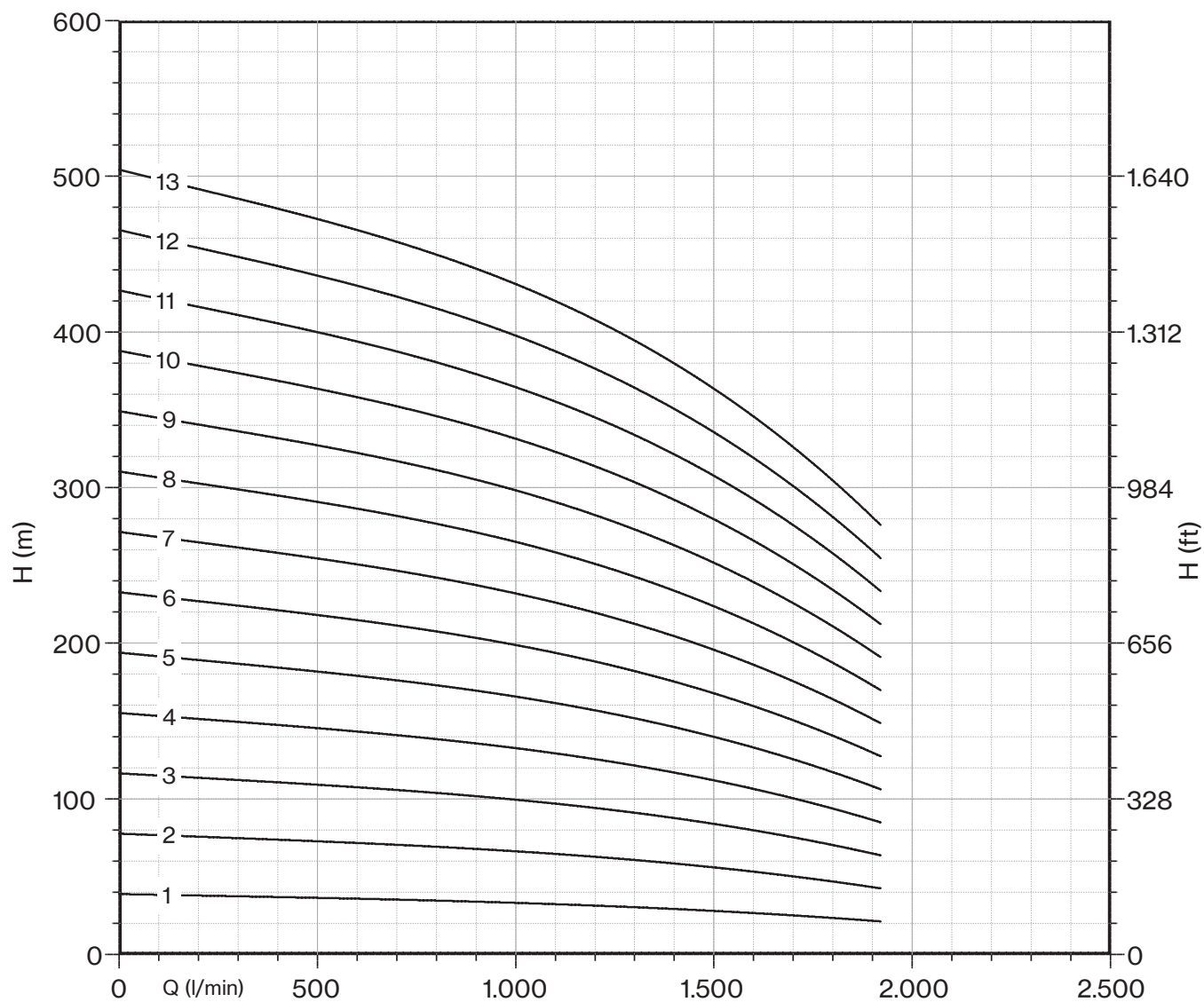
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LM 80/01	1336	525	811	65	19
8LM 80/02	1721	650	1071	92	26
8LM 80/03	2026	775	1251	108	32
8LM 80/04	2023	900	1123	178	39
8LM 80/05	2258	1025	1233	200	45
8LM 80/06	2453	1150	1303	214	52
8LM 80/07	2658	1275	1383	230	58
8LM 80/08	2983	1400	1583	270	65
8LM 80/09	3108	1525	1583	270	71
8LM 80/10 D	3383	1650	1733	300	78
8LM 80/11 D	3508	1775	1733	300	84
8LM 80/12 D	3534	1900	1634	385	91
8LM 80/13 D	3659	2025	1634	385	97



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

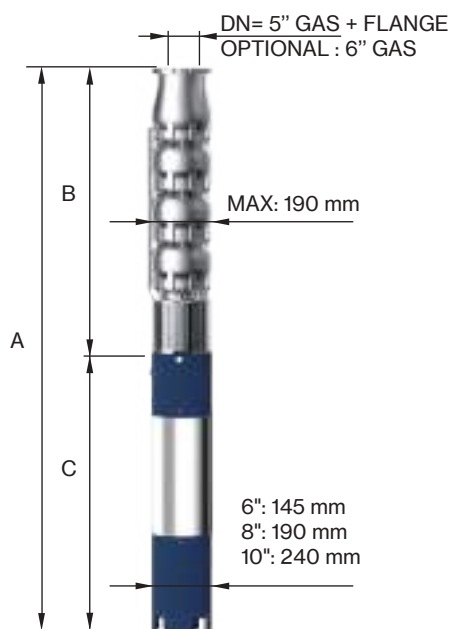
Max Eff. % =	74
Max kW / St. =	9,95

Q (flow)	25%	50%	75%	100%
NPSH (m)	3	3	3,5	4,5

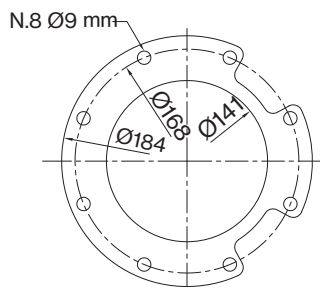


8LM 92

Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	960	1200	1440	1680	1920	2160	2400
			l/sec	0	16	20	24	28	32	36	40
	HP	kW	m³/h	0	57,6	72	86,4	100,8	115,2	129,6	144
8LM 92/01	15	11	H[m]	39	35	34	31	29	26	22	18
8LM 92/02	30	22		78	70	67	63	58	52	45	36
8LM 92/03	50	37		117	105	101	94	87	77	67	54
8LM 92/04	60	45		156	140	134	126	116	103	89	73
8LM 92/05	75	55		194	175	168	157	145	129	112	91
8LM 92/06	90	66		233	210	201	188	174	155	134	109
8LM 92/07	125	92		272	245	235	220	203	180	156	127
8LM 92/08	125	92		311	280	268	251	232	206	179	145
8LM 92/09 D	150	110		350	315	302	283	260	232	201	163
8LM 92/10 D	150	110		389	350	336	314	289	258	223	181
8LM 92/11 D	175	130		428	385	369	345	318	284	246	200
8LM 92/12 D	200	150		467	420	403	377	347	309	268	218
8LM 92/13 D	200	150		505	455	436	408	376	335	290	236



Motor 60 Hz 3500 rpm		DIMENSIONS (mm)			Weight (kg)	
TYPE		A	B	C	M	P
8LM 92/01		1336	525	811	65	19
8LM 92/02		1721	650	1071	92	26
8LM 92/03		2116	775	1341	118	32
8LM 92/04		2023	900	1123	178	39
8LM 92/05		2258	1025	1233	200	45
8LM 92/06		2453	1150	1303	214	52
8LM 92/07		2858	1275	1583	270	58
8LM 92/08		2983	1400	1583	270	65
8LM 92/09 D		3258	1525	1733	300	71
8LM 92/10 D		3383	1650	1733	300	78
8LM 92/11 D		3409	1775	1634	385	84
8LM 92/12 D		3634	1900	1734	415	91
8LM 92/13 D		3759	2025	1734	415	97

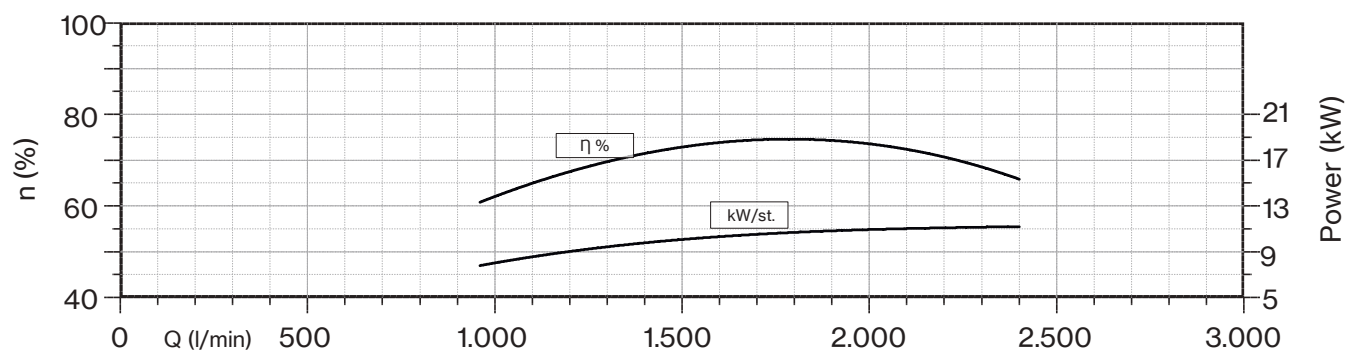
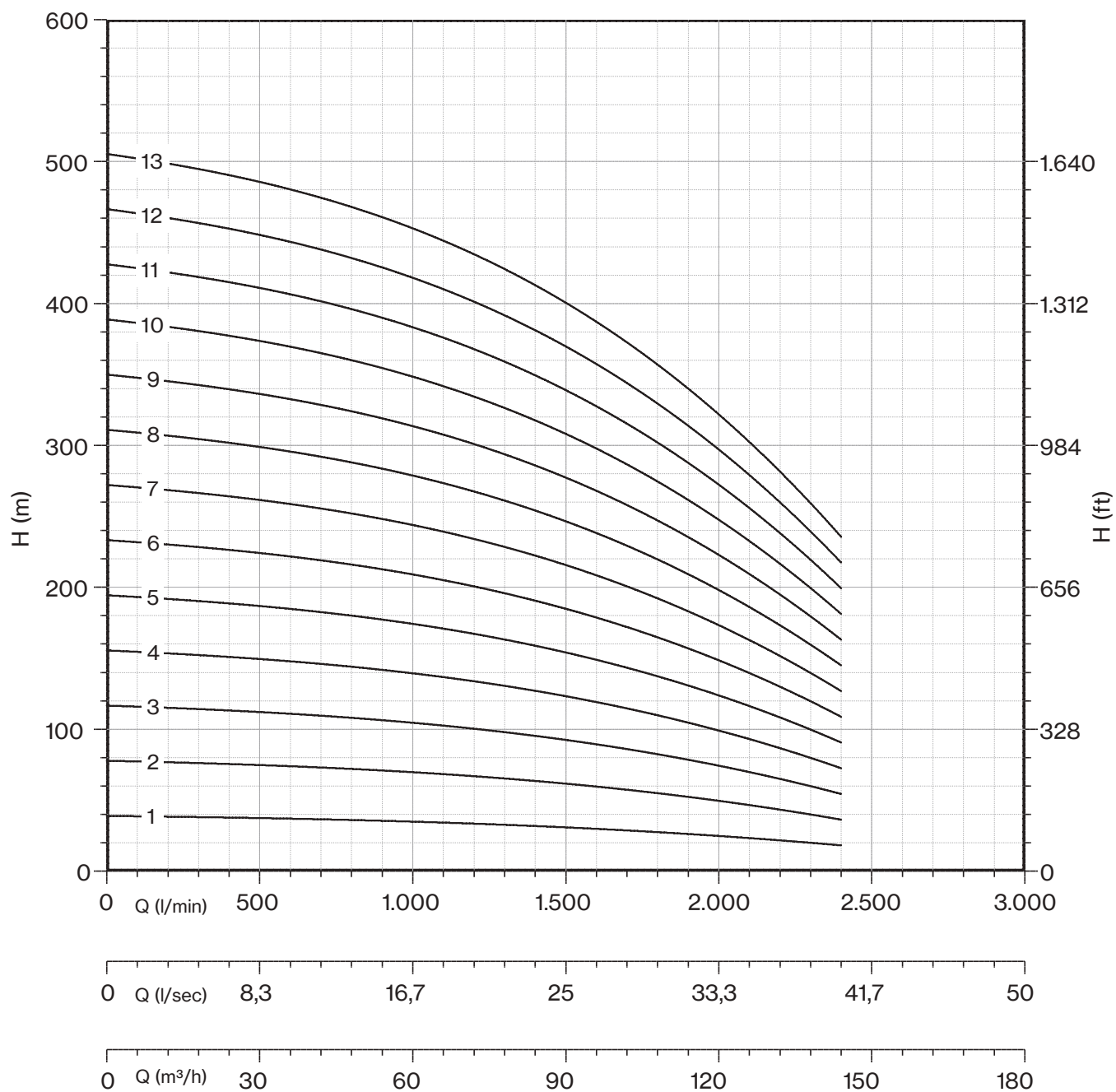


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

Max Eff. % =	75
Max kW / St. =	11,2

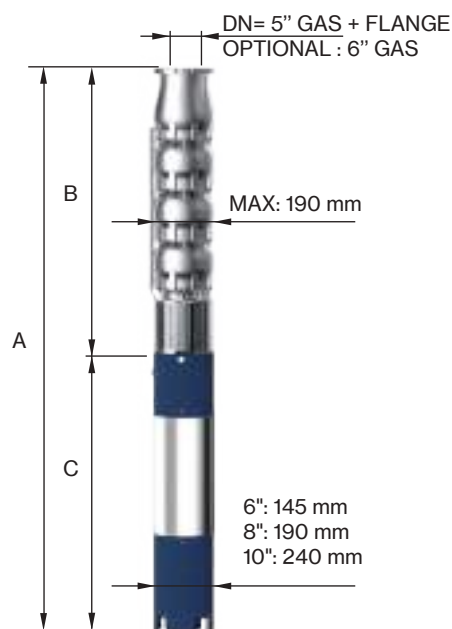
Q (flow)	25%	50%	75%	100%
NPSH (m)	2,5	2,9	3,9	7,8



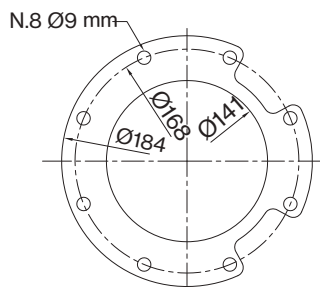


8LM 110

Motor 60 Hz - 3500 rpm				Q								
TYPE	Power		I/min	0	1200	1440	1680	1920	2160	2400	2640	2880
			I/sec	0	20	24	28	32	36	40	44	48
	HP	kW	m³/h	0	72	86,4	100,8	115,2	129,6	144	158,4	172,8
8LM 110/01	17,5	13	H[m]	40	32	31	30	29	28	25	22	18
8LM 110/02	35	26		79	65	63	61	59	55	50	44	37
8LM 110/03	50	37		119	97	94	91	88	83	75	67	55
8LM 110/04	75	55		158	130	126	122	118	110	100	89	74
8LM 110/05	90	66		198	162	157	152	147	138	125	111	92
8LM 110/06	100	75		238	194	188	182	176	165	149	133	111
8LM 110/07	125	92		277	227	220	213	206	193	174	155	129
8LM 110/08 D	150	110		317	259	251	243	235	220	199	177	147
8LM 110/09 D	150	110		356	292	283	273	264	248	224	200	166
8LM 110/10 D	175	130		396	324	314	304	294	275	249	222	184
8LM 110/11 D	200	150		436	356	345	334	323	303	274	244	203
8LM 110/12 D	200	150		475	389	377	365	353	330	299	266	221



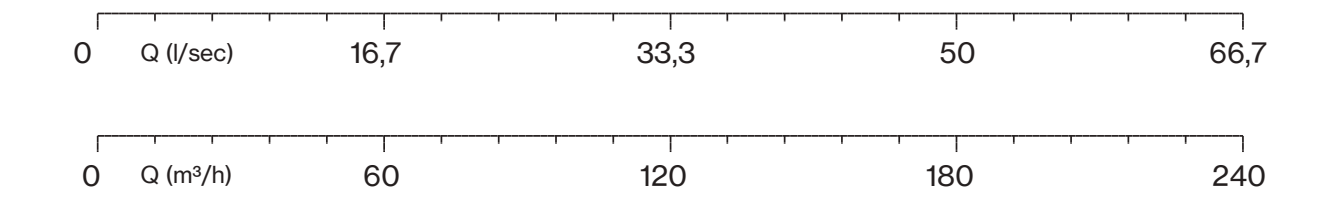
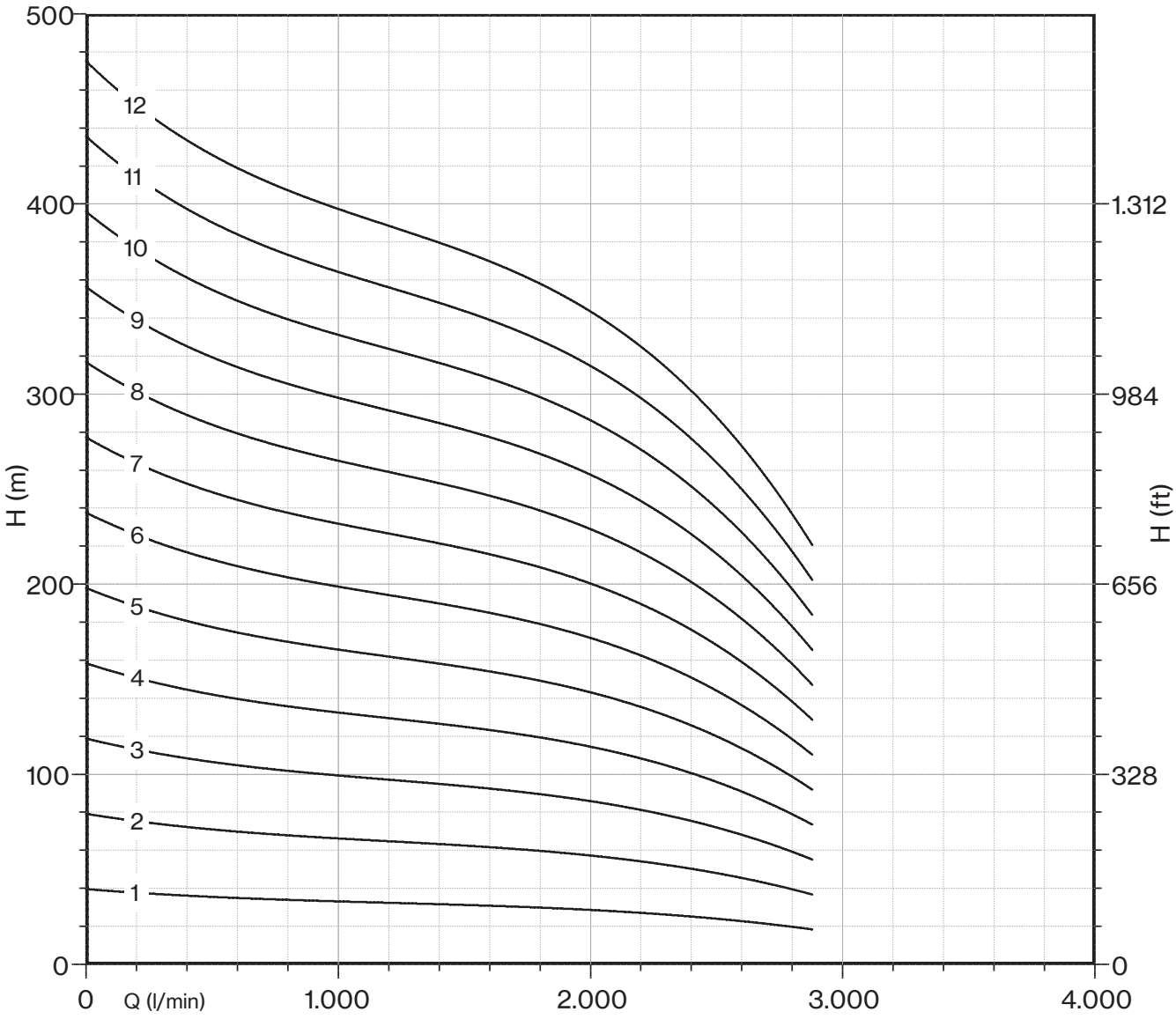
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LM 110/01	1366	525	841	70	19
8LM 110/02	1831	650	1181	100	26
8LM 110/03	2116	775	1341	118	33
8LM 110/04	2133	900	1233	200	40
8LM 110/05	2328	1025	1303	214	47
8LM 110/06	2533	1150	1383	230	53
8LM 110/07	2858	1275	1583	270	60
8LM 110/08 D	3133	1400	1733	300	67
8LM 110/09 D	3258	1525	1733	300	74
8LM 110/10 D	3284	1650	1634	385	81
8LM 110/11 D	3509	1775	1734	415	87
8LM 110/12 D	3634	1900	1734	415	94



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

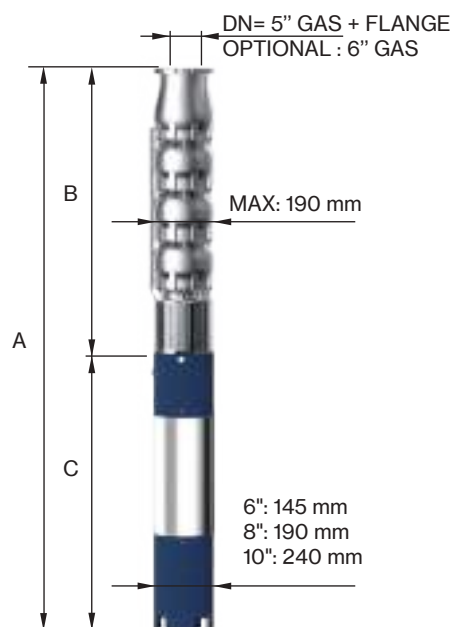
Max Eff. % =	77
Max kW / St. =	12,5

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,5	2,9	3,9	7,8

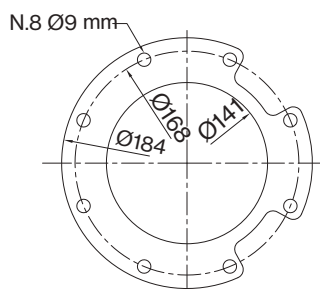


8LM 130

Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	1433	1683	1917	2167	2400	2633	2883	3117	3367
			l/sec	0	23,9	28,1	31,9	36,1	40,0	43,9	48,1	51,9	56,1
	HP	kW	m³/h	0	86	101	115	130	144	158	173	187	202
8LM 130/01	20	15	H[m]	39	32	31	30	29	27	26	24	21	17
8LM 130/02	40	30		78	65	62	60	57	55	52	47	42	35
8LM 130/03	60	45		117	97	93	89	86	82	78	71	63	52
8LM 130/04	90	66		156	130	124	119	114	109	104	94	84	69
8LM 130/05	100	75		194	162	155	149	143	137	130	118	104	86
8LM 130/06	125	92		233	194	186	179	171	164	156	142	125	104
8LM 130/07 D	150	110		272	227	217	209	200	192	181	165	146	121
8LM 130/08 D	175	130		311	259	248	238	228	219	207	189	167	138
8LM 130/09 D	175	130		350	292	279	268	257	246	233	213	188	156
8LM 130/10 D	200	150		389	324	310	298	285	274	259	236	209	173



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LM 130/01	1456	525	931	75	20
8LM 130/02	1901	650	1251	108	27
8LM 130/03	1898	775	1123	178	34
8LM 130/04	2203	900	1303	214	41
8LM 130/05	2408	1025	1383	230	48
8LM 130/06	2733	1150	1583	270	55
8LM 130/07 D	3008	1275	1733	300	62
8LM 130/08 D	3034	1400	1634	385	69
8LM 130/09 D	3159	1525	1634	385	76
8LM 130/10 D	3384	1650	1734	415	83



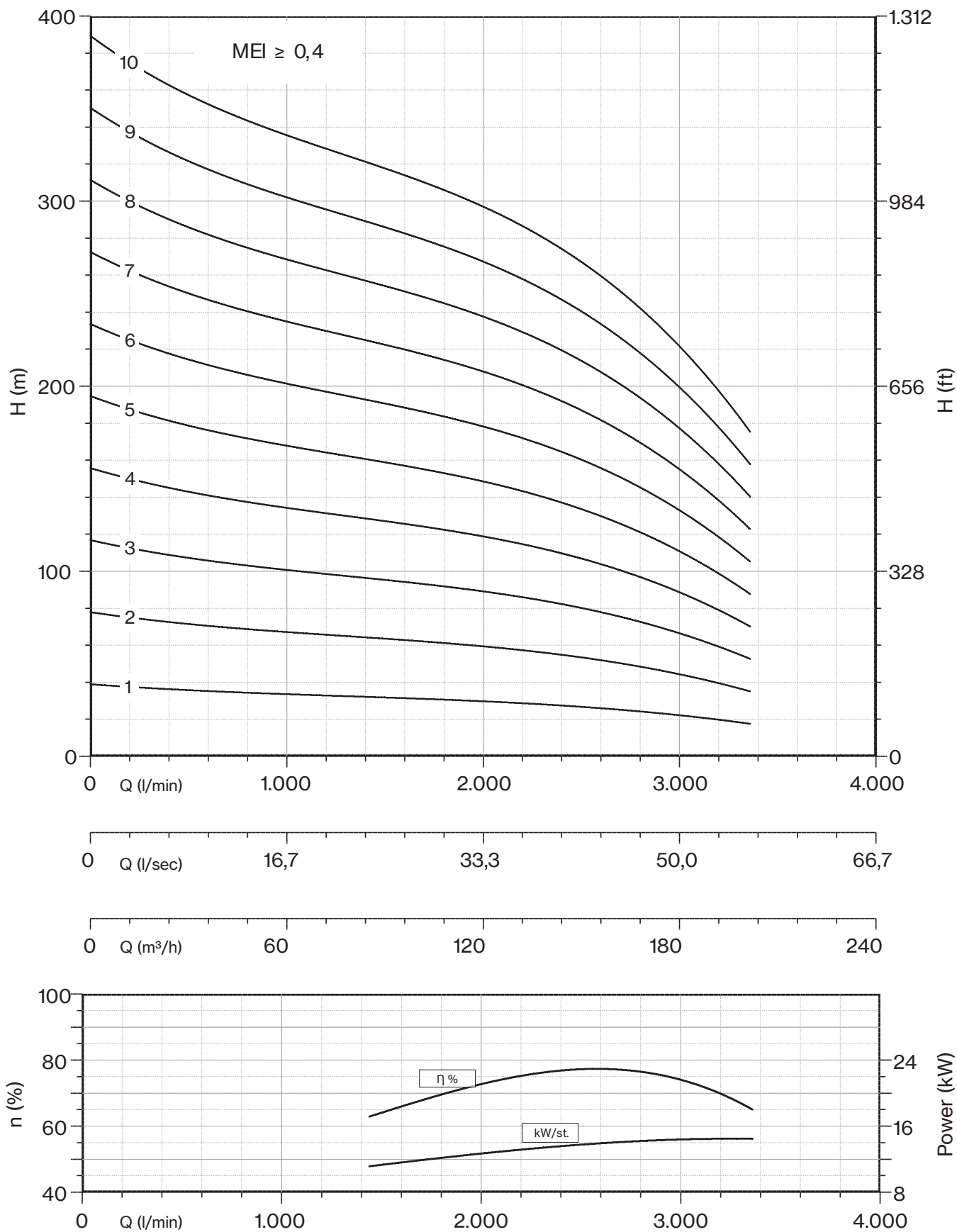
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

Max Eff. % =	78
Max kW / St. =	14,5

Q (flow)	25%	50%	75%	100%
NPSH (m)	2,5	3	3,5	8,7

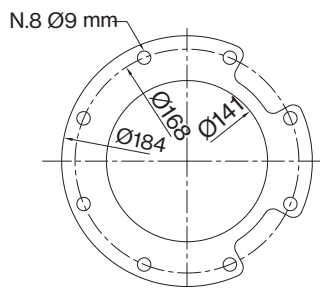
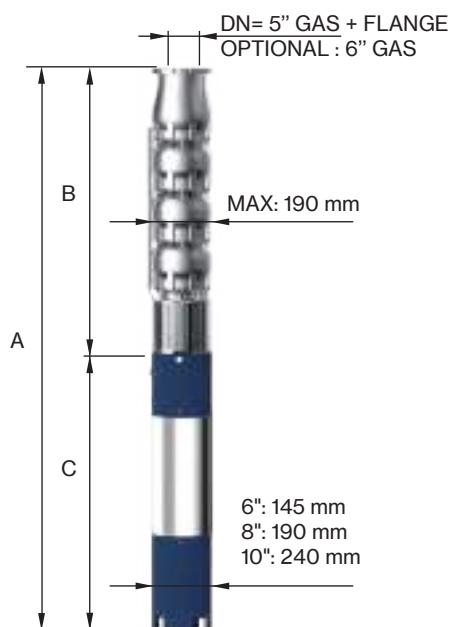
"D" Pump shaft in Duplex





8LM 160

Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	1920	2160	2400	2640	2880	3120	3360	3600	3840
			l/sec	0	32	36	40	44	48	52	56	60	64
	HP	kW	m³/h	0	115,2	129,6	144	158,4	172,8	187,2	201,6	216	230,4
8LM 160/01	25	18,5	H[m]	36	29	28	27	26	25	24	22	20	17
8LM 160/02	50	37		72	58	56	54	52	50	48	45	40	35
8LM 160/03	75	55		108	86	83	81	78	75	72	67	60	52
8LM 160/04	90	66		144	115	111	108	104	100	96	89	79	69
8LM 160/05	125	92		180	144	139	135	130	125	120	112	99	86
8LM 160/06 D	150	110		216	173	167	162	156	150	143	134	119	104
8LM 160/07 D	175	130		252	202	195	190	182	175	167	156	139	121
8LM 160/08 D	175	130		288	230	222	217	209	200	191	179	159	138
8LM 160/09 D	200	150		324	259	250	244	235	226	215	201	179	156



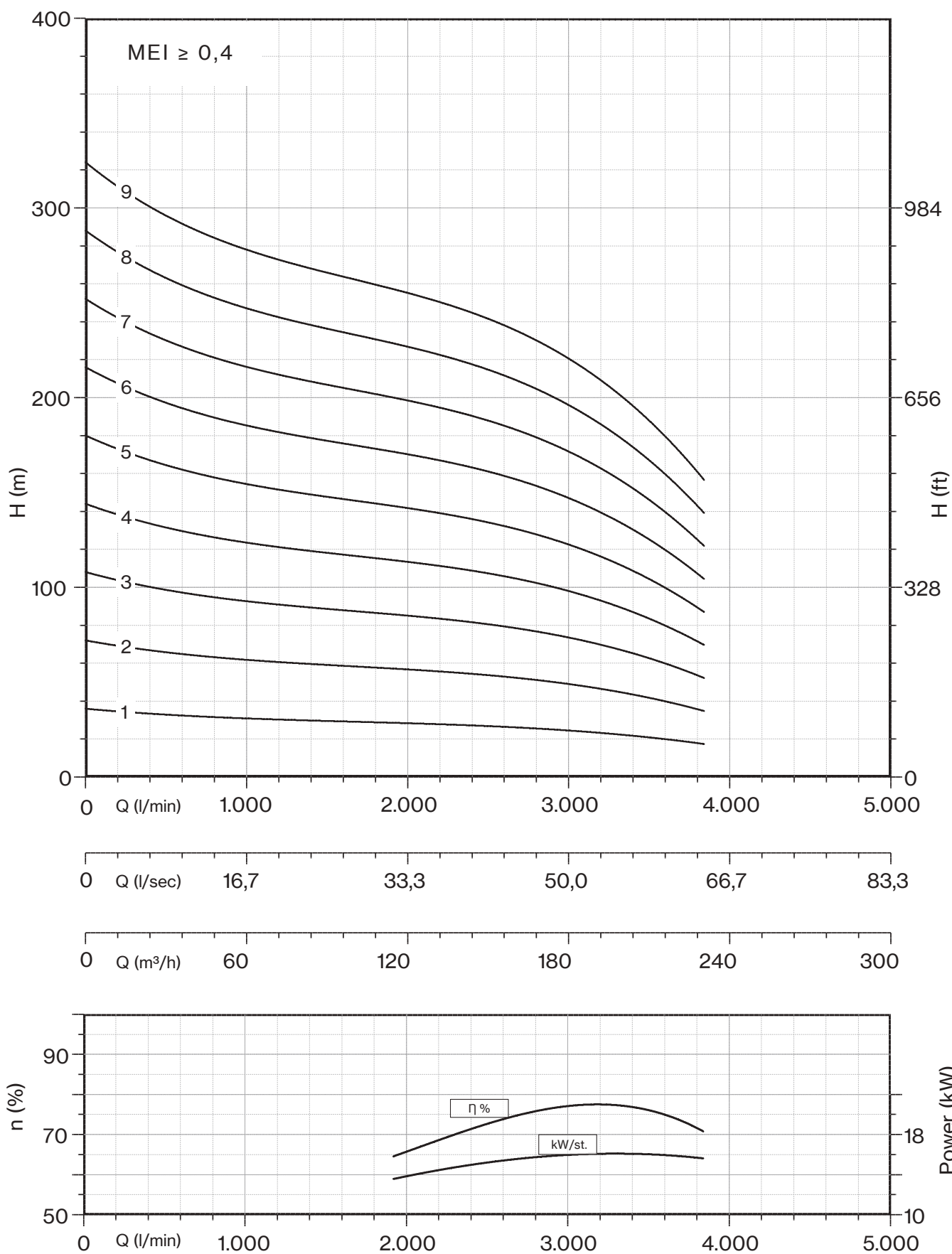
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
8LM 160/01	1541	550	991	83	20
8LM 160/02	2041	700	1341	118	28
8LM 160/03	2083	850	1233	200	35
8LM 160/04	2303	1000	1303	214	43
8LM 160/05	2733	1150	1583	270	50
8LM 160/06 D	3033	1300	1733	300	58
8LM 160/07 D	3084	1450	1634	385	65
8LM 160/08 D	3234	1600	1634	385	73
8LM 160/09 D	3484	1750	1734	415	80

Max Eff. % =	78,5
Max kW / St. =	9,3

Q (flow)	25%	50%	75%	100%
NPSH (m)	4	4,5	7	13





10-12LM & E14 lines

Deepwell Borehole



10LM line



12LM line



E14

Submersible multistage centrifugal pumps for 10", 12" and 14" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural. All components are made of stainless steel with lost wax Microfusion technology. The standard material is AISI 304 stainless steel, alternatively the following materials are available on request: AISI 316 Steel, Duplex steel, AISI 904L Steel. Bushing bearings and wear-rings made of sand abrasion-resistant rubber, reverse-Thrust ring in PTFE/Graphite.

General operating data:

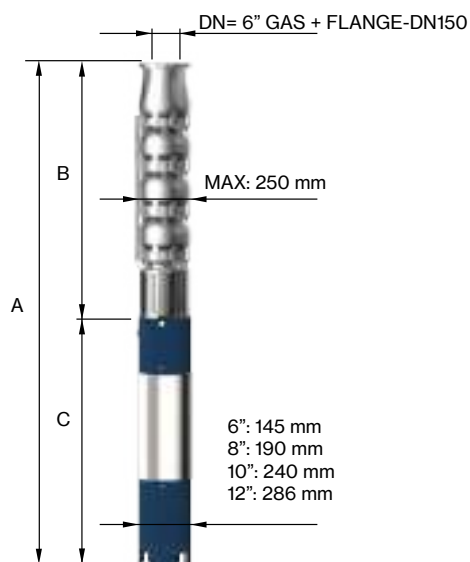
- Capacity up to 1.000 m³/h
- Pressure up to 389 m
- Hydraulic efficiency 10", up to 79,3%
- Hydraulic efficiency 12", up to 82,5%
- Hydraulic efficiency 14", up to 82,3%
- Pressure up to 39 bar
- Powers up to 400 kW
- Rotation speed up to 3.600 rpm
- Maximum depth: 350 m
- Maximum quantity of permitted sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI $\geq 0,4$ (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

Construction features

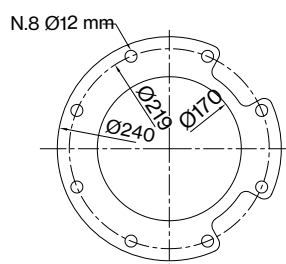
Suction and delivery outlet	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex (LMD - ED) Cast iron (E)
Valve	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex (LMD - ED) Cast iron (E)
Impellers and diffusers	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex (LMD - ED) Cast iron (E)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX) Duplex (LMD) AISI 431 (E - EX - ED)
Quantity of sand in the water	max 100 g/m ³



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	2160	2640	3120	3600	4080	4560	4800
			l/sec	0	36	44	52	60	68	76	80
	HP	kW	m³/h	0	129,6	158,4	187,2	216	244,8	273,5	287,9
10LM 190/01 DR20	40	30	H[m]	50	46	43	39	35	30	24	20
10LM 190/01 DR10	50	37		55	50	48	44	40	35	29	25
10LM 190/01	50	37		60	55	52	49	45	40	34	30
10LM 190/02 DR20	75	55		100	91	86	79	70	59	47	40
10LM 190/02 DR10	90	66		109	101	95	88	79	69	57	50
10LM 190/02	100	75		120	111	105	98	89	79	67	59
10LM 190/03 DR20	125	92		149	137	129	118	105	89	71	60
10LM 190/03 DR10 D	150	110		164	151	143	132	119	104	86	75
10LM 190/03 D	150	110		180	166	157	147	134	119	101	89
10LM 190/04 DR20 D	150	110		199	182	172	158	141	119	94	81
10LM 190/04 DR10 D	175	130		219	202	190	176	159	138	114	100
10LM 190/04 D	200	150		240	221	210	196	179	159	135	119
10LM 190/05 DR20 D	200	150		249	228	215	197	176	148	118	101
10LM 190/05 DR10 D	225	165		274	252	238	220	199	173	143	125
10LM 190/05 D	250	185		300	276	262	245	223	199	168	148
10LM 190/06 DR20 D	225	165		299	273	257	237	211	178	142	121
10LM 190/06 DR10 D	300	220		328	302	285	264	238	207	171	150
10LM 190/06 D	300	220		359	332	314	294	268	238	202	178



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LM 190/01 DR20	1876	625	1251	108	41
10LM 190/01 DR10	1966	625	1341	118	41
10LM 190/01	1966	625	1341	118	41
10LM 190/02 DR20	2038	805	1233	200	56
10LM 190/02 DR10	2108	805	1303	214	56
10LM 190/02	2188	805	1383	230	56
10LM 190/03 DR20	2568	985	1583	270	72
10LM 190/03 DR10 D	2718	985	1733	300	72
10LM 190/03 D	2718	985	1733	300	72
10LM 190/04 DR20 D	2898	1165	1733	300	87
10LM 190/04 DR10 D	2799	1165	1634	385	87
10LM 190/04 D	2899	1165	1734	415	87
10LM 190/05 DR20 D	3079	1345	1734	415	103
10LM 190/05 DR10 D	3199	1345	1854	444	103
10LM 190/05 D	3329	1345	1984	480	103
10LM 190/06 DR20 D	3379	1525	1854	444	118
10LM 190/06 DR10 D	3635	1525	2110	700	118
10LM 190/06 D	3635	1525	2110	700	118



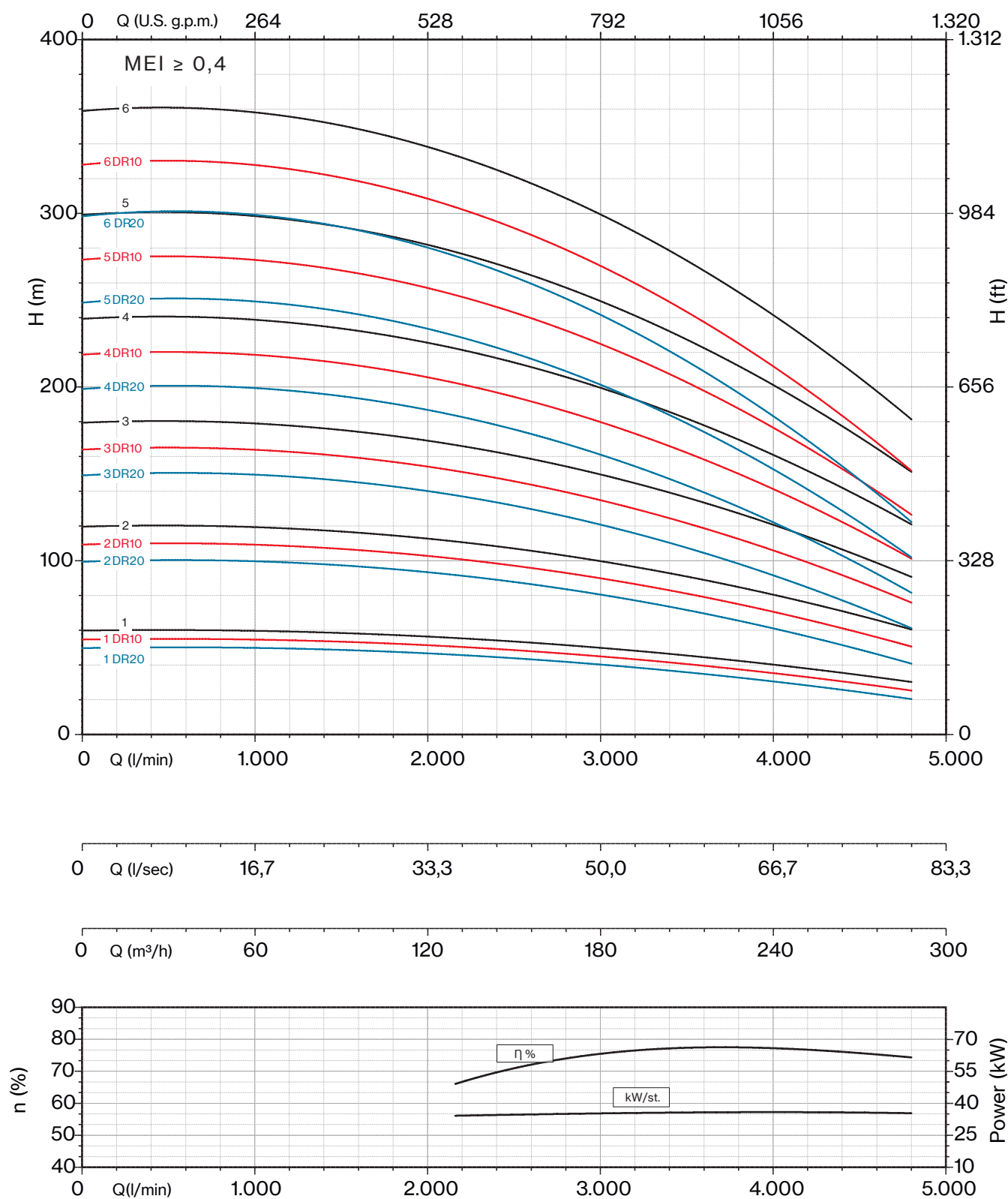
Max Eff. % DR20 =	77
Max Eff. % DR10 =	77,5
Max Eff. % =	76,5
Max kW / St. DR20 =	36
Max kW / St. DR10 =	32
Max kW / St. =	27,7

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8

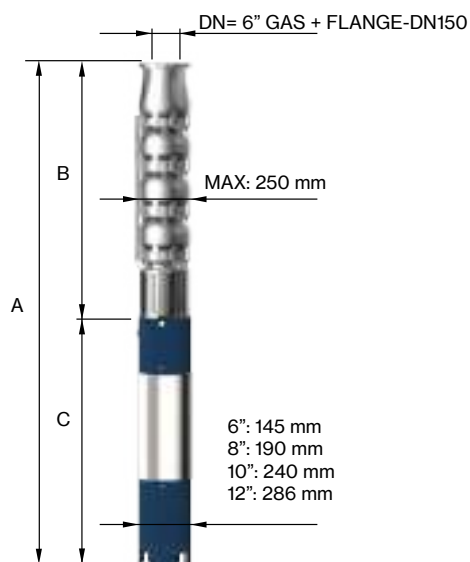
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm



