



EBARA

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Version		3M4	3S4	3P4	3LM4	3LS4	3LP4
Pump sizes	32-125	■	■	■	■	■	■
	32-160	■	■	■	■	■	■
	32-200	■	■	■	■	■	■
	40-125	■	■	■	■	■	■
	40-160	■	■	■	■	■	■
	40-200	■	■	■	■	■	■
	50-125	■	■	■	■	■	■
	50-160	■	■	■	■	■	■
	50-200	■	■	■	■	■	■
	65-125	■	■	■	■	■	■
	65-160	■	■	■	■	■	■
	65-200	■	■	■	■	■	■
	65-250	-	-	-	●	●	●
	80-160	-	-	-	●	●	●
	80-200	-	-	-	●	●	●
	80-250	-	-	-	●	●	●

■ Available also with H, HS, HW, HSW, E version for 32, 40, 50, 65-125/160/200.

● Available also with H, HW, HSW, E version for 65-250, 80.

— Not available.

SPECIFICATION

50Hz

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PUMP									
Version				3M4	3S4	3P4	3LM4	3LS4	3LP4
Liquid Handled	Type of liquid			Clean water and moderately aggressive fluids					
				/			Drinking water and water contains glycol for E option		
	Temperature [°C]			min. -10 max. +90 max. +110 (H-HS-HW-HSW version) max. +120 (E version) (For version see page 321+325)			min. -10 min. -20 (E version) max. +110 max. +110 (H-HW-HSW version) max. +120 (E version) (For version see page 321+325)		
Maximum working pressure [MPa]				1					
Construction	Impeller			Closed centrifugal type for 32, 40, 50 version Reinforced laser welding for 40-200/1.5, 50-200/2.2 Closed centrifugal three dimensional blades for 65 and 80 version					
	Shaft seal type			Mechanical seal			Mechanical seal with stationary ring secured against rotation		
	Bearing			Bearing with contact seal					
Pipe Connection	Suction	32-125/160/200		Flange DN50 according DIN 2532 Standard					
		40-125/160/200		Flange DN65 according DIN 2532 Standard					
		50-125/160/200							
		65-125/160/200/250		Flange DN80 according DIN 2532 Standard					
	Discharge	80-160/200/250		Flange DN100 according DIN 2532 Standard					
		32-125/160/200		Flange DN32 according DIN 2532 Standard					
		40-125/160/200		Flange DN40 according DIN 2532 Standard					
		50-125/160/200		Flange DN50 according DIN 2532 Standard					
Material	Casing	32-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		40-125/160/200							
		65-250		/			EN 1.4401 (AISI 316) made by precision casting		
		80-160/200/250							
	Impeller	32-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		40-125/160/200							
		50-125/160/200							
		65-125/160/200		EN 1.4401 (AISI 316) made by precision casting					
	Casing cover	65-250		/			EN 1.4401 (AISI 316) made by precision casting		
		80-160/200/250							
		32-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		40-125/160/200							
	Mechanical seal	50-125/160/200		Ceramic/Carbon/NBR (See page 321+325)			SiC/SiC/FPM (L version) (See page 321+325)		
		65-125/160/200							
		65-250		/					
		80-160/200/250					EN 1.4404 (AISI 316L)		
	O-ring			NBR (See page 321+325)					
	Shaft	32, 40, 50, 65	d=19	EN 1.4301 (AISI 304)			/		
		50-200/2.2	d=22						
		80-160	d=19						
		65-250	d=24						
		80-200/250							
Bracket			Cast iron - Aluminium						
Applicable standard of test				ISO 9906 – Annex A					

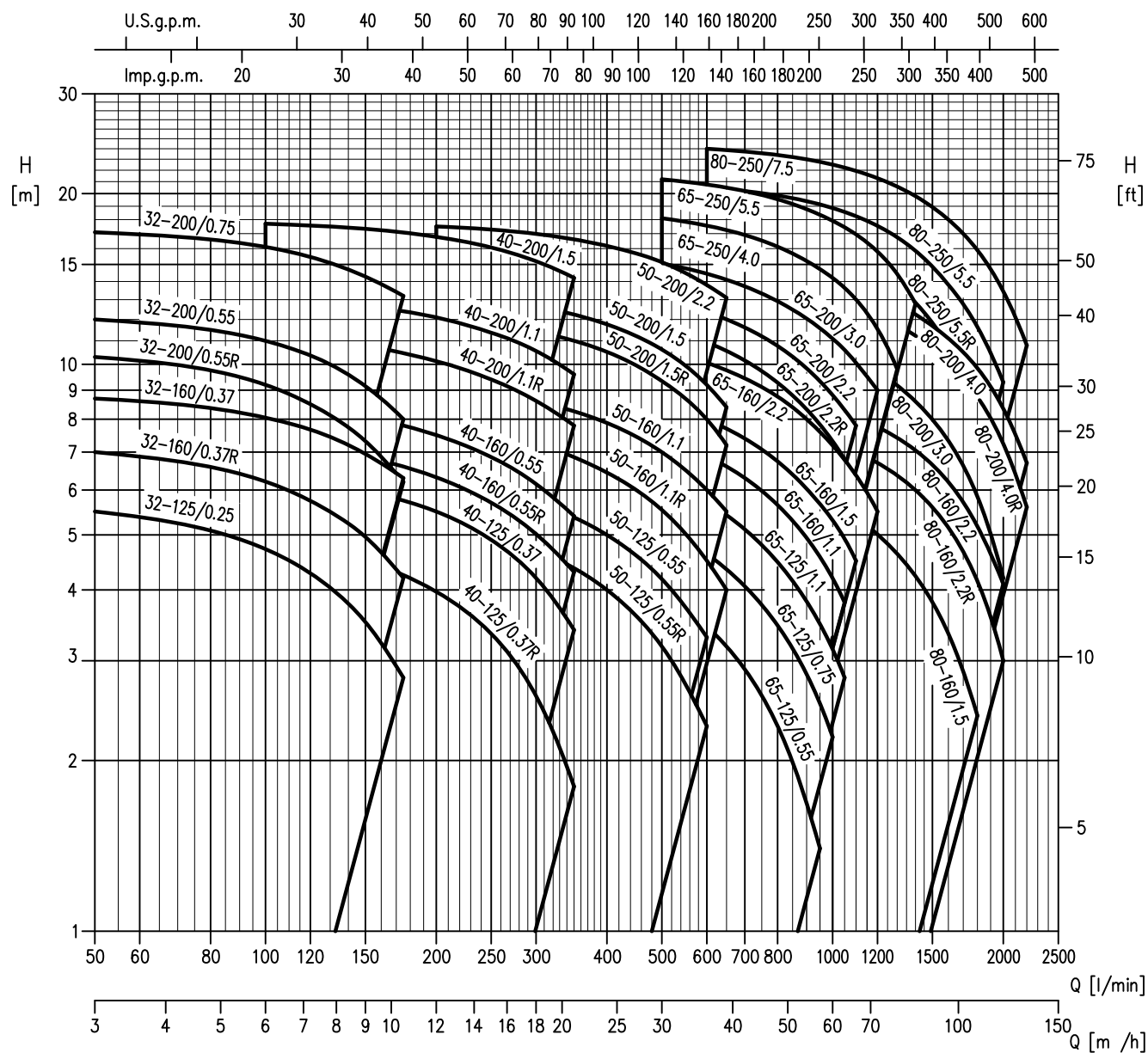
SPECIFICATION**50Hz**

Rev. G

MOTOR			
Type	3(.)M4	3(.)S4	3(.)P4
	Electric - TEFC		
	Three Phase		
Efficiency level (Reg. 640/2009)	- from 0.25 kW up to 0.55 kW IE2 from 0.75 kW up to 7.5 kW		
No. of Poles	4		
Rotation speed [min ⁻¹]	≈ 1400		
Insulation Class	F (class B fot temperature rise)		
Protection degree (CEI EN 60034-5)	IP 55		
Power rating [kW]	0.25 ÷ 7.5		
	[HP]	0.33 ÷ 10	
Frequency [Hz]	50		
Voltage [V]	220-240/380-415 ±5% (up to 0.55 kW)	230/400 ±10% (up to 4.0 kW)	
	230/400 ±10% (from 0.75 up to 4.0 kW)	400/690 ±10% (5.5 kW and above)	
	400/690 ±10% (5.5 kW and above)		
Over load protection	Provided by the user		
Casing material	Aluminium		
Motor support	Cast iron - Alluminium		
Dimensions of cable entry	PG11	M20x1.5	
	PG13.5	M25x1.5	
	PG16	M32x1.5	
	PG21		
Flange mount (IEC motor)	/	IM B5 (up to 1.5 kW) IM B35 (2.2 kw and above)	IM B3

SELECTION CHART**50Hz**

Rev. G



3 SERIES 4 Poles: 32, 40, 50 Version

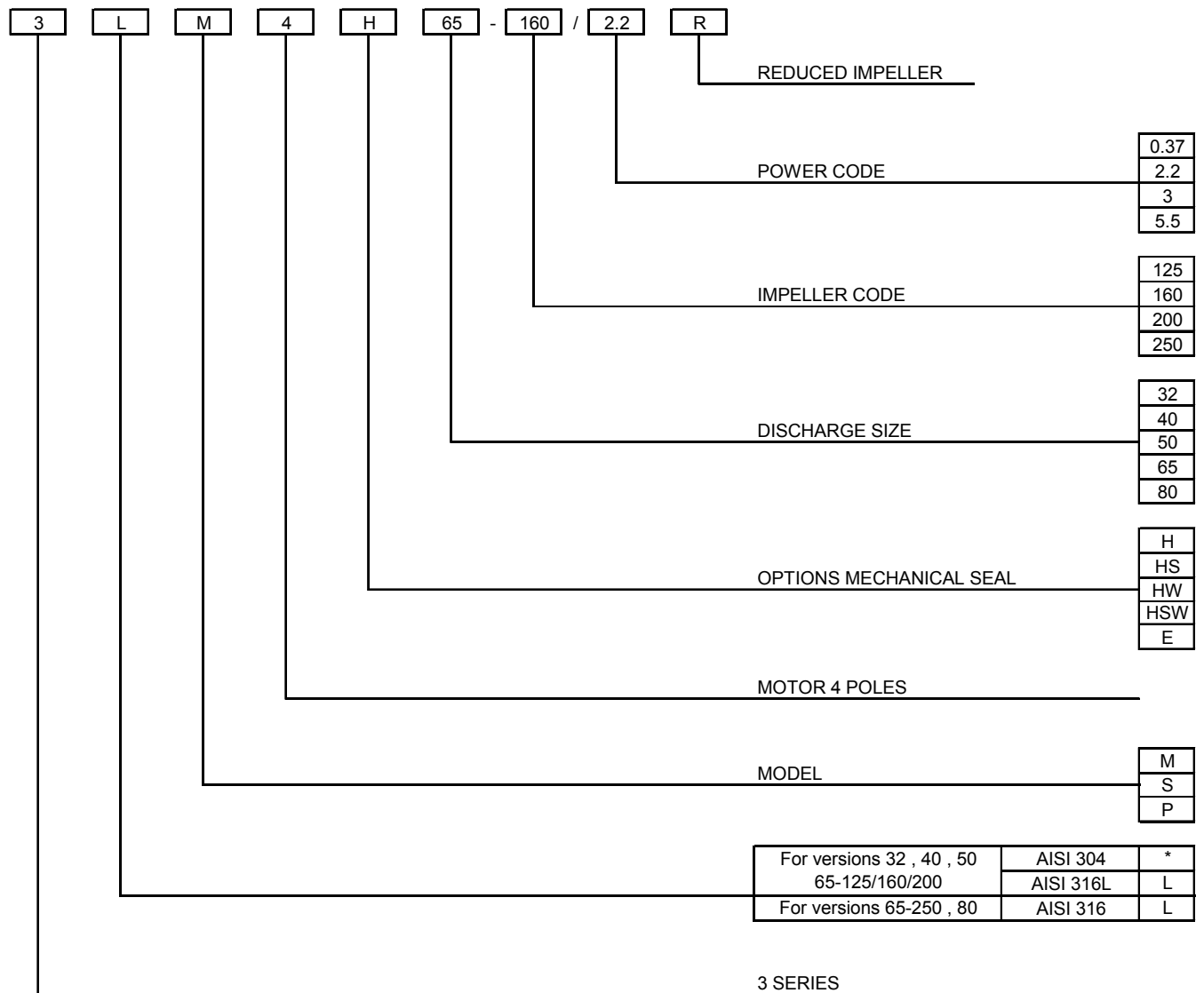
Pump type	Power		Q=Capacity													
	[kW]	[HP]	l/min	0	50	100	150	175	200	250	300	350	400	500	600	650
			m³/h	0	3	6	9	10.5	12	15	18	21	24	30	36	39
H=Total manometric head in meters																
32-125/0.25	0.25	0.33	5.7	5.5	4.7	3.5	2.8	-	-	-	-	-	-	-	-	-
32-160/0.37R	0.37	0.5	7.3	7	6.2	5	4.2	-	-	-	-	-	-	-	-	-
32-160/0.37	0.37	0.5	9	8.7	8.1	7	6.3	-	-	-	-	-	-	-	-	-
32-200/0.55R	0.55	0.75	10.8	10.3	9.2	7.3	6.2	-	-	-	-	-	-	-	-	-
32-200/0.55	0.55	0.75	12.5	12	11	9.2	8	-	-	-	-	-	-	-	-	-
32-200/0.75	0.75	1	17.5	17.1	16.1	14.3	13.2	-	-	-	-	-	-	-	-	-
40-125/0.37R	0.37	0.5	5.1	-	4.8	4.5	4.3	4	3.4	2.6	1.8	-	-	-	-	-
40-125/0.37	0.37	0.5	6.5	-	6.3	6	5.8	5.5	4.9	4.2	3.4	-	-	-	-	-
40-160/0.55R	0.55	0.75	7.7	-	7.3	6.9	6.6	6.3	5.7	5	4.3	-	-	-	-	-
40-160/0.55	0.55	0.75	9.1	-	8.6	8.1	7.8	7.5	6.9	6.2	5.4	-	-	-	-	-
40-200/1.1R	1.1	1.5	11.6	-	11.2	10.8	10.5	10.1	9.4	8.6	7.8	-	-	-	-	-
40-200/1.1	1.1	1.5	13.6	-	13.2	12.7	12.4	12.1	11.4	10.6	9.6	-	-	-	-	-
40-200/1.5	1.5	2	18	-	17.7	17.3	17.1	16.8	16.1	15.2	14.2	-	-	-	-	-
50-125/0.55R	0.55	0.75	5.4	-	-	-	-	5.2	5	4.7	4.4	4	3.2	2.3	-	-
50-125/0.55	0.55	0.75	6.4	-	-	-	-	6.2	6	5.7	5.4	5	4.2	3.3	-	-
50-160/1.1R	1.1	1.5	8.2	-	-	-	-	7.8	7.6	7.2	6.9	6.4	5.5	4.5	4	-
50-160/1.1	1.1	1.5	9.5	-	-	-	-	9.1	8.9	8.6	8.3	7.9	7	6	5.5	-
50-200/1.5R	1.5	2	12.7	-	-	-	-	12.1	11.8	11.4	11	10.5	9.3	8	7.2	-
50-200/1.5	1.5	2	14	-	-	-	-	13.3	13	12.7	12.2	11.8	10.6	9.2	8.4	-
50-200/2.2	2.2	3	17.8	-	-	-	-	17.5	17.3	17	16.6	16.2	15.1	13.8	13.1	-