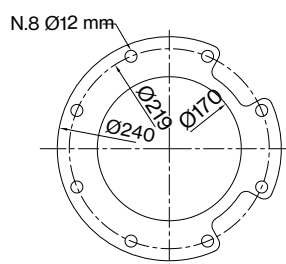
10LM 190



Motor 60 Hz - 3500 rpm			Q								
TYPE	Power		l/min	0	2640	3120	3600	4080	4560	5040	5520
			l/sec	0	44	52	60	68	76	84	92
	HP	kW	m³/h	0	158,4	187,2	216	244,8	273,5	302,3	331,1
10LM 230/01 DR20	40	30	H[m]	53	45	42	39	36	33	27	23
10LM 230/01 DR10	50	37		58	49	47	44	41	37	33	28
10LM 230/01	60	45		63	54	52	49	46	43	38	33
10LM 230/02 DR20	90	66		106	89	84	78	72	65	55	46
10LM 230/02 DR10	90	66		116	98	94	88	82	75	66	56
10LM 230/02	125	92		126	108	104	98	92	85	76	66
10LM 230/03 DR20	125	92		159	134	125	117	108	98	82	69
10LM 230/03 DR10 D	150	110		175	147	141	132	124	112	98	85
10LM 230/03 D	175	130		189	162	156	147	138	128	114	99
10LM 230/04 DR20 D	175	130		212	179	167	156	144	130	109	92
10LM 230/04 DR10 D	200	150		233	196	188	176	165	150	131	113
10LM 230/04 D	225	165		252	217	207	196	184	170	152	132
10LM 230/05 DR20 D	225	165		265	223	209	194	180	163	137	115
10LM 230/05 DR10 D	250	185		291	245	235	220	206	187	164	141
10LM 230/05 D	300	220		315	271	259	245	230	213	190	166
10LM 230/06 DR20 D	250	185		318	268	251	233	216	195	164	138
10LM 230/06 DR10 D	300	220		349	294	282	264	247	225	197	169
10LM 230/06 D	340	250		378	325	311	294	276	256	228	199



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LM 230/01 DR20	1876	625	1251	108	41
10LM 230/01 DR10	1966	625	1341	118	41
10LM 230/01	1748	625	1123	178	41
10LM 230/02 DR20	2108	805	1303	214	56
10LM 230/02 DR10	2108	805	1303	214	56
10LM 230/02	2388	805	1583	270	56
10LM 230/03 DR20	2568	985	1583	270	72
10LM 230/03 DR10 D	2718	985	1733	300	72
10LM 230/03 D	2619	985	1634	385	72
10LM 230/04 DR20 D	2799	1165	1634	385	87
10LM 230/04 DR10 D	2899	1165	1734	415	87
10LM 230/04 D	3019	1165	1854	444	87
10LM 230/05 DR20 D	3199	1345	1854	444	103
10LM 230/05 DR10 D	3329	1345	1984	480	103
10LM 230/05 D	3455	1345	2110	700	103
10LM 230/06 DR20 D	3509	1525	1984	480	118
10LM 230/06 DR10 D	3635	1525	2110	700	118
10LM 230/06 D	3805	1525	2280	775	118



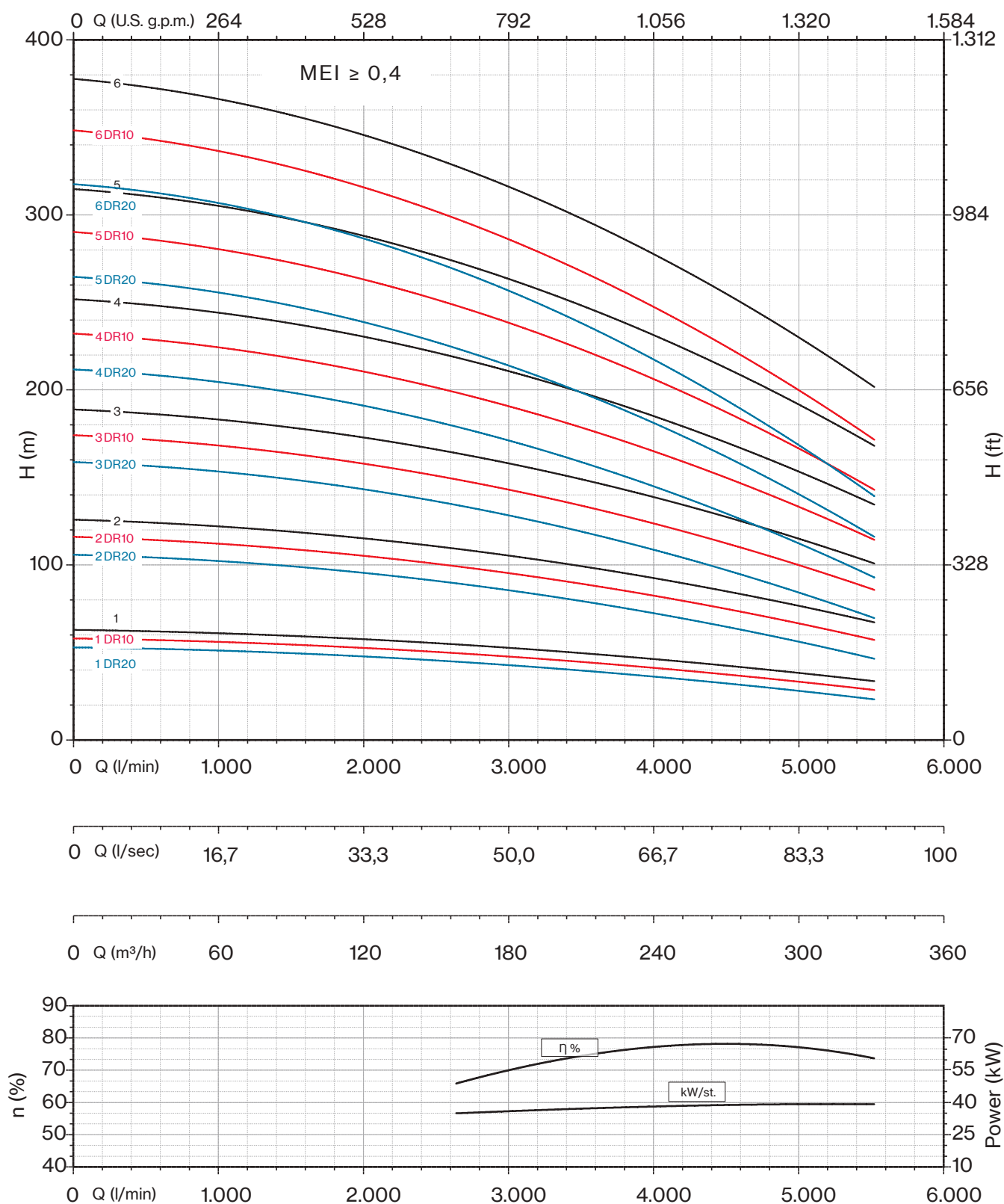
Max Eff. % DR20 =	79,2
Max Eff. % DR10 =	79,5
Max Eff. % =	78,4
Max kW / St. DR20 =	39,4
Max kW / St. DR10 =	33,7
Max kW / St. =	30,3

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8

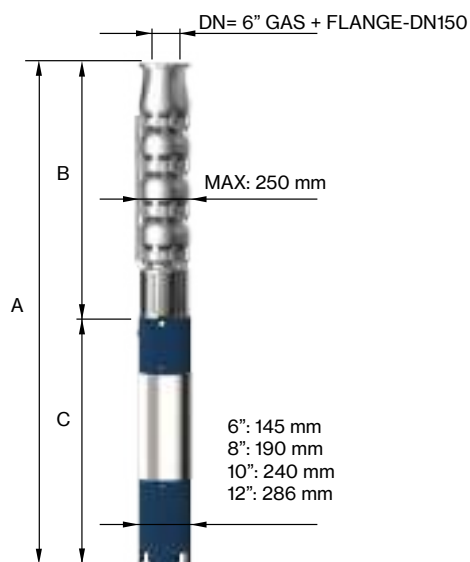
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm



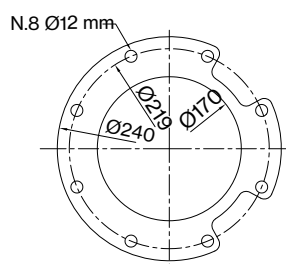
10LM 230



Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		I/min	0	2880	3360	3840	4320	4800	5280	5760	6000	6240
			I/sec	0	48	56	64	72	80	88	96	100	104
	HP	kW	m ³ /h	0	172,8	201,6	230,4	259,1	287,9	316,7	345,5	359,9	374,3
10LM 250/01 DR20	40	30	H[m]	45	42	41	39	36	33	30	26		
10LM 250/01 DR10	50	37		52	48	46	45	41	39	35	31	29	
10LM 250/01	60	45		63	53	50	48	46	43	40	37	36	35
10LM 250/02 DR20	90	66		90	84	81	78	73	67	60	51		
10LM 250/02 DR10	90	66		103	96	93	89	83	77	70	63	57	
10LM 250/02	125	92		127	105	100	97	92	85	80	75	72	69
10LM 250/03 DR20	125	92		135	126	122	117	109	100	91	77		
10LM 250/03 DR10 D	150	110		155	143	139	134	124	116	105	94	86	
10LM 250/03 D	175	130		190	158	149	145	138	128	120	112	108	104
10LM 250/04 DR20 D	175	130		180	168	162	156	145	134	121	103		
10LM 250/04 DR10 D	200	150		206	191	185	179	166	154	139	126	114	
10LM 250/04 D	225	165		253	211	199	194	184	170	160	150	144	138
10LM 250/05 DR20 D	225	165		225	210	203	194	181	167	151	128		
10LM 250/05 DR10 D	250	185		258	239	232	223	207	193	174	157	143	
10LM 250/05 D	300	220		317	264	249	242	230	213	200	187	180	173
10LM 250/06 DR20 D	250	185		270	252	244	233	218	200	181	154		
10LM 250/06 DR10 D	300	220		309	287	278	268	249	232	209	188	171	
10LM 250/06 D	340	250		380	316	299	290	276	256	240	225	216	207



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LM 250/01 DR20	1876	625	1251	108	41
10LM 250/01 DR10	1966	625	1341	118	41
10LM 250/01	1858	625	1233	200	41
10LM 250/02 DR20	2108	805	1303	214	56
10LM 250/02 DR10	2188	805	1383	230	56
10LM 250/02	2388	805	1583	270	56
10LM 250/03 DR20	2568	985	1583	270	72
10LM 230/03 DR10 D	2619	985	1634	385	72
10LM 230/03 D	2719	985	1734	415	72
10LM 230/04 DR20 D	2799	1165	1634	385	87
10LM 230/04 DR10 D	3019	1165	1854	444	87
10LM 230/04 D	3275	1165	2110	700	87
10LM 230/05 DR20 D	3199	1345	1854	444	103
10LM 230/05 DR10 D	3455	1345	2110	700	103
10LM 230/05 D	3625	1345	2280	775	103
10LM 230/06 DR20 D	3509	1525	1984	480	118
10LM 230/06 DR10 D	3805	1525	2280	775	118
10LM 230/06 D	3805	1525	2280	775	118



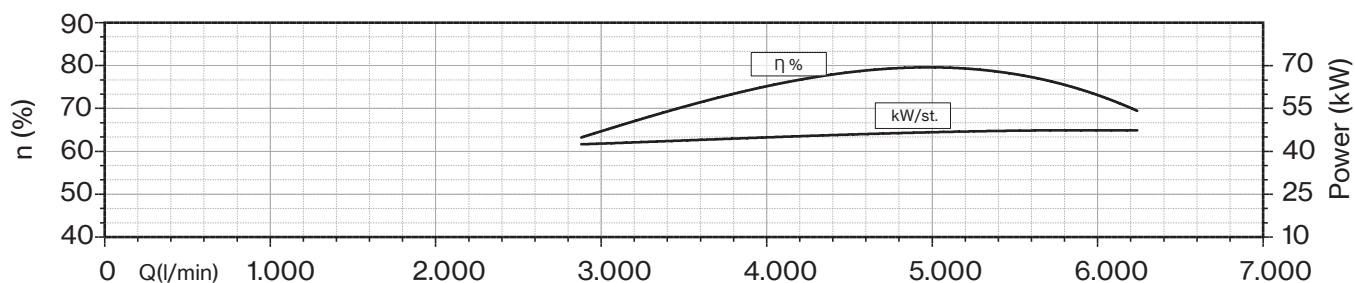
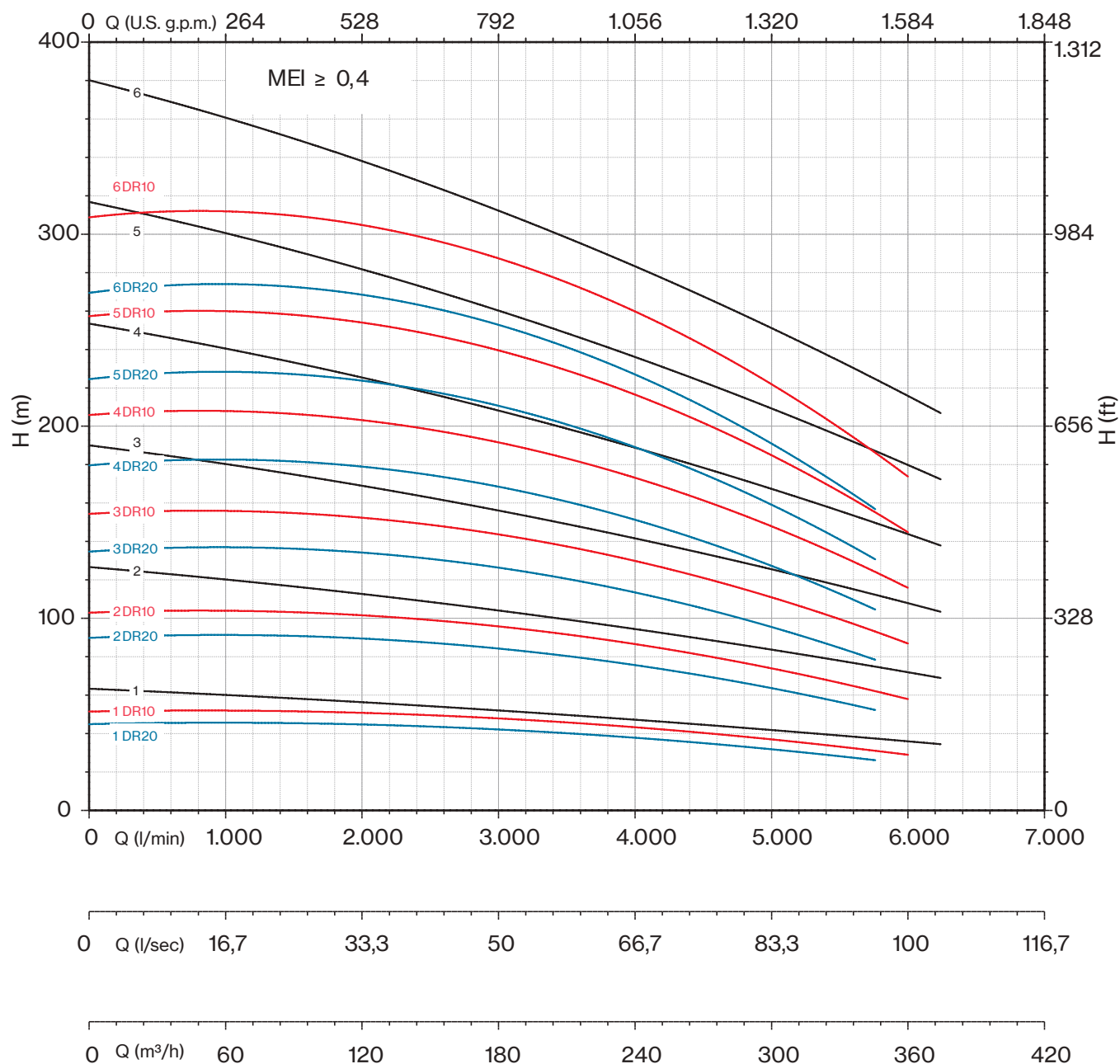
Max Eff. % DR20 =	79,3
Max Eff. % DR10 =	79,5
Max Eff. % =	79
Max kW / St. DR20 =	47,6
Max kW / St. DR10 =	38,9
Max kW / St. =	31,1

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8

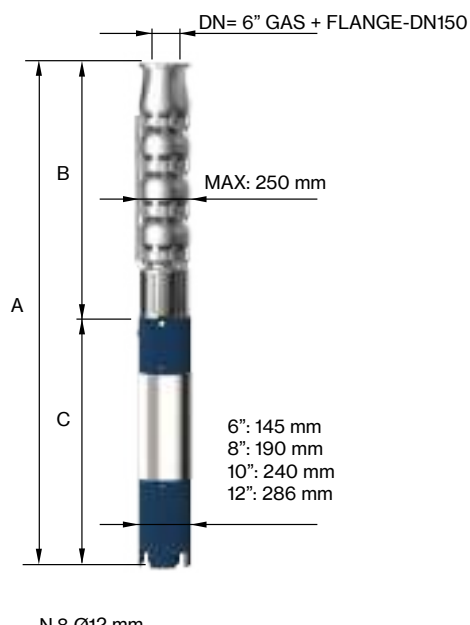
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm



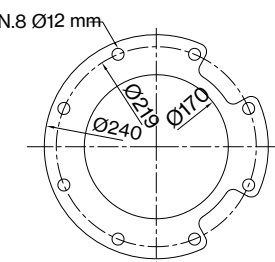
10LM 250



Motor 60 Hz - 3500 rpm			Q									
TYPE	Power		l/min	0	3600	4080	4560	5040	5520	6000	6480	6960
			l/sec	0	60	68	76	84	92	100	108	116
	HP	kW	m³/h	0	216	244,8	273,5	302,3	331,1	359,9	388,7	417,5
10LM 275/01 DR20	60	45	H[m]	52	41	40	38	36	33	31	28	23
10LM 275/01 DR10	75	55		59	48	47	44	42	39	37	35	30
10LM 275/01	90	66		65	54	53	50	48	46	43	41	36
10LM 275/02 DR20	125	92		104	83	80	75	71	66	61	56	47
10LM 275/02 DR10 D	150	110		118	96	93	89	85	79	74	69	60
10LM 275/02 D	175	130		130	108	105	101	97	91	86	81	72
10LM 275/03 DR20 D	175	130		156	124	120	113	107	98	92	84	70
10LM 275/03 DR10 D	200	150		176	144	140	133	127	118	111	104	90
10LM 275/03 D	250	185		194	162	158	151	145	137	130	122	108
10LM 275/04 DR20 D	250	185		209	166	160	151	143	131	122	112	93
10LM 275/04 DR10 D	300	220		235	192	187	177	169	158	149	138	120
10LM 275/04 D	340	250		259	217	211	202	194	182	173	162	144
10LM 275/05 DR20 D	300	220		261	207	200	189	179	164	153	140	117
10LM 275/05 DR10 D	340	250		294	240	233	222	212	197	186	173	150
10LM 275/05 D	400	300		324	271	264	252	242	228	216	203	180
10LM 275/06 DR20 D	400	300		313	249	240	226	214	197	183	168	140
10LM 275/06 DR10 D	400	300		353	289	280	266	254	237	223	207	180
10LM 275/06 D	500	370		389	325	316	302	290	273	259	244	216



Motor 60 Hz 3500 rpm	Dimensions (mm)			Weight (kg)	
TYPE	A	B	C	M	P
10LM 275/01 DR20	1748	625	1123	178	41
10LM 275/01 DR10	1858	625	1233	200	41
10LM 275/01	1928	625	1303	214	41
10LM 275/02 DR20	2388	805	1583	270	56
10LM 275/02 DR10 D	2538	805	1733	300	56
10LM 275/02 D	2439	805	1634	385	56
10LM 275/03 DR20 D	2619	985	1634	385	72
10LM 275/03 DR10 D	2719	985	1734	415	72
10LM 275/03 D	2969	985	1984	480	72
10LM 275/04 DR20 D	3149	1165	1984	480	87
10LM 275/04 DR10 D	3275	1165	2110	700	87
10LM 275/04 D	3445	1165	2280	775	87
10LM 275/05 DR20 D	3455	1345	2110	700	103
10LM 275/05 DR10 D	3625	1345	2280	775	103
10LM 275/05 D	3625	1345	2280	775	103
10LM 275/06 DR20 D	3805	1525	2280	775	118
10LM 275/06 DR10 D	3805	1525	2280	775	118
10LM 275/06 D	3845	1525	2320	1010	118



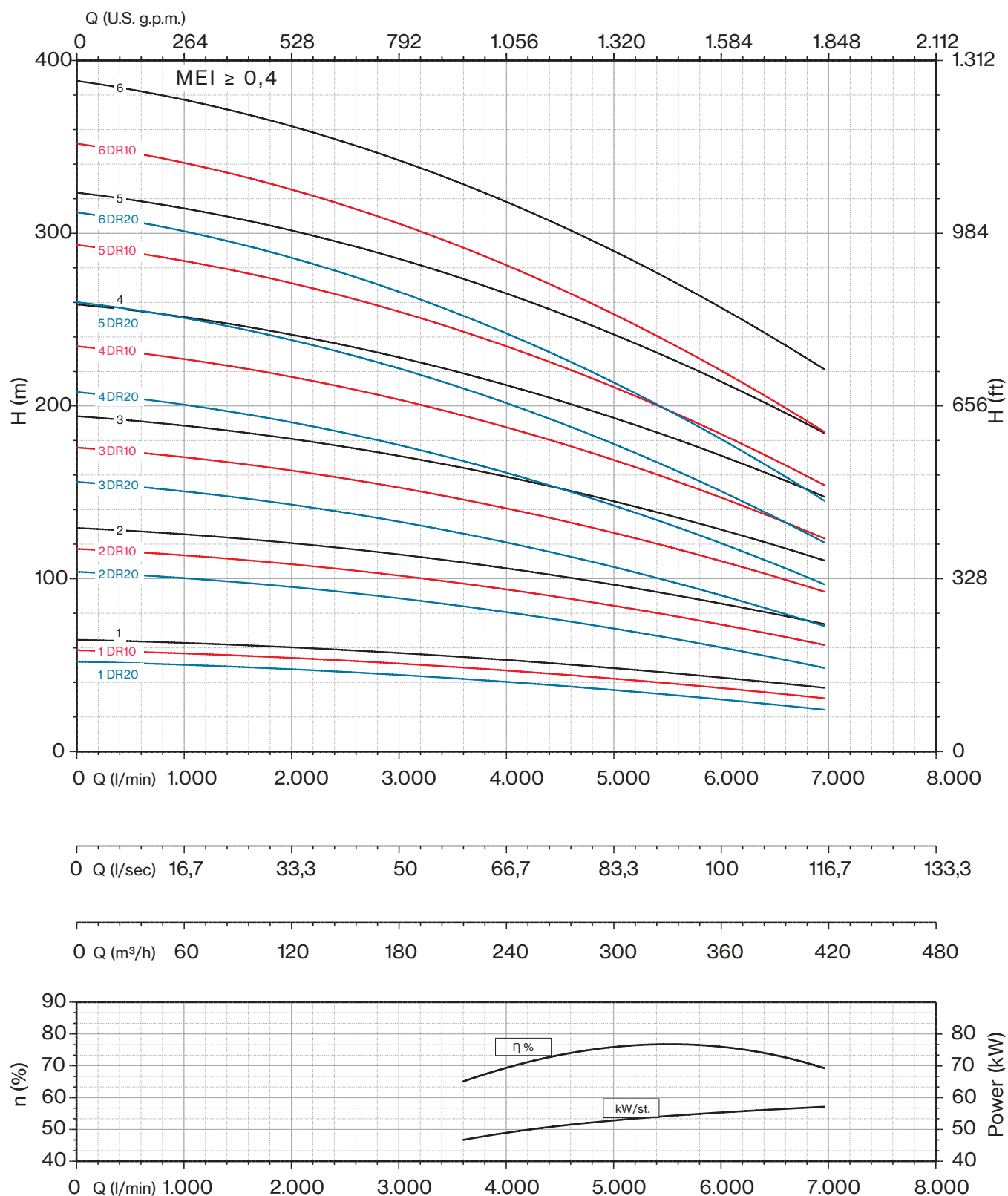
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

Max Eff. % DR20 =	76,5
Max Eff. % DR10 =	77,2
Max Eff. % =	76,1
Max kW / St. DR20 =	57,1
Max kW / St. DR10 =	50,2
Max kW / St. =	43,3

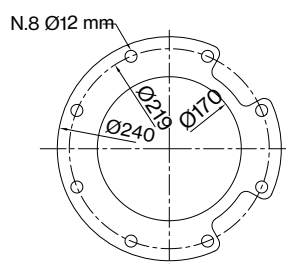
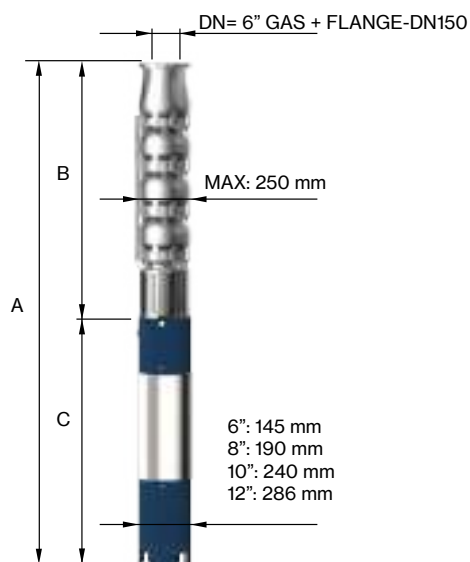
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8



10LM 275



Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	3600	4200	4800	5400	6000	6600	7200	7800	8400
			l/sec	0	60	70	80	90	100	110	120	130	140
	HP	kW	m ³ /h	0	216	252	288	324	360	396	432	468	504
12LM 360/01 DR35	90	66	H[m]	59	55	53	53	50	48	46	41		
12LM 360/01 DR26	100	75		66	64	63	62	60	56	54	52	49	
12LM 360/01 DR20	125	92		71	69	68	67	65	63	60	58	54	49
12LM 360/01 DR10 D	150	110		79	75	74	73	71	69	67	63	60	58
12LM 360/01 D	150	110		89	81	79	79	76	75	74	72	67	60
12LM 360/02 DR35 D	175	130		118	109	107	105	101	95	91	82		
12LM 360/02 DR26 D	225	165		132	128	127	124	121	112	108	104	98	
12LM 360/02 DR20 D	250	185		141	137	135	134	130	126	121	115	108	98
12LM 360/02 DR10 D	300	220		158	150	149	146	143	138	134	127	121	115
12LM 360/02 D	300	220		179	161	158	157	153	150	149	144	134	121



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

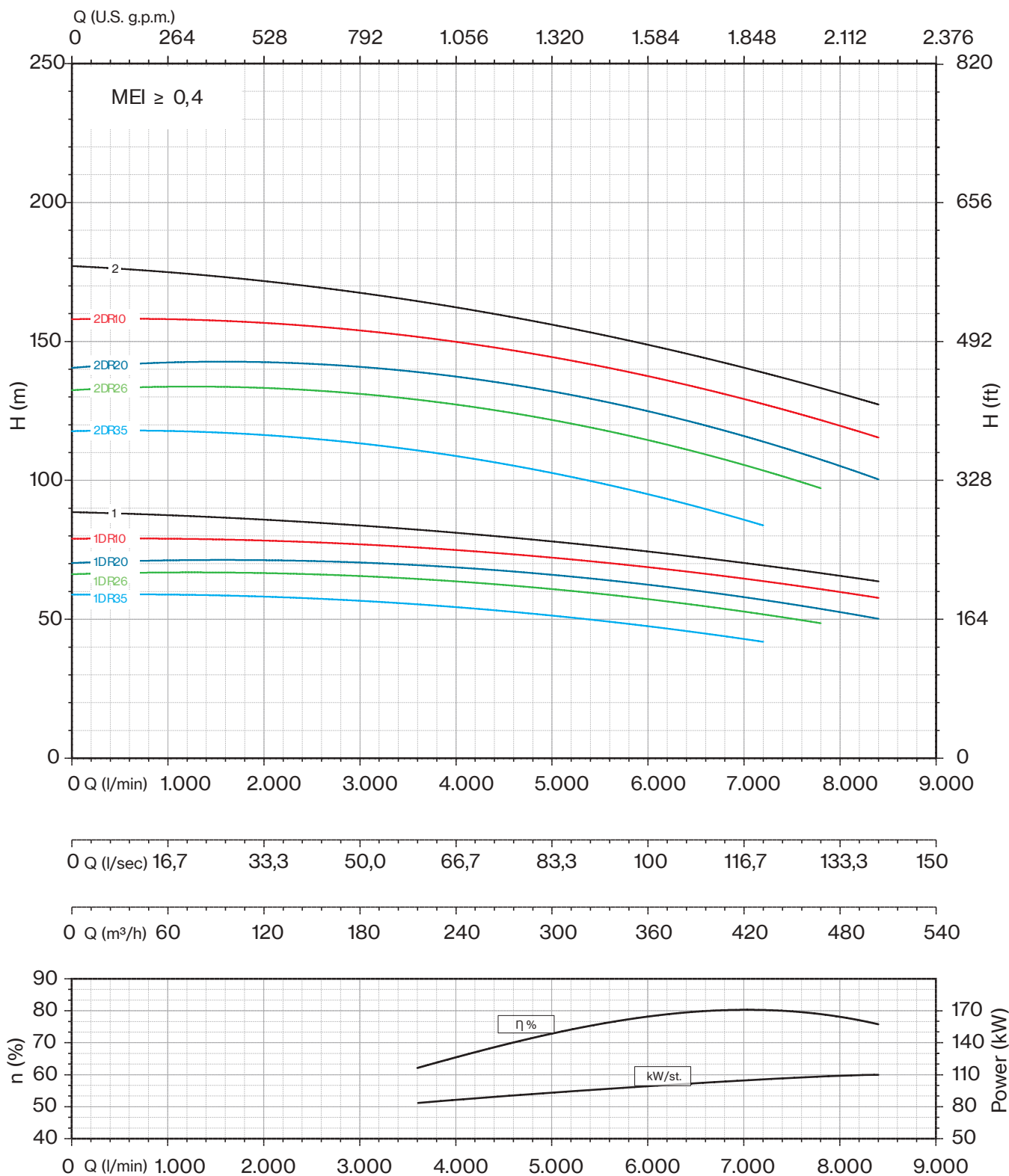
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
12LM 360/01 DR35	2073	770	1303	214	79
12LM 360/01 DR26	2153	770	1383	230	79
12LM 360/01 DR20	2353	770	1583	270	79
12LM 360/01 DR10 D	2503	770	1733	300	79
12LM 360/01 D	2503	770	1733	300	79
12LM 360/02 DR35 D	2634	1000	1634	385	104
12LM 360/02 DR26 D	2854	1000	1854	444	104
12LM 360/02 DR20 D	2984	1000	1984	480	104
12LM 360/02 DR10 D	3110	1000	2110	700	104
12LM 360/02 D	3110	1000	2110	700	104

Max Eff. % =	81
Max Eff. % DR10 =	80,5
Max Eff. % DR20 =	80
Max Eff. % DR26 =	78,5
Max Eff. % DR35 =	77,5
Max kW / St. Nom. =	111,1
Max kW / St. DR10 =	95,5
Max kW / St. DR20 =	85,6
Max kW / St. DR26 =	76,3
Max kW / St. DR35 =	63,7

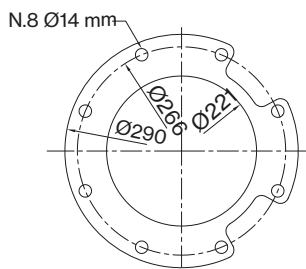
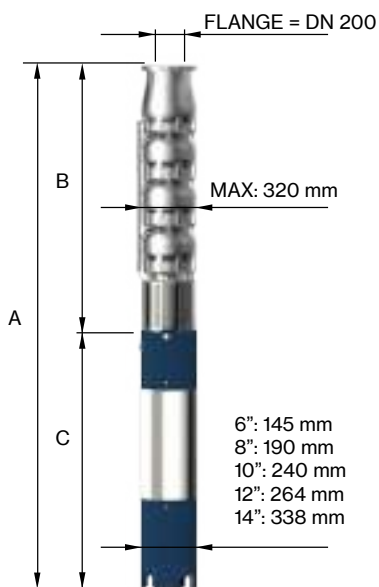
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8



10LM 360



Motor 60 Hz - 3500 rpm			Q										
TYPE	Power		l/min	0	3600	4200	4800	5400	6000	6600	7200	7800	8400
	HP	kW	l/sec	0	60	70	80	90	100	110	120	130	140
			m³/h	0	216	252	288	324	360	396	432	468	504
12LM 360/03 DR35 D	300	220	H[m]	177	164	160	158	151	143	137	124		
12LM 360/03 DR26 D	340	250		199	193	190	186	181	168	162	156	147	
12LM 360/03 DR20 D	400	300		212	206	203	201	194	188	181	173	162	147
12LM 360/03 DR10 D	400	300		238	225	223	219	214	207	201	190	181	173
12LM 360/03 D	500	370		268	242	238	236	229	225	223	216	201	181
12LM 360/04 DR35 D	400	300		236	219	213	211	202	190	182	165		
12LM 360/04 DR26 D	500	370		265	257	253	248	242	225	217	207	196	
12LM 360/04 DR20 D	500	370		282	274	271	268	259	251	242	230	217	196
12LM 360/04 DR10 D	550	400		317	300	297	291	286	276	268	253	242	230



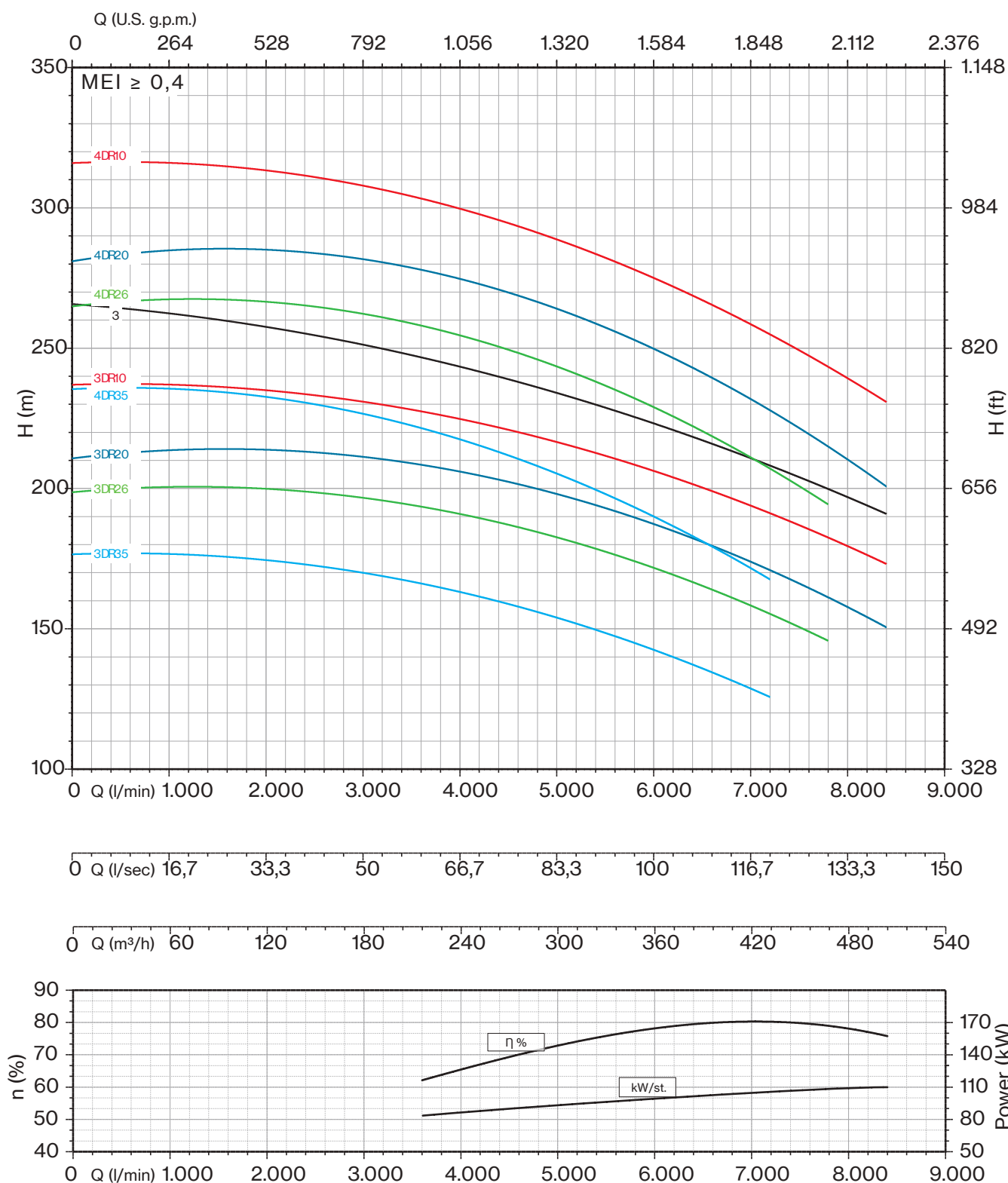
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
12LM 360/03 DR35 D	3340	1230	2110	700	129
12LM 360/03 DR26 D	3510	1230	2280	775	129
12LM 360/03 DR20 D	3510	1230	2280	775	129
12LM 360/03 DR10 D	3510	1230	2280	775	129
12LM 360/03 D	3550	1230	2320	1010	129
12LM 360/04 DR35 D	3740	1460	2280	775	154
12LM 360/04 DR26 D	3780	1460	2320	1010	154
12LM 360/04 DR20 D	3780	1460	2320	1010	154
12LM 360/04 DR10 D	3920	1460	2460	1105	154

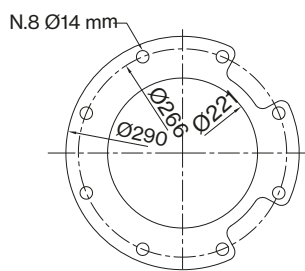
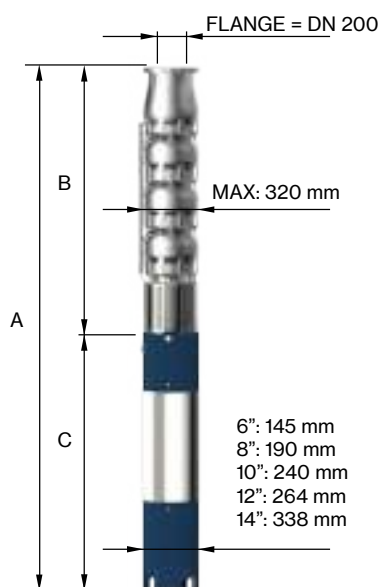
Max Eff. % =	81
Max Eff. % DR10 =	80,5
Max Eff. % DR20 =	80
Max Eff. % DR26 =	78,5
Max Eff. % DR35 =	77,5
Max kW / St. Nom. =	111,1
Max kW / St. DR10 =	95,5
Max kW / St. DR20 =	85,6
Max kW / St. DR26 =	76,3
Max kW / St. DR35 =	63,7

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8

12LM 360



Motor 60 Hz - 3500 rpm				Q											
TYPE	Power		l/min	0	4800	5400	6000	6600	7200	7800	8400	9000	9600	10200	10800
			l/sec	0	80	90	100	110	120	130	140	150	160	170	180
	HP	kW	m³/h	0	287,9	323,9	359,9	395,9	431,9	467,9	503,9	539,9	575,9	611,9	647,9
12LM 400/01 DR30	90	66	H[m]	62	56	54	52	49	46	43	39	35			
12LM 400/01 DR20	125	92		68	63	62	59	56	53	50	47	43	37	32	
12LM 400/01 DR10	125	92		76	72	69	66	63	60	58	55	51	46	40	
12LM 400/01 D	150	110		84	78	75	72	69	66	63	60	58	53	45	39
12LM 400/01A D	175	130		88	82	78	76	75	72	69	66	64	59	56	46
12LM 400/02 DR30 D	175	130		124	112	108	104	98	92	85	78	69			
12LM 400/02 DR20 D	225	165		135	127	124	118	111	105	100	94	85	75	63	
12LM 400/02 DR10 D	250	185		153	144	138	132	127	121	115	109	103	92	81	
12LM 400/02 D	300	220		167	156	150	144	138	132	127	121	115	105	89	78
12LM 400/02A D	340	250		176	164	156	153	150	144	138	132	128	118	112	92



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

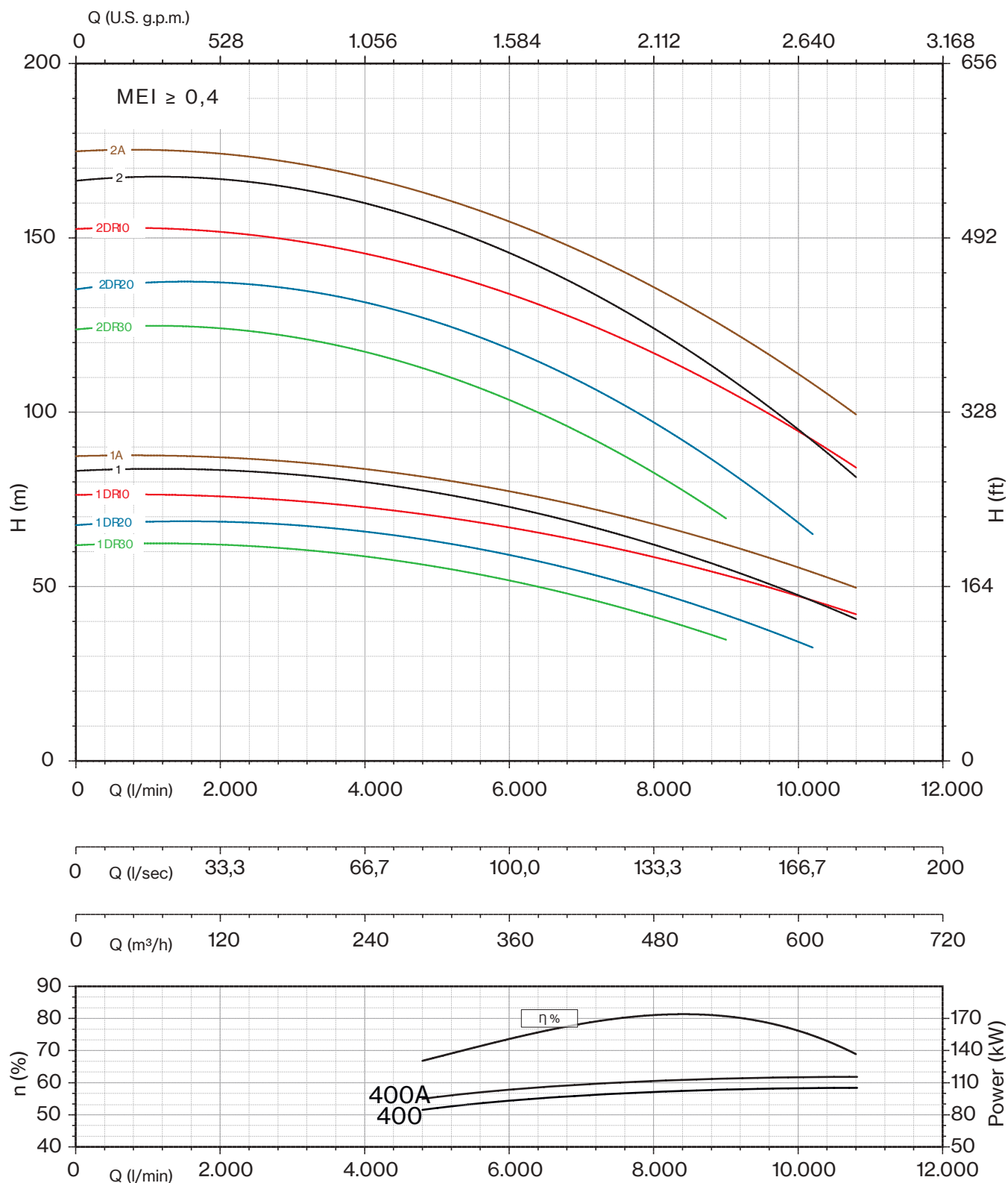
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
12LM 400/01 DR30	2073	770	1303	214	79
12LM 400/01 DR20	2353	770	1583	270	79
12LM 400/01 DR10	2353	770	1583	270	79
12LM 400/01 D	2503	770	1733	300	79
12LM 400/01A D	2404	770	1634	385	79
12LM 400/02 DR30 D	2634	1000	1634	385	104
12LM 400/02 DR20 D	2854	1000	1854	444	104
12LM 400/02 DR10 D	2984	1000	1984	480	104
12LM 400/02 D	3110	1000	2110	700	104
12LM 400/02A D	3280	1000	2280	775	104

Max Eff. % A =	82,5
Max Eff. % =	81,6
Max Eff. % DR10 =	82,7
Max Eff. % DR20 =	81,8
Max Eff. % DR30 =	81,2
Max kW / St. A =	115,9
Max kW / St. Nom. =	104,5
Max kW / St. DR10 =	91,7
Max kW / St. DR20 =	78,9
Max kW / St. DR30 =	64

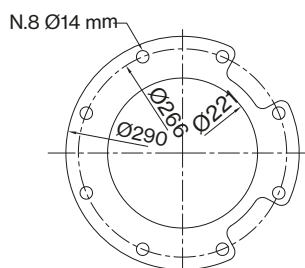
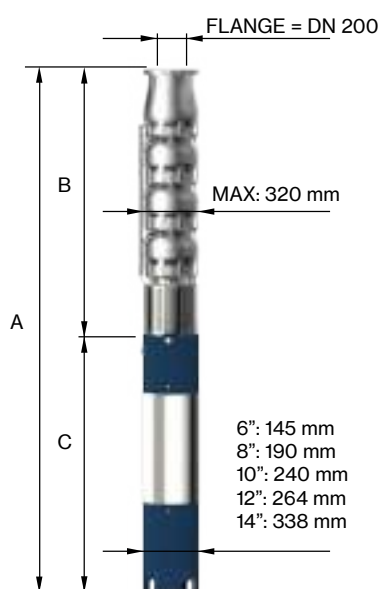
Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8



12LM 400



Motor 60 Hz - 3500 rpm			Q												
TYPE	Power		I/min	0	4800	5400	6000	6600	7200	7800	8400	9000	9600	10200	10800
			I/sec	0	80	90	100	110	120	130	140	150	160	170	180
	HP	kW	m³/h	0	288	324	360	396	432	468	504	540	576	612	648
12LM 400/03 DR30 D	300	220	H[m]	186	168	162	156	147	138	128	117	104			
12LM 400/03 DR20 D	340	250		203	190	186	177	167	158	149	141	128	112	95	
12LM 400/03 DR10 D	400	300		229	216	207	199	190	181	173	164	154	138	121	
12LM 400/03 D	450	330		251	233	225	216	207	199	190	181	173	158	134	117
12LM 400/03A D	500	370		264	246	233	229	225	216	207	199	193	177	168	138
12LM 400/04 DR30 D	400	300		248	225	217	207	196	184	170	156	138			
12LM 400/04 DR20 D	450	330		271	253	248	236	222	211	199	188	170	150	127	
12LM 400/04 DR10 D	500	370		305	288	276	265	253	242	230	219	205	184	161	



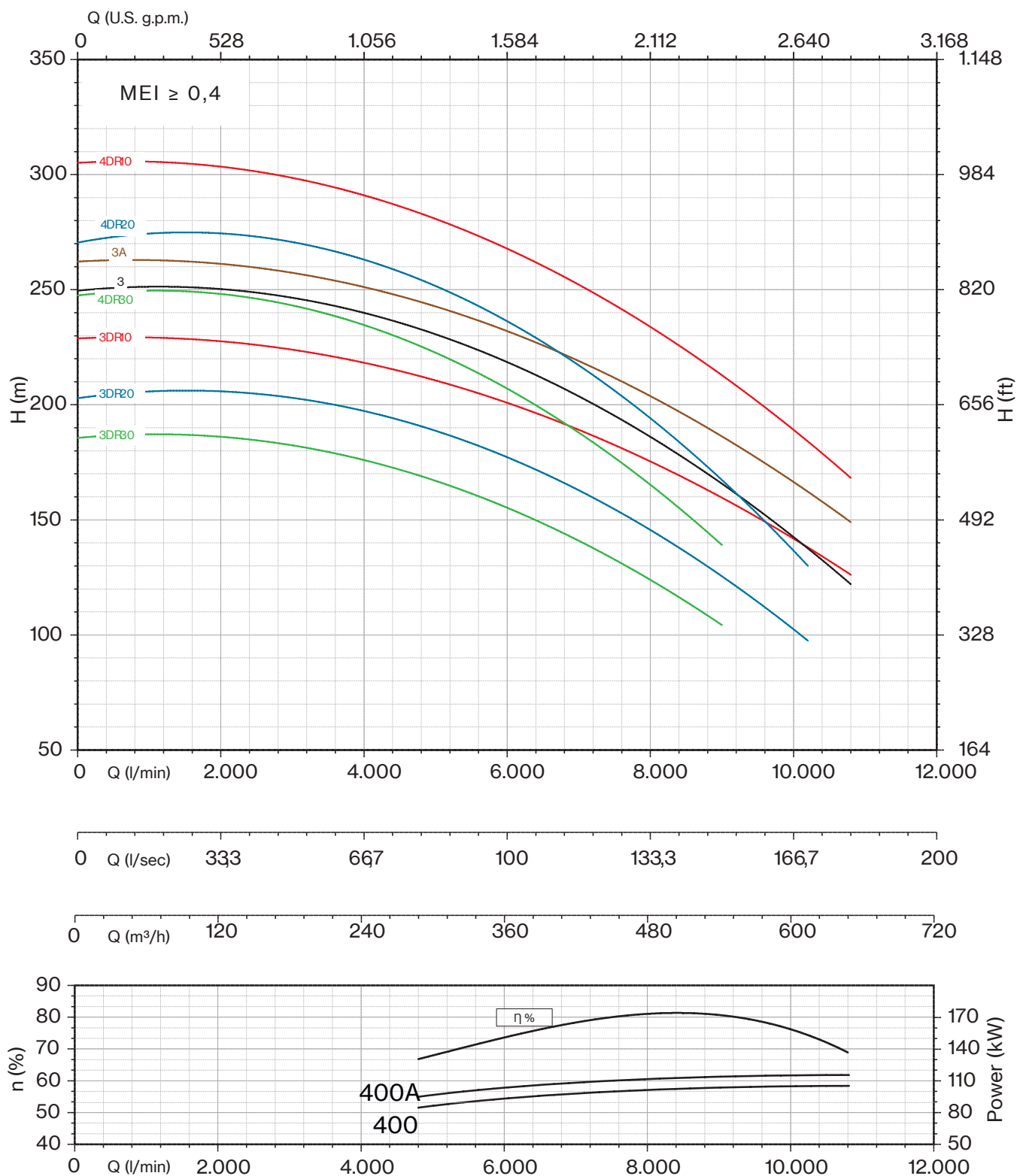
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
12LM 400/03 DR30 D	3340	1230	2110	700	129
12LM 400/03 DR20 D	3510	1230	2280	775	129
12LM 400/03 DR10 D	3510	1230	2280	775	129
12LM 400/03 D	3390	1230	2160	906	129
12LM 400/03A D	3550	1230	2320	1010	129
12LM 400/04 DR30 D	3740	1460	2280	775	154
12LM 400/04 DR20 D	3620	1460	2160	906	154
12LM 400/04 DR10 D	3780	1460	2320	1010	154

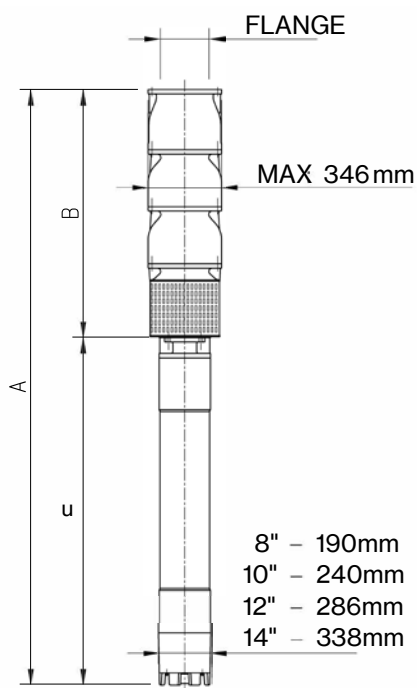
Max Eff. % A =	82,5
Max Eff. % =	81,6
Max Eff. % DR10 =	82,7
Max Eff. % DR20 =	81,8
Max Eff. % DR30 =	81,2
Max kW / St. A =	115,9
Max kW / St. Nom. =	104,5
Max kW / St. DR10 =	91,7
Max kW / St. DR20 =	78,9
Max kW / St. DR30 =	64

Q (flow)	25%	50%	75%	100%
NPSH (m)	3,4	5	7,8	11,8

12LM 400

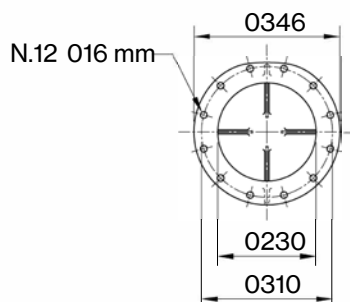


Motor 60 Hz - 3500 rpm				Q									
TYPE	Power		400 V	l/min	0	1600	3200	4800	6400	8000	9600	10200	11600
				l/sec	0	27	53	80	107	133	160	170	193
	HP	kW	A	m³/h	0	96	192	288	384	480	576	612	696
E 14 A/1 D	175	130	245,3	H[m]	103,3	95,8	90,0	84,5	78,3	70,6	59,9	55,0	
E 14 A/1 C	175	130	245,3		110,6	103,2	97,2	91,9	85,8	78,6	69,0	64,8	56,2
E 14 A/1 B	225	165	313,3		122,5	115,1	108,9	103,4	97,6	91,1	83,1	79,3	69,4
E 14 A/1 A	300	220	424,0		139,9	130,8	123,1	115,8	108,9	101,8	94,2	90,7	82,9
E 14 A/1 Nom.	300	220	424,0		156,4	143,0	132,9	125,3	118,8	112,3	105,1	102,0	92,3
E 14 A/2 D	340	250	481,0		206,6	191,5	180,0	169,1	156,7	141,1	119,8	110,0	
E 14 A/2 C	400	300	575,0		221,2	206,5	194,4	183,7	171,5	157,1	138,0	129,6	112,3
E 14 A/2 B	450	330	620,0		245,0	230,1	217,7	206,8	195,3	182,2	166,2	158,7	138,8
E 14 A/2 A	550	400	798,0		279,7	261,5	246,2	231,6	217,7	203,6	188,4	181,4	165,9



Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
	A	B	C	M	P
E 14 A/1 D	2569	935	1634	385	184
E 14 A/1 C	2569	935	1634	385	184
E 14 A/1 B	2789	935	1854	444	184
E 14 A/1 A	3045	935	2110	700	184
E 14 A/1 Nom.	3045	935	2110	700	184
E 14 A/2 D	3455	1175	2280	775	260
E 14 A/2 C	3455	1175	2280	775	260
E 14 A/2 B	3335	1175	2160	906	260
E 14 A/2 A	3635	1175	2460	1105	260

Max Eff. % =	82,3
Max KW / St.: D = - D.230mm =	112,3
Max KW / St.: C = - D.238mm =	128,0
Max KW / St.: B = - D.251mm =	157,1
Max KW / St. A = - D.268mm =	188,7
Max KW / St. Nom. - D.276mm =	206,3

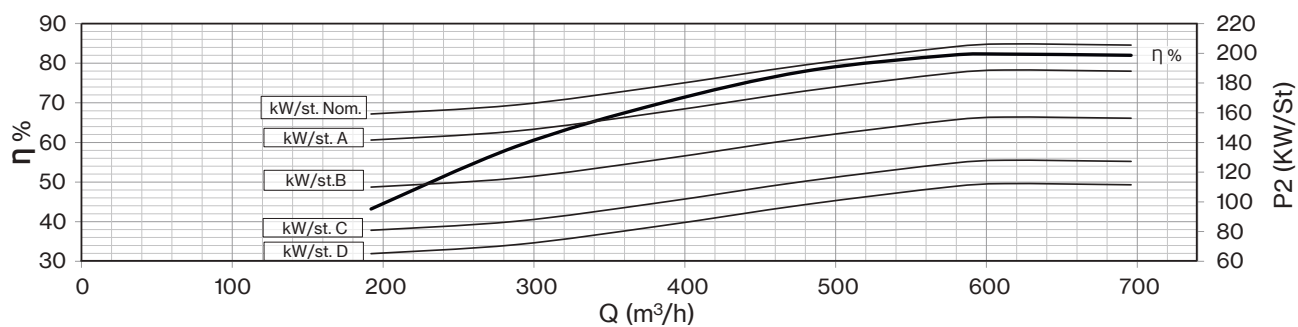
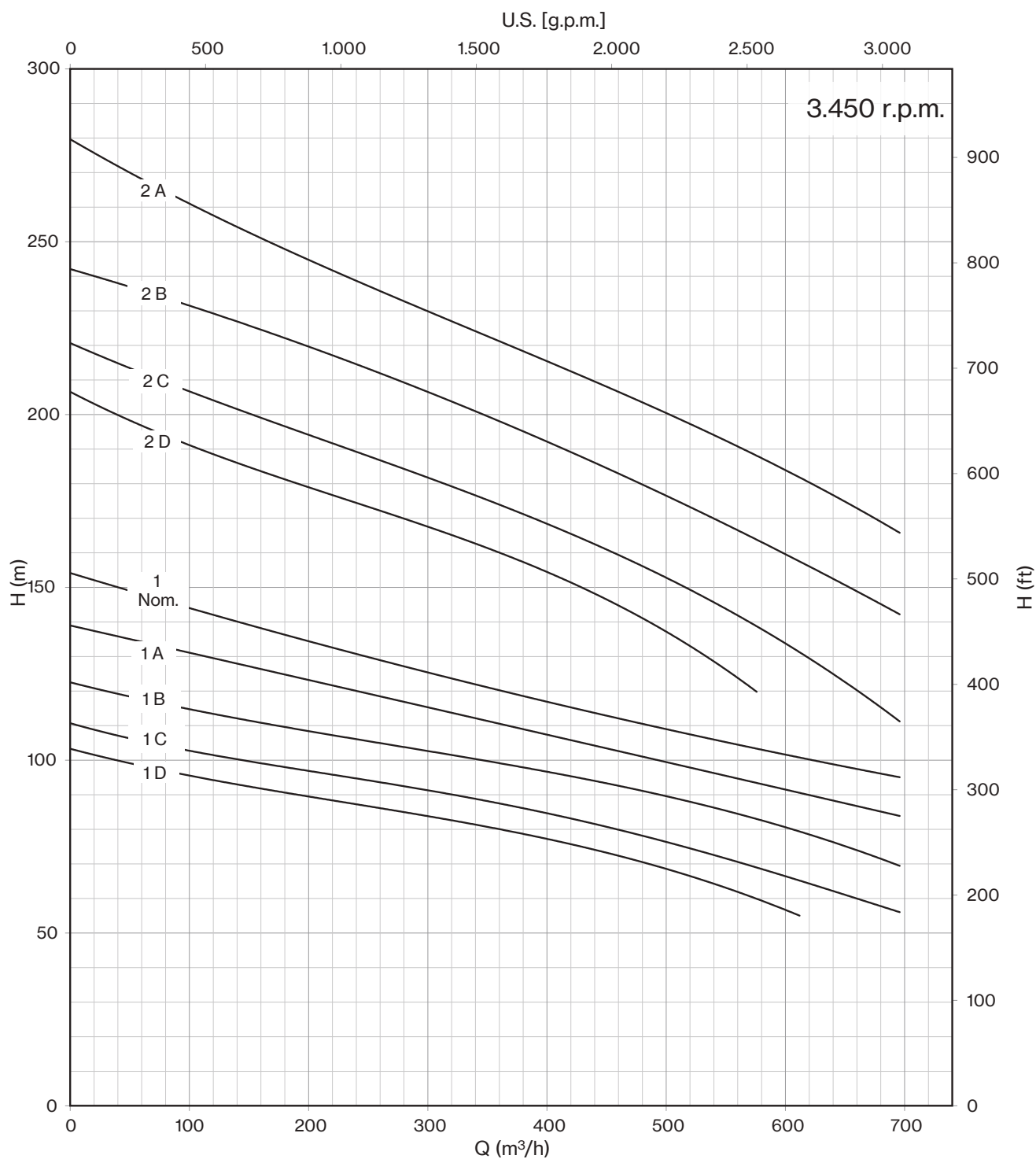


Q (flow)	25%	50%	75%	100%
NPSH (m)	5,8	6,4	9,4	15,3

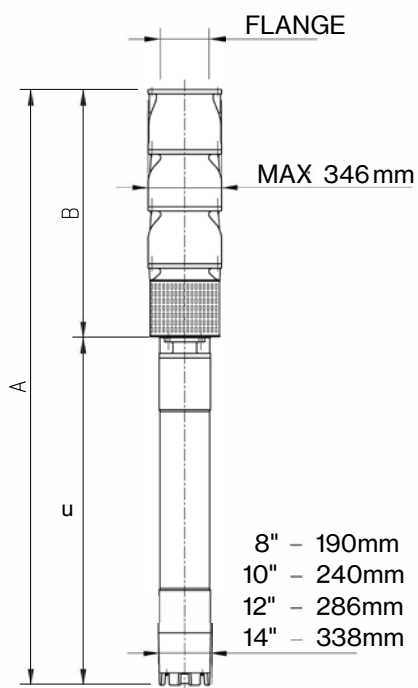
"D" Pump shaft in Duplex



E14 A

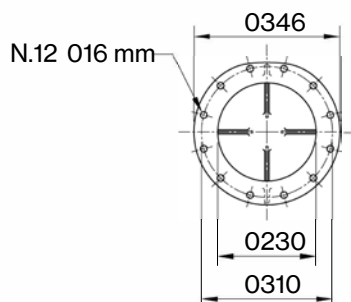


Motor 60 Hz - 3500 rpm				Q									
TYPE	Power		400 V	l/min	0	1600	4800	6400	8000	10800	12000	15000	17200
				l/sec	0	26,7	80	106,7	133,3	180	200	250	286,7
	HP	kW	A	m³/h	0	96	288	384	480	648	720	900	1032
E 14 B/1 C	225	165	313,3	H[m]	105,8	104,4	97,9	91,4	83,2	63,4	52,6	20,2	
E 14 B/1 B	300	220	424,0		115,7	114,5	108,0	103,0	95,0	77,0	67,2	38,2	
E 14 B/1 A	340	250	481,0		125,3	121,0	113,8	110,9	106,3	95,0	88,6	65,5	41,8
E 14 B/1 Nom.	400	300	575,0		145,2	140,3	130,2	125,1	119,4	106,8	99,4	77,6	55,3
E 14 B/2 C	450	330	620,0		211,7	208,8	195,8	182,9	166,5	126,7	105,1	40,3	
E 14 B/2 B	550	400	798,0		231,5	229,0	216,0	205,9	190,1	154,1	134,5	76,3	



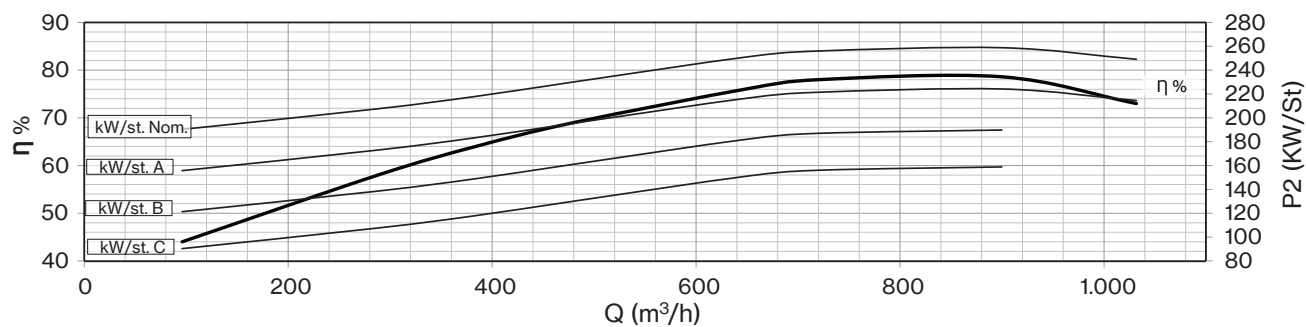
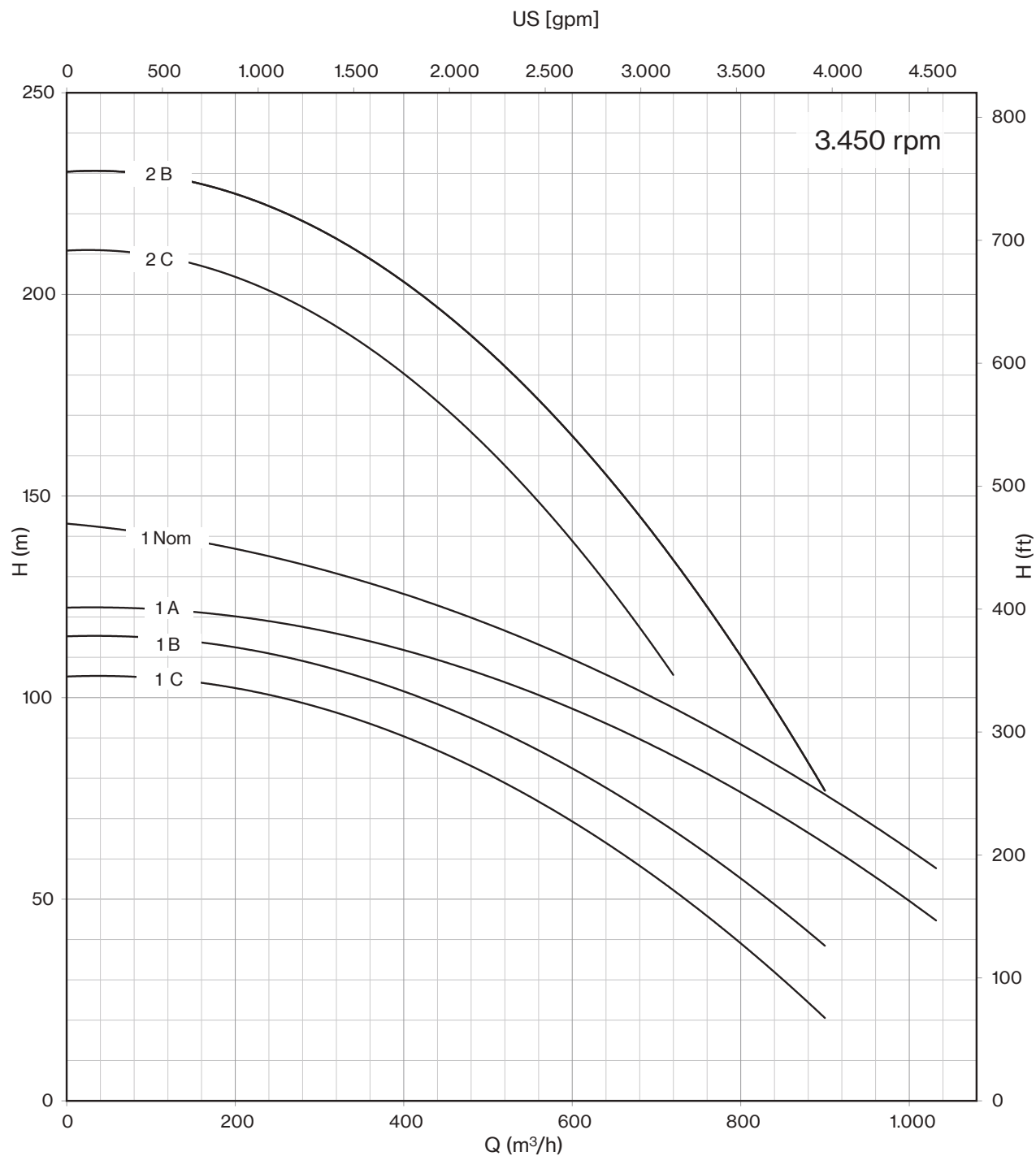
Motor 60 Hz 3500 rpm	DIMENSIONS (mm)			Weight (kg)	
TYPE	A	B	C	M	P
E 14 B/1 C	2759	905	1854	444	184
E 14 B/1 B	3015	905	2110	700	184
E 14 B/1 A	3185	905	2280	775	184
E 14 B/1 Nom.	3185	905	2280	775	184
E 14 B/2 C	3335	1175	2160	906	260
E 14 B/2 B	3635	1175	2460	1105	260

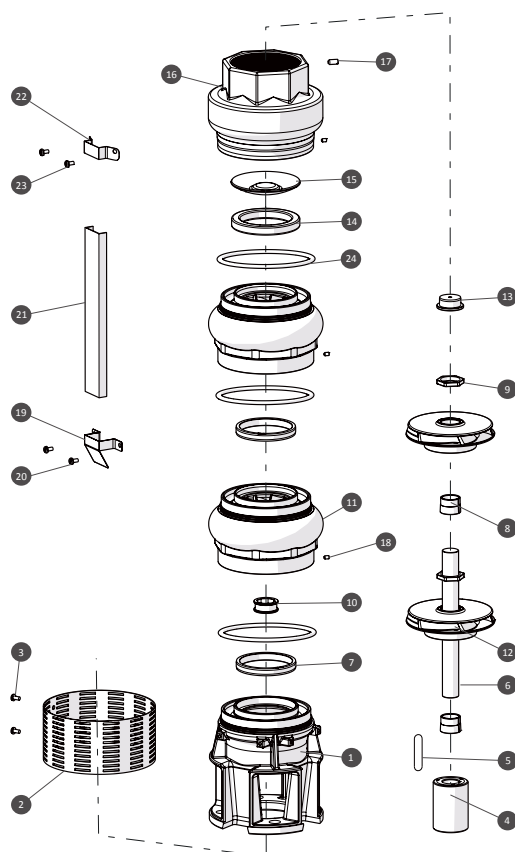
Max Eff. % =	78,6
Max KW / St.: C - D.240mm =	158,8
Max KW / St.: B - D.250mm =	189,8
Max KW / St. A. - D.259mm =	224,2
Max KW / St. Nom. - D.274mm =	258,8



Q (flow)	25%	50%	75%	100%
NPSH (m)	6	6,4	8,6	16,3

E14 B

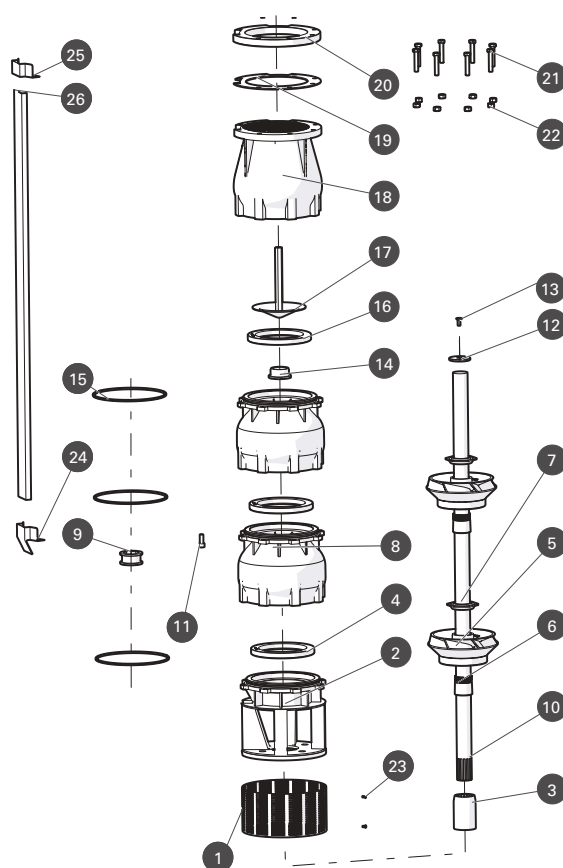




N° CODE	DESCRIPTION	LRS EXECUTION	LRX EXECUTION	LRD EXECUTION	(*) Q.TY
1	Motor bracket	AISI 304	AISI 316	Duplex	-
2	Suction strainer	AISI 304	AISI 316	Duplex	-
3	M4x8 screws for strainer	AISI 304	AISI 316	Duplex	-
4	Coupling	AISI 304	AISI 316	Duplex	1
5	Key	AISI 304	AISI 316	Duplex	1
6	Pump shaft	AISI 304	AISI 316	Duplex	1
7	Impeller wear ring	NBR	NBR	NBR	N° of St.
8	Conic collar	AISI 304	AISI 316	Duplex	N° of St.
9	Conic collar nut	AISI 304	AISI 316	Duplex	N° of St.
10	Diffuser bush bearing	NBR	NBR	NBR	N° of St.
11	Diffuser	AISI 304	AISI 316	Duplex	-
12	Impeller	AISI 304	AISI 316	Duplex	N° of St.
13	Reverse thrust ring	PTFE+25% CARBONE / Graphite	PTFE+25% CARBONE / Graphite	PTFE+25% CARBONE / Graphite	1
14	NRV gasket	NBR	NBR	NBR	1
15	Valve plate	AISI 304	AISI 316	Duplex	-
16	Delivery pump body	AISI 304	AISI 316	Duplex	-
17	Delivery body locking screw	AISI 304	AISI 316	Duplex	1
18	Diffuser locking screw	AISI 304	AISI 316	Duplex	N° of St.
19	Bottom cable guard clamp	AISI 304	AISI 316	Duplex	-
20	Bottom cable guard screws M4x8	AISI 304	AISI 316	Duplex	-
21	Cable guard	AISI 304	AISI 316	Duplex	-
22	Upper cable guard clamp	AISI 304	AISI 316	Duplex	-
23	Upper cable guard screws M4x8	AISI 304	AISI 316	Duplex	-
24	O-Ring	NBR	NBR	NBR	N° of St.

* Recommended spare parts quantity

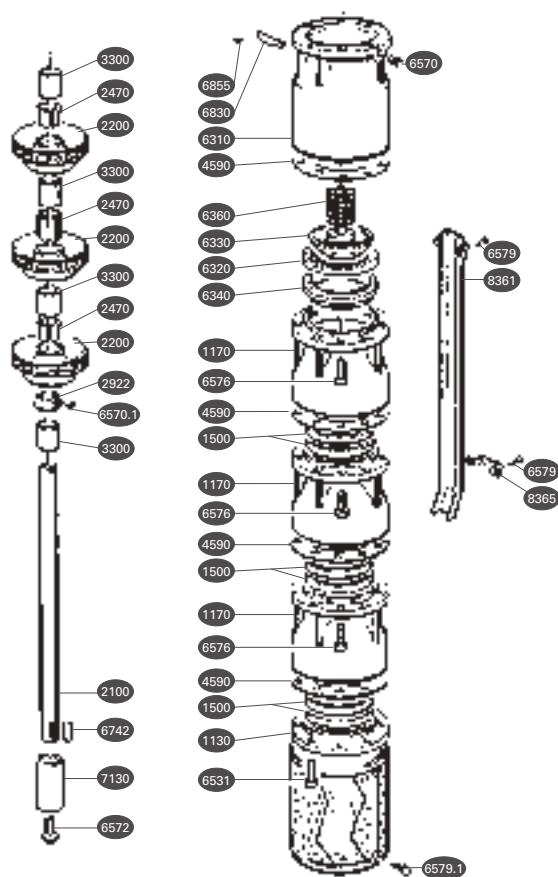
6LM - 8LM - 10LM - 12LM



N° CODE	DESCRIPTION	LMS EXECUTION	LMX EXECUTION	LMD EXECUTION	(*) Q.TY
1	Suction strainer	AISI 304	AISI 316	Duplex	-
2	Suction cage	AISI 304	AISI 316	Duplex	-
3	Joint	AISI 304	AISI 316	Duplex	1
4	Usury ring	NBR	NBR	NBR	N° of St.
5	Impeller	AISI 304	AISI 316	Duplex	-
6	Cone	AISI 304	AISI 316	Duplex	N° of St.
7	Hexagonal ring	AISI 304	AISI 316	Duplex	N° of St.
8	Diffuseur	AISI 304	AISI 316	Duplex	-
9	Bearing bush	NBR	NBR	NBR	N° of St.
10	Pump shaft	AISI 304	AISI 316	Duplex	1
11	N.8 Screw for diffuseur	AISI 304	AISI 316	Duplex	-
12	Ring	AISI 304	AISI 316	Duplex	1
13	Screw for disk	AISI 304	AISI 316	Duplex	1
14	Counterthrust	PTFE + 25% CARBON	PTFE + 25% CARBON	PTFE + 25% CARBON	1
15	O-Ring	NBR	NBR	NBR	N° of St.
16	Gasket valve	NBR	NBR	NBR	1
17	Cap valve	AISI 304	AISI 316	Duplex	-
18	Body valve	AISI 304	AISI 316	Duplex	-
19	Seal counterflange	NBR	NBR	NBR	1
20	Counterflange	AISI 304	AISI 316	Duplex	-
21	N.8 Screw for counterflange	AISI 304	AISI 316	Duplex	-
22	N.8 Nut for counterflange	AISI 304	AISI 316	Duplex	-
23	N.2 Screw for suction strainer	AISI 304	AISI 316	Duplex	-
24	Lower clamp	AISI 304	AISI 316	Duplex	-
25	Upper clamp	AISI 304	AISI 316	Duplex	-
26	Cover cable	AISI 304	AISI 316	Duplex	-

* Recommended spare parts quantity





N° CODE	DESCRIPTION	MATERIAL	(*) Q.TY
1130	Support	Cast iron	
1170	Diffuser	Cast iron	
1170.1	Lat Diffuser	Cast iron	
1500	Wear ring	Rubber	1 x stage
2100	Shaft	Stainless steel	
2200	Impeller	Cast iron	1 x stage
2470	Bushing	Steel	1 x stage
2922	Sandguard	Brass	
3300	Bearing	Steel - rubber	1 x stage
4590	Gland	Guarnital	1 x 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	





DEEPWELL BOREHOLE MOTORS

DEEPWELL BOREHOLE MOTORS

4MPE/6MPE



4MPC/6MPC



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".

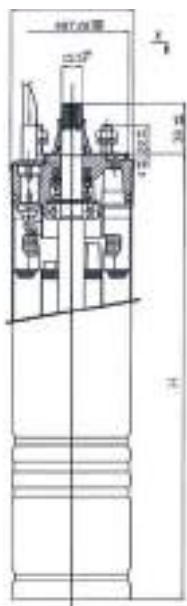
4MPE/6MPE

Deepwell Motors

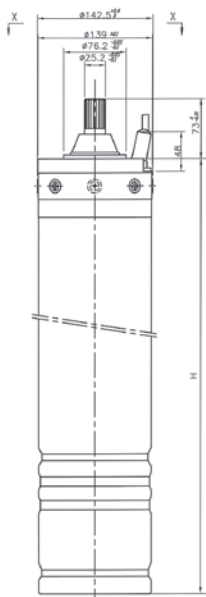
4" and 6" rewindable oil filled submersible motors characterized by high torque, strong mechanical structure, high reliability. Suitable for vertical and horizontal operations.

Construction features

Upper support	nickel plated cast iron
External jacket, shaft and cup	stainless steel
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~ 110V, 220V 3~ 220V, 380V, 460V
Insulation class	F
Protection degree	IP68
Max liquid temperature	35° C
Max depth immersion	150 m



4 "



6 "



4MPE



6MPE



4MPE/6MPE

TYPE 220V 60Hz 1~	Power		Thrust Load N	I _N A	I _{START} A	I _{MAX} A	EFF% %	COS φ	H mm	Wei- ght Kg	Cr μF	Cs μF	S.F.	CABLE	
	HP	kW												Lenght m	Size mm ²
4MPE 5	0,5	0,37	1500	3,4	13,5	4,2	53	0,94	325	7	20	-	1,6	1,75	1,5
4MPE 7	0,75	0,55		4,8	18	6,6	52	0,96	325	7,6	25	-	1,5		
4MPE10	1	0,75		6,4	24	7,9	56	0,91	350	8,7	35	-	1,4		
4MPE15	1,5	1,1		7,9	33	11,2	65	0,94	385	10,3	40	-	1,3		
4MPE20	2	1,5		10,1	34	12,2	66	0,97	420	12	50	-	1,25		
4MPE30	3	2,2	7500	16,1	49	17,1	68	0,94	470	14,2	60	-	1,15	2,5	
4MPE30H	3	2,2		16,1	49	17,1	68	0,94	520	15,5	60	-	1,15		

TYPE 110V 60Hz 1~	Power		Thrust Load N	I _N A	I _{START} A	I _{MAX} A	EFF% %	COS φ	H mm	Wei- ght Kg	Cr μF	Cs μF	S.F.	CABLE	
	HP	kW												Lenght m	Size mm ²
4MPE 5	0,5	0,37	1500	7,4	26	10,6	50	0,94	325	7	25	72-86	1,6	1,75	1,5
4MPE 7	0,75	0,55		9,4	38	12,9	56	0,91	325	7,6	30	88-106	1,5		
4MPE10	1	0,75		14,0	44	16,6	55	0,94	350	8,7	40	130-156	1,4		
4MPE15	1,5	1,1		15,9	72	21,2	64	0,94	385	10,3	60	189-227	1,3		

TYPE 220V 60Hz 3~	Power		Thrust Load N	I _N A	I _{START} A	I _{MAX} A	EFF% %	COS φ	H mm	Weight Kg	S.F.	CABLE		
	HP	kW										Lengt m	Size mm²	
4MPET 5	0,5	0,37	1500	2,4/2,8	17,5	2,9	56	0,71	325	6,5	1,6	1,75	1,5	
4MPET 7	0,75	0,55		3,3/3,5	18,3	4,2	60	0,73	325	7	1,5			
4MPET 10	1	0,75		4,5/4,9	27	5,5	63	0,7	325	7,6	1,4			
4MPET 15	1,5	1,1		6,2/6,4	24,2	6,9	67	0,71	350	8,7	1,3			
4MPET 20	2	1,5		7,8/8,2	45,5	8,8	72	0,72	385	10,4	1,25			
4MPET 30	3	2,2	2500	10,7/11	63,1	11,8	73	0,72	420	12	1,15	2,5		
4MPET 30H	3	2,2		10,2/10,4	39,8	14,9	75	0,75	383	11	1,15			
4MPET 40	4	3		14,4/14,8	74,9	19,4	77	0,76	418	12,8	1,15			
4MPET 42	4	3		5000	14,4/14,8	74,9	19,4	77	0,76	418	13,1			1,15
4MPET 42H	4	3		7500	15,1/15,4	76,1	22	75	0,7	550	21,5			1,15
4MPET 55	5,5	4	2500	16,7/17,1	92,9	23,5	82	0,79	468	15,3	1,15	3	2	
4MPET 57	5,5	4	5000	16,7/17,1	92,9	19,4	82	0,79	468	15,6	1,15			
4MPET 57H	5,5	4	7500	18/18,5	81,3	20,2	76	0,76	580	22	1,15			
4MPET 75	7,5	5,5	2500	23,5/25	124,6	26,5	80	0,82	538	18,6	1,15	4		
4MPET 77	7,5	5,5	5000	23,5/25	124,6	26,1	80	0,82	538	18,9	1,15			4
4MPET 77H	7,5	5,5	7500	24/26	128	26,6	77	0,78	650	22,4	1,15	4	2	
4MPET 100H	10	7,5		33,5/34	143,6	36,7	78	0,86	810	27	1,15			

TYPE 380V 60Hz 3~	Power		Thrust Load N	I _N A	I _{START} A	I _{MAX} A	EFF% %	COS φ	H mm	Weight Kg	S.F.	CABLE		
	HP	kW										Lenght m	Size mm²	
4MPET 5	0,5	0,37	1500	1,6	10,1	1,7	56	0,71	325	6,5	1,6	1,75	1,5	
4MPET 7	0,75	0,55		1,9	10,6	2,4	60	0,73	325	7	1,5			
4MPET 10	1	0,75		2,6	15,6	3,2	63	0,7	325	7,6	1,4			
4MPET 15	1,5	1,1		3,6	14	4	67	0,71	350	8,7	1,3			
4MPET 20	2	1,5		4,5	26,3	5,1	72	0,72	385	10,4	1,25			
4MPET 30	3	2,2	2500	6,4	36,5	6,8	73	0,72	420	12	1,15	2,5		
4MPET 30H	3	2,2		5,9	23	8,6	75	0,75	383	11	1,15			
4MPET 40	4	3		8,3	43,3	11,2	77	0,76	418	12,8	1,15			
4MPET 42	4	3		5000	8,3	43,3	11,2	77	0,76	418	13,1			1,15
4MPET 42H	4	3		7500	8,7	44	12,7	75	0,7	550	21,5			1,15
4MPET 55	5,5	4	2500	9,6	53,7	13,6	82	0,79	468	15,3	1,15	3		
4MPET 57	5,5	4	5000	9,6	53,7	13,6	82	0,79	468	15,6	1,15			
4MPET 57H	5,5	4	7500	10,5	47	11,7	76	0,76	580	22	1,15			
4MPET 75	7,5	5,5	2500	13,6	72	15,3	80	0,82	538	18,6	1,15	4	2	
4MPET 77	7,5	5,5	5000	13,6	72	15,3	80	0,82	538	18,9	1,15			
4MPET 77H	7,5	5,5	7500	13,9	74	15,4	77	0,78	650	22,4	1,15	4	2	
4MPET 100H	10	7,5		17,2	83	21,2	78	0,86	810	27	1,15			



TYPE	P2		PROTECTION		CONTROL PANEL	
	HP	kW	1~ 220V	3~ 380V	1~ 220V	3~ 380V
4MPE 5	0,5	0,37	PML 5/20-4	PT 7/1,3-2,1	EQSM + 20µF	EQSMT 10
4MPE 7	0,75	0,55	PML 7/25-6	PT 7/1,3-2,1	EQSM + 25µF	EQSMT 10
4MPE 10	1	0,75	PML 10/35-7	PT 10/1,9-3	EQSM + 35µF	EQSMT 10
4MPE 15	1,5	1	PML 15/40-10	PT 15-20/2,9-4,5	EQSM + 40µF	EQSMT 10
4MPE 20	2	1,5	PML 20/50-13	PT 20/30-40/4,3-6,8	EQSM + 50µF	EQSMT 10
4MPE 30	3	2,2	PML 30/80-18	PT 20/30-40/4,3-6,8	EQSM + 80µF	EQSMT 10
4MPE 40*	4	3	-	PT 40-50/5,7-9,1	-	EQSMT 10
4MPE 55*	5,5	4	-	PT 55-75/8,6-13,5	-	EQSMT 10
4MPE 75*	7,5	5,5	-	PT 100/12,5-16,5	-	EQSMT 10
4MPE 100*	10	7,5	-	PT 125-150/16-21	-	EQSMT 10

*Only 3~

TYPE 380V 60Hz 3~	Power		Thrust Load N	I.F.L. A	I.S.F. load A	EFF% %	COS φ	Ts/Tr	H mm	Weight Kg	S.F.	CABLE	
	HP	kW										Lenght m	Size mm²
6MPET 55	5,5	4	5000/10000	9,6	10,7	74	0,86	2,4	540	32	1,15	2,8	4
6MPET 75	7,5	5,5	10000	13,0	15,1	79	0,82	2,4	570	40	1,15		
6MPET 100	10	7,5		17,4	19,2	80	0,82	2,3	600	42	1,15		
6MPET 125	12,5	9,2		20,2	22,4	81	0,84	2,3	600	45	1,15		
6MPET 150	15	11		25,6	29,4	82	0,81	2,1	700	48	1,15		
6MPET 175	17,5	12,8		27,5	31,1	82	0,85	2,1	700	50	1,15		
6MPET 200	20	15		34,1	38,0	83	0,81	2,1	760	54	1,15		
6MPET 250	25	18,5		39,8	45,6	84	0,83	2,1	830	65	1,15		
6MPET 300	30	22	20000	47,3	54,6	85	0,83	2,1	890	70	1,15	8	
6MPET 400	40	30		66,2	75,0	85	0,81	2,0	1030	90	1,15		
6MPET 500	50	37		84,5	96,0	82	0,82	2,0	1170	101	1,15		

TYPE 220V 60Hz 3~	Power		Thrust Load N	I.F.L. A	I.S.F. load A	EFF% %	COS φ	Ts/Tr	H mm	Weight Kg	S.F.	CABLE	
	HP	kW										Lenght m	Size mm²
6MPET 55	5,5	4	5000/10000	15,9	16,8	74	0,83	2,4	540	32	1,15	2,8	4
6MPET 75	7,5	5,5	10000	23,5	26,2	72	0,82	2,4	570	40	1,15		
6MPET 100	10	7,5		29,0	32,8	80	0,81	2,3	600	42	1,15		
6MPET 125	12,5	9,2		35,0	38,8	80	0,82	2,3	600	45	1,15		
6MPET 150	15	11		39,8	47,2	82	0,85	2,1	700	48	1,15		
6MPET 175	17,5	12,8		47,0	53,8	82	0,83	2,1	700	50	1,15		
6MPET 200	20	15		54,5	61,5	82	0,85	2,1	760	54	1,15		
6MPET 250	25	18,5		67,5	76,0	84	0,82	2,1	830	65	1,15		
6MPET 300	30	22	20000	80,2	91,0	85	0,82	2,1	890	70	1,15	8	
6MPET 400	40	30		115	130	85	0,81	2	1030	90	1,15		