3 SERIES 4 Poles: 65, 80 Version

Pump type	Power		Q=Capacity																	
	[kW]	[HP]	l/min	0	300	350	500	600	800	950	1000	1050	1100	1200	1300	1400	1600	1800	2000	2200
			m³/h	0	18	21	30	36	48	57	60	63	66	72	78	84	96	108	120	132
H=Total manometric head in meters																				
65-125/0.55	0.55	0.75	5.3	4.8	4.6	4	3.5	2.3	1.4	-	-	-	-	-	-	-	-	-	-	-
65-125/0.75	0.75	1	6.4	6	5.8	5.2	4.6	3.5	2.5	2.2	-	-	-	-	-	-	-	-	-	-
65-125/1.1	1.1	1.5	7.7	7.2	7	6.3	5.7	4.5	3.5	3.2	2.8	-	-	-	-	-	-	-	-	-
65-160/1.1	1.1	1.5	8.6	-	8.1	7.4	6.9	5.7	4.6	4.2	3.8	-	-	-	-	-	-	-	-	-
65-160/1.5	1.5	2	9.7	-	9.2	8.5	8	6.7	5.7	5.3	4.9	4.5	-	-	-	-	-	-	-	-
65-160/2.2	2.2	3	11.8	-	11.3	10.6	10.1	8.8	7.6	7.2	6.8	6.4	5.5	-	-	-	-	-	-	-
65-200/2.2R	2.2	3	13	-	12.4	11.6	10.9	9.3	7.8	7.3	6.8	-	-	-	-	-	-	-	-	-
65-200/2.2	2.2	3	14.5	-	13.9	13	12.4	10.8	9.3	8.8	8.3	7.8	-	-	-	-	-	-	-	-
65-200/3	3	4	16.3	-	15.8	15.1	14.4	12.9	11.6	11.1	10.6	10.1	9	-	-	-	-	-	-	-
65-250/4	4	5.5	18.8	-	-	18.1	17.6	16.1	14.7	14.2	13.7	13	11.6	9.8	-	-	-	-	-	-
65-250/5.5	5.5	7.5	21.8	-	-	21.2	20.8	19.6	18.4	17.9	17.5	17	15.8	14.4	12.8	-	-	-	-	-
80-160/1.5	1.5	2	7.3	-	-	-	6.8	6.3	5.9	5.7	5.6	5.4	5	4.6	4.2	3.4	2.4	-	-	-
80-160/2.2R	2.2	3	8.6	-	-	-	8.1	7.8	7.4	7.3	7.1	7	6.7	6.4	6	5.2	4.2	3	-	-
80-160/2.2	2.2	3	9.5	-	-	-	9.1	8.8	8.4	8.3	8.2	8	7.8	7.4	7.1	6.2	5.2	4.1	-	-
80-200/3	3	4	12.4	-	-	-	12	11.5	10.9	10.7	10.4	10.2	9.7	9.2	8.6	7.3	5.9	4.2	-	-
80-200/4R	4	5.5	14.8	-	-	-	14.4	13.9	13.4	13.2	12.9	12.7	12.2	11.7	11.2	10.1	8.8	7.2	5.6	-
80-200/4	4	5.5	16.0	-	-	-	15.4	14.9	14.3	14.1	13.9	13.7	13.2	12.8	12.3	11.1	9.9	8.4	6.7	-
80-250/5.5R	5.5	7.5	18.5	-	-	-	17.7	17	16.3	16	15.7	15.4	14.6	13.8	12.9	10.7	8.4	-	-	-
80-250/5.5	5.5	7.5	21.2	-	-	-	20.5	19.9	19.1	18.9	18.6	18.2	17.6	16.8	15.9	13.8	11.7	9.3	-	-
80-250/7.5	7.5	10	24.5	-	-	-	24	23.4	22.8	22.5	22.2	21.9	21.3	20.6	19.8	18	15.9	13.5	10.4	-