TYPE 460V 60Hz 3~	Power		Thrust Load N	I.F.L. A	I.S.F. load A	EFF% %	COS φ	Ts/Tr	H mm	Weight Kg	S.F.	CABLE	
	HP	kW										Lenght m	Size mm²
6MPET 55	5,5	4	5000/10000	7,8	8,9	76	0,85	2,4	540	32	1,15	2,8	4
6MPET 75	7,5	5,5	10000	11,0	12,6	78	0,82	2,4	570	34	1,15		
6MPET 100	10	7,5		14,9	16,8	77	0,82	2,3	600	36	1,15		
6MPET 125	12,5	9,2		19,8	22,4	78	0,81	2,3	600	39	1,15		
6MPET 150	15	11		21,0	24,0	80	0,81	2,1	700	42	1,15		
6MPET 175	17,5	12,8		25,1	28,2	81	0,86	2,1	700	45	1,15		
6MPET 200	20	15		27,2	30,6	81	0,84	2,1	760	48	1,15		
6MPET 250	25	18,5		33,8	38,0	82	0,84	2,1	830	65	1,15		
6MPET 300	30	22	20000	40,2	45,5	83	0,83	2,1	890	70	1,15	8	
6MPET 400	40	30		53,0	61,8	85	0,84	2,0	1030	90	1,15		
6MPET 500	50	37		72,0	76,0	85	0,83	2,0	1170	101	1,15		

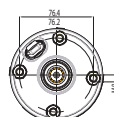
TYPE	P2		PROTECTION 3~ 380V	CONTROL PANEL 3~ 380V	CONTROL PANEL star-delta starting 3~ 380/660 V
	HP	kW			
6MPET 55	5,4	4	PT 55-75/8,6-13,5	EQSMT 10	QST 5
6MPET 75	7,5	5,5	PT 100/12,5-16,5	EQSMT 10	QST 7
6MPET 100	10	7,5	PT 125-150/16-21	EQSMT 15	QST 10
6MPET 125	12,5	9,2	PT 200/22-29	EQSMT 15	QST 15
6MPET 150	15	11	PT 200/22-29	EQSMT 15	QST 15
6MPET 175	17,5	13	-	EQSMT 20	QST 20
6MPET 200	20	15	-	EQSMT 20	QST 20
6MPET 250	25	18,5	-	-	QST 30
6MPET 300	30	22	-	-	QST 30
6MPET 400	40	30	-	-	QST 50
6MPET 500	50	37	-	-	QST 60



Deepwell Motors



Construction features



TYPE 220-230V/60Hz 1~	Volt V	Power		I _N A	I _{START} A	R.p.m.	EFF %	COS ϕ	C μ F	T _s / T _N
		HP	kW							
4MPC 5	220	0,50	0,37	3,7	14,4	3460	48	0,95	20	1,19
	230			3,9	14,8	3470	46	0,91	20	1,34
4MPC 7	220	0,75	0,55	5,0	19,5	3450	52	0,99	31,5	1,35
	230			5,1	20,4	3460	50	0,97	31,5	1,51
4MPC 10	220	1,0	0,75	6,2	24,6	3460	58	0,97	31,5	0,96
	230			6,4	25,6	3470	55	0,93	31,5	1,06
4MPC 15	220	1,5	1,1	8,1	31,6	3440	65	0,96	40	0,77
	230			8,3	33,2	3460	63	0,93	40	0,87
4MPC 20	220	2,0	1,5	10,5	40,9	3420	67	0,99	50	0,81
	230			10,4	41,6	3440	66	0,98	50	0,90
4MPC 30	220	3,0	2,2	14,9	67,0	3440	70	0,98	76	0,74
	230			15,0	67,5	3460	68	0,95	76	0,82
4MPC 30H	220	5,0	3,7	30,8	92,4	3480	60	0,92	150+(156-200)	1,12
	230			30,3	100,0	3460	58	0,91		1,24
4MPC 50	220	5,5	4,0	26,0	127,4	3530	73	0,96	150+(156-200)	1,11
	230			25,5	130,0	3540	72	0,96		1,22

TYPE 380V/60Hz 3~	Volt V	Power		I _N A	I _{START} A	R.p.m.	EFF %	COS ϕ	T _s / T _N
		HP	kW						
4MPC 5T	380	0,50	0,37	1,6	8,96	3500	50	0,70	4,3
4MPC 7T	380	0,75	0,55	2,1	12,60	3500	59	0,72	4,1
4MPC 10T	380	1,0	0,75	2,5	12,75	3480	63	0,75	3,2
4MPC 15T	380	1,5	1,1	3,2	18,60	3470	69	0,76	3,3
4MPC 20T	380	2,0	1,5	4,4	23,32	3470	71	0,71	3,1
4MPC 30T	380	3,0	2,2	5,9	35,40	3470	77	0,74	3,4
4MPC 40T	380	4,0	3,0	8,2	49,20	3470	77	0,73	3,5
4MPC 55T	380	5,5	4,0	10,2	64,20	3450	80	0,76	3,5
4MPC 75T	380	7,5	5,5	13,0	84,50	3490	83	0,78	3,1
4MPC 100T	380	10,0	7,5	17,8	115,70	3480	81	0,80	2,9

TYPE 220-230-380V/60Hz 3~	Volt V	Power		I _N A	I _{START} A	R.p.m.	EFF. %	COS ϕ	T _N Nm	T _s / T _N
		HP	kW							
6MPC 55T	220	5,5	4,0	17,5	84,0	3450	73	0,86	11,0	1,6
	230			17,5	85,7	3460	73	0,84	11,0	1,7
	380			10,0	48,0	3450	73	0,86	11,0	1,6
6MPC 75T	220	7,5	5,5	22,7	118,0	3460	77	0,86	15,1	1,6
	230			22,8	121,0	3470	77	0,83	15,1	1,7
	380			13,0	67,6	3460	77	0,86	15,1	1,6
6MPC 100T	220	10	7,5	30,0	159,0	3450	77	0,87	20,7	1,7
	230			30,0	162,0	3460	77	0,84	20,7	1,8
	380			17,5	92,7	3450	77	0,87	20,7	1,7
6MPC 125T	220	12,5	9,2	34,3	186,2	3460	78	0,85	25,0	1,7
	230			34,5	189,7	3470	77	0,82	25,0	1,8
	380			19,8	106,9	3460	78	0,85	25,0	1,7
6MPC 150T	220	15	11	47,5	280,2	3510	81	0,79	29,9	2,0
	230			51,0	306,0	3520	79	0,73	29,9	2,1
	380			27,5	165,0	3510	81	0,79	29,9	2,0
6MPC 200T	220	20	15	61,4	362,0	3500	83	0,81	40,8	2,0
	230			64,9	389,4	3510	82	0,74	40,8	2,1
	380			35,5	208,4	3500	83	0,81	40,8	2,0
6MPC 250T	220	25	18,5	73,5	441,0	3490	84	0,82	50,7	2,1
	230			76,5	467,0	3500	84	0,76	50,7	2,2
	380			42,5	155,0	3490	84	0,82	50,7	2,1
6MPC 300T	220	30	22	94,3	575,0	3500	84	0,78	60,0	2,2
	230			99,5	617,0	3510	84	0,71	60,0	2,3
	380			54,5	332,0	3500	84	0,78	60,0	2,2
6MPC 400T	380	40	30	66,5	392,4	3460	84	0,85	83,0	2,0



4MPC/6MPC

1~ 3~ Dimensions						
TYPE	Axial Trust N/Kg	kW	Tot. A (mm)	Tot. C (mm)	 Kg	Oil (Kg)
4MPC 5	1500/150	0,37	364	402	8,1	0,71
4MPC 7	1500/150	0,55	389	427	9,2	0,72
4MPC 10	1500/150	0,75	411	449	10,3	0,76
4MPC 15	2500/250	1,10	434	472	11,4	0,79
4MPC 20	2500/250	1,50	467	505	12,8	0,76
4MPC 30	2500/250	2,20	565	603	17,4	0,86
4MPC 30H	4500/450	2,20	565	603	17,4	0,84
4MPC 50	2500/250	3,70	680	718	24,1	0,86
4MPC 5T	1500/150	0,37	350	388	7,4	0,70
4MPC 7T	1500/150	0,55	364	402	8,0	0,71
4MPC 10T	2500/250	0,75	384	422	8,8	0,72
4MPC 15T	2500/250	1,10	411	449	10,6	0,70
4MPC 20T	2500/250	1,50	428	466	10,8	0,74
4MPC 30T	2500/250	2,20	467	505	12,5	0,78
4MPC 30HT	4500/450	2,20	467	505	12,5	0,78
4MPC 40T	2500/250	3,00	522	560	15,0	0,80
4MPC 40HT	4500/450	3,00	522	560	15,0	0,80
4MPC 55T	2500/250	4,00	587	625	18,3	0,82
4MPC 55HT	4500/450	4,00	587	625	18,3	0,82
4MPC 75T	2500/250	5,5	687	725	24,3	0,86
4MPC 75HT	4500/450	5,5	687	725	24,3	0,86
4MPC 100T	4500/450	7,5	768	806	28,3	1,09

3~ Dimensions						
TYPE	HP	kW	A (mm)	C (mm)	 Kg	Oil (Kg)
6MPC 55T	5,5	4,0	633	706	34	2,50
6MPC 75T	7,5	5,5	667	740	36	2,95
6MPC 100T	10	7,5	698	771	39	3,15
6MPC 125T	12,5	9,2	731	804	42	3,25
6MPC 150T	15	11	826	899	50	3,30
6MPC 200T	20	15	894	967	57	3,50
6MPC 250T	25	18,5	959	1032	65	3,60
6MPC 300T	30	22	1116	1189	78	3,80
6MPC 400T	40	30	1243	1316	91	4,10

6MPC cables		
TYPE 380V/60Hz	DOL	Δ
4 × 4 mm ²	4 - 18,5 kW	4 - 30 kW
3 × 8 mm ² + 8 mm ²	22 - 30 kW	-



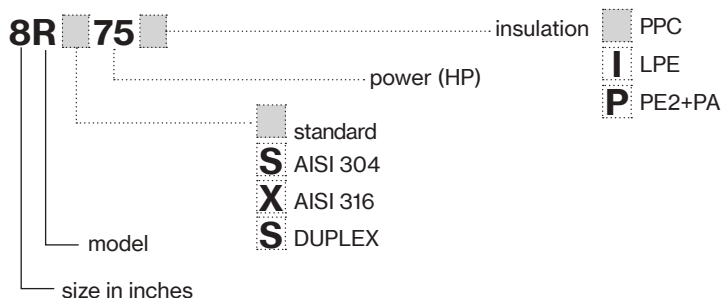
6R/8R/10R

Deepwell Motors

6", 8", 10" rewindable submersible water-filled motors with NEMA coupling flange. Power from 4 kW up to 185 kW. Available in PPC (standard), LPE and PE2+PA. The motor can be supplied in AISI 304, AISI 316 or DUPLEX.

Construction features

Upper and bottom support	G25 (6R / 8R / 10R) AISI 304 (6RS / 8RS / 10RS) AISI 316 (6RX / 8RX / 10RX) DUPLEX (6RD / 8RD / 10RD)
Stator sleeve	stainless steel AISI 304 - (R) stainless steel AISI 304 - (RS) stainless steel AISI 316 - (RX) Duplex - (RD)
Shaft end	stainless steel AISI 431 - (R) stainless steel AISI 431 - (RS) stainless steel AISI 316 - (RX) Duplex - (RD)
Seal type	lip seal (standard); mechanical seal (on request)
Bearings	radial and axial, water lubricated
Thrust bearing	Michell
Voltage	3~ 400V $\pm$ 10% - 60Hz 3~ 400/690V $\pm$ 10% -60Hz
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	IP68
Max depth immersion	350m
Available on demand	- PT 100 - Star/Delta starting - Cooling Sleeve - Cer./Carb./NBR Seal - SIC/SIC/NBR Seal



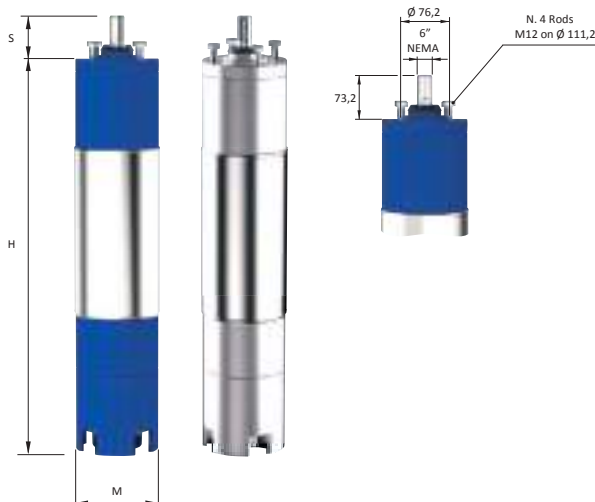
6R-6RS-6RX-6RD

TYPE	Power		V	A	RPM	η (Efficiency motor %) at % load			cos φ at % load			Starting				Axial load daN	Start/ hour (max)
	HP	kW										Direct		Star-delta	Statoric		
						50	75	100	50	75	100	Cs/Cn	Is / In	Is / In	Is / In		
6R7	7,5	5,5	230	21,3	3427	77	82	81	0,67	0,78	0,83	1,60	5,60	1,90	3,40	1600	15
			400	12,3	3435	76	81	80	0,65	0,76	0,81						
			460	10,7	3441	75	80	79	0,63	0,74	0,79						
6R10	10	7,5	230	28,2	3428	78	82,5	82	0,68	0,78	0,84	1,80	5,70	1,90	3,40		
			400	16,3	3435	77	81,5	81	0,66	0,76	0,82						
			460	14,3	3439	76	80,5	80	0,64	0,74	0,80						
6R12	12,5	9,2	230	34,4	3431	79	83	82	0,68	0,79	0,85	1,80	5,70	1,90	3,40		
			400	19,9	3437	78	82	81	0,66	0,77	0,83						
			460	17,3	3443	77	81	80	0,64	0,75	0,81						
6R15	15	11	230	40,5	3431	80	84,5	83,5	0,69	0,79	0,85	1,90	5,90	2,00	3,50		
			400	23,4	3439	79	83,5	82,5	0,67	0,77	0,83						
			460	20,3	3446	78	82,5	81,5	0,65	0,75	0,81						
6R17	17,5	13	230	47,2	3435	80	84,5	84	0,69	0,79	0,85	1,80	6,00	2,00	3,60		
			400	27,3	3440	80	83,5	83	0,67	0,77	0,83						
			460	23,7	3446	79	82,5	82	0,65	0,75	0,81						
6R20	20	15	230	55	3435	82	85	84	0,69	0,79	0,85	1,70	5,90	2,00	3,50		
			400	31,5	3440	81	84	83	0,67	0,77	0,83						
			460	27,4	3446	80	83	82	0,65	0,75	0,81						
6R25	25	18,5	230	66,2	3440	82	85,5	85	0,69	0,79	0,85	1,70	5,60	1,90	3,40		
			400	38,3	3446	81	84,5	84	0,67	0,77	0,83						
			460	33,3	3449	80	83	82,5	0,65	0,75	0,81						
6R30	30	22	230	78	3437	82,5	85,5	85	0,70	0,80	0,86	1,70	5,90	2,00	3,50		
			400	45,1	3448	81,5	84,5	84	0,68	0,78	0,84						
			460	39,2	3453	80	83	82,5	0,66	0,76	0,82						
6R35	35	26	230	91,5	3440	82,5	86	85,5	0,71	0,81	0,86	1,70	5,70	1,90	3,40		
			400	52,9	3449	81,5	85	84,5	0,69	0,79	0,84						
			460	46	3457	80	83,5	83,0	0,67	0,77	0,82						
6R40	40	30	230	106	3446	82,5	86,0	85,5	0,72	0,81	0,86	1,70	5,60	1,90	3,40		
			400	61,1	3453	81,5	85,0	84,5	0,70	0,79	0,84						
			460	53,2	3460	80	83,5	83	0,68	0,77	0,82						
6R50	50	37	230	131	3451	83	86,5	85	0,72	0,81	0,86	1,60	5,60	1,90	3,40		
			400	75,8	3457	82	85,5	84	0,70	0,79	0,84						
			460	66	3464	80,5	84	82,5	0,68	0,77	0,82						

Service factor: 60Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise)

Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

6R - 6RS - 6RX - 6RD						Max water temperature	
TYPE	Power		Cables		Standard Cable leght m	Winding type	
			Starting			PPC	PE2-PA / LPE
	HP	kW	Direct	Star Delta			
			460 V ± 5%	460 / 800 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 × 6 mm²)			



6R - 6RS - 6RX - 6RD				
Motor 60Hz - 3450 rpm		Overall dimensions and weights		
TYPE	H mm	S mm	M mm	Kg
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



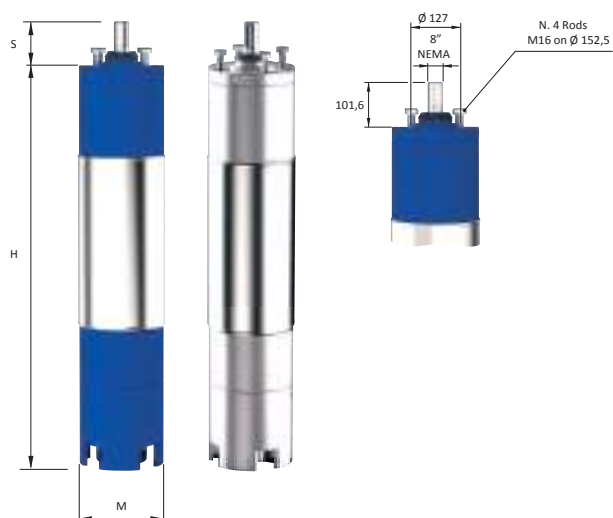
8R-8RS-8RX-8RD

TYPE	Power		V	A	RPM	η (Efficiency motor %) at % load			cos φ at % load			Starting				Axial load daN	Start/hour (max)
	HP	kW										Direct		Star-delta	Statoric		
						50	75	100	50	75	100	Cs/Cn	Is / In	Is / In	Is / In		
8R40	40	30	230	106,5	3436	79,8	85,2	84,3	0,77	0,81	0,84	2,05	6,40	2,10	3,80	4500	10
			400	61,7	3445	80,1	85	84,7	0,76	0,80	0,83						
			460	54	3456	79,3	84,5	85	0,75	0,79	0,82						
8R50	50	37	230	126	3439	80,3	85,7	84,8	0,79	0,83	0,88	1,95	5,70	2	3,70		
			400	73	3449	80,6	85,5	85,2	0,77	0,81	0,86						
			460	63,5	3457	79,8	85	85,5	0,75	0,79	0,84						
8R60	60	45	230	149	3457	80,8	86,2	85,3	0,76	0,86	0,87	1,95	5,80	2	3,70		
			400	86,3	3462	81,1	86	85,7	0,74	0,81	0,86						
			460	75,1	3469	80,3	85,5	86	0,72	0,79	0,84						
8R75	75	55	230	184	3461	81,3	86,7	85,8	0,76	0,85	0,89	1,85	5,80	2	3,60		
			400	106,2	3468	81,6	86,5	86,2	0,74	0,81	0,87						
			460	92,2	3472	80,8	86	86,5	0,72	0,80	0,84						
8R90	90	66	230	218	3463	82,4	87,5	86,8	0,76	0,86	0,89	1,85	5,80	2	3,50		
			400	126	3469	82,6	87,4	87,2	0,74	0,82	0,87						
			460	109,6	3473	81,9	86,9	87,5	0,72	0,79	0,84						
8R100	100	75	230	247,7	3462	82,3	87,7	86,8	0,75	0,85	0,89	1,80	5,80	2	3,50		
			400	143,2	3470	82,6	87,5	87,2	0,73	0,81	0,87						
			460	124,6	3476	81,8	87	87,5	0,71	0,77	0,84						
8R125	125	92	230	302,9	3465	83	86	85,7	0,75	0,84	0,89	1,80	5,70	1,90	3,50		
			400	175,1	3472	83,5	86,5	86,3	0,74	0,83	0,88						
			460	152,3	3478	83	86	86,3	0,72	0,81	0,86						
8R150	150	110	230	366,1	3467	85,5	86,5	86	0,74	0,83	0,89	1,80	5,70	1,90	3,50		
			400	211	3473	86,1	87	86,6	0,73	0,82	0,87						
			460	183,6	3478	85,5	86,5	86	0,72	0,81	0,84						

Service factor: 60Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise

Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

8R - 8RS - 8RX - 8RD						Max water temperature	
TYPE	Power		Cables		Standard Cable leight m	Winding type	
			Starting			PPC	PE2-PA / LPE
	HP	kW	Direct	Star Delta			
			400 V ± 5%	400 / 690 V			
8R40	40	30	3 × 1 × 10 mm ²	6 × 1 × 10 mm ²	5	30 °C	50 °C
8R50	50	37	3 × 1 × 10 mm ²	6 × 1 × 10 mm ²			
8R60	60	45	3 × 1 × 16 mm ²	6 × 1 × 10 mm ²			
8R75	75	55	3 × 1 × 16 mm ²	6 × 1 × 10 mm ²			
8R90	90	66	3 × 1 × 25 mm ²	6 × 1 × 16 mm ²			
8R100	100	75	3 × 1 × 25 mm ²	6 × 1 × 16 mm ²			
8R125	125	92	3 × 1 × 25 mm ²	6 × 1 × 16 mm ²			
8R150	150	110	3 × 1 × 35 mm ²	6 × 1 × 25 mm ²			



8R - 8RS - 8RX - 8RD				
Motor 60Hz - 3450 rpm		Overall dimensions and weights		
TYPE	H mm	S mm	M mm	Kg
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



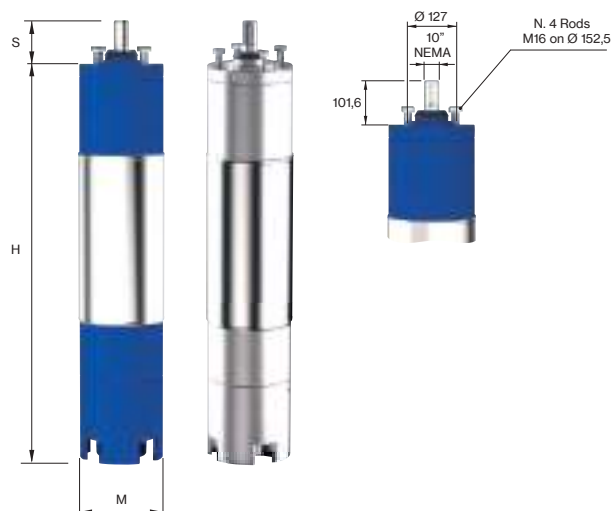
10R-10RS-10RX-10RD

TYPE	Power		V	A	RPM	η (Efficiency motor %) at % load			cos φ at % load			Starting				Axial load daN	Start/hour (max)
	HP	kW				50	75	100	50	75	100	Direct		Star-delta	Statoric		
												Cs/Cn	Is / In	Is / In	Is / In		
10R100	100	75	230	247	3460	86,9	87	88	0,73	0,80	0,84	1,80	6,40	1,90	3,40	6000	10
			400	142,7	3465	85,9	88	88,3	0,72	0,84	0,86						
			460	124	3470	86,4	88,3	88,5	0,64	0,77	0,82						
10R125	125	92	230	303	3462	87,2	87,3	88,3	0,74	0,83	0,84	1,80	6,40	1,90	3,40		
			400	174,5	3469	86,2	88,3	88,6	0,71	0,83	0,86						
			460	152	3474	86,7	88,6	88,8	0,63	0,75	0,82						
10R150	150	110	230	358	3465	87,9	88	89	0,71	0,81	0,85	1,60	6,30	1,80	3,40		
			400	207	3470	86,9	89	89,3	0,73	0,84	0,86						
			460	180	3475	87,4	89,3	89,5	0,63	0,77	0,81						
10R175	175	130	230	423	3469	87,5	88,2	89	0,73	0,81	0,83	1,55	6,70	1,80	3,30		
			400	245,3	3475	86,5	89,3	89,4	0,71	0,83	0,85						
			460	213	3482	87,1	89,5	89,6	0,62	0,75	0,82						
10R200	200	150	230	480	3475	87,1	88,2	89	0,72	0,82	0,84	1,55	6,50	1,80	3,30		
			400	277,2	3483	86,1	88,5	89,1	0,71	0,81	0,86						
			460	241	3488	86,5	88,1	88,7	0,65	0,75	0,83						
10R225	225	165	230	542	3478	86,5	87,5	88,6	0,72	0,82	0,84	1,55	6,50	1,80	3,30		
			400	313,3	3488	85,4	87,2	88,5	0,71	0,81	0,86						
			460	273	3492	86,0	87,3	88,2	0,65	0,75	0,83						
10R250	250	185	230	590	3480	87,4	88	89	0,73	0,83	0,85	1,50	6,50	1,80	3,30		
			400	342,2	3490	86,5	88,7	89,3	0,72	0,82	0,87						
			460	298	3496	87,3	89,3	89,5	0,65	0,77	0,84						

Service factor: 60Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise

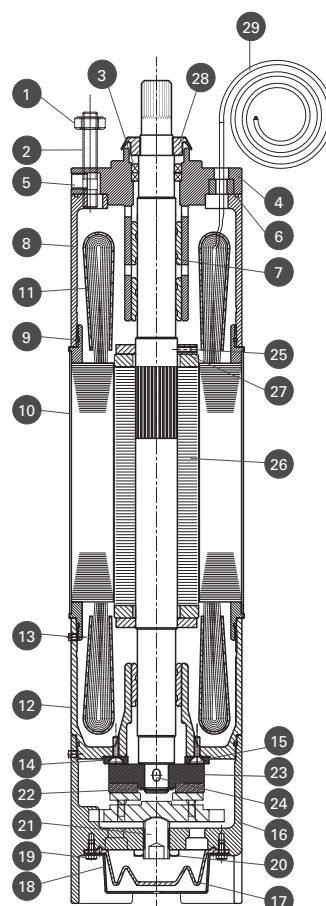
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

10R - 10RS - 10RX - 10RD						Max water temperature	
TYPE	Power		Cables		Standard Cable leght m	Winding type	
			Starting			PPC	PE2-PA / LPE
	HP	kW	Direct	Star Delta			
			460 V ± 5%	460 / 800 V			
10R100	100	75	3 × 1 × 25 mm ²	6 × 1 × 16 mm ²	5	30 °C	50 °C
10R125	125	92	3 × 1 × 25 mm ²	6 × 1 × 16 mm ²			
10R150	150	110	3 × 1 × 35 mm ²	6 × 1 × 16 mm ²			
10R175	175	130	3 × 1 × 35 mm ²	6 × 1 × 25 mm ²			
10R200	200	150	3 × 1 × 50 mm ²	6 × 1 × 25 mm ²			
10R225	225	165	3 × 1 × 50 mm ²	6 × 1 × 35 mm ²			
10R250	250	185	3 × 1 × 50 mm ²	6 × 1 × 35 mm ²			



10R - 10RS - 10RX - 10RD				
Motor 60Hz - 3450 rpm		Overall dimensions and weights		
TYPE	H mm	S mm	M mm	Kg
10R100	1284	101,6	240	270
10R125	1354			310
10R150	1504			350
10R175	1634			385
10R200	1734			415
10R225	1854			444
10R250	1984			480



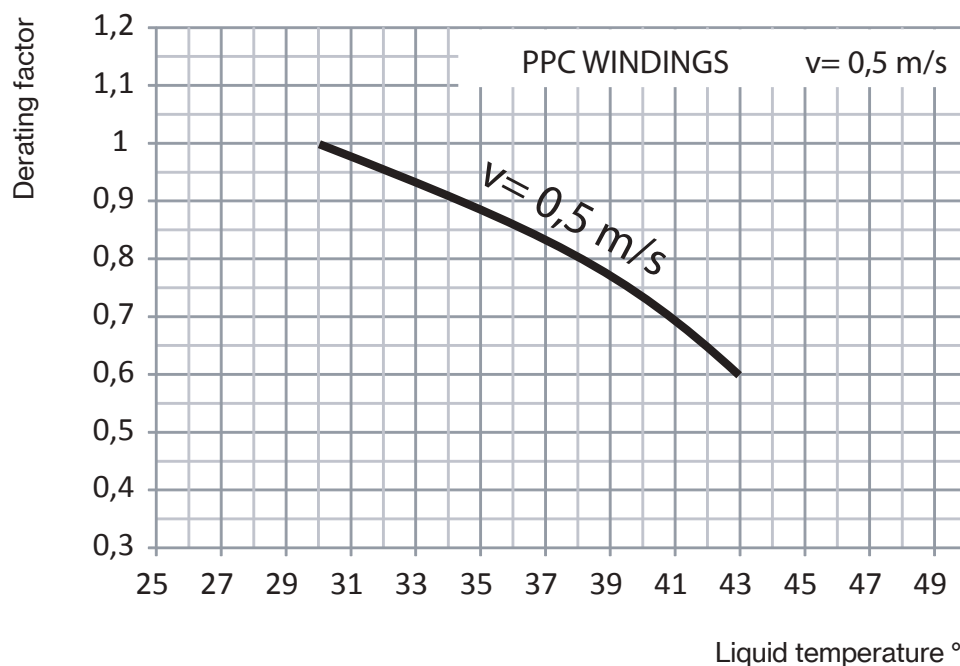


N. CODE	(*) N°	DESCRIPTION	MATERIAL STANDARD VERSION R	MATERIAL VERSION RS-RX-RD
1		N.4 Nuts	AISI 304	AISI 304 / AISI 316 / DUPLEX
2		N.4 Studs	AISI 304	AISI 304 / AISI 316 / DUPLEX
3(*)	1	N.2 Seal rings	NBR	NBR
4		Upper support	CAST IRON	AISI 304 / AISI 316 / DUPLEX
5		N.2 Grains for Liquid filling	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	Diaphragm	NBR	NBR
18		Cover diaphragm	AISI 304	AISI 304 / AISI 316 / DUPLEX
19		N.4 Screw for cover diaphragm	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

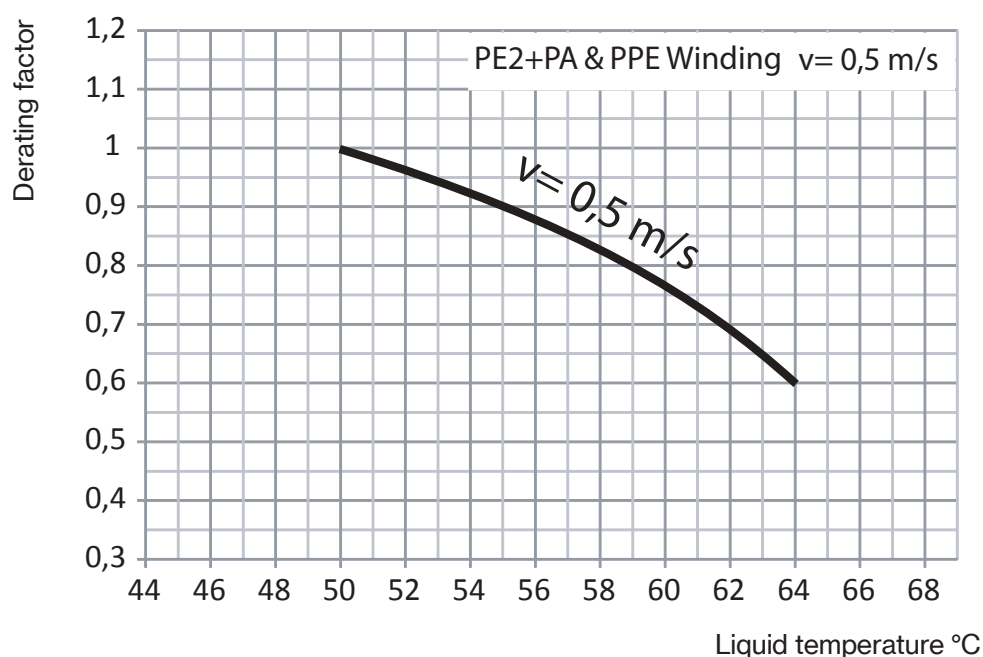
*Recommened spare parts



OPERATING CONDITIONS VS 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 they motors have to be derated according to the factor shown in the following graph.



All 6" - 8" - 10" motors with LPE or PE2+PA 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.

Motor size	Max motor sharing 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"	8	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

Deepwell Motors

12" - 14" rewindable submersible water-filled motors. Power from 185 kW up to 400 kW. It is available with DOL or STAR-DELTA starting type. Standard PE2+PA winding, for temperatures 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~ 380-460V - 60Hz
Cooling flow	min 0,5 m/s
Insulation class	F
Insulation	PE2 + PA
Protection degree	IP68
Available on demand	- Full motor in AISI 316 - Full motor in AISI 904 - PT 100 - Star/Delta starting - Cooling Sleeve - Clockwise rotation



PTR12/PTR14

TYPE 380V/60Hz 3~	Volt V	P ₂		I _N A	I _s /I _N	P ₁ W	N min ⁻¹	EFF% %	COS φ	CABLE	
		HP	kW							Lenght m	Size mm ²
PTR12 - 220kW	460	300	220	452	6,41	305746	3525	87,9	0,85	8	4×70
PTR12 - 250kW	460	340	250	510	6,82	344979	3525	88	0,85		4×70
PTR14 - 294kW	460	400	300	595	6,00	389000	3540	89	0,82		3×70+1×50
PTR14 - 330kW	460	450	330	645	6,00	427000	3545	90	0,83		3×70+1×50
PTR14 - 367kW	460	500	370	725	6,50	480000	3550	90	0,83		3×70+1×50
PTR14 - 404kW	460	550	400	750	6,50	520000	3540	90	0,87		3×70+1×50

P₂: Nominal power

V: Nominal voltage

I_N: Nominal current

I_s/I_N: Starting current / Nominal current

P₁: Absorbed power

N: Rotations per minute - Rpm

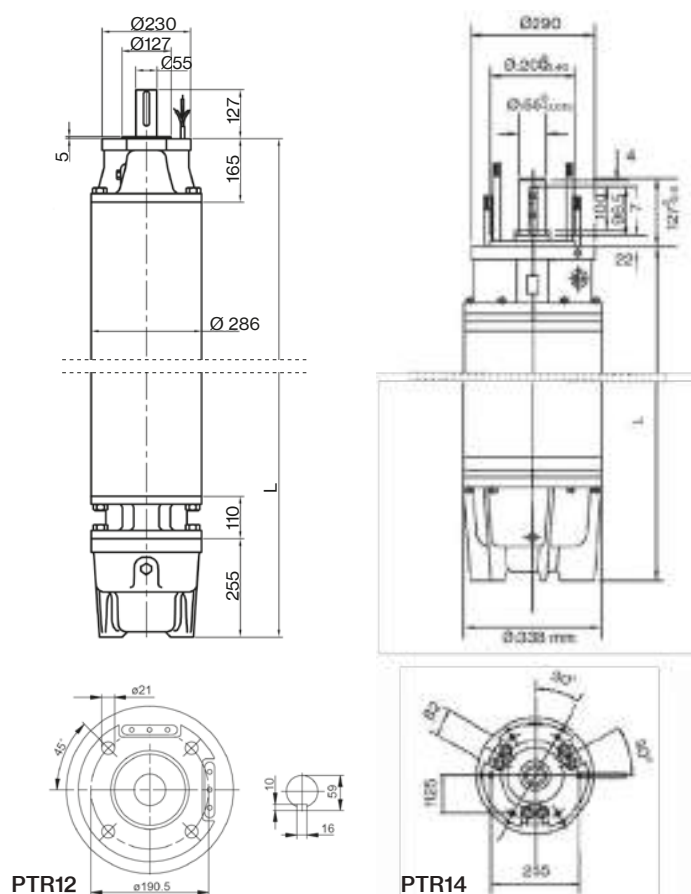
Cos φ: Power factor

EFF%: Efficiency

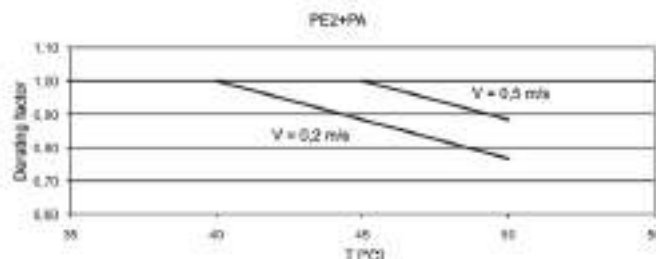
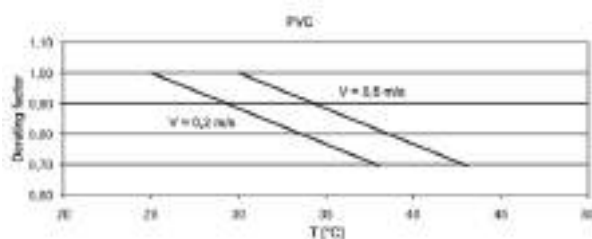
Size: Cable cross section

Lenght: Cable length

DIMENSIONS					
Motor Type	Power		Axial Thrust N	Lenght mm	Weight Kg
	HP	kW			
PTR12 - 220kW	300	220	70000	2110	700
PTR12 - 250kW	340	250		2280	775
PTR14 - 294kW	400	300		2020	845
PTR14 - 330kW	450	330		2160	906
PTR14 - 367kW	500	370		2320	1010
PTR14 - 404kW	550	400		2460	1105



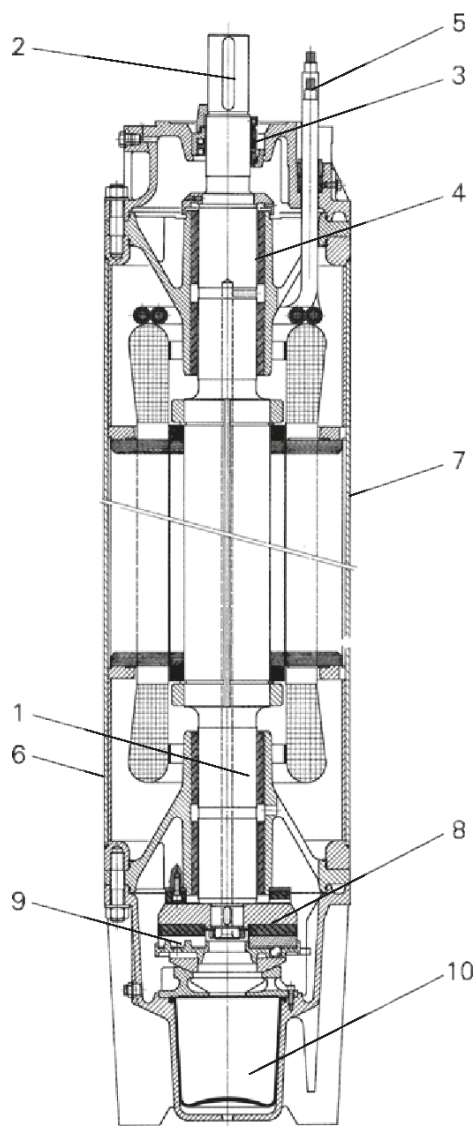
POWER DERATING VERSUS THE LIQUID TEMPERATURE



For PTR12 220 kW PE2+PA and 250 kW PE2+PA 50 Hz and for all the PTR12 60 Hz versions the maximum liquid temperature is 10 °C lower than that indicated in the graph.

For PTR12 300kW PE2+PA the maximum liquid temperature is 25°C





N.	PARTS	STD VERSION	VERSION 316 SS	VERSION 904 SS
1	Shaft	stainless steel	stainless steel	stainless steel
2	Shaft Terminal	AISI 316 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel
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 stainless steel	AISI 904 stainless steel
7	Jacket	AISI 316 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel
8	Thrust Plate	steel	steel	steel
9	Thrust Bearing	steel/NBR	steel/NBR	steel/NBR
10	Diaphragm	EPDM	EPDM	EPDM
11	Screws	AISI 304 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel





SWIMMING POOL



Self priming pump for pools with a large built-in pre-filter, which, together with the excellent hydraulic performance of the pump, generates a very high filtration capacity. The transparent polycarbonate lid easily allows inspection of the pre-filter sieve. Pump body, seal housing and diffuser reinforced with glass fibre polypropylene are resistant to chemical products used for pools and guarantee excellent duration.



Pre-filter sieve

Construction features

Pump body, seal housing, diffuser	polypropylene
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate

Motor

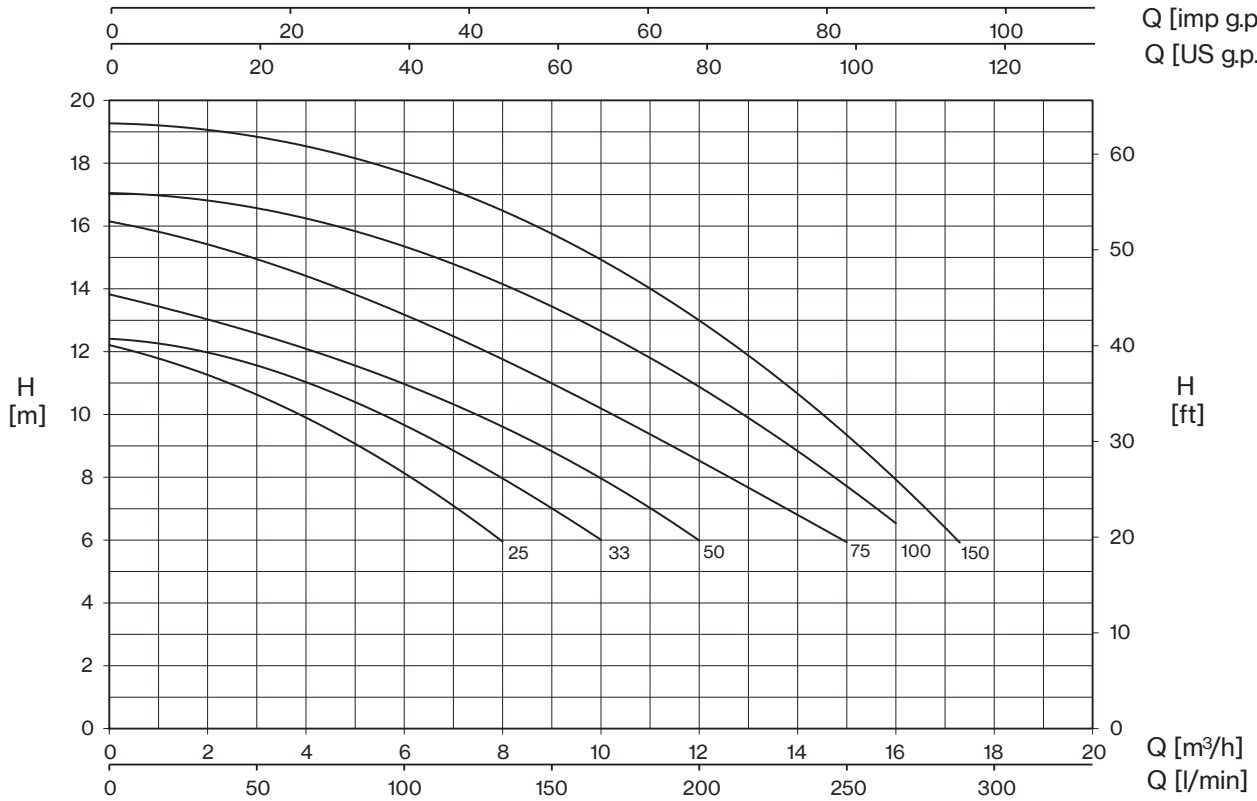
2 Poles induction motor	1~ 220V-60Hz 3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



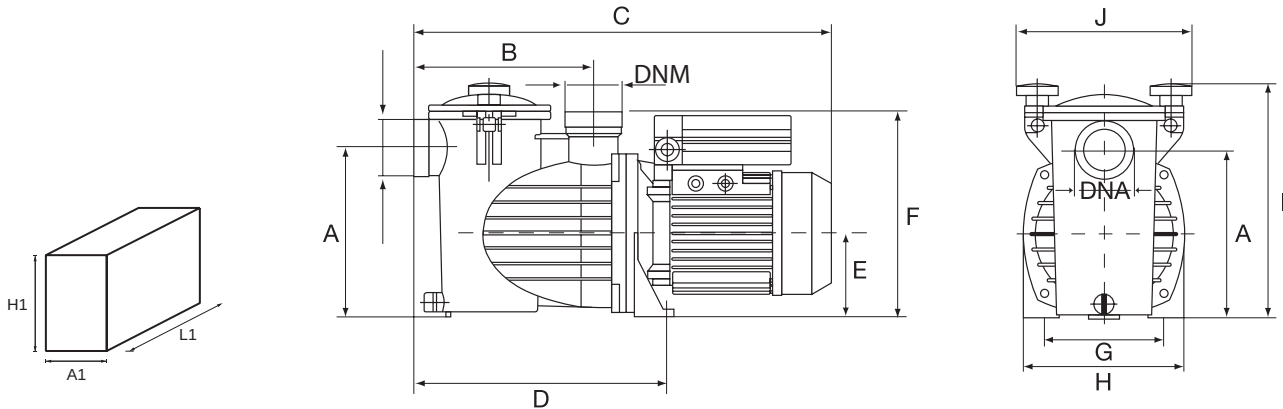
POOL1

Q [imp g.p.m]

Q [US g.p.m.]