TYPE KEY AND CURVE SPECIFICATIONS**50Hz**

Rev. G

TYPE KEY:

(*) No indication

PERFORMANCE CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906 Annex A

The curves refer to effective speed of asynchronous motors at 50 Hz

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

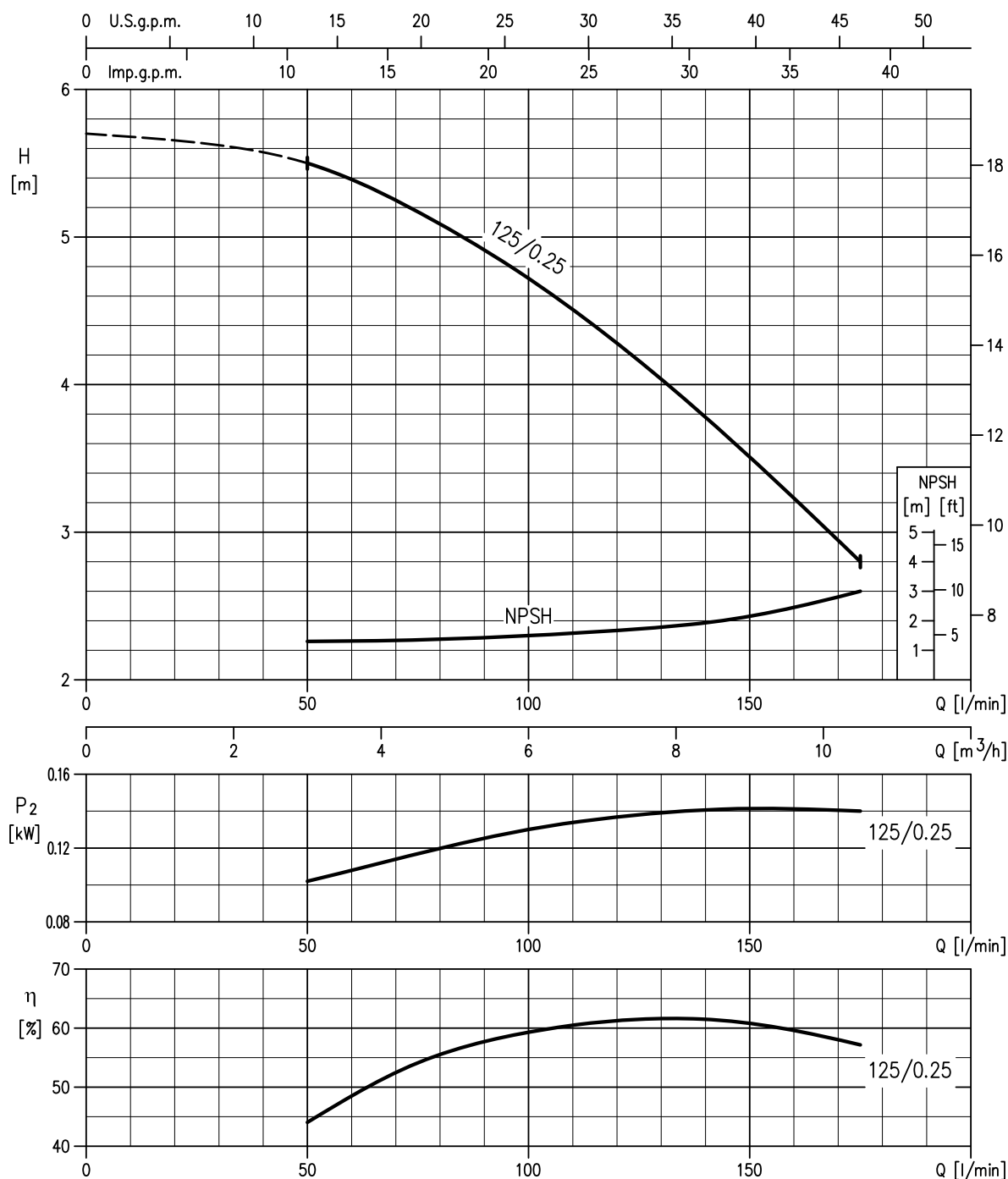
- Q = volume flow rate
- H = total head
- P_2 = pump power input (shaft power)
- η = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

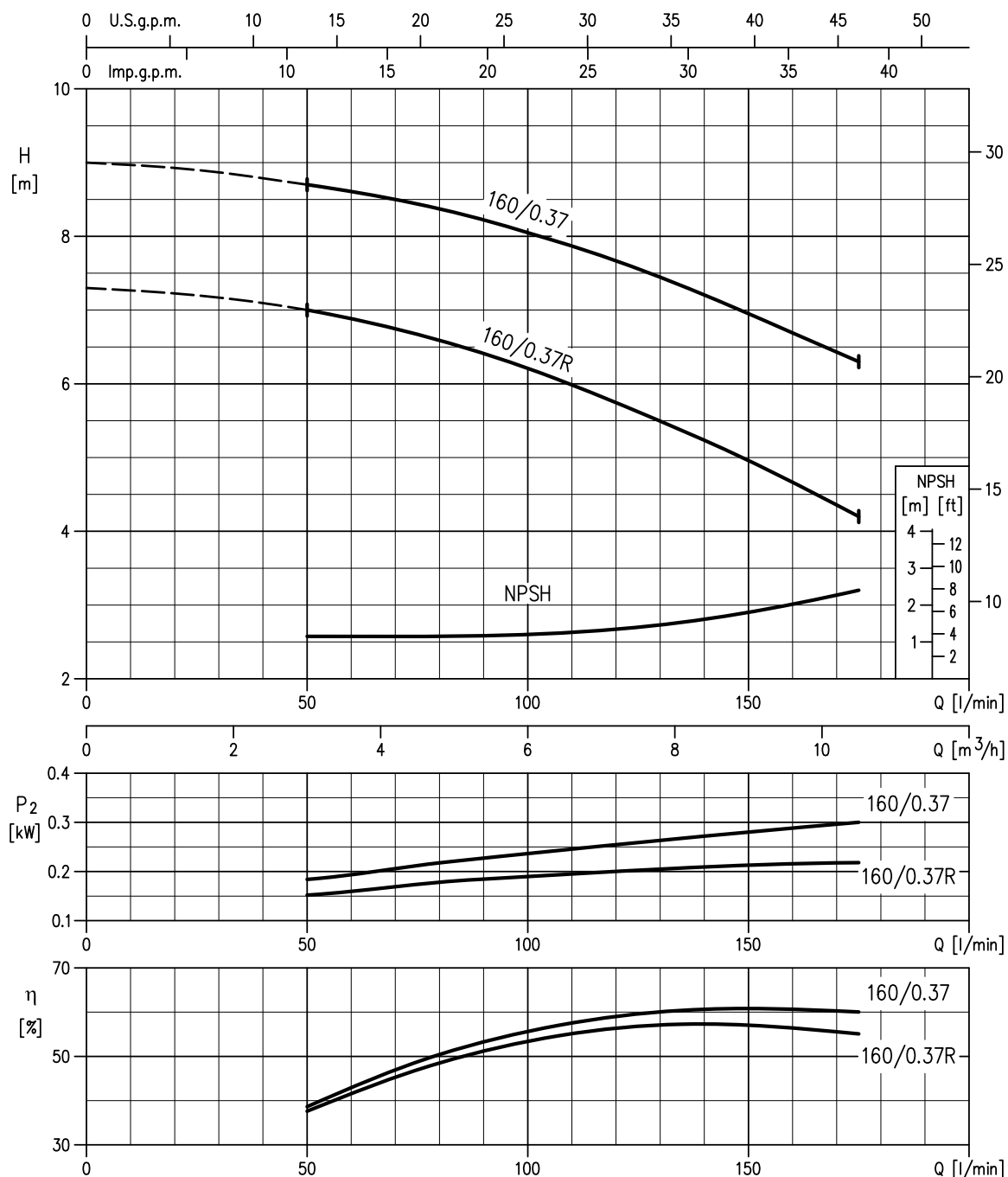
The benchmark for most efficient water pumps is $\text{MEI} \geq 0,70$. Information on benchmark efficiency is Available at: www.ebara-europe.com

The efficiency of a pump with 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 a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system

32-125/0.25 (0.25 kW) MEI >0.5 – impeller diameter = 133 mm

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

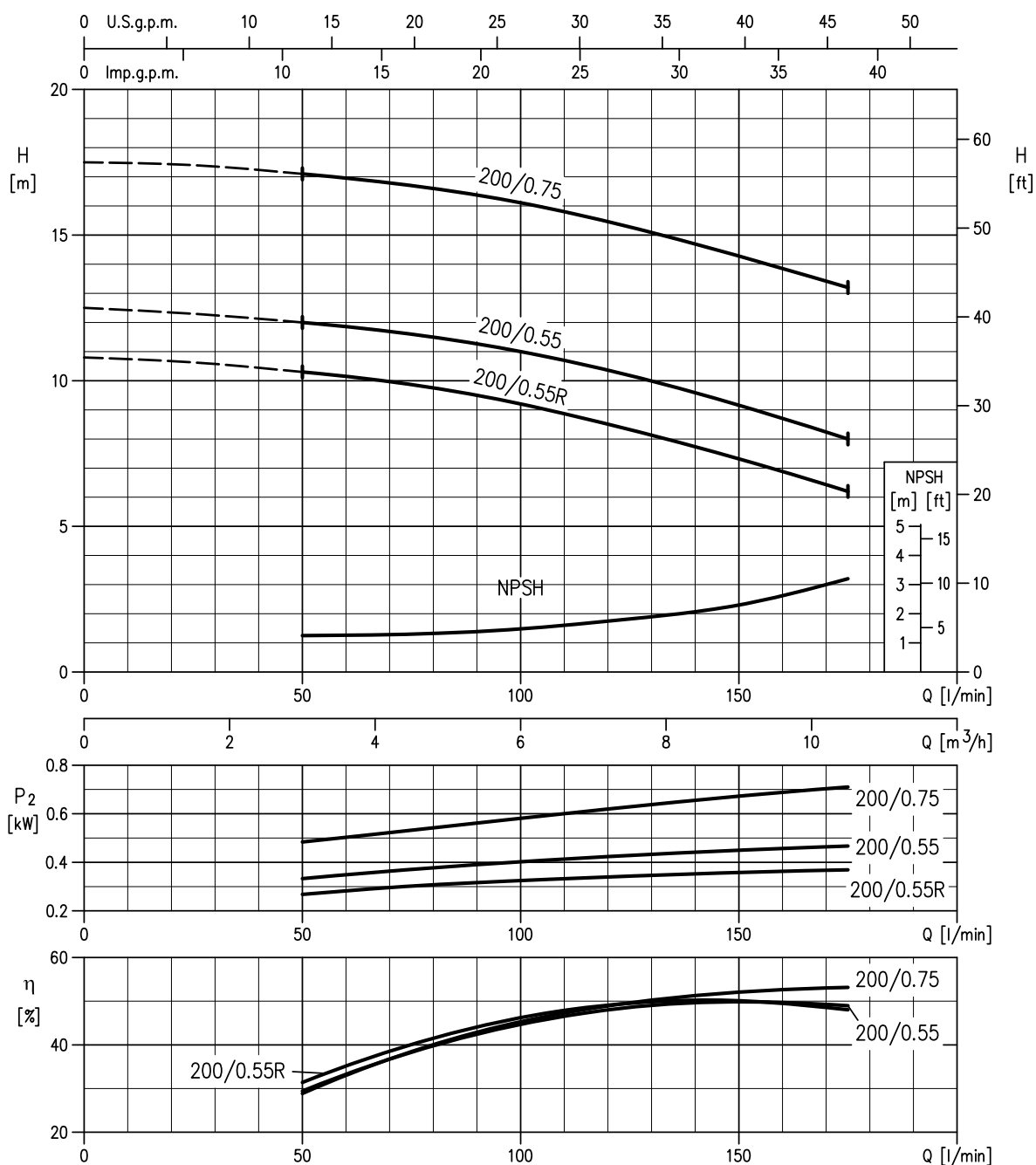
32-160/0.37R (0.37kW) MEI >0.7 – impeller diameter = 151 mm**32-160/0.37 (0.37kW) MEI >0.7 – impeller diameter = 166 mm**