TYPE		P2		μF	AMPERE			H (m)							
1~	3~				1~	3~	3~	6	8	10	12	13	14	16	18
		HP	KW		230 V	230 V	400 V	Q (m³/h)							
POOL1 25M	POOL1 25T	0,25	0,16	18	2,6	1,3	0,8	8	6	4	0,5				
POOL1 33M	POOL1 33T	0,33	0,25	18	2,9	1,9	1,1	10	8	5,5	2				
POOL1 50M	POOL1 50T	0,5	0,37	18	3,3	2,5	1,4	12	10	7	5	1			
POOL1 75M	POOL1 75T	0,75	0,55	20	3,8	3	1,7	15	12,5	10	8	6,6	4,2		
POOL1 100M	POOL1 100T	1	0,75	20	4,2	3,4	2	16	15,3	13	10,5	9,7	7,6	5,5	
POOL1 150M	POOL1 150T	1,5	1,1	30	7,3	5,0	2,9	17,3	15,9	14,5	12,8	12	11	9	5



TYPE	DIMENSIONS (mm)															
	A	B	C	D	E	F	G	H	I	J	DNA/DNM	L1	A1	H1	Net	Gross
POOL1 25M	191	205	470	285	95	233	140	180	265	197	11/2" Ø 50 PVC	630	230	360	8,5	9,5
POOL1 25T	191	205	470	285	95	233	140	180	265	197		630	230	360	9,8	10,8
POOL1 33M	191	205	470	285	95	233	140	180	265	197		630	230	360	8,5	9,5
POOL1 33T	191	205	470	285	95	233	140	180	265	197		630	230	360	9,8	10,8
POOL1 50M	191	205	470	285	95	233	140	180	265	197		630	230	360	8,5	9,5
POOL1 50T	191	205	470	285	95	233	140	180	265	197		630	230	360	9,8	10,8
POOL1 75M	191	205	470	285	95	233	140	180	265	197		630	230	360	9,9	10,9
POOL1 75T	191	205	470	285	95	233	140	180	265	197		630	230	360	9,8	10,8
POOL1 100M	191	205	470	285	95	233	140	180	265	197	11/2" Ø 50 PVC	630	230	360	9,9	10,9
POOL1 100T	191	205	470	285	95	233	140	180	265	197		630	230	360	9,8	10,8
POOL1 150M	191	205	470	285	95	233	140	180	265	197		630	230	360	10,6	11,6
POOL1 150T	191	205	470	285	95	233	140	180	265	197		630	230	360	10,5	11,8





Pre-filter sieve



Wall support

The new electronic system for pumps EASY Control applicable to the POOL1 Series is an integral system to command the installation. By attaching a digital switchboard control panel to the pump, allows an easy and intuitive installation and complete control of the pool. The system incorporates the necessary protections for the pump and for people, time clocks and input / outputs for the management of the lighting system, salt chlorinator, heat pump, temperature probe, etc.

Construction features

Pump body, seal housing, diffuser polypropylene

Motor bracket aluminum

Impeller Noryl®

Mechanical seal ceramic-graphite-AISI 316

Motor shaft stainless steel AISI 316

Liquid temperature max 40 °C

Pre-filter cover polycarbonate

Motor

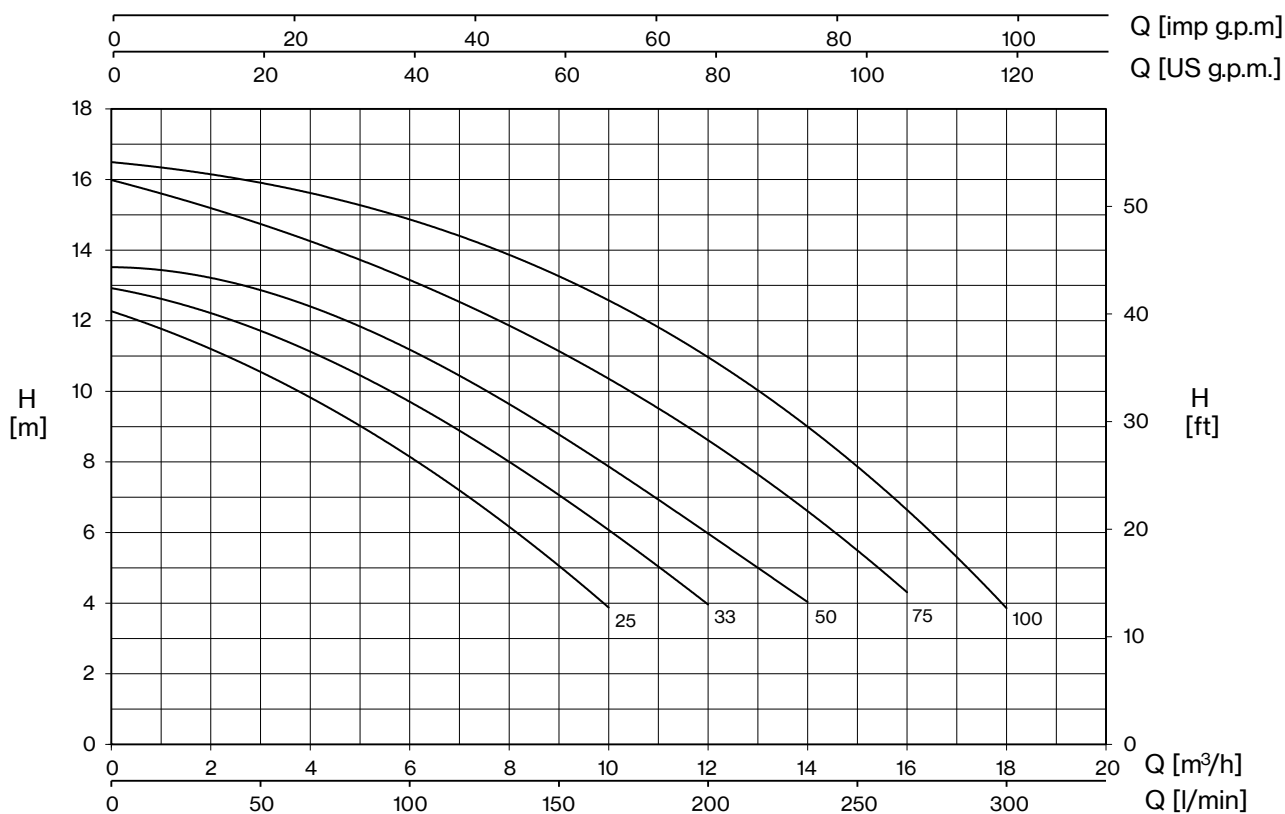
2 Poles induction motor 1~ 220V-60Hz

Insulation class F

Protection degree IP55

Integral system for pool control EASY Control incorporated into the pump





TYPE	P2		μF	AMPERE	H (m)								DNA	DNM
1~				1~	4	6	8	10	11	12	13	14		
	HP	kW		230 V	Q (m³/h)									
POOL1 EASY 25M	0,25	0,16	18	2,6	10	8	6	4	2,5	0,5			1½"	
POOL1 EASY 33M	0,33	0,25	18	2,9	12	10	8	5,5	4,6	2				
POOL1 EASY 50M	0,5	0,37	18	3,3	14	12	10	7	6,5	5				
POOL1 EASY 75M	0,75	0,55	20	3,8	16	15	12,5	10	9,3	8	6,6	4,2		
POOL1 EASY 100M	0,95	0,70	20	4,2	18	16	15,3	13	12,1	10,5	9,7	7,6		



Self-priming pump for pools with a large built-in pre-filter, which, together with the excellent hydraulic performance of the pump, generates a very high filtration capacity. Includes a transparent polycarbonate pre-filter lid with opening key for effortless opening and easy inspection of the sieve. Pump body, seal housing and diffuser reinforced with glass fibre polypropylene are resistant to chemical products used for pools and guarantee excellent duration.



Pre-filter sieve and opening key

Construction features

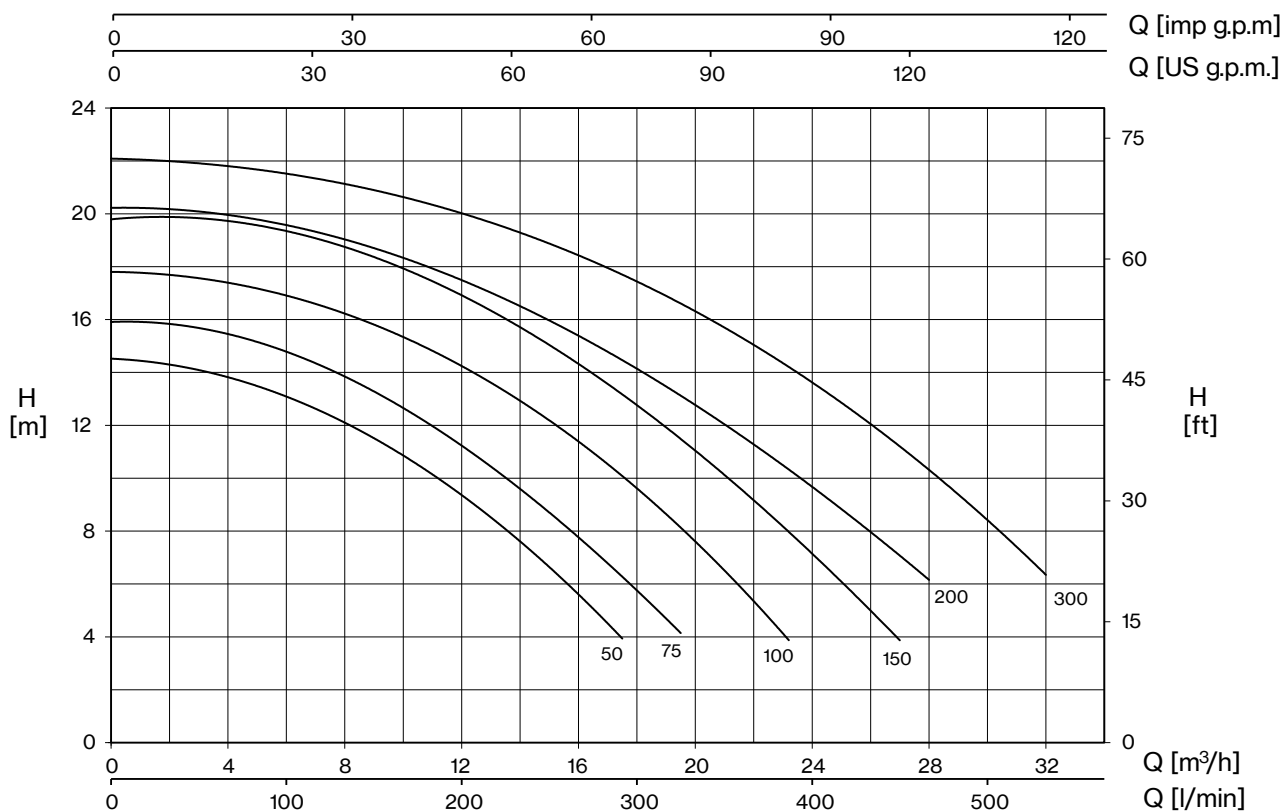
Pump body, seal housing, diffuser	polypropylene
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Opening key for pre-filter lid	polypropylene

Motor

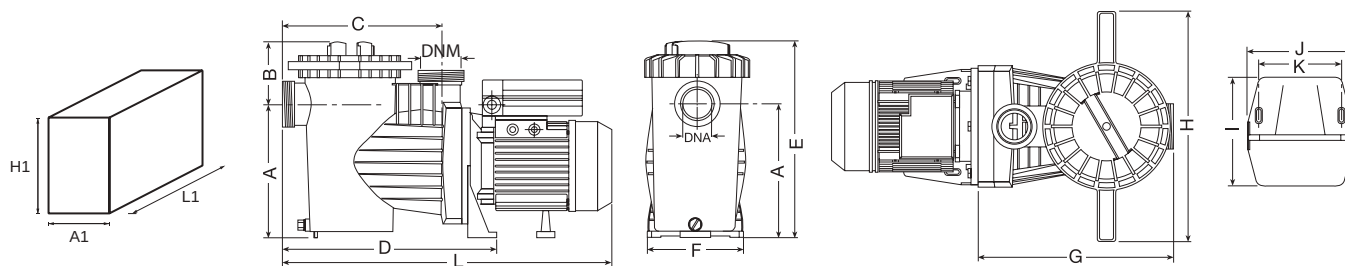
2 Poles induction motor	1~ 220V-60Hz 3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



POOL2



TYPE		P2		μF	AMPERE			H (m)								
1~	3~				1~	3~	3~	4	6	8	10	12	14	16	18	21
		HP	kW		230 V	230 V	400 V	Q (m³/h)								
POOL2 50M	POOL2 50T	0,5	0,37	20	4,4	2,4	1,4	17,5	15,6	13,5	11,1	8,4				
POOL2 75M	POOL2 75T	0,75	0,55	20	4,75	3,1	1,8	19,5	18	15,7	13,5	10,8	7,9			
POOL2 100M	POOL2 100T	1	0,75	25	5,5	3,8	2,2	23,2	21,1	19,7	18	15	12,3	8,7		
POOL2 150M	POOL2 150T	1,5	1,1	30	7,3	5	2,9	27	25	23	21	19	17	13	10	
POOL2 200M	POOL2 200T	2	1,5	40	9,2	6	3,5		28	26	24	21	18	14	12	
POOL2 300M	POOL2 300T	3	2,2	40	12,2	8,6	5		32	30	29	27	23	20	15	12



TYPE	DIMENSIONS (mm)												DNA/DNM				Kg	
	A	B	C	D	E	F	G	H	I	J	K	L		L1	A1	H1	Net	Gross
POOL2 50M	216	109	265	370	325	206	325	400	220	205	160	550	2" Ø 63 PVC	630	230	360	11,7	12,7
POOL2 50T	216	109	265	370	325	206	325	400	220	205	160	550		630	230	360	11,9	12,9
POOL2 75M	216	109	265	370	325	206	325	400	220	205	160	550		630	230	360	11,5	12,5
POOL2 75T	216	109	265	370	325	206	325	400	220	205	160	550		630	230	360	13,1	14,1
POOL2 100M	216	109	265	370	325	206	325	400	220	205	160	550		630	230	360	12,9	13,9
POOL2 100T	216	109	265	370	325	206	325	400	220	205	160	550		630	230	360	15,5	16,5
POOL2 150M	216	109	265	370	325	206	325	400	220	205	160	580		630	230	360	13,9	14,9
POOL2 150T	216	109	265	370	325	206	325	400	220	205	160	580		630	230	360	17,1	18,1
POOL2 200M	216	109	265	370	325	206	325	400	220	205	160	580	2" Ø 63 PVC	630	230	360	14,9	15,9
POOL2 200T	216	109	265	370	325	206	325	400	220	205	160	580		630	230	360	21	22
POOL2 300M	216	109	265	370	325	206	325	400	220	205	160	630	2" Ø 63 PVC	705	230	360	17,4	18,4
POOL2 300T	216	109	265	370	325	206	325	400	220	205	160	630		705	230	360	21	22





The new electronic system for pumps EASY Control applicable to the POOL2 Series is an integral system to command the installation. By attaching a digital switchboard control panel to the pump, allows an easy and intuitive installation and complete control of the pool. The system incorporates the necessary protections for the pump and for people, time clocks and input / outputs for the management of the lighting system, salt chlorinator, heat pump, temperature probe, etc.



Pre-filter sieve

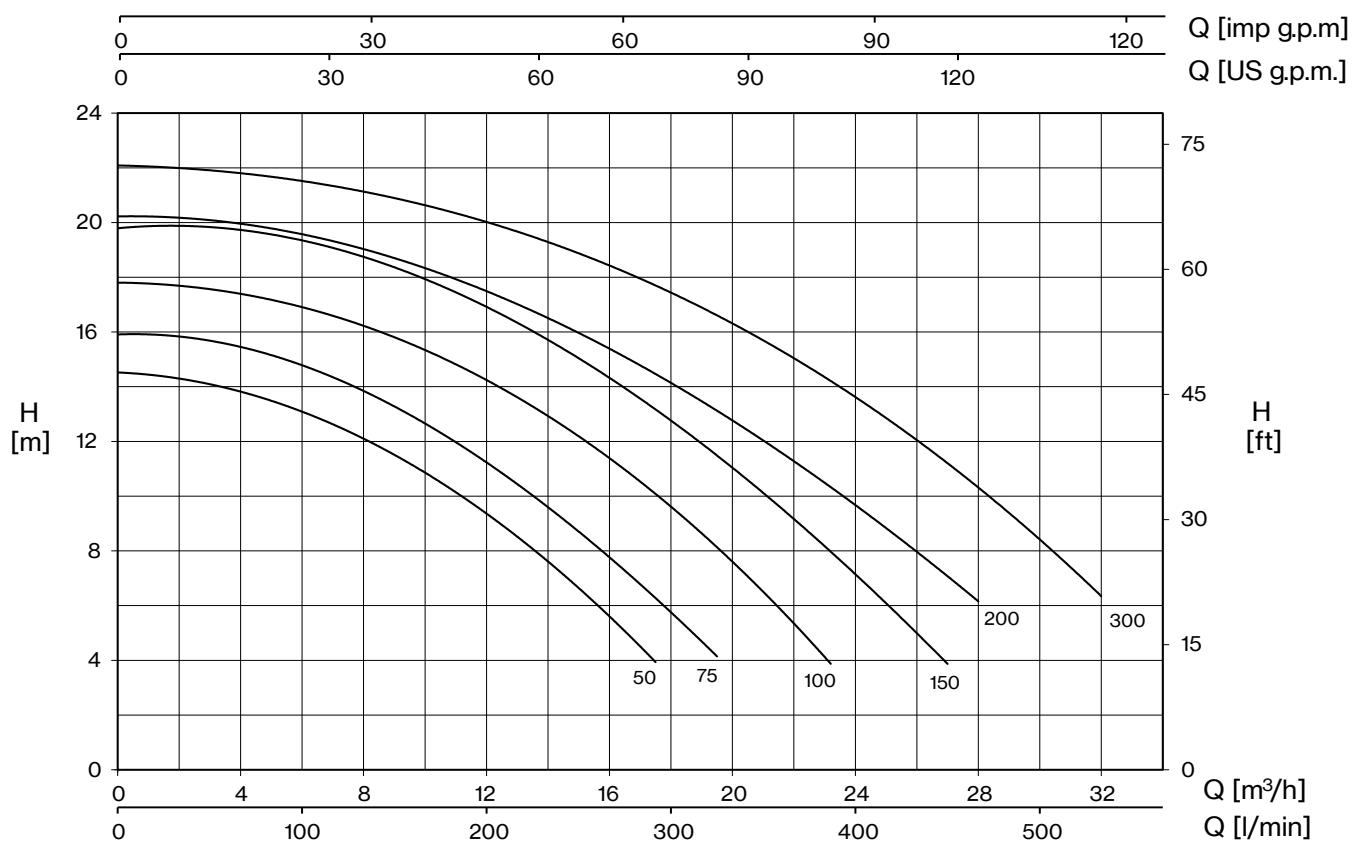
Wall support

Construction features	
Pump body, seal housing, diffuser	polypropylene
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Opening key for pre-filter lid	polypropylene

Motor	
2 Poles induction motor	1~ 220V-60Hz 3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55
Integral system for pool control	EASY Control incorporated into the pump



POOL2 EASY



TYPE	P2		μF	AMPERE	H (m)										DNA	DNM
1~				1~	4	6	8	10	12	14	16	18	21			
	HP	kW		230 V	Q (m³/h)											
POOL2 EASY 50M	0,5	0,37	20	4,4	17,5	15,6	13,5	11,1	8,4					2" Ø 63 PVC		
POOL2 EASY 75M	0,75	0,55	20	4,75	19,5	18	15,7	13,5	10,8	7,9						
POOL2 EASY 100M	1	0,75	25	5,5	23,2	21,1	19,77	18	15	12,3	8,7					
POOL2 EASY 150M	1,5	1,1	30	7,3	27	25	23	21	19	17	13	10				
POOL2 EASY 200M	2	1,5	40	9,2	-	28	26	24	21	18	14	12				
POOL2 EASY 300M	3	2,2	40	12,2	-	32	30	29	27	23	20	15	12			



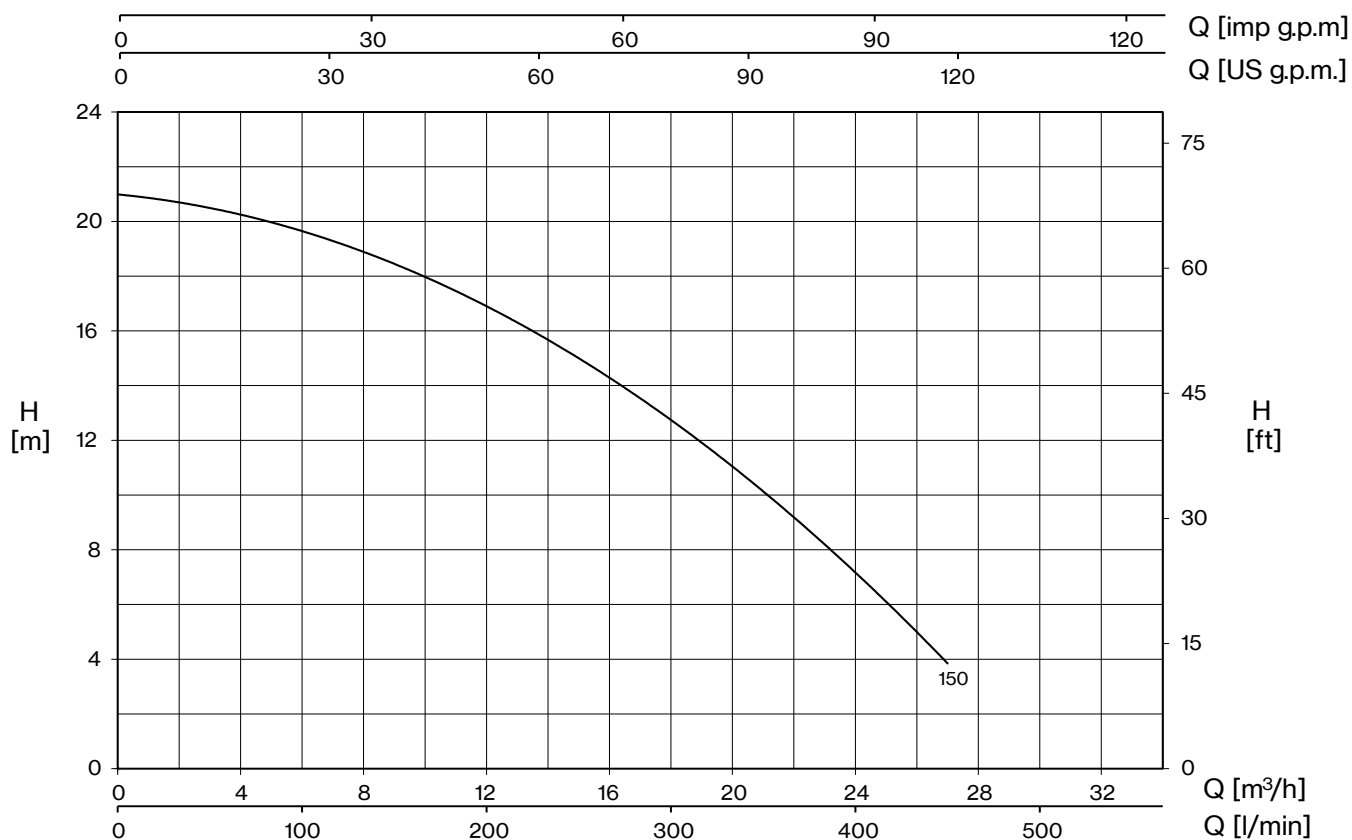
The pump includes a variable speed drive for greater comfort and minimized energy costs, in addition to the following features: 5 configurable daily filtration cycles, filter cleaning program, pool lighting control, function for water surface cleaning, 2 outputs for activating saline chlorinator and pump status, protection for over voltage, against dry running and pipe breakage.

Construction features	
Pump body, seal housing, diffuser	polypropylene
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Opening key for pre-filter lid	polypropylene

Motor	
2 Poles induction motor	1~ 220V-60Hz
Insulation class	F
Protection degree	IP55
Integral system for pool control	with variable speed drive included



POOL2-I



TYPE	P2		μF	AMPERE	H (m)								DNA	DNM
1~				1~	4	6	8	10	12	14	16	18		
	HP	kW		230 V	Q (m³/h)									
POOL2-I 150M	1,5	1,1	30	7,3	27	25	23	21	19	17	13	10	2" Ø 63 PVC	



New range of pool pumps that include variable speed drive of easy and intuitive setup and high efficiency IE5 synchronous motor with permanent magnets. The combination of these two innovative technologies, assure energy savings up to 80% compared to the traditional pumps. The pump is extremely silent (≈ 40 dB) and has great versatility as one single model is suitable for pools of size from 15 m³ to 450 m³.



Pre-filter sieve



Self-ventilated wall support

Construction features

Pump body, seal housing, diffuser	polypropylene
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Opening key for pre-filter lid	polypropylene

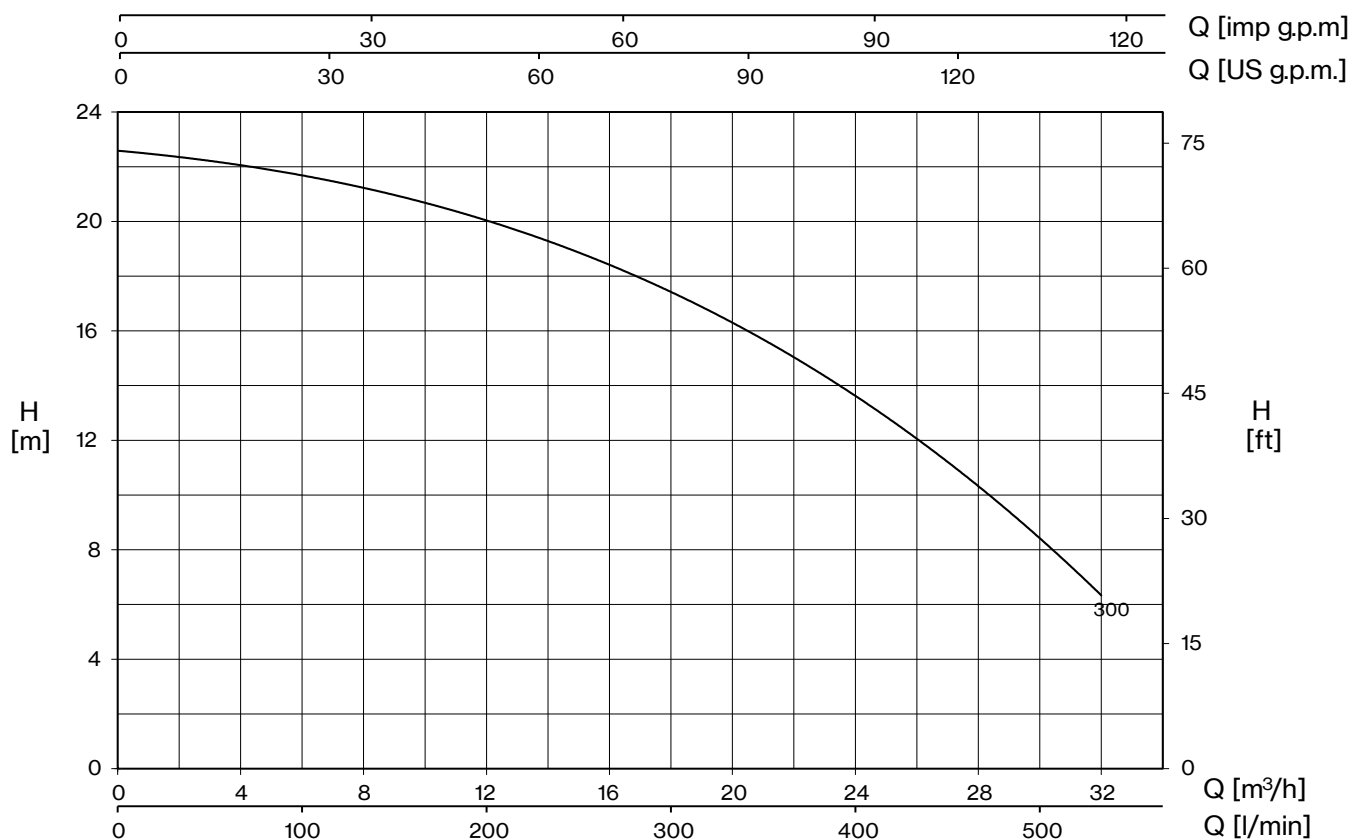
Motor

2 Poles induction motor	1~ 220V-60Hz
Insulation class	F
Protection degree	IP55
Integral system for pool control	with variable speed drive included



efficiency class
IE5





TYPE	P2		μF	AMPERE	H (m)								DNA	DNM
1~				1~	6	8	10	12	14	16	18	21		
	HP	kW		230 V	Q (m³/h)									
POOL2-IM 300M	3	2,2	40	12,2	32	30	29	27	23	20	15	12	2" Ø 63 PVC	



Self-priming pump for pools with large pre-filter basket for high filtration capacity. The cataphoresis painting, the pump body in polypropylene with glass fiber and the screws in AISI316 steel give a remarkable resistance to corrosion.

Construction features

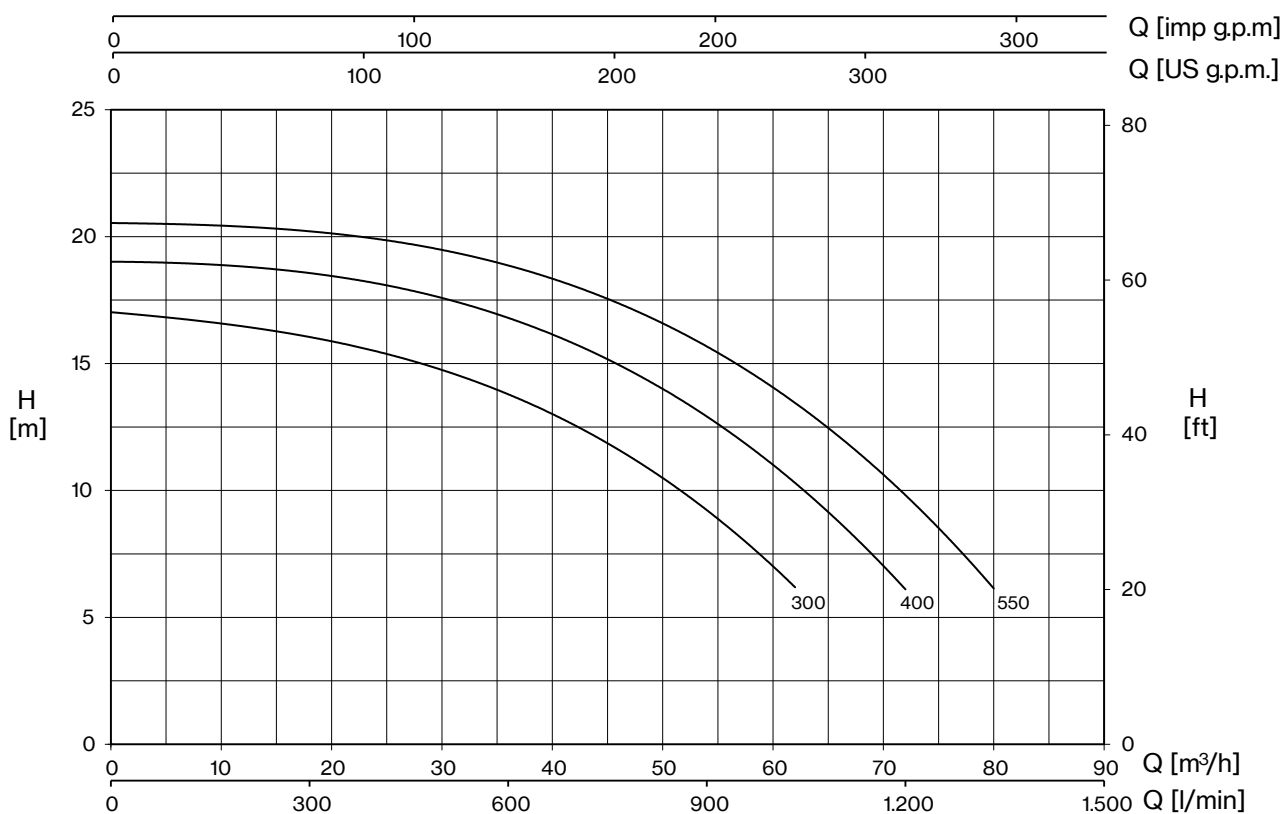
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Opening key for pre-filter lid	polypropylene

Motor

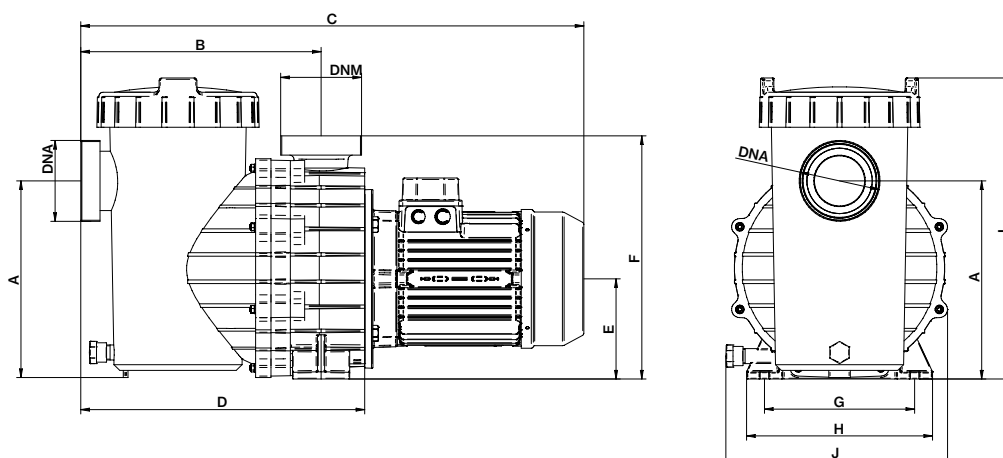
2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



POOL3



TYPE	P2		AMPERE		rpm	H (m)							
			3~	3~		6	8	10	12	14	16	18	20
	HP	kW	230 V	400V		Q (m³/h)							
POOL3 300	3	2,2	9,4	5,3	2900	62	58	52	44	34	20		
POOL3 400	4	3	12,5	6,9	2900	72	68	63	57	50	40	27	
POOL3 550	5,5	4	-	8,8	2900	80	76	72	67	60	52	41	26



TYPE	DIMENSIONS (mm)											DNA	DNM
	A	B	C	D	E	F	G	H	I	J			
POOL3 300	277	336	704	397	140	340	210	260	420	310	PVC 90	PVC 90	
POOL3 400	277	336	704	397	140	340	210	260	420	310			
POOL3 550	277	336	704	397	140	340	210	260	420	310			





High-flow self-priming pool pump available at 4 poles up to 10 HP ideal for quite operation and larger filtration. Cataphoresis painting, screws in AISI316 and pump body in polypropylene with glass fiber give a remarkable resistance to corrosion. In addition, a large support base make the whole system particularly robust.



Bronze impeller (on request)

Construction features

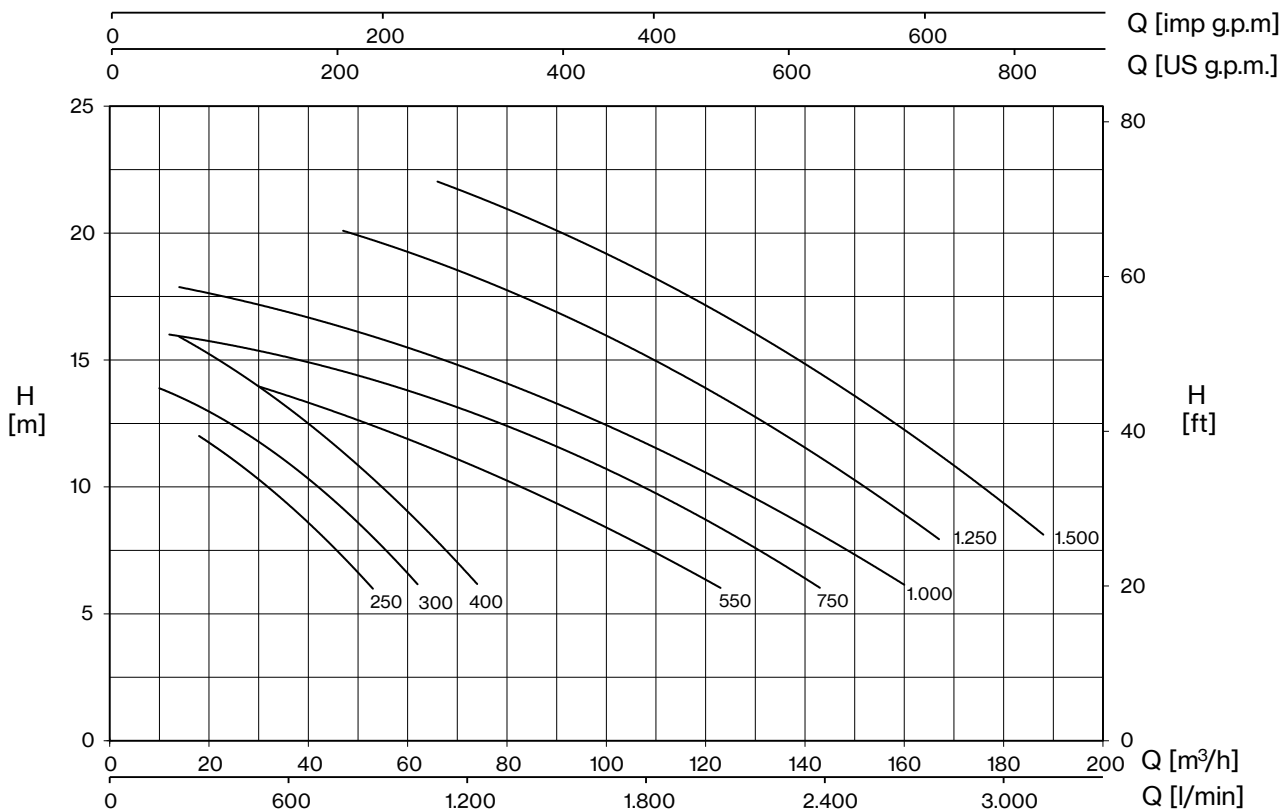
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®, marine bronze on request
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Support base	Noryl®

Motor

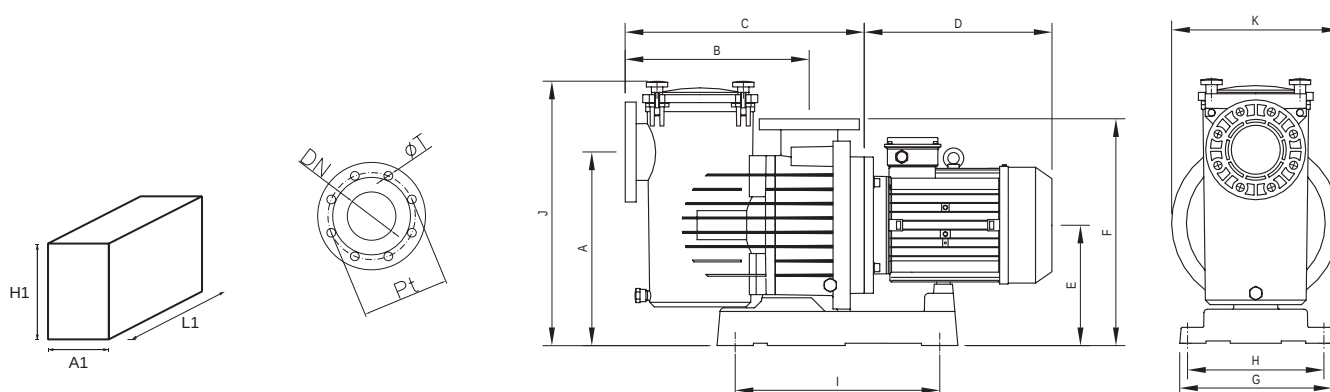
2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



POOL4



TYPE	P2		AMPERE		rpm	H (m)										DNA	DNM	Minimum size of suction pipe
3~			3~	3~		6	8	10	12	14	16	18	20	22				
	HP	kW	230 V	400V		Q (m³/h)												
POOL4 4-250	2,5	1,8	8,5	4,9	1450	53	43	32	18						110	110		
POOL4 4-300	3	2,2	9,4	5,3	1450	62	54	43	26	10				125				
POOL4 4-400	4	3	12,5	6,9	1450	74	66	56	42	29	14			140				
POOL4 4-550	5,5	4	15,3	8,8	1450	123	104	84	57	30				160				
POOL4 4-750	7,5	5,5	-	12	1450	143	127	107	85	57	12			180				
POOL4 4-1000	10	7,5	-	15,8	1450	160	145	126	107	80	48	14		180				
POOL4 2-1250	12,5	9,2	-	18,5	2850		167	152	136	118	99	80	47	180				
POOL4 2-1500	15	11	-	20,9	2850		188	177	162	146	130	112	92	66		200		



TYPE	DIMENSIONS (mm)																Kg	
	A	B	C	D	E	F	G	H	I	J	K	DN	øT	Pt	A1	H1		L1
POOL4 4-250	420	405	530	310	265	495	335	300	450	590	370	110	16	180	385	595	840	42
POOL4 4-300	420	405	530	310	265	495	335	300	450	590	370				385	595	840	42,5
POOL4 4-400	420	405	530	310	265	495	335	300	450	590	370				385	595	840	44,5
POOL4 4-550	420	405	530	335	265	495	335	300	450	590	370				385	715	1170	53,4
POOL4 4-750	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	66
POOL4 4-1000	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	76
POOL4 2-1250	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	84,5
POOL4 2-1500	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	85,5





High-flow self-priming vertical pool pump available at 4 poles up to 10 HP ideal for quite operation and larger filtration. Cataphoresis painting, pre-filter in AISI316 and pump body in polypropylene with glass fiber give a remarkable resistance to corrosion. In addition, a large support base make the whole system particularly robust.