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

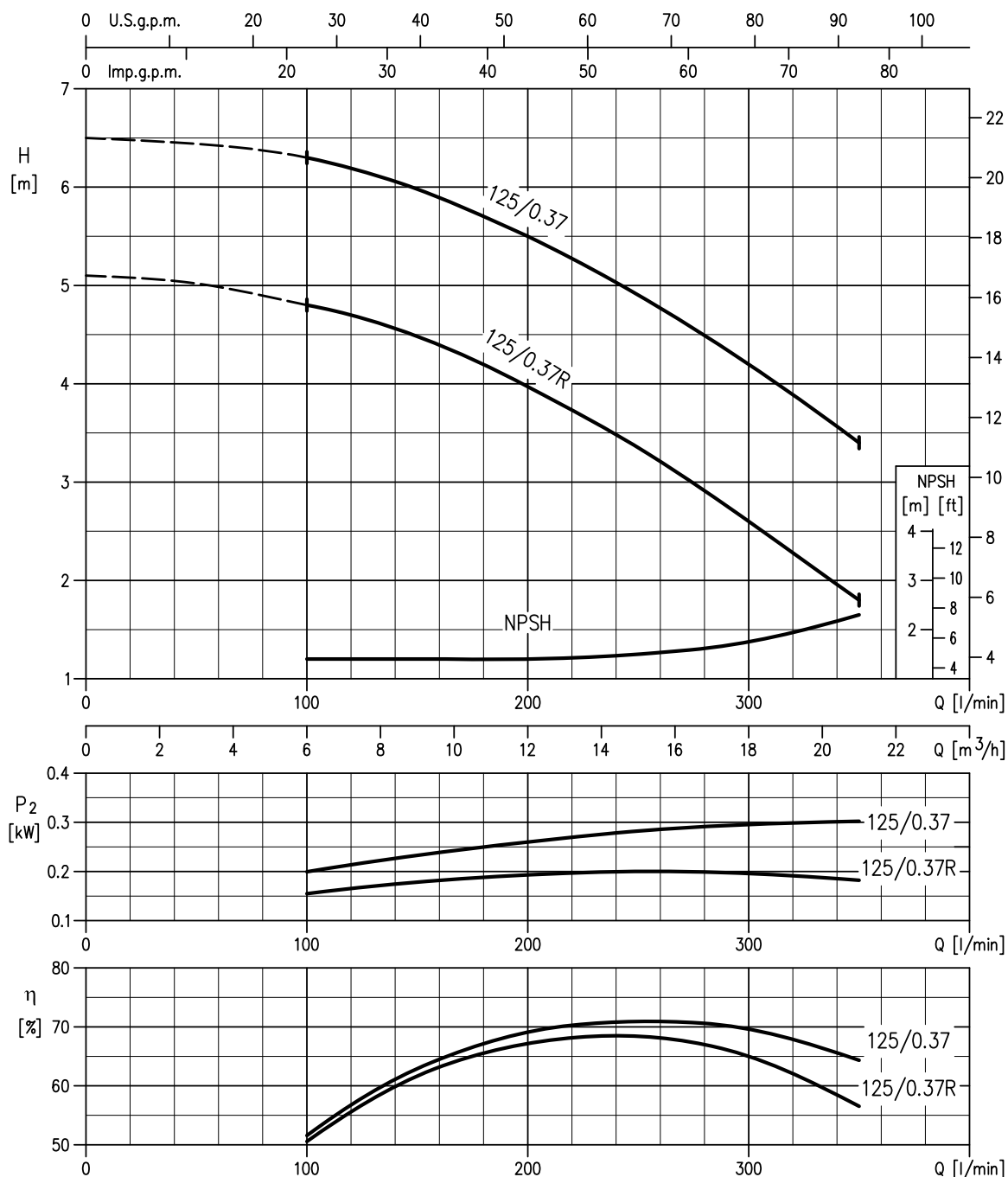
32-200/0.55R (0.55 kW) MEI >0.7 – impeller diameter = 186 mm

32-200/0.55 (0.55kW) MEI >0.7 – impeller diameter = 200 mm

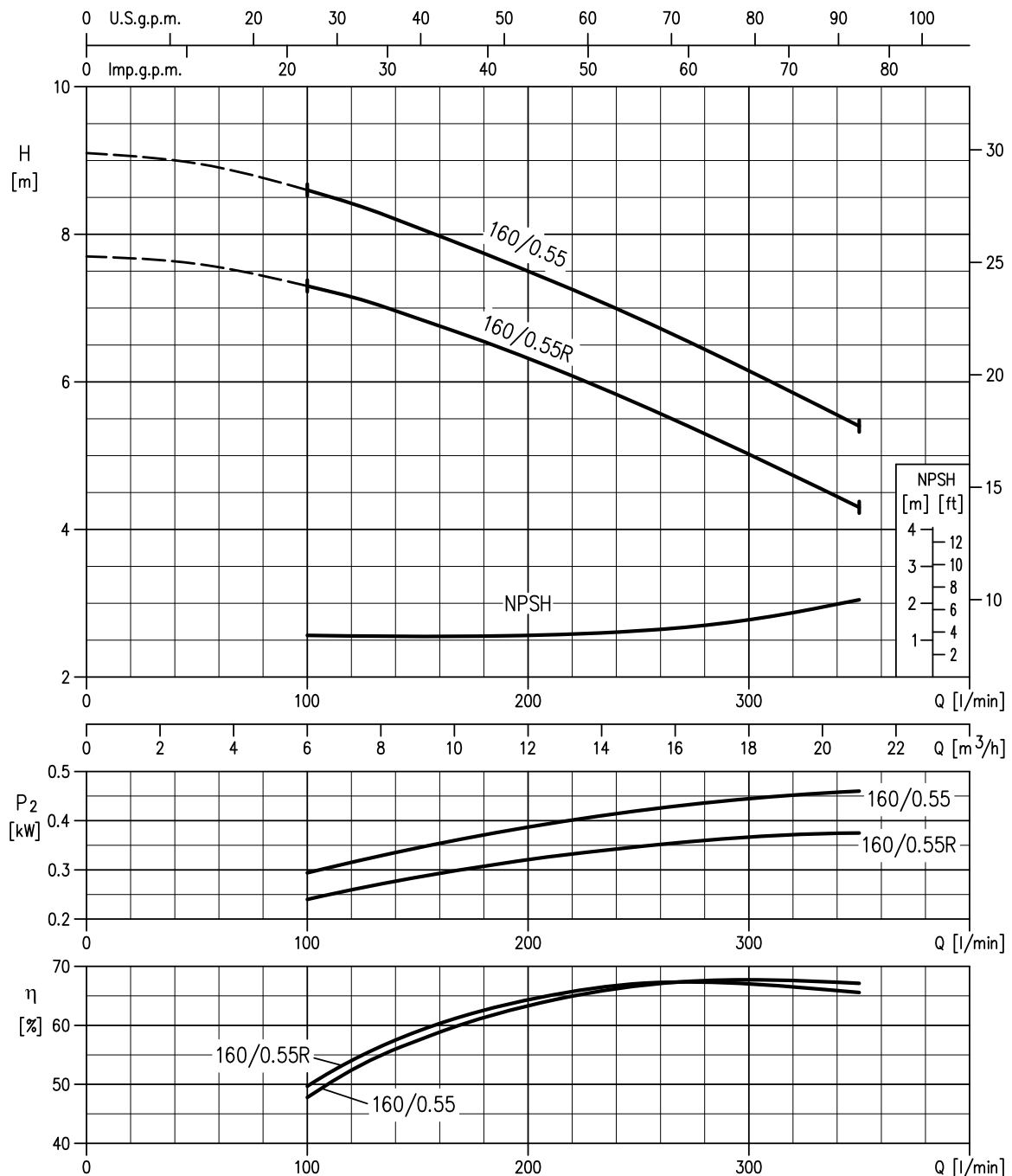
32-200/0.75 (0.55kW) MEI >0.7 – impeller diameter = 224 mm



Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

40-125/0.37R (0.37 kW) MEI >0.7 – impeller diameter = 125 mm**40-125/0.37 (0.37 kW) MEI >0.7 – impeller diameter = 140 mm**

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

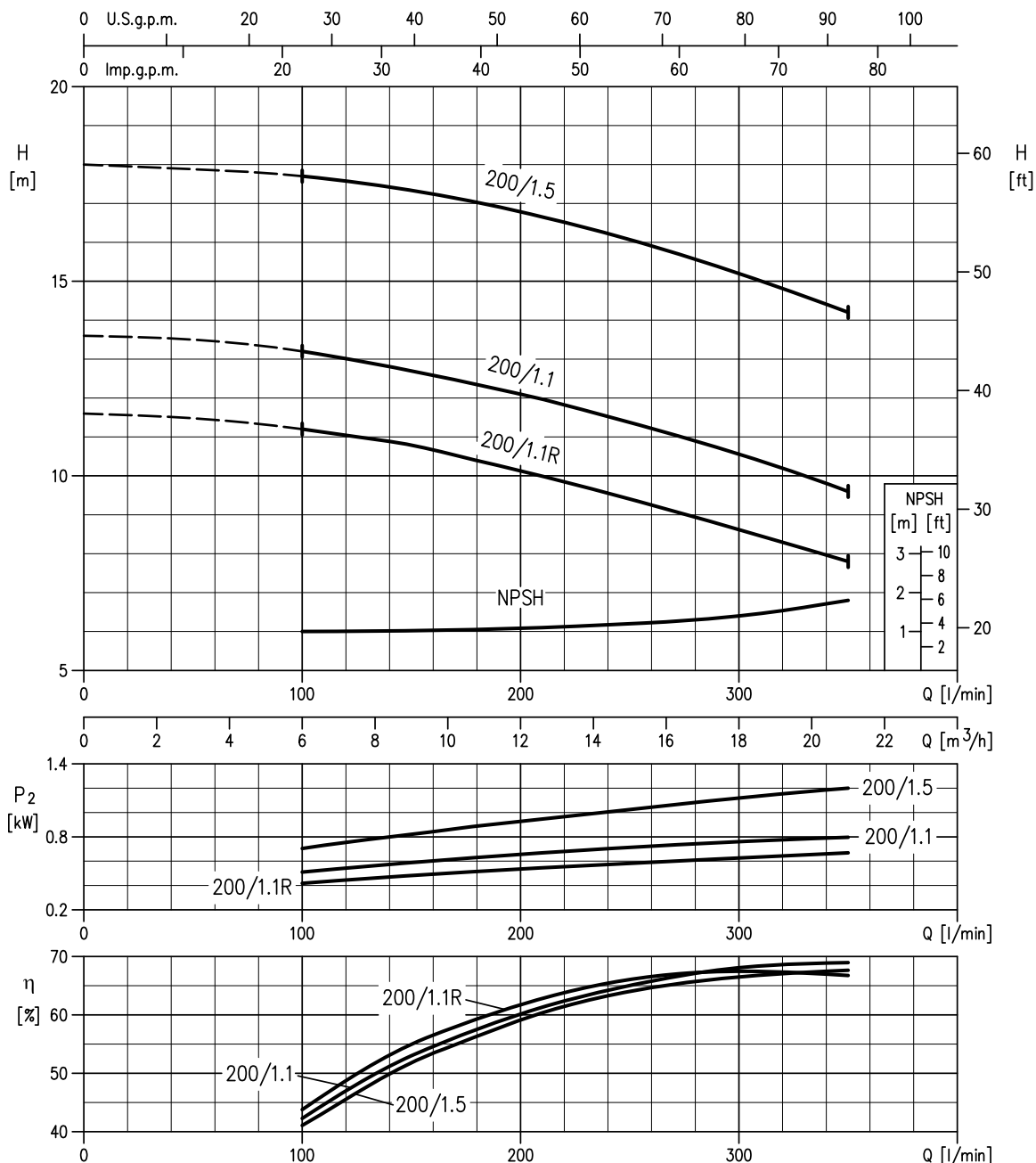
40-160/0.55R (0.55 kW) MEI >0.4 – impeller diameter = 151 mm**40-160/0.55 (0.55 kW) MEI >0.4 – impeller diameter = 166 mm**