Bronze impeller (on request)

Construction features

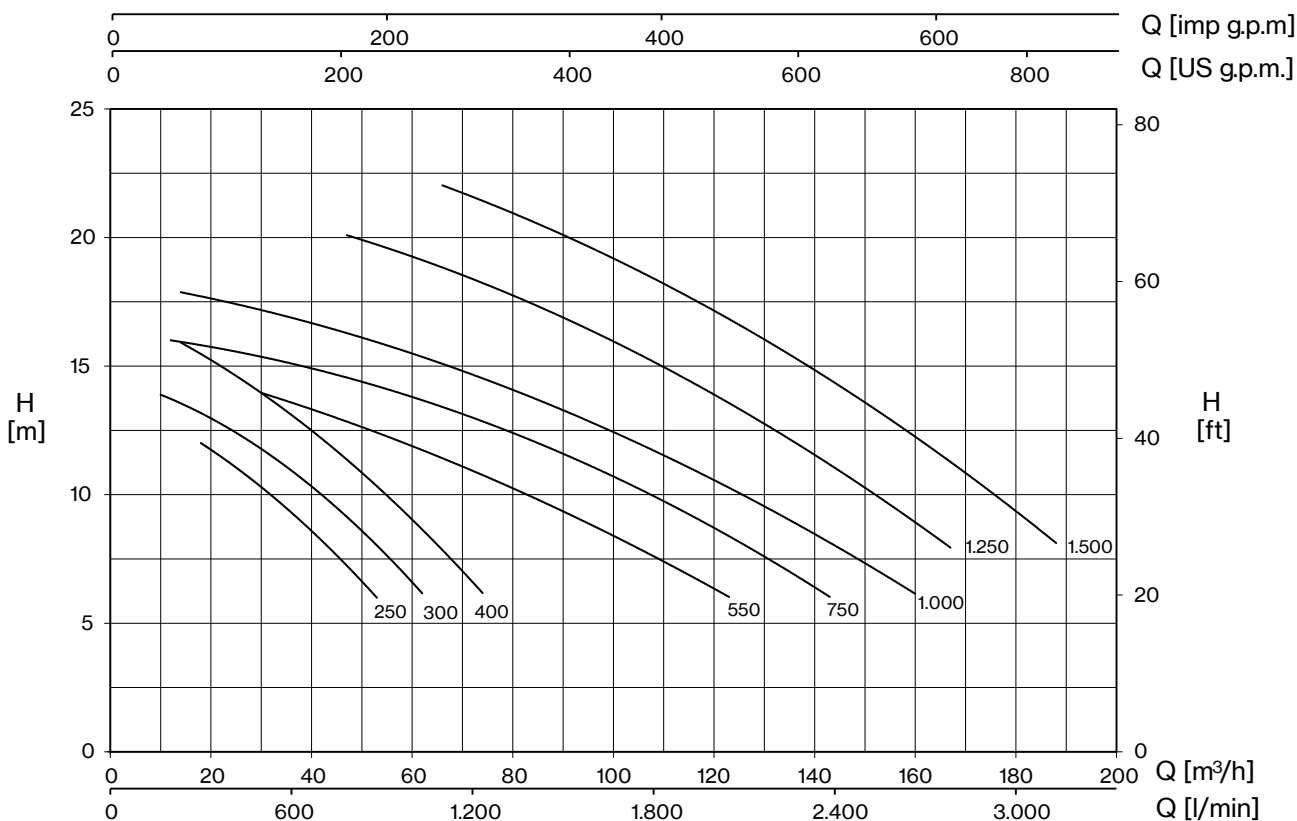
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®, marine bronze on request
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter	stainless steel AISI 316L

Motor

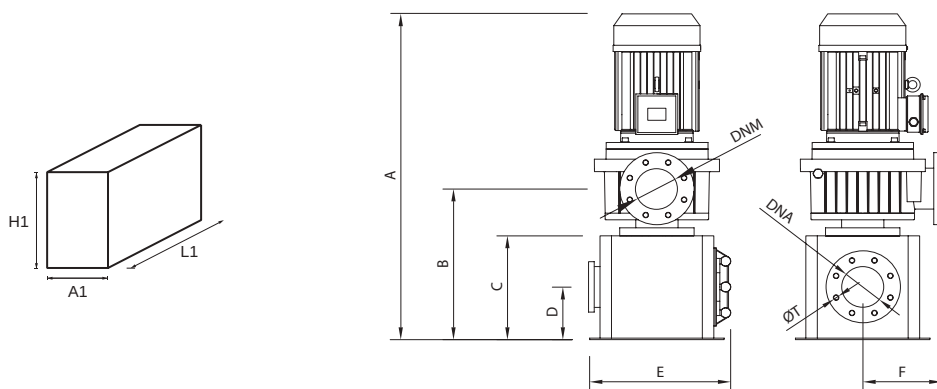
2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



V-POOL4



TYPE	P2		AMPERE		rpm	H (m)										DNA	DNM	Minimum size of suction pipe
3~			3~	3~		6	8	10	12	14	16	18	20	22				
	HP	kW	230 V	400V		Q (m³/h)												
V-POOL4 4-250	2,5	1,8	8,5	4,9	1450	53	43	32	18					125	110	110		
V-POOL4 4-300	3	2,2	9,4	5,3	1450	62	54	43	26	10						125		
V-POOL4 4-400	4	3	12,5	6,9	1450	74	66	56	42	29	14					140		
V-POOL4 4-550	5,5	4	15,3	8,8	1450	123	104	84	57	30						160		
V-POOL4 4-750	7,5	5,5	-	12	1450	143	127	107	85	57	12					180		
V-POOL4 4-1000	10	7,5	-	15,8	1450	160	145	126	107	80	48	14				180		
V-POOL4 2-1250	12,5	9,2	-	18,5	2850		167	152	136	118	99	80	47			180		
V-POOL4 2-1500	15	11	-	20,9	2850		188	177	162	146	130	112	92			66	200	



TYPE	DIMENSIONS (mm)																Kg	
	A	B	C	D	E	F	G	H	I	J	K	DN	øT	Pt	A1	H1		L1
V-POOL4 4-250	420	405	530	310	265	495	335	300	450	590	370	110	16	180	385	595	840	42
V-POOL4 4-300	420	405	530	310	265	495	335	300	450	590	370				385	595	840	42,5
V-POOL4 4-400	420	405	530	310	265	495	335	300	450	590	370				385	595	840	44,5
V-POOL4 4-550	420	405	530	335	265	495	335	300	450	590	370				385	715	1170	53,4
V-POOL4 4-750	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	66
V-POOL4 4-1000	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	76
V-POOL4 2-1250	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	84,5
V-POOL4 2-1500	420	405	508	380	265	495	335	300	450	590	370				385	715	1170	85,5





POOL4-I is the new generation of Commercial pool pumps integrating a new frequency inverter to get a great comfort and minimize the energy costs. The system allows the programming of several daily filtration cycles with different operating speed for each cycle. In installations with several POOL4-I the pumps automatically communicate and alternate to work the same amount of hours. Capable to work more than one pump at the same time.



Self ventiled wall support

Construction features

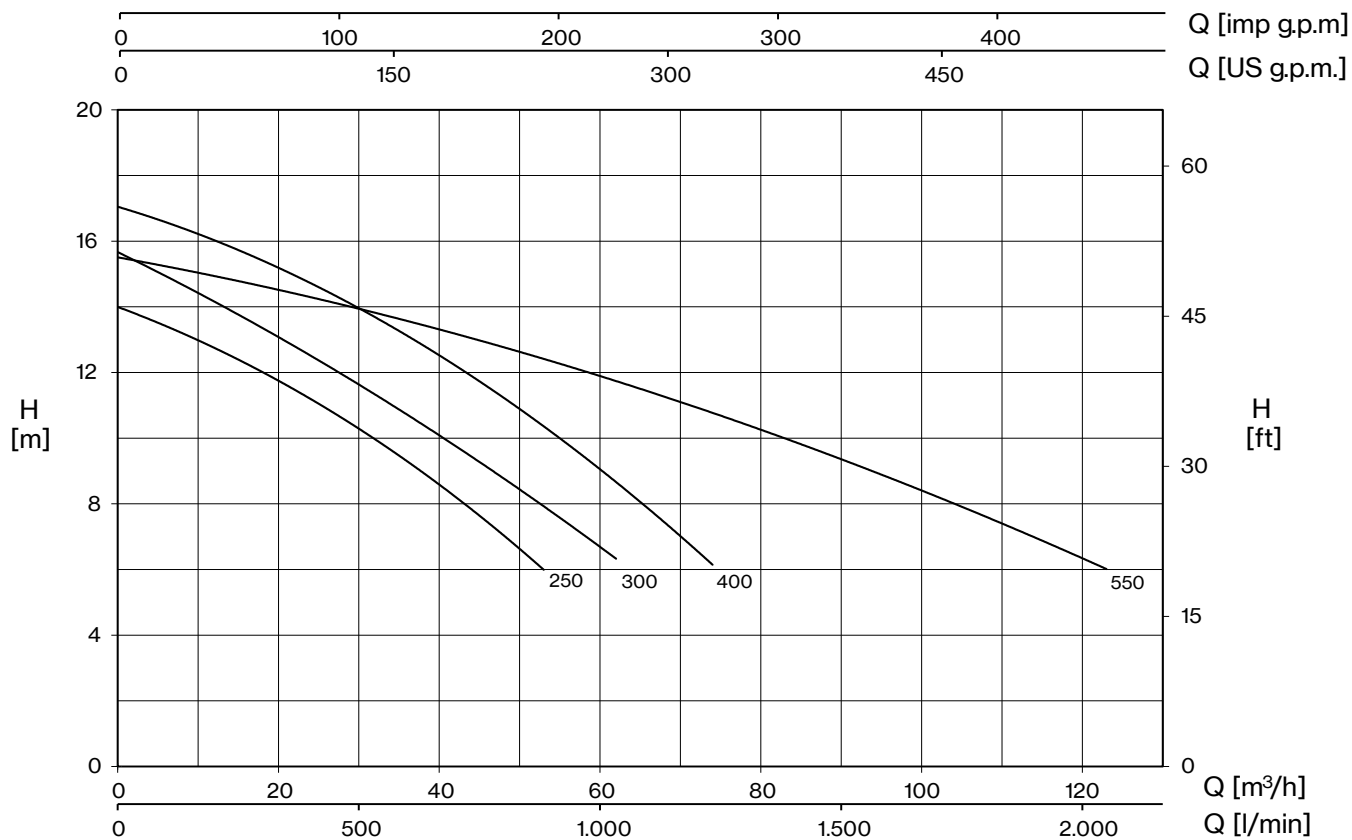
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®, marine bronze on request
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Support base	Noryl®

Motor

2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55
Integral system for pool control	with variable speed drive included



POOL4-I



TYPE	P2		rpm	H (m)						DNA	DNM	Minimum size of suction pipe
3~				6	8	10	12	14	16			
	HP	kW		Q (m³/h)								
POOL4-I 4-250	2,5	1,8	1450	53	43	32	18			110	110	
POOL4-I 4-300	3	2,2	1450	62	54	43	26	10			125	
POOL4-I 4-400	4	3	1450	74	66	56	42	29	14		140	
POOL4-I 4-550	5,5	4	1450	123	104	84	57	30			160	

POOL4-IM

Swimming Pool



POOL4-IM is the new generation of commercial pool pumps integrating a frequency inverter and high efficiency IE5 synchronous motor with permanent magnets for grater comfort and minimize energy cost. The system allows the programming of several daily filtration cycles with different operating speed for each cycle. In installations with several pumps they automatically communicate and alternate to work the same amount of hours.



Self ventiled wall support

Construction features

Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C
Pre-filter cover	polycarbonate
Support base	Noryl®

Motor

2 Poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55
Integral system for pool control	with variable speed drive included



UP TO

80%

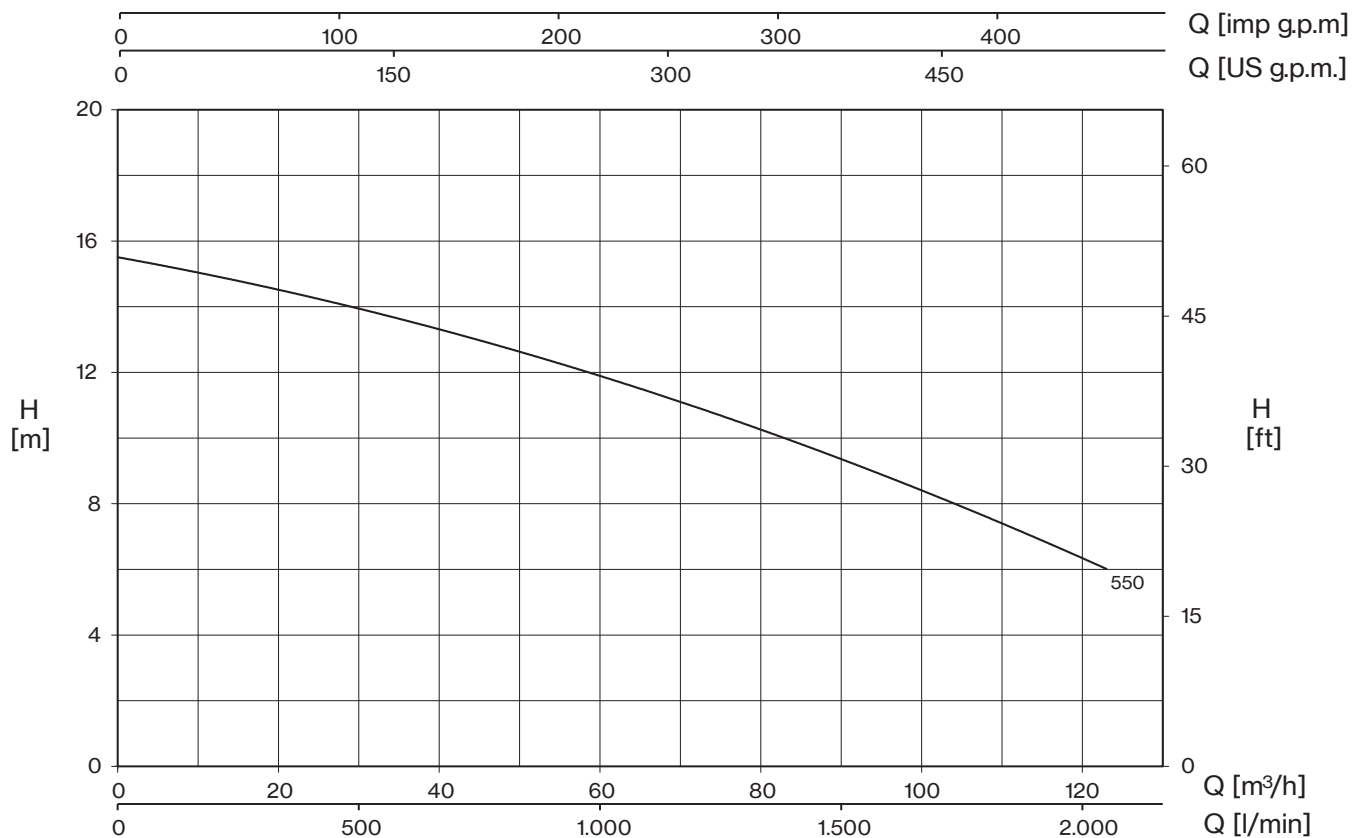
ENERGY SAVING

efficiency class

IE5



POOL4-IM



TYPE	P2		rpm	H (m)					DNA	DNM	Minimum size of suction pipe
3~				6	8	10	12	14			
	HP	kW		Q (m³/h)							
POOL4-IM 4-550	5,5	4	1450	123	104	84	57	30	110	160	



Pump ideal for countercurrent swimming installation and can be used in water parks, fountains, waterfalls, etc. The pump body in polypropylene reinforced with glass fiber allows it to resist the chemicals of the pools and guarantee excellent durability.

Construction features

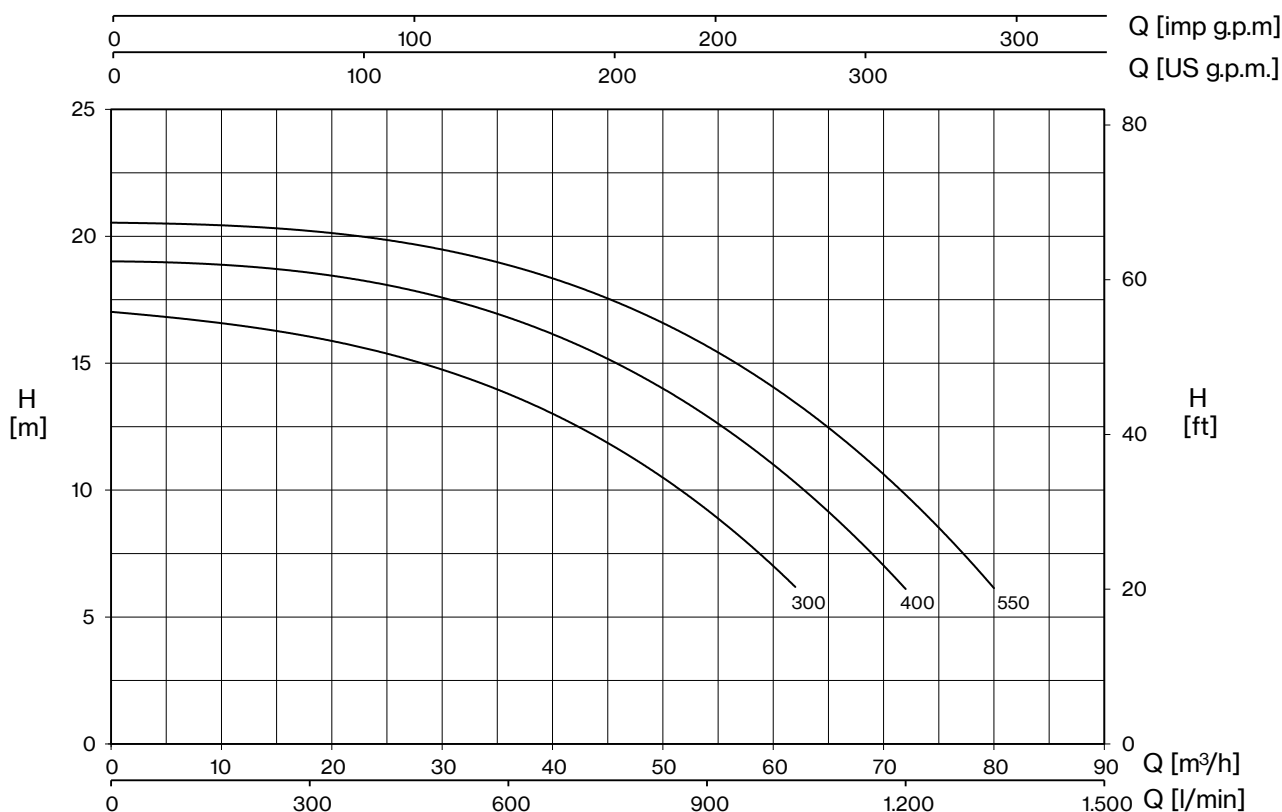
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®, marine bronze on request
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C

Motor

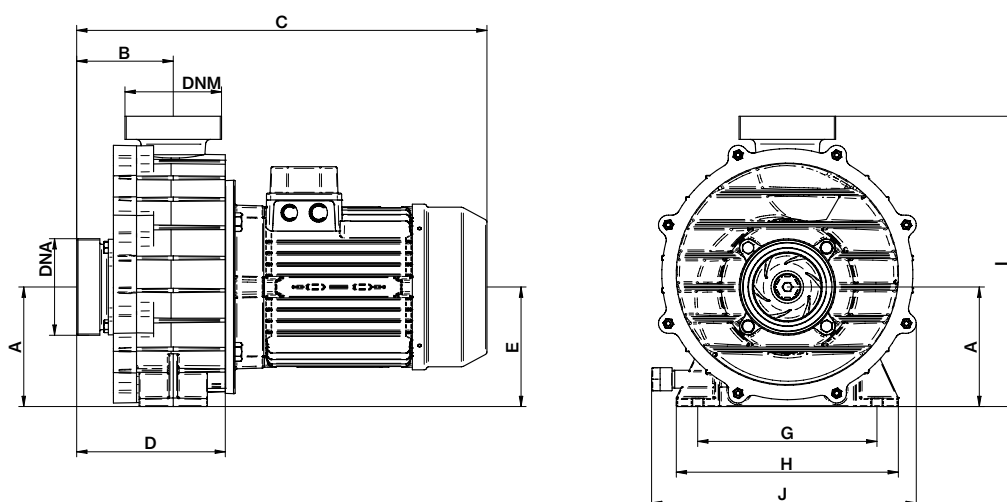
2 poles induction motor	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



POOL5



TYPE	P2		AMPERE		rpm	H (m)								DNA	DNM
3~			3~	3~		6	8	10	12	14	16	18	20		
	HP	KW	230 V	400V		Q (m³/h)									
POOL5 300	3	2,2	9,4	5,3	2900	62	58	52	44	34	20			PVC90	
POOL5 400	4	3	12,5	6,9	2900	72	68	63	57	50	40	27			
POOL5 550	5,5	4	-	8,8	2900	80	76	72	67	60	52	41	26		



TYPE	DIMENSIONS (mm)										
	A	B	C	D	E	G	H	I	J	DNA	DNM
POOL5 300	140	113	480	174	140	210	260	340	310	PVC 90	PVC 90
POOL5 400	140	113	480	174	140	210	260	340	310		
POOL5 550	140	113	480	174	140	210	260	340	310		





Pump ideal for countercurrent swimming installation and can be used in water parks, fountains, waterfalls, etc. The pump body in polypropylene reinforced with glass fiber allows it to resist the chemicals of the pools and guarantee excellent durability.



Bronze impeller (on request)

Construction features

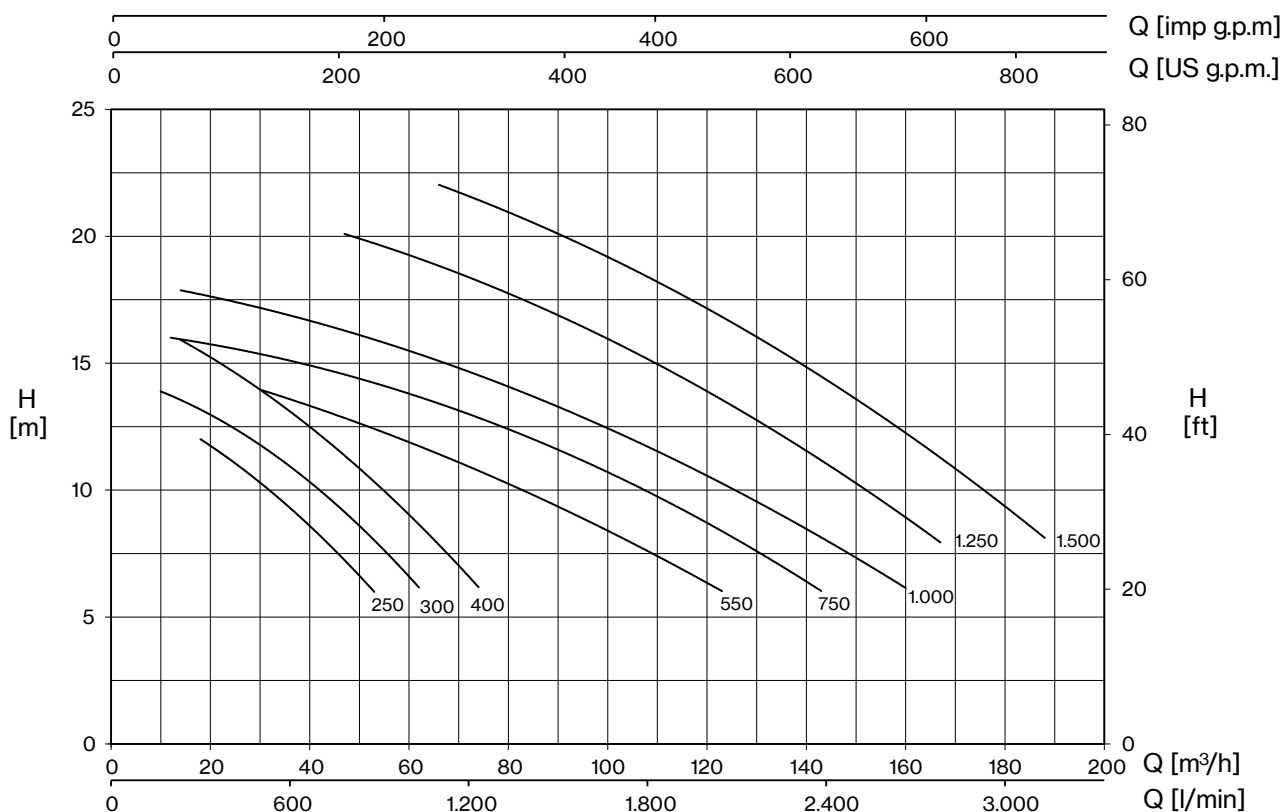
Painting	cataphoresis
Pump body, seal housing, diffuser	polypropylene + fiber glass
Motor bracket	aluminum
Impeller	Noryl®, marine bronze on request
Mechanical seal	ceramic-graphite-AISI 316
Motor shaft	stainless steel AISI 316
Liquid temperature	max 40 °C

Motor

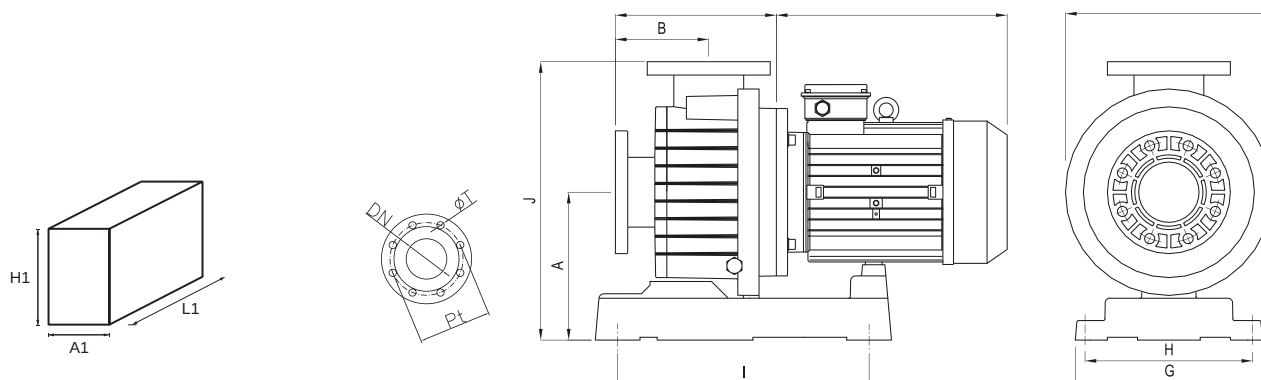
4 poles induction motor up to 10 HP	3~ 220/380V-60Hz
Insulation class	F
Protection degree	IP55



POOL6



TYPE	P2		AMPERE		rpm	H (m)										DNA	DNM	Minimum size of suction pipe
3~			3~	3~		6	8	10	12	14	16	18	20	22				
	HP	kW	230 V	400V		Q (m3/h)												
POOL6 4-250	2,5	1,8	8,5	4,9	1450	53	43	32	18						110	110		
POOL6 4-300	3	2,2	9,4	5,3	1450	62	54	43	26	10						125		
POOL6 4-400	4	3	12,5	6,9	1450	74	66	56	42	29	14					140		
POOL6 4-550	5,5	4	15,3	8,8	1450	123	104	84	57	30						160		
POOL6 4-750	7,5	5,5	-	12	1450	143	127	107	85	57	12					180		
POOL6 4-1000	10	7,5	-	15,8	1450	160	145	126	107	80	48	14				180		
POOL6 2-1250	12,5	9,2	-	18,5	2850		167	152	136	118	99	80	47			180		
POOL6 2-1500	15	11	-	20,9	2850		188	177	162	146	130	112	92	66		200		



TYPE	DIMENSIONS (mm)																	Kg
	A	B	C	D	E	F	G	H	I	J	K	DN	ØT	Pt	A1	H1	L1	
POOL6 4-250	265	165	255	310	335	300	450	495	370	385	370	110	16	180	385	595	840	37
POOL6 4-300	265	165	255	310	335	300	450	495	370	385	370				385	595	840	37,5
POOL6 4-400	265	165	255	310	335	300	450	495	370	385	370				385	595	840	39,5
POOL6 4-550	265	165	255	330	335	300	450	495	370	385	370				385	595	840	48,5
POOL6 4-750	265	165	255	380	335	300	450	495	370	385	370				385	595	840	61
POOL6 4-1000	265	165	255	380	335	300	450	495	370	385	370				385	595	840	71
POOL6 2-1250	265	165	255	380	335	300	450	495	370	385	370				385	595	840	79,5
POOL6 2-1500	265	165	255	380	335	300	450	495	370	385	370				595	715	840	80,5



DOMESTIC FILTER

Swimming Pool



Laminated polyester filters with manual side mounted valve, indicated for private and commercial pools, including multiport 6 way valve (filtration, backwash, rinse, recycle, drain and closed), manometer and airbbled system.



Transparent screw cover
(on request)

MODEL	Ø mm	Connection	Filtering surface m ²	Flow V=50 m ³ /h	Sand Kg	Weight Kg
PFIL 400	400	1,5"	0,13	6,5	50	12
PFIL 510	510	1,5"	0,20	10,2	100	18
PFIL 620	620	1,5"	0,30	15,1	150	23,5
PFIL 680	680	2"	0,36	18,14	175	27
PFIL 750	750	2"	0,44	22	225	33
PFIL 900	900	2"	0,64	31,8	325	42

FILTRATION KIT

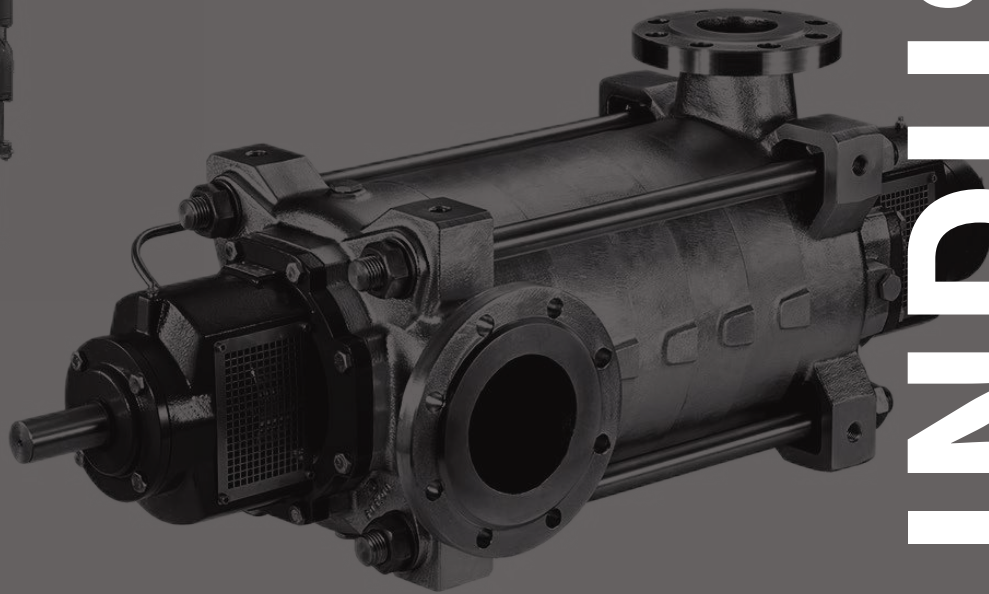
Swimming Pool



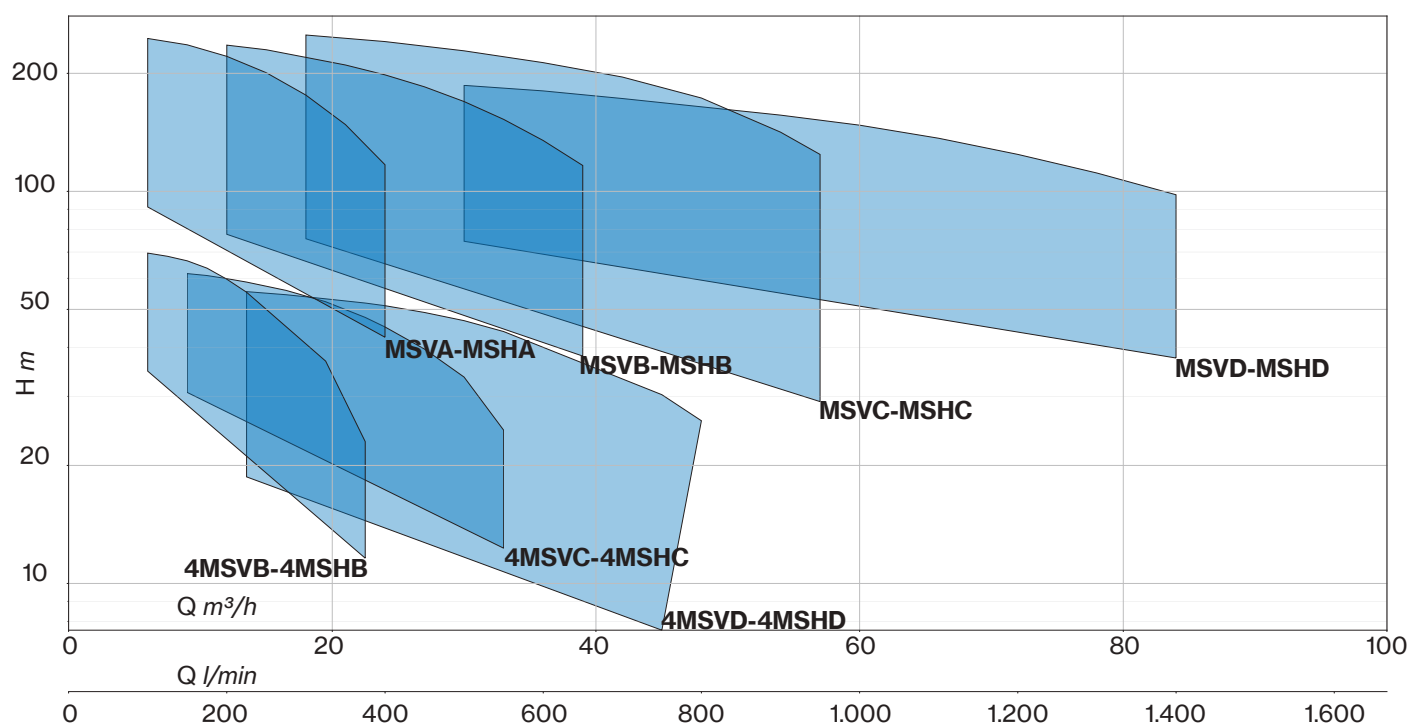
Filtration kit including a laminated filter with 6 way valve + swimming pool pump POOL1, ideal for private pool, all mounted on a common base.

MODEL	Ø mm	Connection	Filtering surface m ²	Flow V=50 m ³ /h	Pump HP	Sand Kg	Weight Kg
PFIL EASY KIT 25	400	1,5"	0,13	6,5	0,25	50	19
PFIL EASY KIT 33	400	1,5"	0,13	7,5	0,33	50	19
PFIL EASY KIT 50	510	1,5"	0,20	8,5	0,50	100	26
PFIL EASY KIT 75	510	1,5"	0,20	10,2	0,75	100	26
PFIL EASY KIT 100	620	1,5"	0,30	15,1	0,95	150	29





INDUSTRIAL LINE



MSV - 4MSV

Industrial Line



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

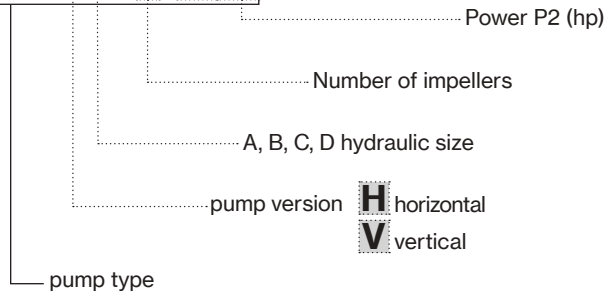
Pump body	cast iron
Motor bracket	cast iron
Impeller	brass
Mechanical seal	ceramic-graphite-NBR
Motor shaft	stainless steel AISI 304
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 30 bar

Motor

2 and 4 poles induction motor	3~ 220/380V - 60Hz IE3 efficiency class or standard
Insulation class	F
Protection degree	IPX5

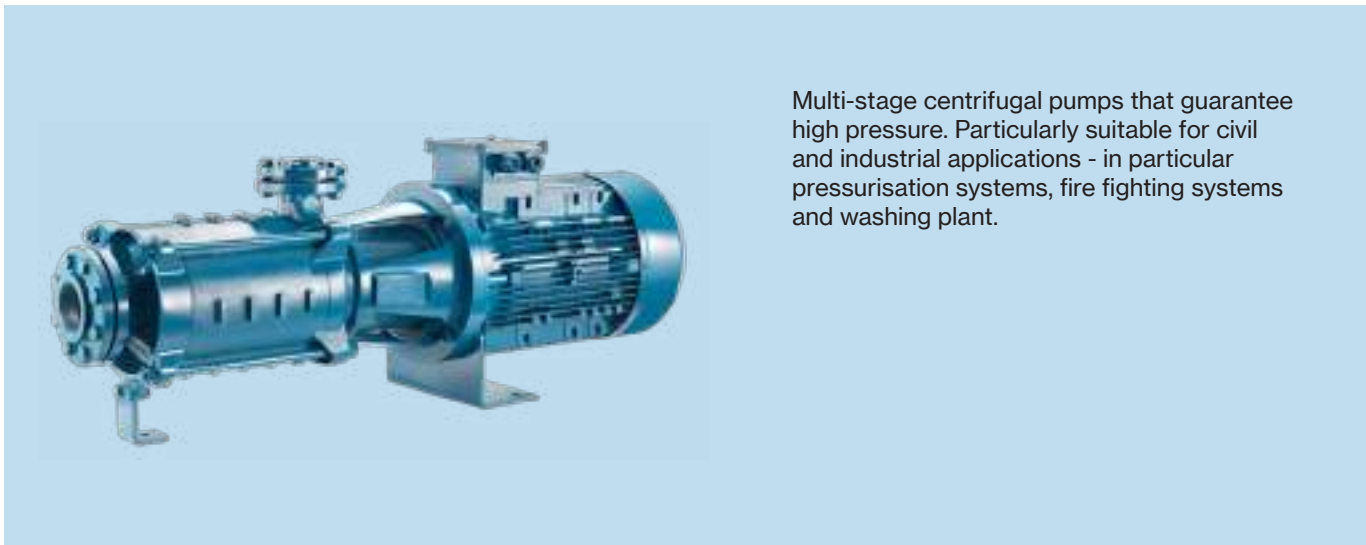


MSVC -3/18,5



MSH - 4MSH

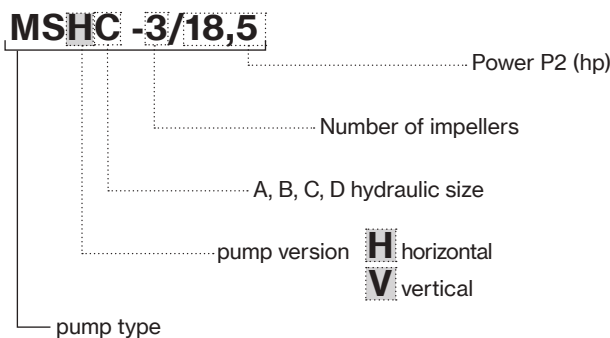
Industrial Line



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~ 220/380V - 60Hz IE3 efficiency class or standard
Insulation class	F
Protection degree	IPX5



TYPE		P2		P1 kW	I(A) 3x380V	Q (m³/h - l/min - l/s)							
						0	6	9	12	15	18	21	24
		100	150				200	250	300	350	400		
		1,67	2,5				3,33	4,17	5	5,83	6,67		
		H (m)											
MSVA MSHA	-3/5,5	7,5	5,5	6,3	11,0	94,2	91,3	87,1	81,5	73,8	64,5	54,1	42,5
	-4/7,5	10	7,5	8,3	14,3	127,1	122,9	117,3	109,6	99,4	87,1	72,6	56,4
	-5/9,2	12,5	9,2	10,3	17,7	158,6	153,7	146,9	137,3	124,2	108,2	90,1	69,7
	-6/11	15	11	12,3	20,9	190,1	184,2	177,1	165,6	150,1	131,4	110,0	86,0
	-8/15	20	15	16,3	27,6	253,6	245,4	236,5	221,0	200,7	176,0	148,0	116,9

TYPE		P2		P1 kW	I(A) 3x380V	Q (m³/h - l/min - l/s)										
						0	12	15	18	21	24	27	30	33	36	39
		200	250				300	350	400	450	500	550	600	650		
		3,33	4,17				5	5,83	6,67	7,5	8,33	9,17	10	10,83		
		H (m)														
MSVB MSHB	-2/7,5	10	7,5	8,5	14,7	79,1	77,7	75,7	72,5	69,3	65,1	60,7	55,4	50,0	44,2	38,0
	-3R/9,2	12,5	9,2	10,5	18,0	107,5	102,9	99,4	95,1	90,2	84,6	78,1	70,7	62,2	52,9	43,0
	-3/11	15	11	12,2	20,8	119,9	116,4	113,6	109,2	104,1	98,3	91,9	84,2	76,0	67,2	58,1
	-4/15	20	15	16,3	27,6	161,0	156,1	151,7	146,5	139,4	131,6	123,3	112,9	101,9	90,2	77,6
	-5/18,5	25	18,5	20,3	34,8	201,3	194,7	189,6	181,6	173,5	164,0	153,2	140,5	126,4	111,2	95,3
	-6/22	30	22	24,2	41,7	242,5	236,0	229,7	218,9	210,0	198,2	184,7	169,4	152,6	134,8	116,4

TYPE		P2		P1 kW	I(A) 3x380V	Q (m³/h - l/min - l/s)								
						0	18	24	30	36	42	48	54	57
		300	400				500	600	700	800	900	950		
		5	6,67				8,33	10	11,67	13,33	15	15,83		
H (m)														
MSVC MSHC	-2R1/11	15	11	12,6	21,5	78,1	75,7	72,2	67,3	62,2	56,3	47,7	36,1	29,1
	-3R/15	20	15	16,7	28,3	112,0	107,4	102,1	95,3	87,8	78,7	65,3	48,0	38,7
	-3/18,5	25	18,5	20,5	35,0	127,6	125,7	121,1	114,6	106,7	98,1	87,1	70,9	61,5
	-4R1/22	30	22	24,1	41,4	158,3	151,9	145,6	136,2	126,0	114,4	98,4	75,9	63,3
	-5/30	40	30	34,1	58,2	213,1	208,8	201,3	190,7	177,9	163,7	144,7	118,5	104,4
	-6/37	50	37	41,0	70,7	257,7	250,5	241,0	228,3	213,0	195,7	173,0	141,6	124,2

TYPE		P2		P1 kW	I(A) 3x380V	Q (m³/h - l/min - l/s)										
						0	30	36	42	48	54	60	66	72	78	84
		500	600				700	800	900	1000	1100	1200	1300	1400		
		8,33	10				11,67	13,33	15	16,67	18,33	20	21,67	23,33		
		H (m)														
MSVD MSHD	-2/15	20	15	16,6	28,1	75,3	74,6	71,5	68,3	65,1	61,6	57,7	53,4	48,4	43,1	37,6
	-3R/18,5	25	18,5	20,0	34,3	99,9	96,7	92,2	87,6	82,9	77,5	71,3	64,3	57,0	48,8	39,3
	-3/22	30	22	24,3	41,8	112,6	111,6	107,7	102,9	98,8	94,1	88,5	82,1	75,0	67,2	58,8
	-4/30	40	30	32,6	55,8	150,5	148,7	143,2	137,0	131,5	125,1	117,8	109,1	99,7	90,0	79,3
	-5/37	50	37	40,0	69,3	189,2	186,4	180,4	172,5	164,4	156,5	147,5	136,6	124,2	111,4	98,0

4MSV-4MSH ~ 1750 r.p.m.

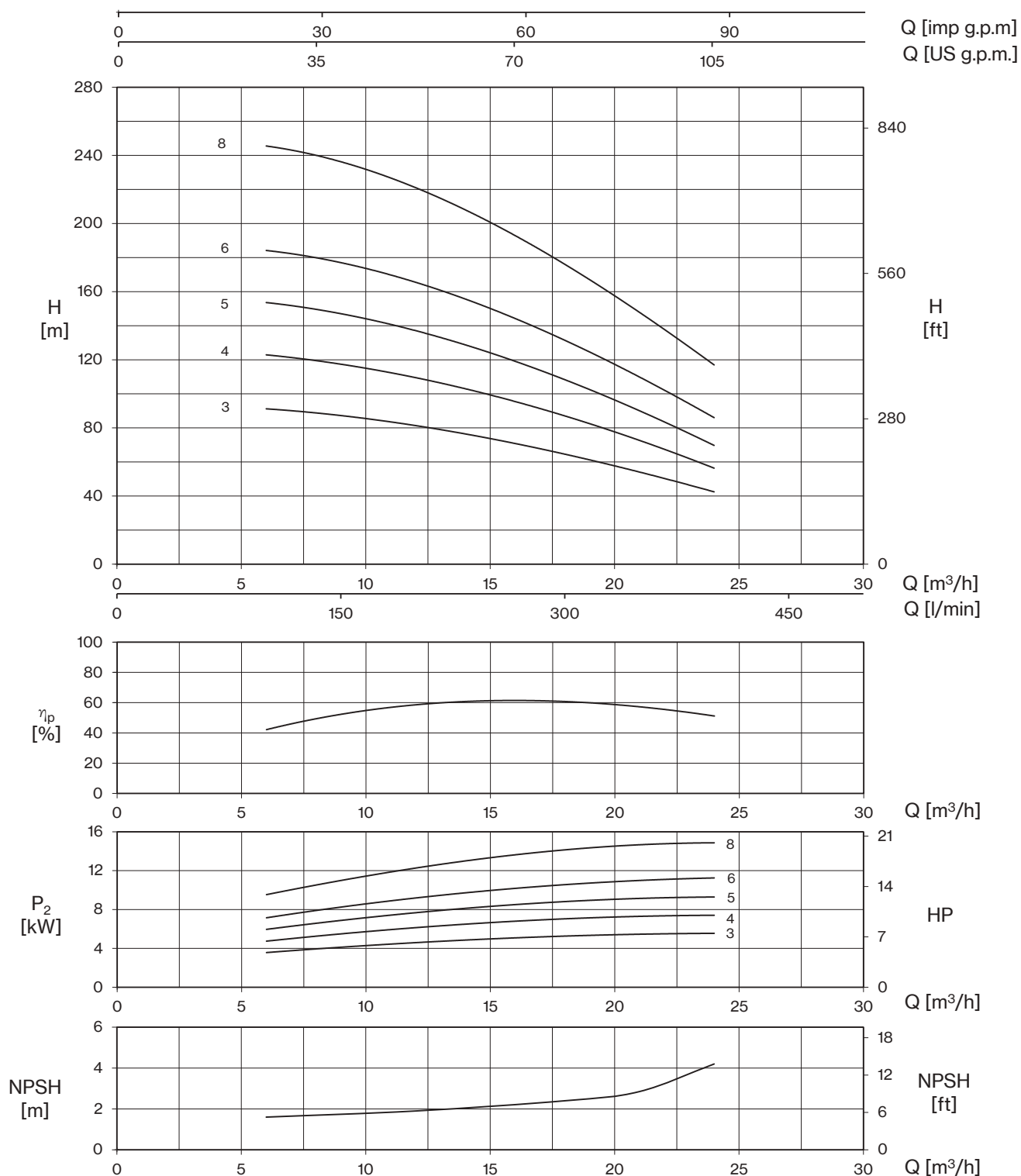
TYPE		P2		Q (m³/h - l/min - l/s)								
				0	3	4,5	6	7,5	9	10,5	12	13,5
		50	75		100	125	150	175	200	225		
		0,83	1,25		1,67	2,08	2,50	2,92	3,33	3,75		
		HP		kW	H (m)							
4MSVA 4MSHA	-8/2,2	3	2,2	56,0	55,7	54,2	51,3	46,3	40,2	33,4	25,7	16,2

TYPE		P2		Q (m³/h - l/min - l/s)									
				0	6	7,5	9	10,5	12	13,5	16,5	19,5	22,5
					100	125	150	175	200	225	275	325	375
		HP	kW	1,67	2,08	2,50	2,92	3,33	3,75	4,58	5,42	6,25	
				H (m)									
4MSVB 4MSHB	-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
	-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
	-6/3	4	3	53,2	52,2	51,3	49,9	47,8	44,7	41,5	34,4	27,7	17,2
	-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

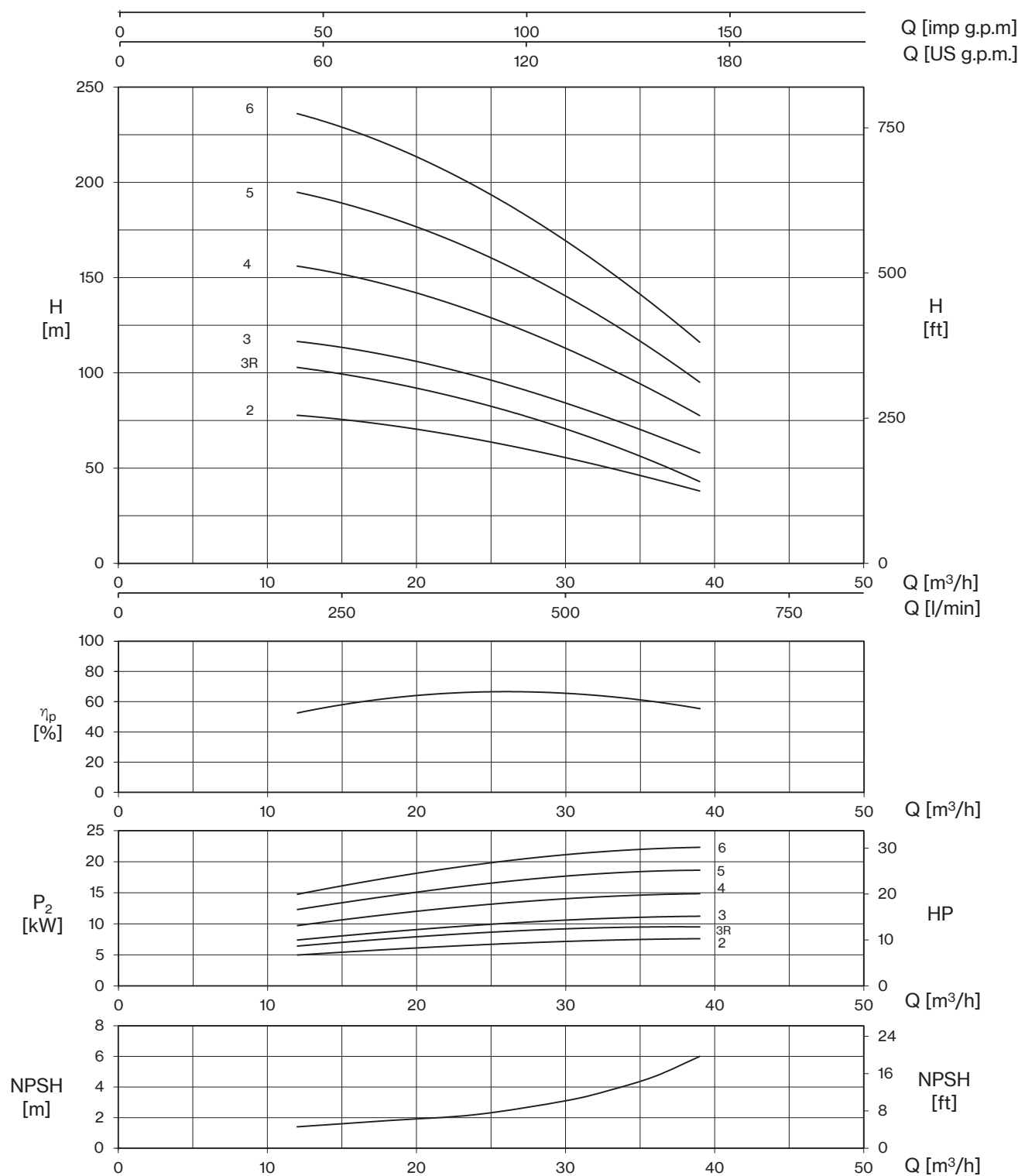
TYPE		P2		Q (m³/h - l/min - l/s)									
				0	9	10,5	13,5	16,5	19,5	22,5	24	30	33
					150	175	225	275	325	375	400	500	550
		2,50	2,92		3,75	4,58	5,42	6,25	6,67	8,33	9,17		
				HP	kW	H (m)							
4MSVC 4MSHC	-3/2,2	3	2,2	30,2	30,7	30,5	29,4	27,9	26,2	24,0	22,8	16,7	12,3
	-4/3	4	3	40,1	41,0	40,6	39,1	37,3	35,0	32,0	30,3	23,1	16,4
	-5/4	5,5	4	50,1	51,3	50,8	48,8	46,6	43,8	40,0	37,8	27,8	21,0
	-6/5.5	7,5	5.5	60.3	61.7	61.0	58.7	55.9	52.3	47.7	45.1	33.6	24.6

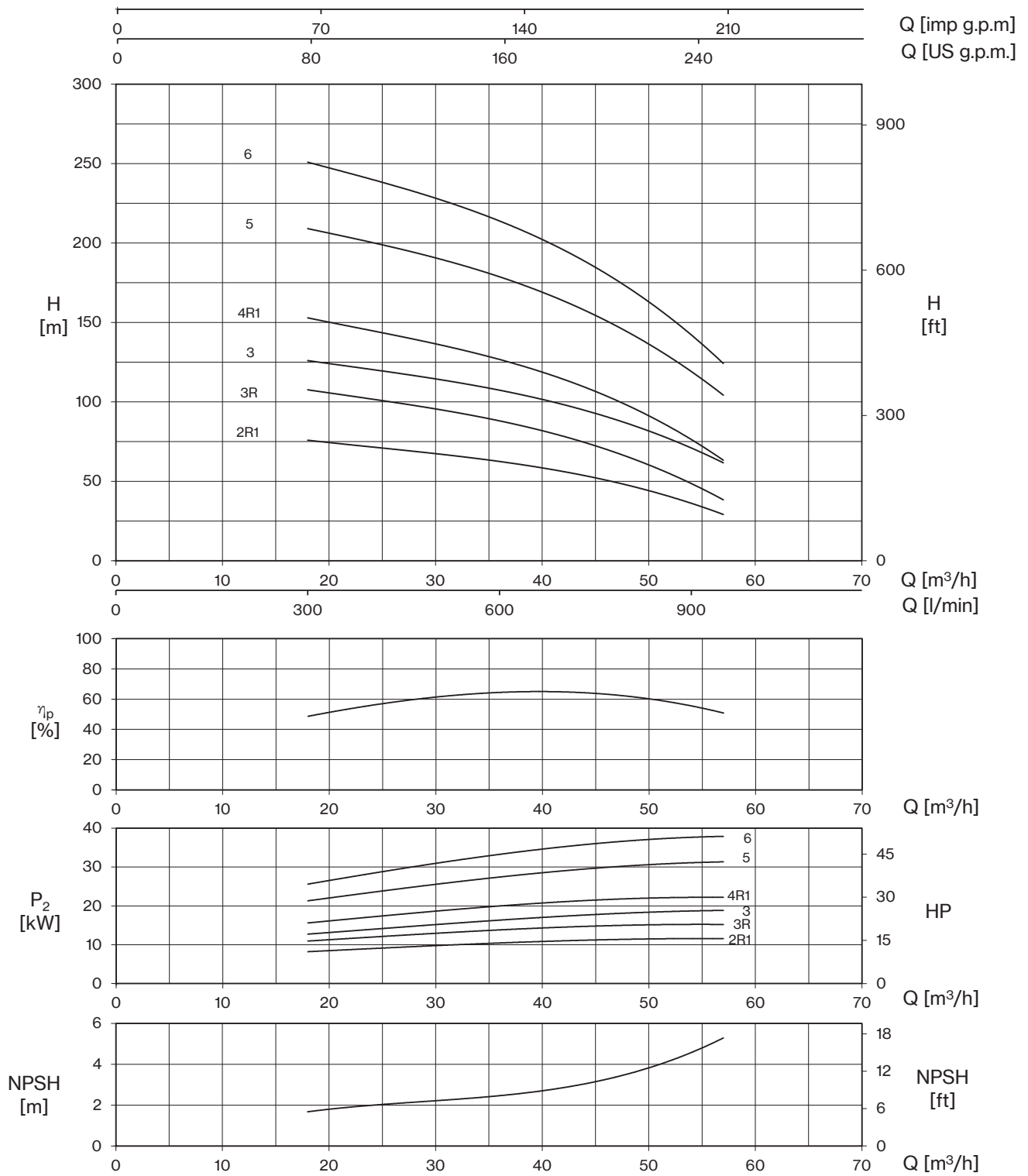
TYPE		P2		Q (m³/h - l/min - l/s)									
				0	13,5	19,5	24	27	30	33	39	45	48
		225	325		400	450	500	550	650	750	800		
		3,75	5,42		6,67	7,50	8,33	9,17	10,83	12,50	13,33		
		H (m)											
4MSVD 4MSHD	-2/2,2	3	2,2	18,3	18,7	18,0	17,2	16,5	15,7	14,7	12,3	7,6	-
	-3/3	4	3	27,1	27,7	26,7	25,6	24,6	23,5	22,0	18,4	14,2	-
	-4/4	5,5	4	36,2	36,8	35,2	33,6	32,3	30,6	28,7	24,2	19,2	-
	-5/5,5	7,5	5,5	45,2	46,3	44,4	42,6	41,0	39,0	36,6	30,9	25,3	22,0
	-6/7,5	10	7,5	54,2	55,5	53,2	51,1	49,1	46,8	43,9	37,0	30,3	26,0



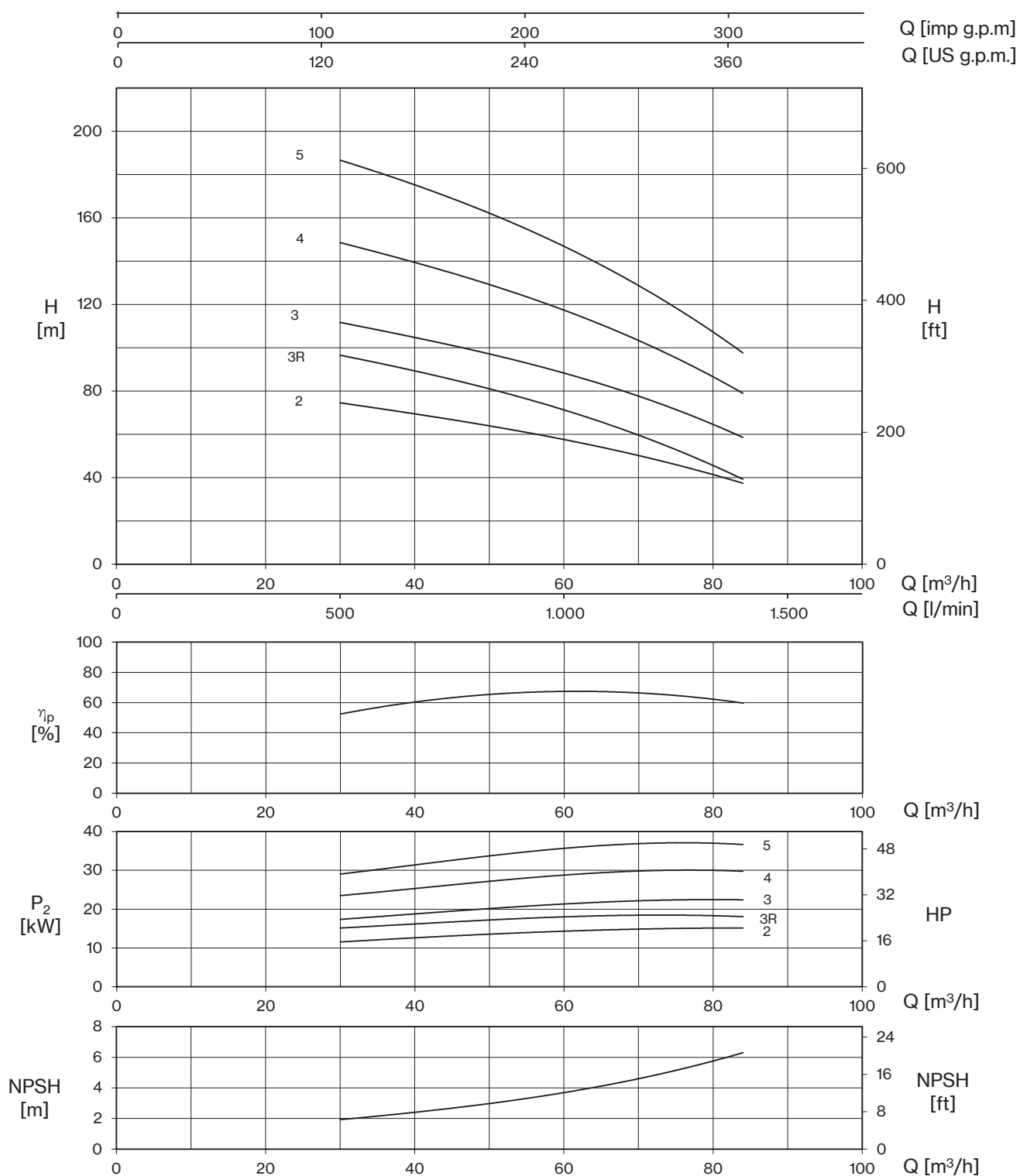


MSV-MSH B ~ 3500 r.p.m.

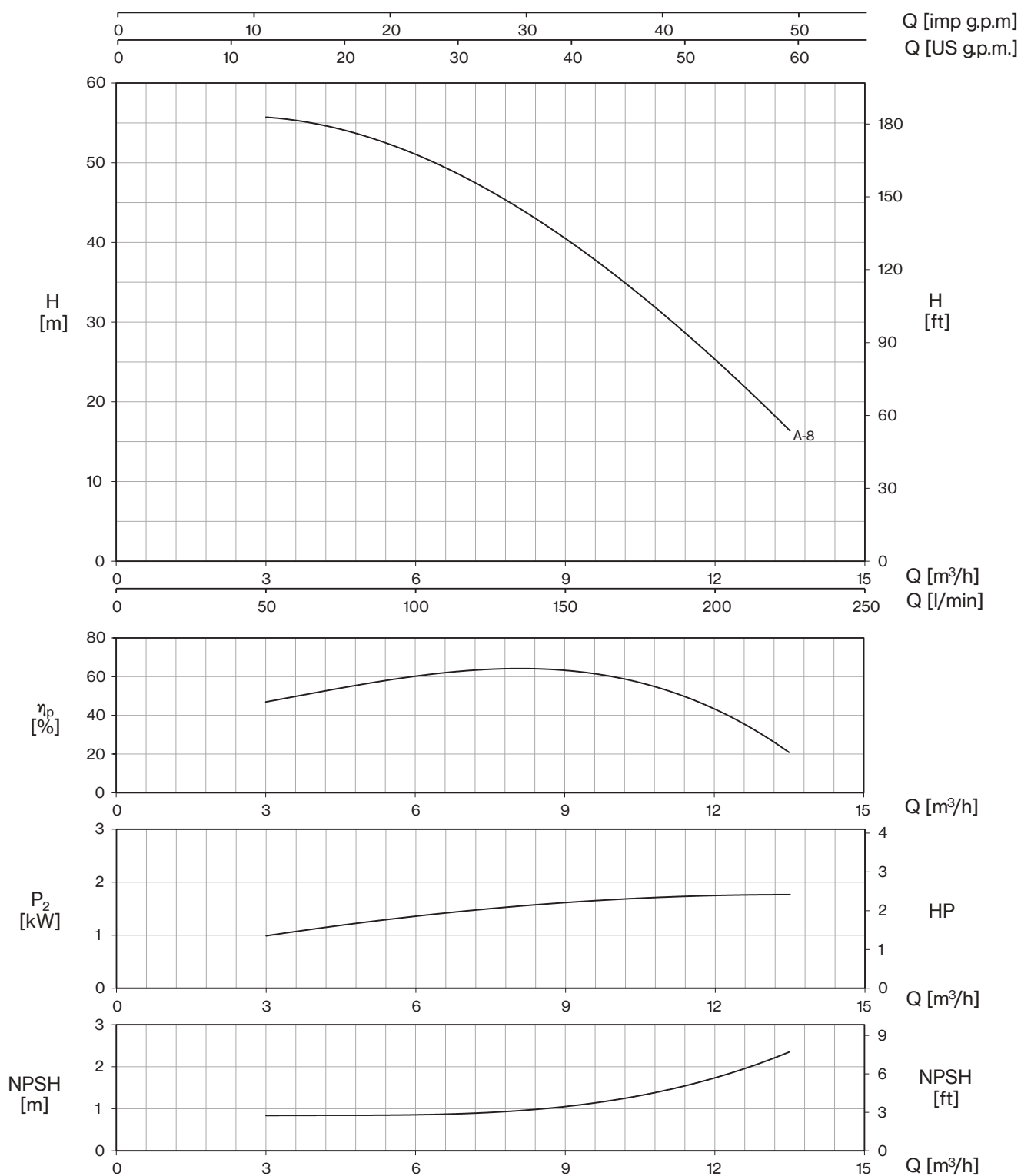




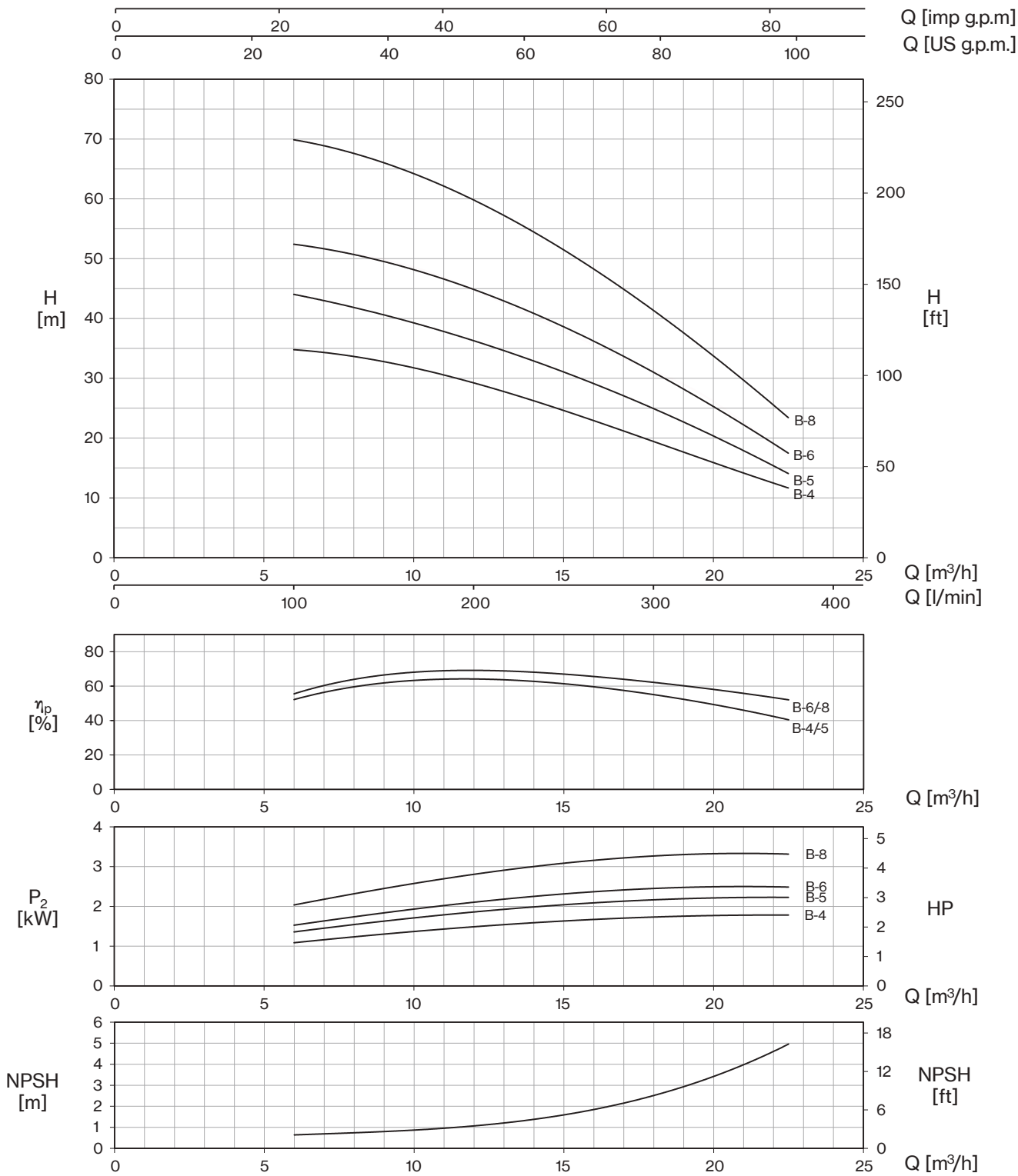
MSV-MSH D ~ 3500 r.p.m.



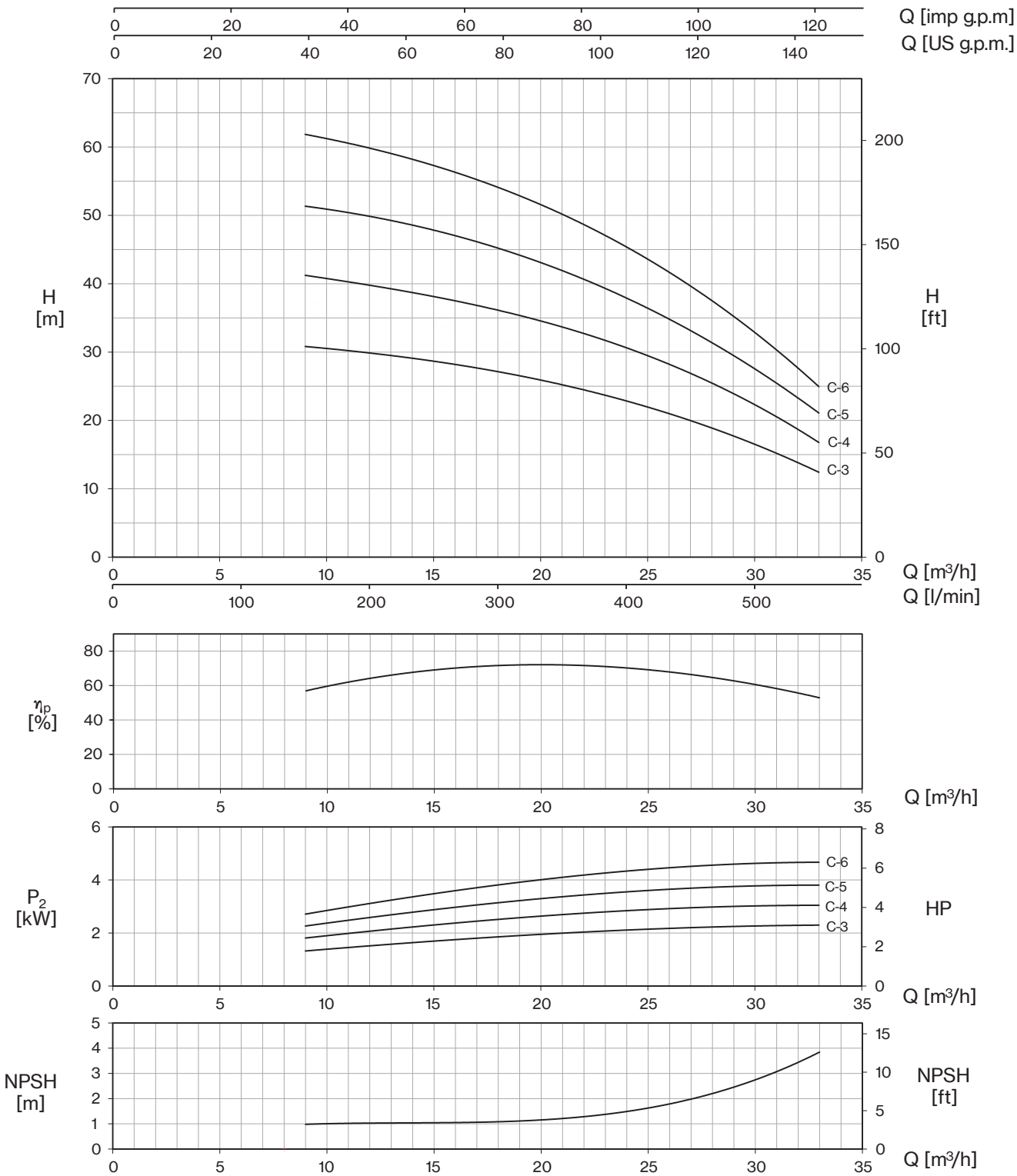
4MSV-4MSH A ~ 1750 r.p.m.



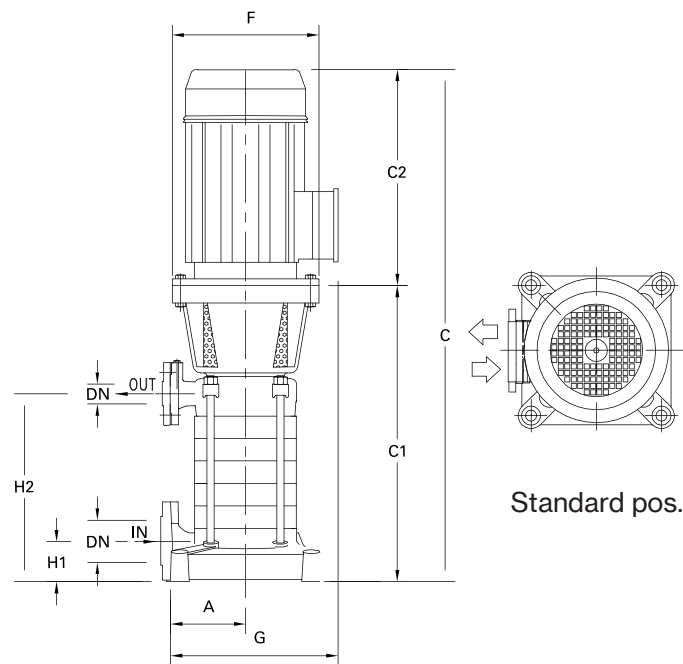
4MSV-4MSH B ~ 1750 r.p.m.



4MSV-4MSH C ~ 1750 r.p.m.

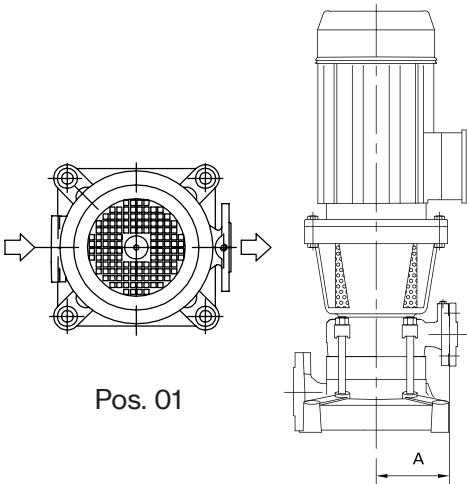


MSV ~ 3500 r.p.m. - 4MSV~ 1750 r.p.m.



STANDARD

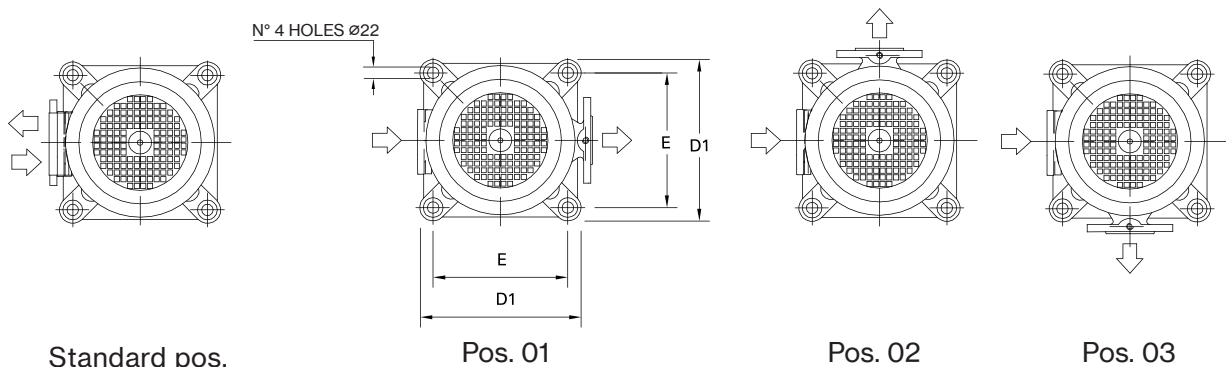
Not available for pump type: MSVB 2/7.5,
MSVC-2R1/11, MSVD-2/15, 4MSVD-2/2.2



STANDARD FOR:

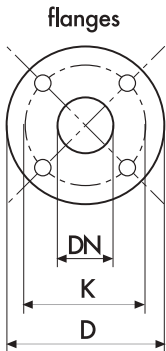
MSVB-2/7.5
MSVC-2R1/11
MSVD-2/15
4MSVD-2/2.2

Direction of nozzles



Standard pos.

Not available for pump type: MSVB 2/7.5,
MSVC-2R1/11, MSVD-2/15, 4MSVD-2/2.2



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



MSV ~ 3500 r.p.m.

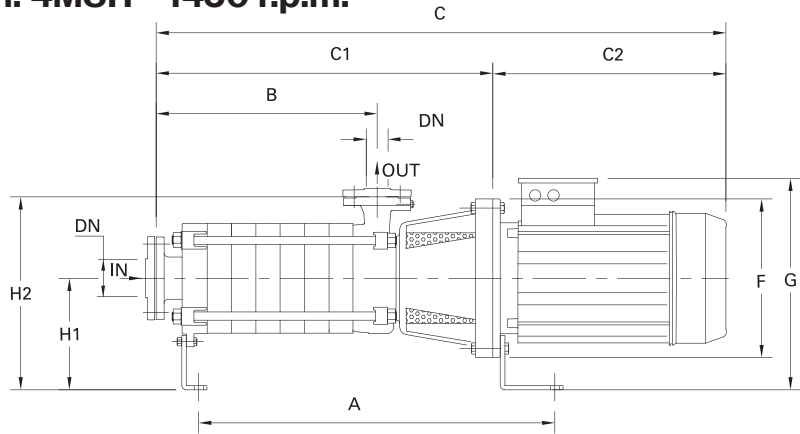
TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L		M
MSVA -3/5.5	(UNI PN 16) 50 (UNI PN 40) 40	(UNI PN 40) 40	3	175	921,5	544,5	377	306	256	300	355	82	255,5	1100	400	500	139,5
MSVA -4/7.5			4		972,5	595,5	377			300	355		306,5	1100	400	500	155,5
MSVA -5/9.2			5		1062,5	646,5	416			300	355		357,5	1100	400	500	173
MSVA -6/11			6		1113,5	697,5	416			300	355		408,5	1100	400	500	191
MSVA -8/15			8		1297,5	799,5	498			350	410		510,5	1400	500	500	255,5
MSVB -2/7.5	(UNI PN 16) 50 (UNI PN 40) 40	(UNI PN 40) 40	2	175	870,5	493,5	377	306	256	300	355	82	204,5	1100	400	500	136,5
MSVB -3R/9.2			3		931	515	416			300	335		255,5	1100	400	500	154
MSVB -3/11			3		931	515	416			300	355		255,5	1100	400	500	157
MSVB -4/15			4		1013	515	498			350	410		306,5	1400	500	500	217,5
MSVB -5/18.5			5		1056	515	541			350	410		357,5	1400	500	500	243
MSVB -6/22			6		1056	515	541			350	410		408,5	1400	500	500	264
MSVC -2R1/11	(UNI PN 16) 65 (UNI PN 40) 50	(UNI PN 40) 50	2	200	944	528	416	332	282	300	380	95	233	1100	400	500	166,5
MSVC -3R/15			3		1086	588	498			350	435		293	1100	400	500	231
MSVC -3/18.5			3		1129	588	541			350	435		293	1400	500	500	247
MSVC -4R1/22			4		1189	648	541			350	435		353	1400	500	500	273
MSVC -5/30			5		1276	708	568			350	450		413	1400	500	500	318,5
MSVC -6/37			6		1376	768	608			350	450		473	1400	500	500	356
MSVD -2/15	(UNI PN 16) 65 (UNI PN 40) 50	(UNI PN 40) 50	2	200	1026	528	498	332	282	350	435	95	233	1400	400	500	216
MSVD -3R/18.5			3		1129	588	541			350	435		293	1400	500	500	245
MSVD -3/22			3		1129	588	541			350	435		293	1400	500	500	257
MSVD -4/30			4		1216	648	568			350	450		353	1400	500	500	303
MSVD -5/37			5		1316	708	608			350	450		413	1400	500	500	339

4MSV ~ 1750 r.p.m.

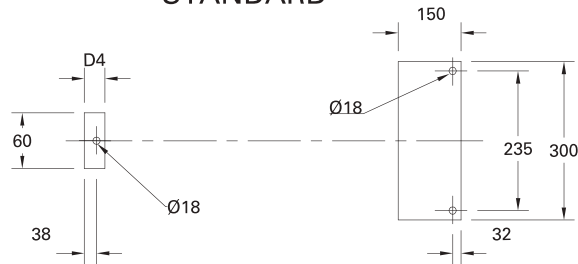
TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L		M
4MSVA -8/2,2	(UNI PN 16) 50	(UNI PN 40) 40	8	175	1078	762,5	315	306	256	250	345	82	510,5	1100	400	500	183
4MSVB -4/2,2	(UNI PN 16) 50 (UNI PN 40) 40	(UNI PN 40) 40	4	175	874	558,5	315	306	256	250	345	82	306,5	1100	400	500	136
4MSVB -5/2,2			5		925	609,5	315			250	345		357,5	1400	500	500	140
4MSVB -6/3			6		976	660,5	315			250	345		408,5	1400	500	500	171
4MSVB -8/4			8		1103	762,5	340			250	368		511	1400	500	500	200
4MSVC -3/2,2	(UNI PN 16) 65 (UNI PN 40) 50	(UNI PN 40) 50	3	200	866	551	315	332	282	250	370	95	293	1100	400	500	192
4MSVC -4/3			4		926	611	315			250	370		353	1100	400	500	194
4MSVC -5/4			5		1011	671	340			250	393		413	1100	400	500	202
4MSVC -6/5,5			6		1116	731	385			300	423		473	1400	500	500	206
4MSVD -2/2,2	(UNI PN 16) 65 (UNI PN 40) 50	(UNI PN 40) 50	2	200	806	491	315	332	282	250	370	95	233	1100	400	500	135
4MSVD -3/3			3		866	551	315			250	370		293	1100	400	500	167
4MSVD -4/4			4		951	611	340			250	393		353	1100	400	500	189
4MSVD -5/5,5			5		1056	671	385			300	423		413	1100	400	500	194
4MSVD -6/7,5			6		1156	731	425			300	423		473	1400	500	500	218



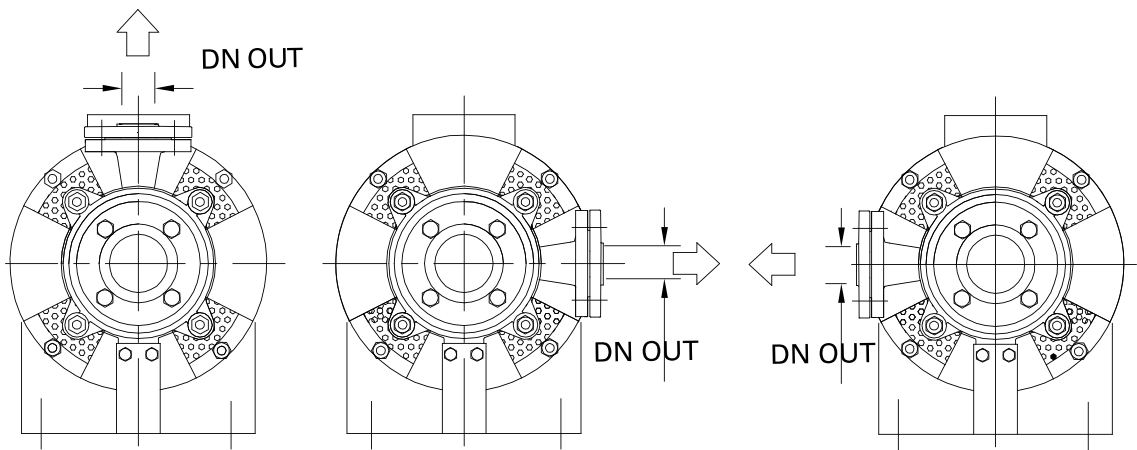
MSH ~ 3500 r.p.m. 4MSH ~ 1450 r.p.m.



STANDARD



Direction of nozzles

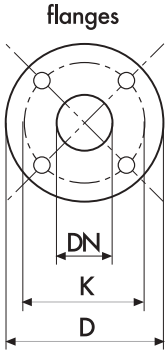


STANDARD

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



MSH ~ 3500 r.p.m.

TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L		M
MSHA -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
MSHA -4/7.5			4	655	307,5	973,5	596,5	377	300	425				1100	400	500	156,5
MSHA -5/9.2			5	706	358,5	1063,5	647,5	416	300	425				1100	400	500	174
MSHA -6/11			6	757	409,5	1114,5	698,5	416	300	425				1100	400	500	191,5
MSHA -8/15			8	859	511,5	1298,5	800,5	498	350	480				1400	500	500	256
MSHB -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
MSHB -3R/9.2			3	604	256,5	961,5	545,5	416	300	425				1100	400	500	154,5
MSHB -3/11			3	604	256,5	961,5	545,5	416	300	425				1100	400	500	157,5
MSHB -4/15			4	655	307,5	1094,5	596,5	498	350	480				1400	500	500	217,5
MSHB -5/18.5			5	706	358,5	1188,5	647,5	541	350	480				1400	500	500	243
MSHB -6/22			6	757	409,5	1239,5	698,5	541	350	480				1400	500	500	264
MSHC -2R1/11	(UNI PN 16) 80	(UNI PN 40) 50	2	596	243	954	538	416	300	425	245	445	60	1100	400	500	164,5
MSHC -3R/15			3	656	303	1096	598	498	350	480				1100	400	500	228,5
MSHC -3/18.5			3	656	303	1139	598	541	350	480				1400	500	500	244,5
MSHC -4R1/22			4	716	363	1199	658	541	350	480				1400	500	500	270,5
MSHC -5/30			5	776	423	1286	718	568	350	495				1400	500	500	316
MSHC -6/37			6	836	483	1386	778	608	350	495				1400	500	500	353,5
MSHD -2/15	(UNI PN 10) 80	(UNI PN 40) 50	2	596	243	1036	538	498	350	480	245	445	60	1400	400	500	214
MSHD -3R/18.5			3	656	303	1139	598	541	350	480				1400	500	500	243
MSHD -3/22			3	656	303	1139	598	541	350	480				1400	500	500	255
MSHD -4/30			4	716	363	1226	658	568	350	495				1400	500	500	310,5
MSHD -5/37			5	776	423	1326	718	608	350	495				1400	500	500	337

4MSH ~ 1750 r.p.m.

TYPE	DN IN	DN OUT	N. STAGE	DIMENSIONS (mm)													
				A	B	C	C1	C2	F	G	H1	H2	D4	I	L	M	
4MSHA -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
4MSHB -4/2,2	(UNI PN 16) 65	(UNI PN 40) 40	4	618	511,5	875	559,5	315	250	415	245	420	70	1100	400	500	136
4MSHB -5/2,2			5	670	307,5	926	610,5	315	250	415				1400	500	500	140
4MSHB -6/3			6	720	358,5	977	661,5	315	250	415				1400	500	500	171
4MSHB -8/4			8	720	409,5	1104	763,5	340	250	438				1400	500	500	200
4MSHC -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
4MSHC -4/3			4	680	363	936	621	315	250	415				1100	400	500	194
4MSHC -5/4			5	740	423	1021	681	340	250	438				1100	400	500	202
4MSHC -6/5,5			6	800	483	1126	741	385	300	468				1400	500	500	206
4MSHD -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
4MSHD -3/3			3	620	303	876	561	315	250	415				1100	400	500	167
4MSHD -4/4			4	680	363	961	621	340	250	438				1100	400	500	189
4MSHD -5/5,5			5	740	423	1066	681	385	300	468				1100	400	500	194
4MSHD -6/7,5			6	887	483	1166	741	425	300	468				1400	500	500	218



MSV-4MSV Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL
	MSVA-3/5,5-132S MSVB-2/7,5-132S 4MSVA-8/2,2 4MSVB-4/2,2 4MSVB-5/2,2 4MSVB-6/3 4MSVB-8/4	25mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Widia Widia NBR
	MSVC-2R1/11-132M MSVD-2/15-160M 4MSVC-3/2,2 4MSVC-4/3 4MSVC-5/4 4MSVC-6/5,5-132S 4MSVD-2/2,2 4MSVD-3/3 4MSVD-4/4 4MSVD-5/5,5-132S 4MSVD-6/7,5-132St	35mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Widia Widia NBR
	MSVA-4/7,5-132S MSVA-5/9,2-132M MSVA-6/11-132M MSVA-8/15-160M MSVB-3R/9,2-132M MSVB-3/11-132M MSVB-4/15-160M MSVB-5/18,5-160L MSVB-6/22-160L	25mm / Balanced seal	Rotating face Stationary face Elastomer	Widia Graphite NBR	Widia Widia NBR
	MSVC-3R/15-160M MSVC-3/18,5-160L MSVC-4R1/22-160L MSVC-5/30-180M MSVC-6/37-180L MSVD-3R/18,5-160L MSVD-3/22-160L MSVD-4/30-180M MSVD-5/37-180L	35mm / Balanced seal	Rotating face Stationary face Elastomer	Widia Graphite NBR	Widia Widia NBR

BEARINGS	PUMP MODEL	TYPE	
	4MSVA-8/2,2 4MSVB-4/2,2 4MSVB-5/2,2 4MSVC-3/2,2 4MSVD-2/2,2	6205-ZZ C3	6205-ZZ C3
	4MSVB-6/3 4MSVB-8/4 4MSVC-4/3 4MSVC-5/4 4MSVD-3/3 4MSVD-4/4	6206-ZZ C3	6206-ZZ C3
	MSVA-3/5,5-132S MSVA-4/7,5-132S MSVA-5/9,2-132M MSVA-6/11-132M MSVB-2/7,5-132S MSVB-3R/9,2-132M MSVB-3/11-132M MSVC-2R1/11-132M	6206-ZZ C3	6308-ZZ C3
	4MSVC-6/5,5-132S 4MSVD-5/5,5-132S 4MSVD-6/7,5-132S	6208-ZZ C3	6208-ZZ C3
	MSVA-8/15-160M MSVB-4/15-160M MSVB-5/18,5-160L MSVB-6/22-160L MSVC-3R/15-160M MSVC-3/18,5-160L MSVC-4R1/22-160L MSVD-2/15-160M MSVD-3R/18,5-160L MSVD-3/22-160L	6308-ZZ C3	6309-ZZ C3
	MSVC-5/30-180M MSVC-6/37-180L MSVD-4/30-180M MSVD-5/37-180L	6309-ZZ C3	3310-ZZ C3

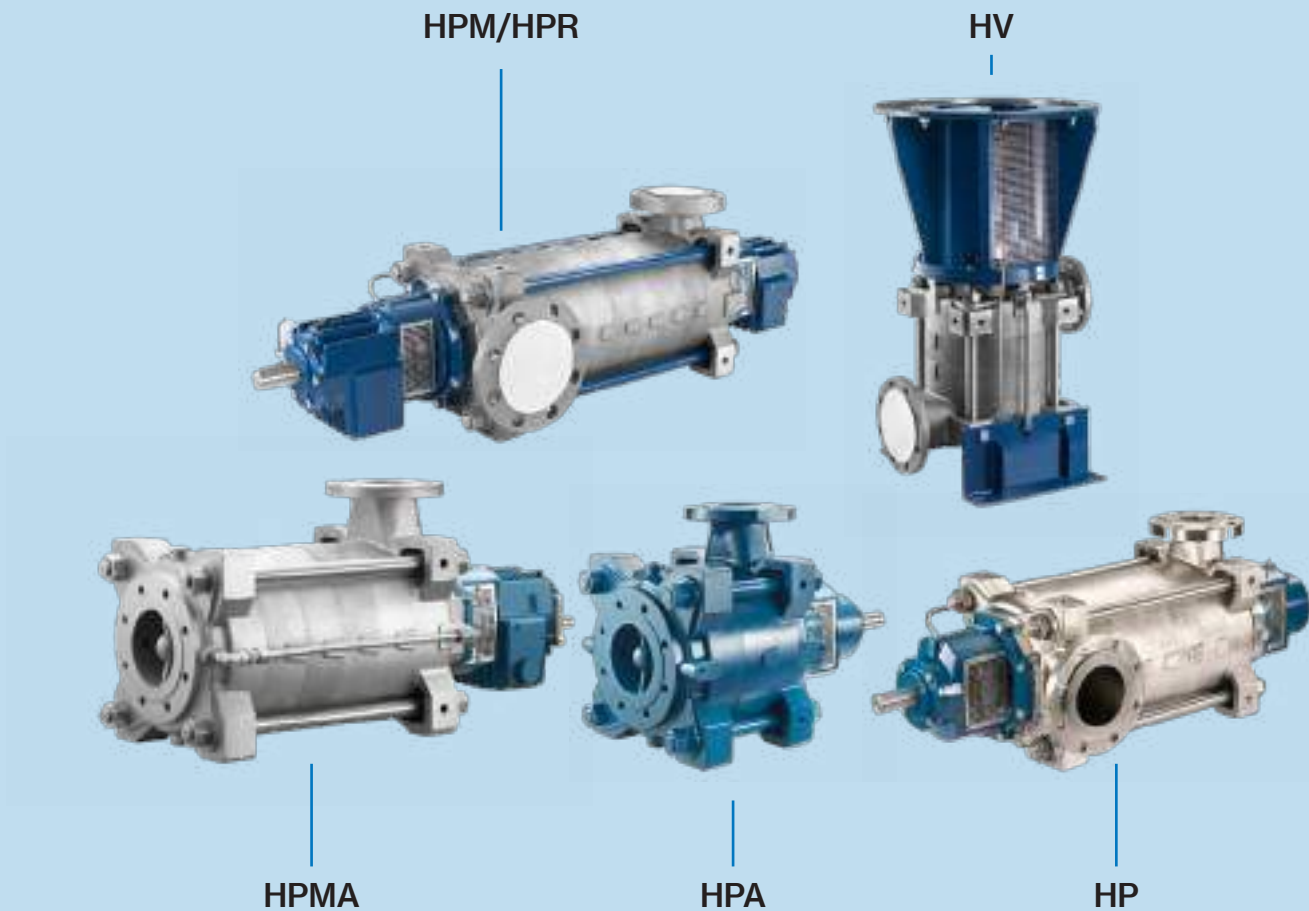


MSH-4MSH Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL
	MSHA-3/5,5-132S MSHB-2/7,5-132S 4MSHA-8/2,2 4MSHB-4/2,2 4MSHB-5/2,2 4MSHB-6/3 4MSHB-8/4	25mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Widia Widia NBR
	MSHC-2R1/11-132M MSHD-2/15-160M 4MSHC-3/2,2 4MSHC-4/3 4MSHC-5/4 4MSHC-6/5,5-132S 4MSHD-2/2,2 4MSHD-3/3 4MSHD-4/4 4MSHD-5/5,5-132S 4MSHD-6/7,5-132St	35mm	Rotating face Stationary face Elastomer	Ceramic Graphite NBR	Widia Widia NBR
	MSHA-4/7,5-132S MSHA-5/9,2-132M MSHA-6/11-132M MSHA-8/15-160M MSHB-3R/9,2-132M MSHB-3/11-132M MSHB-4/15-160M MSHB-5/18,5-160L MSHB-6/22-160L	25mm / Balanced seal	Rotating face Stationary face Elastomer	Widia Graphite NBR	Widia Widia NBR
	MSHC-3R/15-160M MSHC-3/18,5-160L MSHC-4R1/22-160L MSHC-5/30-180M MSHC-6/37-180L MSHD-3R/18,5-160L MSHD-3/22-160L MSHD-4/30-180M MSHD-5/37-180L	35mm / Balanced seal	Rotating face Stationary face Elastomer	Widia Graphite NBR	Widia Widia NBR

BEARINGS	PUMP MODEL	TYPE	
	4MSHA-8/2,2 4MSHB-4/2,2 4MSHB-5/2,2 4MSHC-3/2,2 4MSHD-2/2,2	6205-ZZ C3	6205-ZZ C3
	4MSHB-6/3 4MSHB-8/4 4MSHC-4/3 4MSHC-5/4 4MSHD-3/3 4MSHD-4/4	6206-ZZ C3	6206-ZZ C3
	MSHA-3/5,5-132S MSHA-4/7,5-132S MSHA-5/9,2-132M MSHA-6/11-132M MSHB-2/7,5-132S MSHB-3R/9,2-132M MSHB-3/11-132M MSHC-2R1/11-132M	6206-ZZ C3	6308-ZZ C3
	4MSHC-6/5,5-132S 4MSHD-5/5,5-132S 4MSHD-6/7,5-132S	6208-ZZ C3	6208-ZZ C3
	MSHA-8/15-160M MSHB-4/15-160M MSHB-5/18,5-160L MSHB-6/22-160L MSHC-3R/15-160M MSHC-3/18,5-160L MSHC-4R1/22-160L MSHD-2/15-160M MSHD-3R/18,5-160L MSHD-3/22-160L	6308-ZZ C3	6309-ZZ C3
	MSHC-5/30-180M MSHC-6/37-180L MSHD-4/30-180M MSHD-5/37-180L	6309-ZZ C3	3310-ZZ C3

HP SERIES

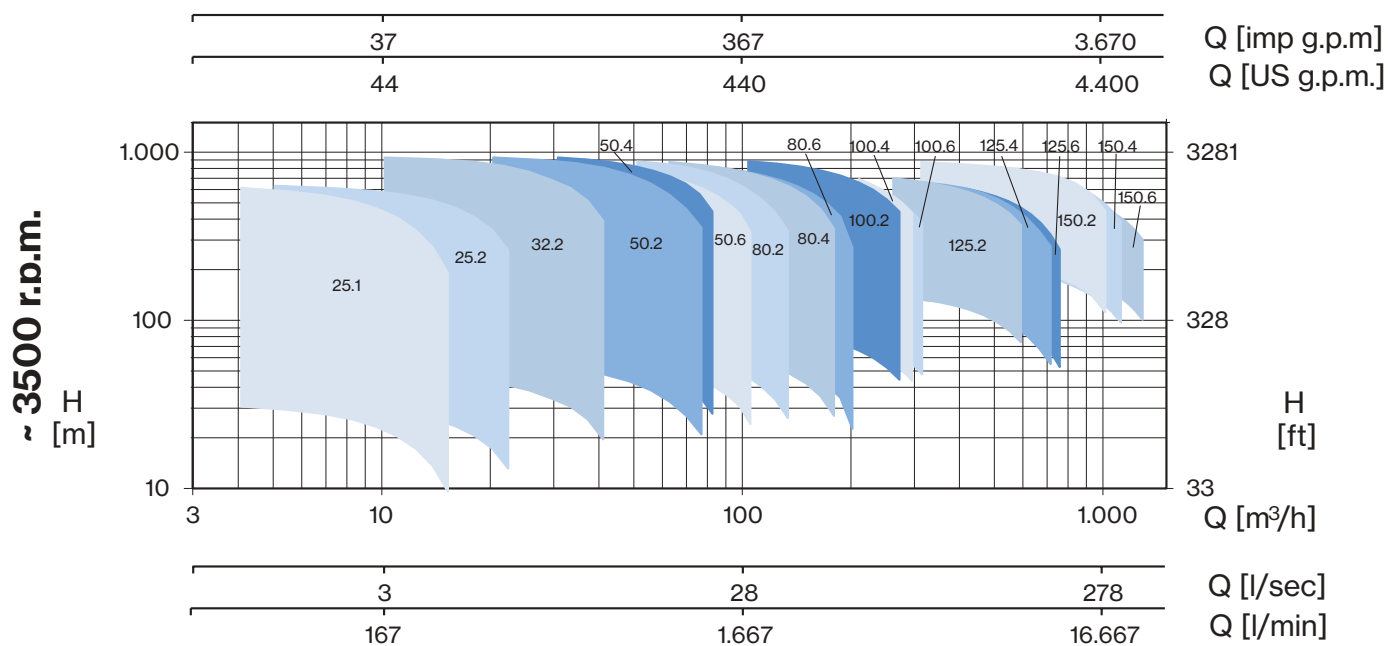
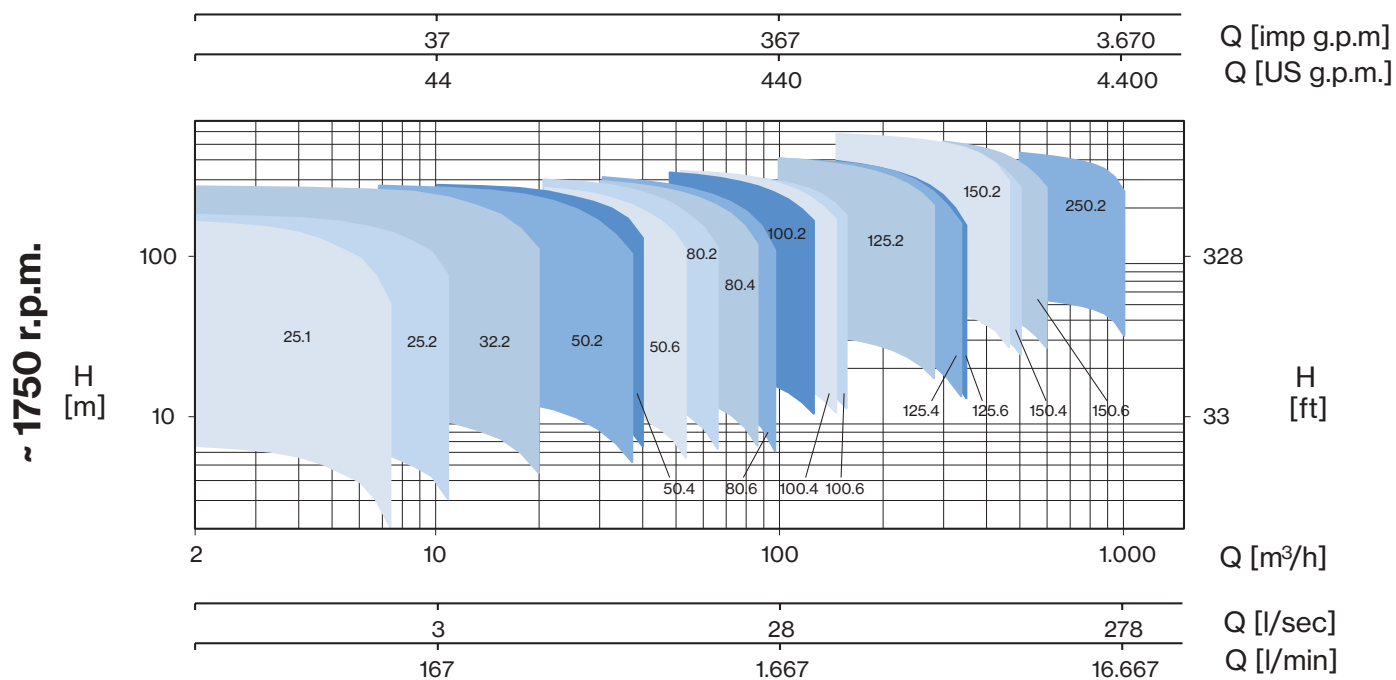


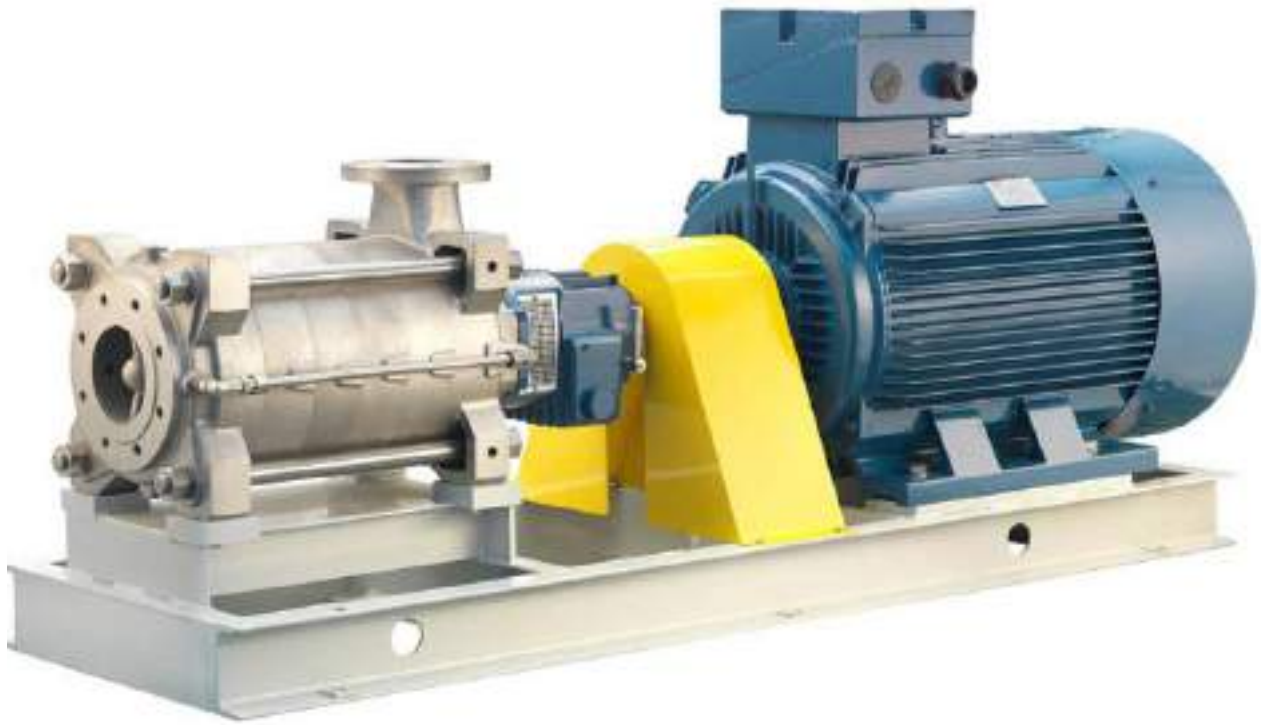
The multistage centrifugal pumps belonging to the HP series have a radial cross section, allowing an horizontal or vertical installation. The flanges of the suction and discharge ports are according to the EN or ANSI standards, these ports can operate radially and can be rotated 90°, in the HP, HPM and 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

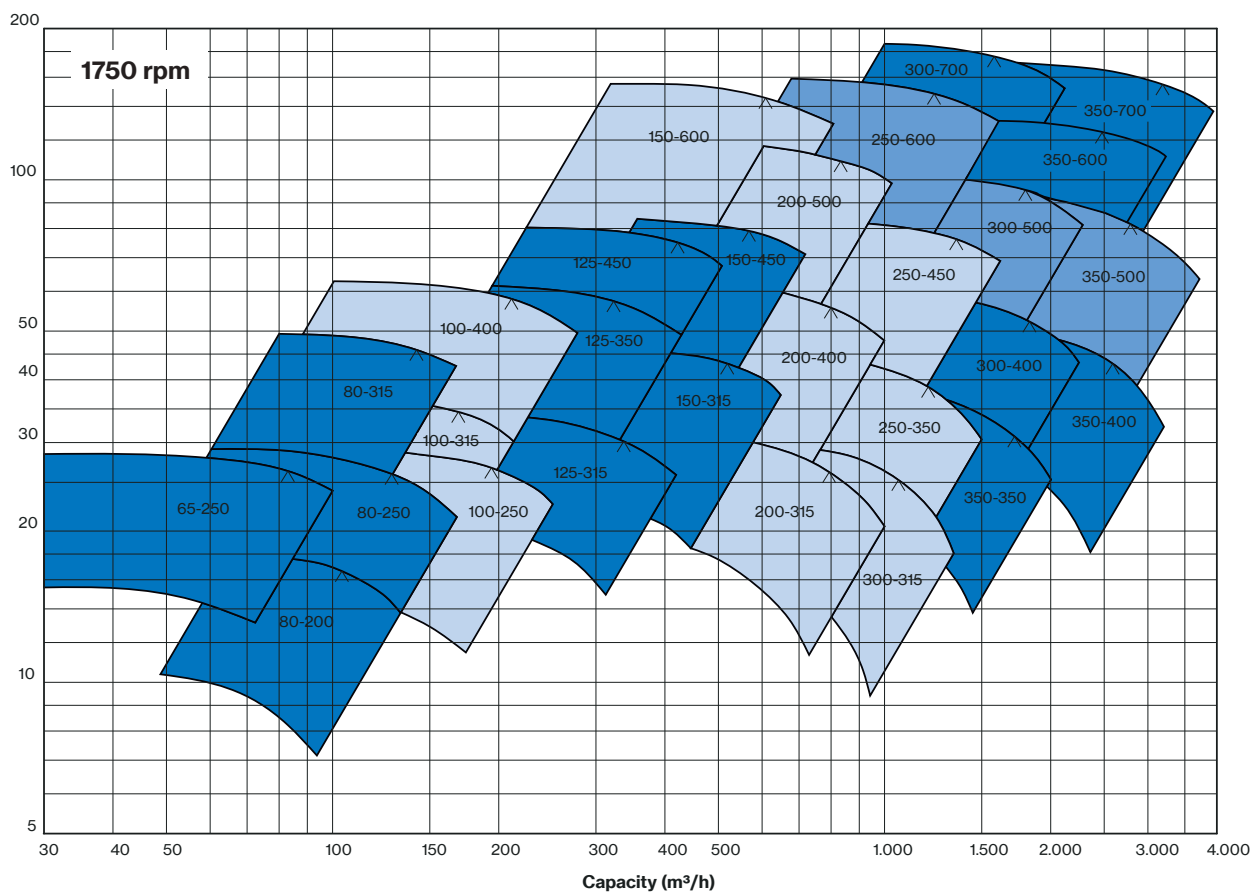
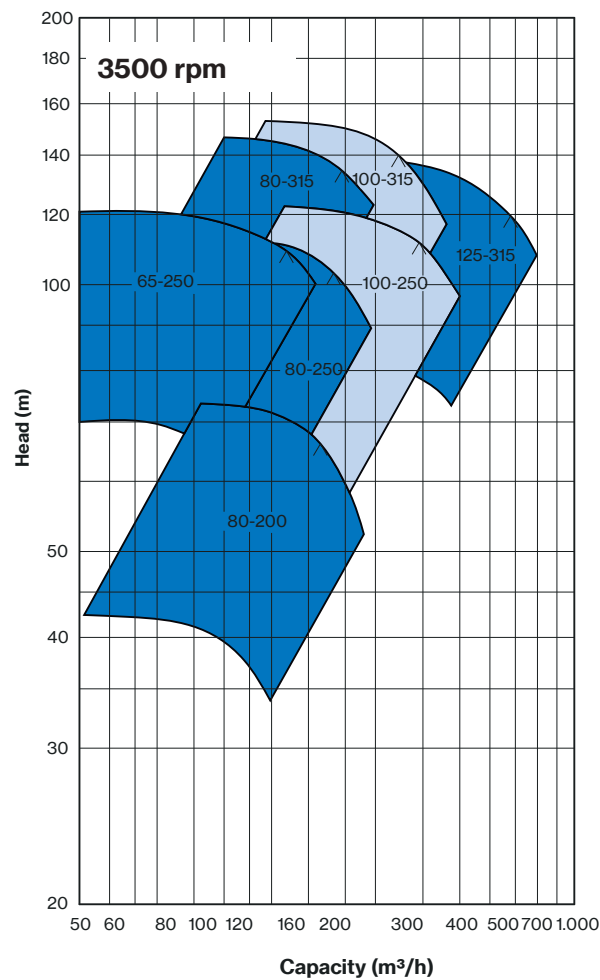


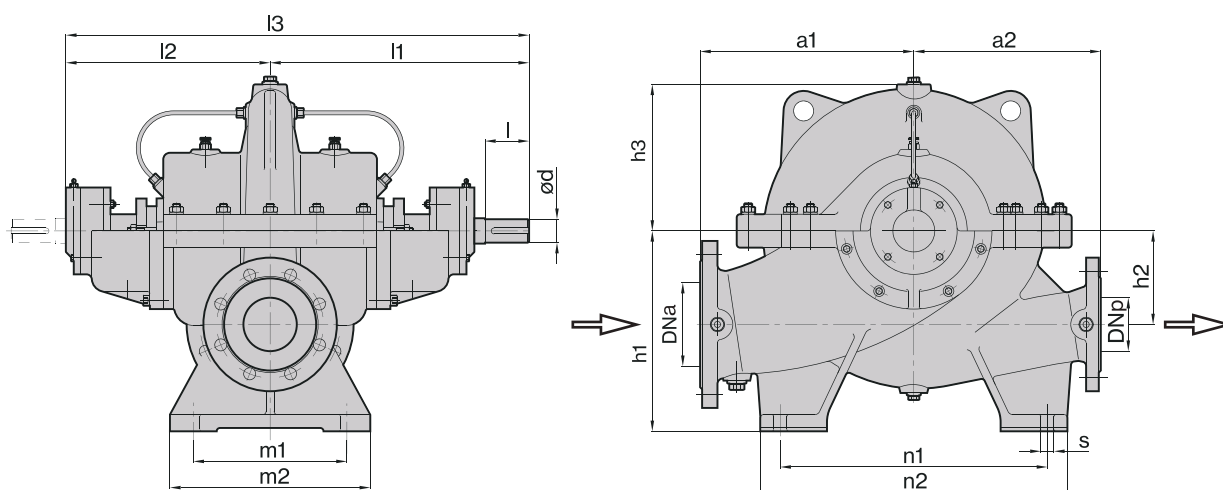
Horizontal axial split case single stage centrifugal pumps with in-line inlet and outlet. The double suction impeller design provides hydraulic balance to enhance bearing life span.

Construction features

Flow rate	up to 4000 m ³ /h
Pressure	up to 180 m
Temperature	from -10 °C to +110 °C
Rotation	1750 - 3500 r.p.m.
Standard flanges	conform to EN 1092-2/ PN 16 or PN 25
Discharge port	DN65-350 PN 16-25
Bearing lubrication	grease
Sealing	gland packing; also available with me- chanical seal
Impeller, casing and wear rings	cast iron, also available in bronze or stainless steel
Performance tolerance	ISO 9906-3B







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

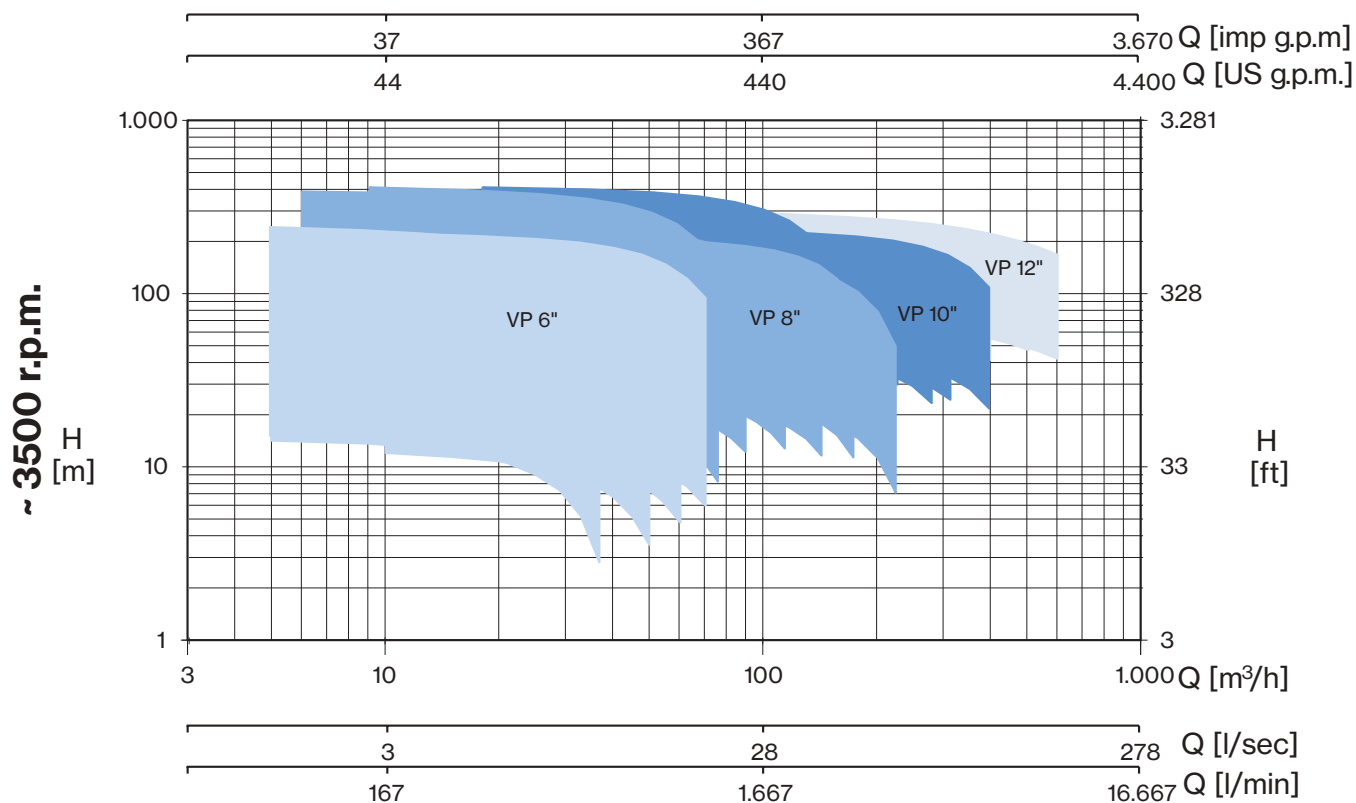
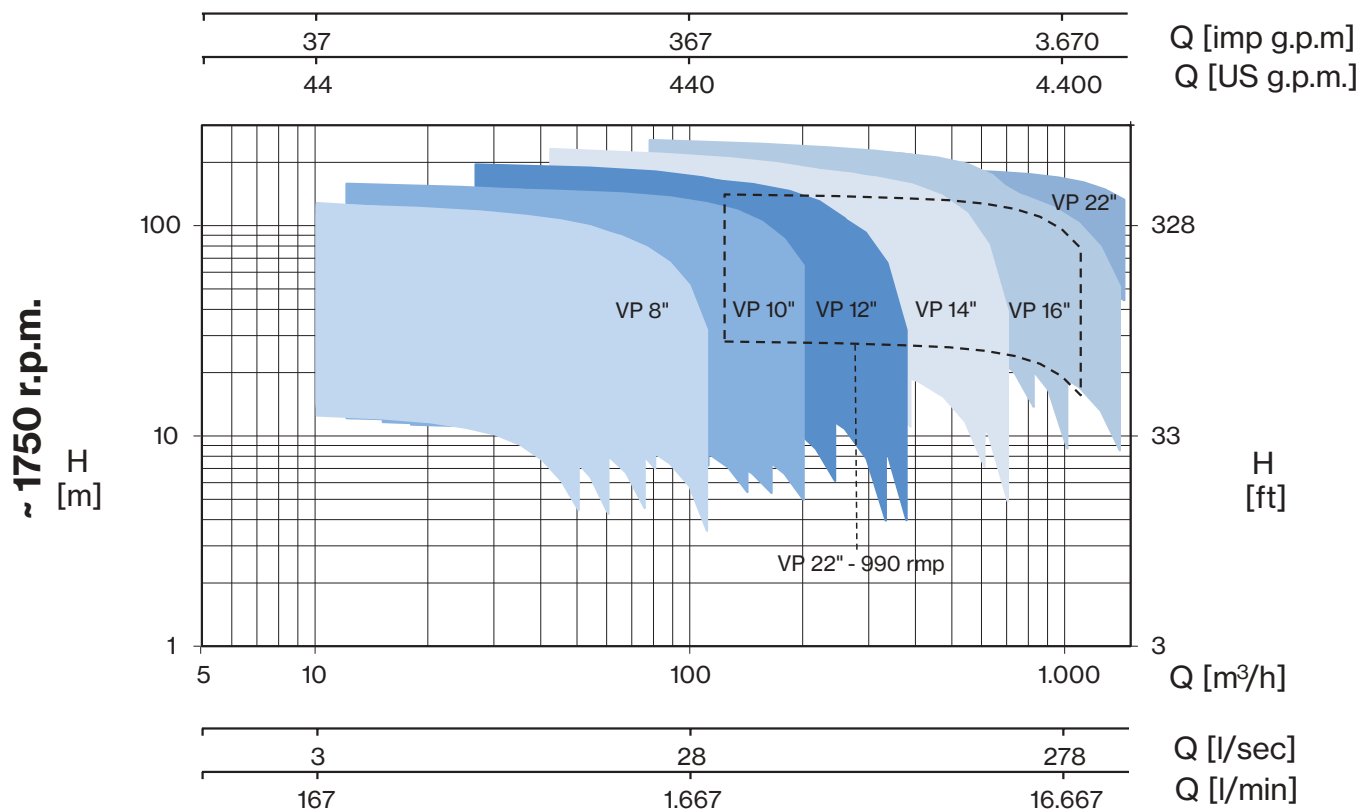


Vertical lineshaft pumps with submerged pump bowl specifically developed for the industrial sectors, irrigation, waterworks and fire-fighting systems. Extremely versatile for the use in areas not served by electricity, as emergency or back-up units. Available in different materials and versions with 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



VP SERIES

Main characteristics

- Capacity up to 1600 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.



ACCESSORIES

ELECTRONIC FLOW CONTROL



HIDROMATIC H2

- 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 $\pm$ 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 any losses 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 $\pm$ 15% 50/60Hz
Max rated current	12 A (2HP) - 1500 W
Starting pressure range	1 $\div$ 3,5 bar (1,5 bar factory setting)
Max pressure	10 bar
Protection degree	IP65
Fluid temperature	5°C $\div$ 35 °C
Ambient temperature	5°C $\div$ 45°C
Hydraulic connection	1" M

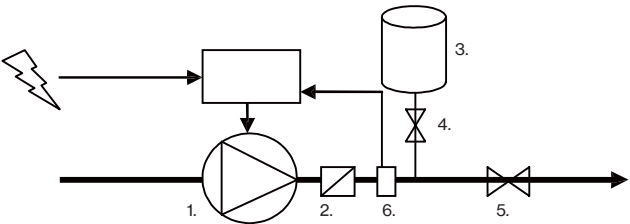


VARIABLE SPEED DRIVE



Frequency 48-62 Hz
 Max ambient temperature 40°C (104°F)
 Max humidity 50% a 40°C
 Max altitude 1000 m
 PWM configurable 2,5; 8 KHz
 Complies with the electromagnetic conformity directive

V in (±15%)	V out	I line max	I out max	P2	 Kg
1-230 V	3-230 V	11 A	7,5 A	2,5 HP	2,5



1. Pump
2. Non return valve
3. Pressure tank
Pressure tank volume suggested: 10% of the capacity of the system
4. Valve-Tap
5. Valve
6. Pressure sensor

VSD Variable Speed Drive	TYPE	up to	
		P2	
		HP	kW
EPIC	CAM	2	1,5
	CAB	2	1,5
	INOX	1,5	1,1
	MPX	1,2	0,88
	MB	2	1,5
	CM	1,5	1,1
	CR	1	0,74
	CS 2"	2	1,5
	CH	1,5	1,1
	CB	1,5	1,1
	ULTRA 3	2,5	1,85
	ULTRA 5	2,5	1,85
	ULTRA 7	2	1,5
	ULTRA 9	2	1,5



VARIABLE SPEED DRIVE



It's a variable frequency device (inverter); specifically designed for control and protection of electric pumps. Connected to any electric pumps regulates the motor speed in order to manage the pumps performance in relation to operating conditions and requests of the system. Consists in compact electronic units equipped with microprocessor contained in an aluminium structure that grants strenght, ease cooling.

The advantages of the use of IPFC:

- Energy saving
- Simple Installation
- Overload protection
- Dry running protection
- Noise reduction
- Soft Start & Stop
- Installation options: directly on the motor cover of the pump or wall installation

IPFC VSD

TYPE	IPFC 306	IPFC 309	IPFC 311	IPFC 314	IPFC 318	IPFC 325	IPFC 330	IPFC 338	IPFC 348	IPFC 365	IPFC 375	IPFC 385
Input rated voltage	3 × 380 V ± 15%											
Output rated voltage	3 × 380 V											
Output rated current	6 A 3~	9 A 3~	11 A 3~	14 A 3~	18 A 3~	25 A 3~	30A 3~	38A 3~	48A 3~	65A 3~	75A 3~	85A 3~
Output rated power	2,2 kW 3~	4 kW 3~	4 kW 3~	5,5 kW 3~	7,5 kW 3~	11 kW 3~	15 kW 3~	18,5 kW 3~	22 kW 3~	30 kW 3~	37 kW 3~	45 kW 3~
Max motor current	5,4 A 3~	8,1 A 3~	9,9 A 3~	12,6 A 3~	16,2 A 3~	22,5 A 3~	27 A 3~	34,2 A 3~	43,2 A 3~	58,5 A 3~	67,5 A 3~	76,5 A 3~
Input frequency	60 Hz											
PWM frequency	2,5 - 4 - 6 - 8 - 10 - 12 kHz settable											
Control panel	backlight LCD with 2 x 16 characters and buzer / Bluetooth® SMART 4,0											
Input analogical signals	4 × 4 - 20 mA											
Input digital signals	2											
Communication	RS485 / Bluetooth SMART 4,0											
2 DOL Auxiliary pump contacts	clean, NO, 220 V, I _{max} , 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 / hang on wall with kit						on motor feet / wall with kit					
Max ambient temperature	40° C											
Max ambient altitude	1.000 m slm / de-rate 2% each 100 m											
Input / Output feeding cable	2 × PG 13,5 + 3 x PG 9											
Dimension	181 × 181 × 228 mm			260 × 260 × 180 mm				410 × 680 × 260 mm				

TYPE	IPFC 109	IPFC 114	IPFC 306-220	IPFC 309-220	IPFC 314-220	IPFC 318-220	IPFC 325-220	IPFC 330-220	IPFC 338-220	IPFC 348-220	IPFC 365-220	IPFC 375-220	IPFC 385-220
Input rated voltage	1 × 220 V ± 15%		3 × 220 V ± 15%										
Output rated voltage	1 × 220 V 3 × 220 V		3 × 220 V										
Output rated current	9 A 1- 7 A 3~	9 A 1- 11 A 3~	6 A 3~	9 A 3~	14 A 3~	18 A 3~	25 A 3~	30 A 3~	38 A 3~	48 A 3~	65 A 3~	75 A 3~	85 A 3~
Output rated power	1,1 kW 1- 1,5 kW 3~	1,1 kW 1- 3 kW 3~	1,1 kW 3~	2,2 kW 3~	3 kW 3~	4 kW 3~	5,5 kW 3~	7,5 kW 3~	9,3 kW 3~	11 kW 3~	15 kW 3~	18,5 kW 3~	22 kW 3~
Max motor current	7,2 A 1- 6,3 A 3~	7,2 A 1- 9,9 A 3~	5,4 A 3~	8,1 A 3~	12,6 A 3~	16,2 A 3~	22,5 A 3~	27 A 3~	34,2 A 3~	43,2 A 3~	58,5 A 3~	67,5 A 3~	76,5 A 3~
Input frequency	60 Hz												
PWM frequency	2,5 - 4 - 6 - 8 - 10 - 12 kHz settable												
Control panel	backlight LCD with 2 x 16 characters and buzzer / Bluetooth ® SMART 4,0												
Input analogical signals	4 x 4 - 20 mA												
Input digital signals	2												
Comunication	RS485 / Bluetooth SMART 4,0												
2 DOL Auxiliary pump contacts	clean, NO, 220 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 / hang on wall with kit						on motor feet / wall with kit						
Max ambient temperature	40° C												
Max ambient altitude	1000 m slm / de-rate 2% each 100 m												
Input / Output feeding cable	2 × PG 13,5 + 3 x PG 9												
Dimension	181 × 181 × 228 mm				260 × 260 × 180 mm				410 × 680 × 260 mm				

PRESSURE TRANSDUCER


TYPE	Output signal	Input vol-tage	Working pressure	Maximum pressure
SPD	4... 20 mA	9... 28 V	0 - 25 bar	32 bar

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		Fixed	Variable	DOL	Y/Δ	Soft start	Impedance start	Switch with overload protection	Electromechanical control panel	Electronic control panel
PML	■	-	■	-	-	■	-	■	0,37 ÷ 2,2	■	-	■	-	-	-	■	-	-
PMC	■	-	■	-	-	■	■	-	1,1 ÷ 1,5	■	-	■	-	-	-	■	-	-
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



- 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 5/16-4	4	16	0,5	0,37
PML 5/20-4	4	20	0,5	0,37
PML 7/20-6	6	20	0,75	0,55
PML 7/25-6	6	25	0,75	0,55
PML 10/30-7	7	30	1	0,75
PML 10/35-7	7	35	1	0,75
PML 15/40-10	10	40	1,5	1,1
PML 20/50-13	13	50	2	1,5
PML 20/60-13	13	60	2	1,5
PML 30/75-18	18	75	3	2,2
PML 30/80-18	18	80	3	2,2
PMC 15/35-15	15	35	1,5	1,1
PMC 20/50-18	18	50	2	1,5

PROTECTION/CONTROL PANEL

Overload protection unit for 1 single-phase pump with run capacitor + start capacitor with disjunctur



- Power supply 1x230V-50/60Hz
- ON/OFF switch
- Electrical switch
- Run + start capacitor with disjunctur
- 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



- 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

PROTECTION/CONTROL PANEL

Electronic control panel for 1-2-3 pumps with direct start-up



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	0-18	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)



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

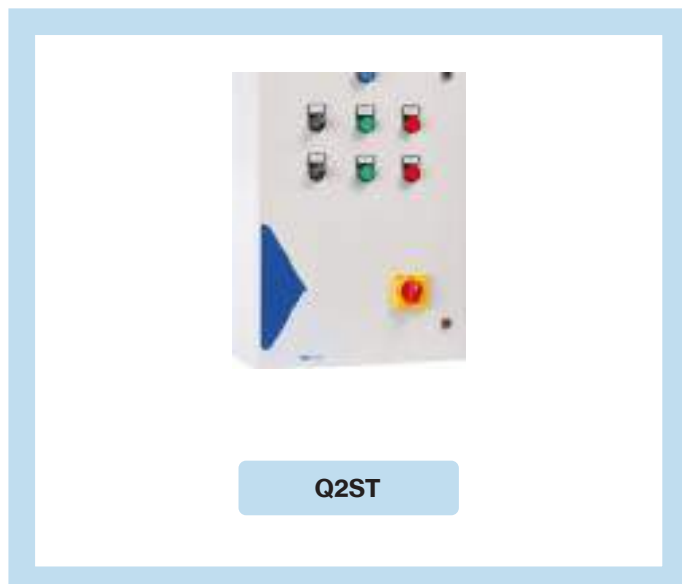
Star/delta control panel for 1 three-phase pump



- 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 disconnecter
- 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



- 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 disconnecter
- 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

PROTECTION/CONTROL PANEL

Soft start control panel for 1 three-phase pump



- 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 disconnecter
- Forced ventilation kit
- IP54 rated metal box
- Ambient temperature $-5 \div +40^{\circ}\text{C}$

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



- 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 disconnecter
- Ambient temperature $-5 \div +40^{\circ}\text{C}$

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 steel 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" 1/4 Aisi 304 connector with built-in no return valve
R5X 1" 1/2	5 way 1" 1/2 Aisi 304 connector with built-in no return valve

VALVES



TYPE	DESCRIPTION
VF 1"	foot valve 1"
VF 1" 1/4	foot valve 1" 1/4
VF 1" 1/2	foot valve 1" 1/2
VF 2"	foot valve 1" 1/2
VR1"	check valve 1"
VR 1" 1/4	check valve 1" 1/4
VR 1" 1/2	check valve 1" 1/2
VR 2"	check valve 1"

FLOAT SWITCHES



TYPE	DESCRIPTION
GK 2	Key 2 mt. cable length
GK 3	Key 3 mt. cable length
GK 5	Key 5 mt. cable length
GK 10	Key 10 mt. cable length

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 tinned 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

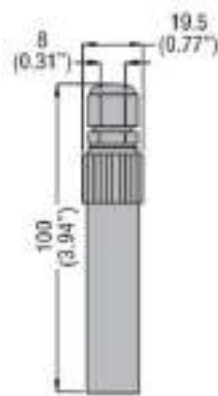
LEVEL PROBES



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

1) ORDERS: Any order sent to us, whether by our representatives or by letter, telephone or fax, will be considered definite only after our regular acceptance in writing. 2) DELIVERY: The terms indicated for delivery are not binding but subject to manufacturing factors and unforeseeable circumstances (trade unions unrest, breakdown of machinery, late delivery by our suppliers, general unavailability of raw materials, fire, flood or other forces majeures). Any delay which might occur will not give rise on the part of the purchaser of the right to annul the order or to claim damages. 3) TRANSPORT: Goods travel at the customer's risk even if the price is stated as carriage free. The vendor will not be liable for the underweight goods or damage caused during transit as the carrier is exclusively liable in such cases and it is to him that the receiving party must promptly address a right informative notice in writing to this to the dealer. After 8 days have passed from receipt of the goods, no claims are in any case ammissible. 4) PRICES: The prices are to be understood as net of tax duties and may be changed without notice. 5) RIGHT OF PROPERTY: The goods property belongs to the manufacturer and it is not acquired by the customer until the complete payment is made for the goods, and for any interest and costs involved. In case of payment not honoured, goods will, on the manufacturer's express request, be promptly sent back to the stores in free port indicated by the manufacturer. In any case the manufacturer reserves the right to charge the customer with the cost of restoration and renewal of returned goods. 6) PAYMENTS: Payments must be effected at due dates and in the terms agreed at our Headquarters. Payments made to agents, representatives or others are not recognized even by bills unless there is an express written authority by the manufacturer. In case of payment by instalments the failure to pay even one instalment allows the manufacturer to require the balance immediately plus the interest accrued at the average rate in force for the period. 7) BLOCKAGE OF CLAIMS: The customer may not, for any reason, delay or suspend payments owed on any account even if claims or disputes have arisen, nor may he start or take legal action of any kind if he has not first paid by the terms and in the terms agreed. 8) TECHNICAL CHARACTERISTICS: The technical data and characteristics stated in all the manufacturer's official publications refer to indicative nominal values. For specific needs and on explicit demand, the manufacturer can provide detailed technical sheets from which the internal acceptance criteria of the product can be deduced. The manufacturer reserves the right to make any modification without prior notice. Therefore weights, dimensions, performances and any other stated issues are indicative only and not binding. 9) GUARANTEE: The manufacturer gives the guarantees provided by the Law. The guarantee covers every manufacturing defect only for the components/parts produced by the manufacturer: the Company also limits itself to the repair or replacement of the electric pump, or of the part recognized as being faulty, at the manufacturer's premises or other authorized premises. In no case however does the guarantee imply the possibility of claiming an indemnity and any liability is denied for damage to things or to the person caused by the manufacturer machines, whether directly or indirectly. The guarantee does not apply: - If the machine has been repaired, dismantled or tampered by persons not authorized by the manufacturer. - If the breakdown has been caused by errors in connecting the electrical or hydraulic systems, or by the failure to provide protection or the provision of inadequate protection. - If the setting up of the machine or its electrical or hydraulic systems has not been correctly carried out. - If the machine has been subject to loads exceeding the ones within the label specifications. - If materials have been damaged due to contact with abrasive or corrosive liquids or which are in any way incompatible with the materials used in the manufacture of the pumps. - If the materials have deteriorated due to natural wear. The defective machine must be taken to the manufacturer's premises in free port. The manufacturer reserves the indisputable right to impute the cause of the defect and to ascertain whether it falls within the warrant cases at his full expences. When the machine has been repaired it will be returned to the customer. 10) COMPETENT COURT: In case of any dispute the competent Court will be the one of Verona even if the payment is by Bill of Exchange. 11) RECOURSE TO OTHER NORMS: As regard to other matters not expressly stated in the above points, the laws, norms and commercial customs in force at the place, where the manufacturer has its premises, will be applied.

The manufacturer assumes no responsibility for errors and omissions and reserves the right of changes without notice.

NOTES

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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

60Hz

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