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

40-200/1.1R (1.1 kW) MEI >0.7 – impeller diameter = 183 mm

40-200/1.1 (1.1 kW) MEI >0.7 – impeller diameter = 200 mm

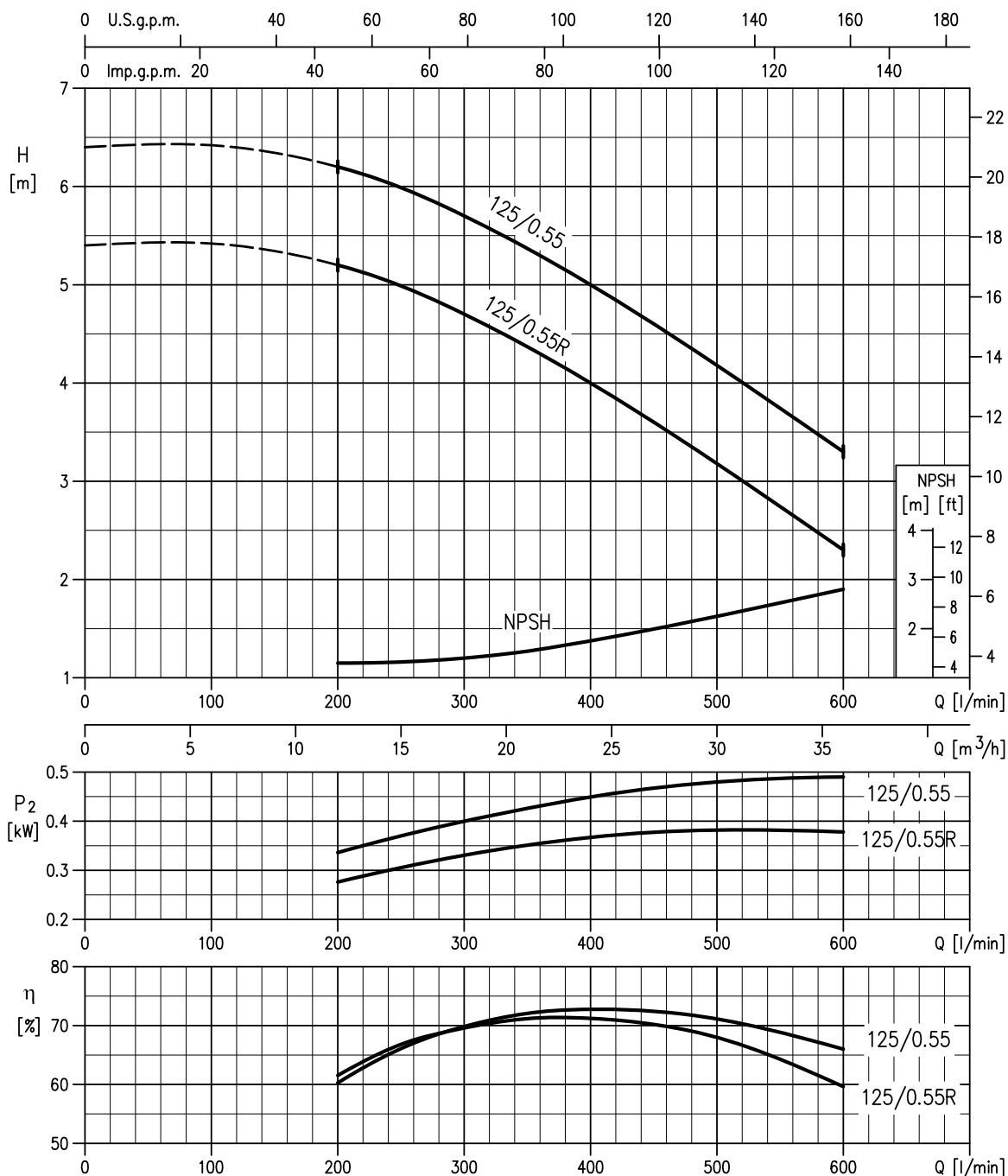
40-200/1.5 (1.5 kW) MEI >0.7 – impeller diameter = 224 mm



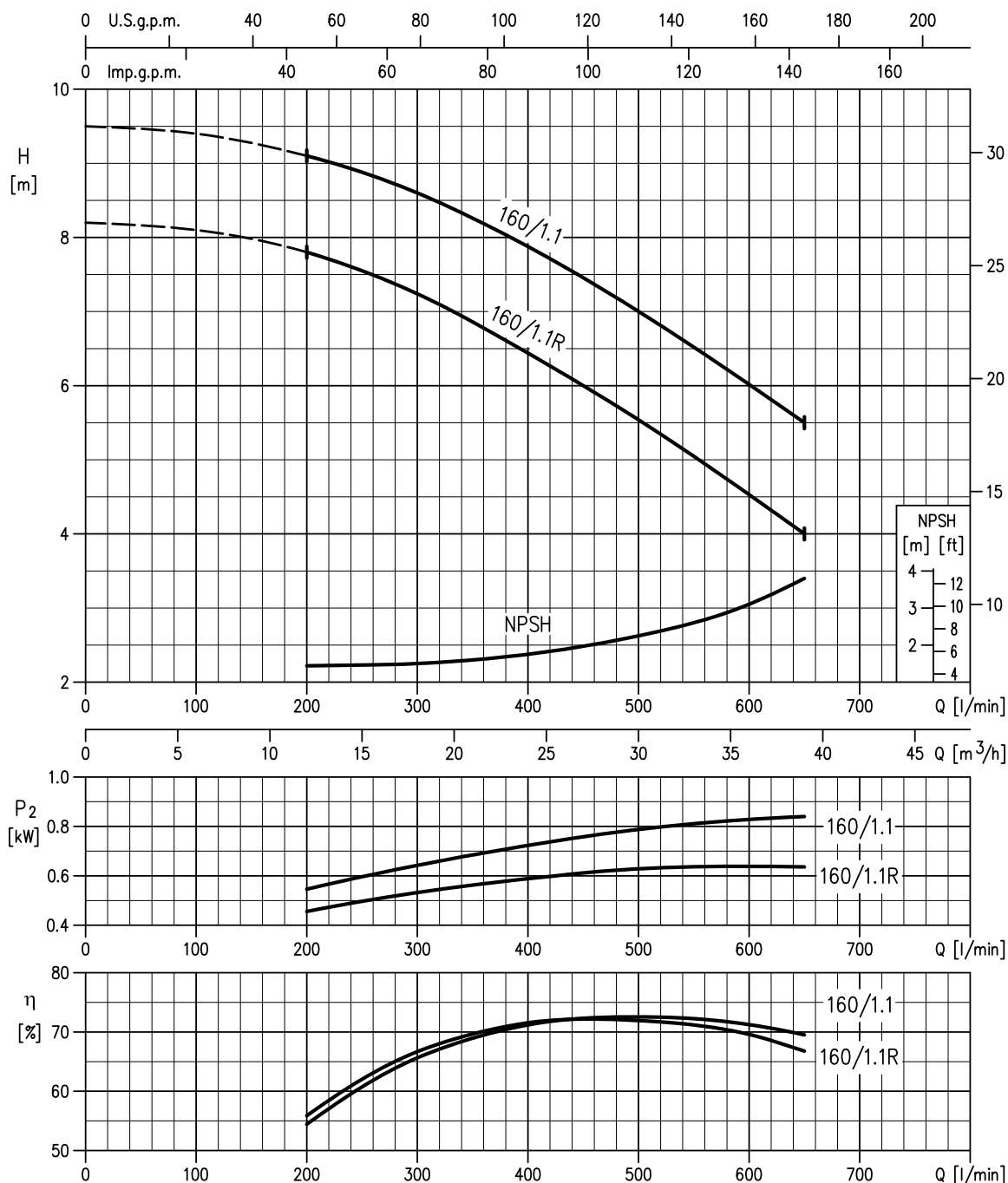
Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

50-125/0.55R (0.55 kW) MEI >0.4 – impeller diameter = 131 mm

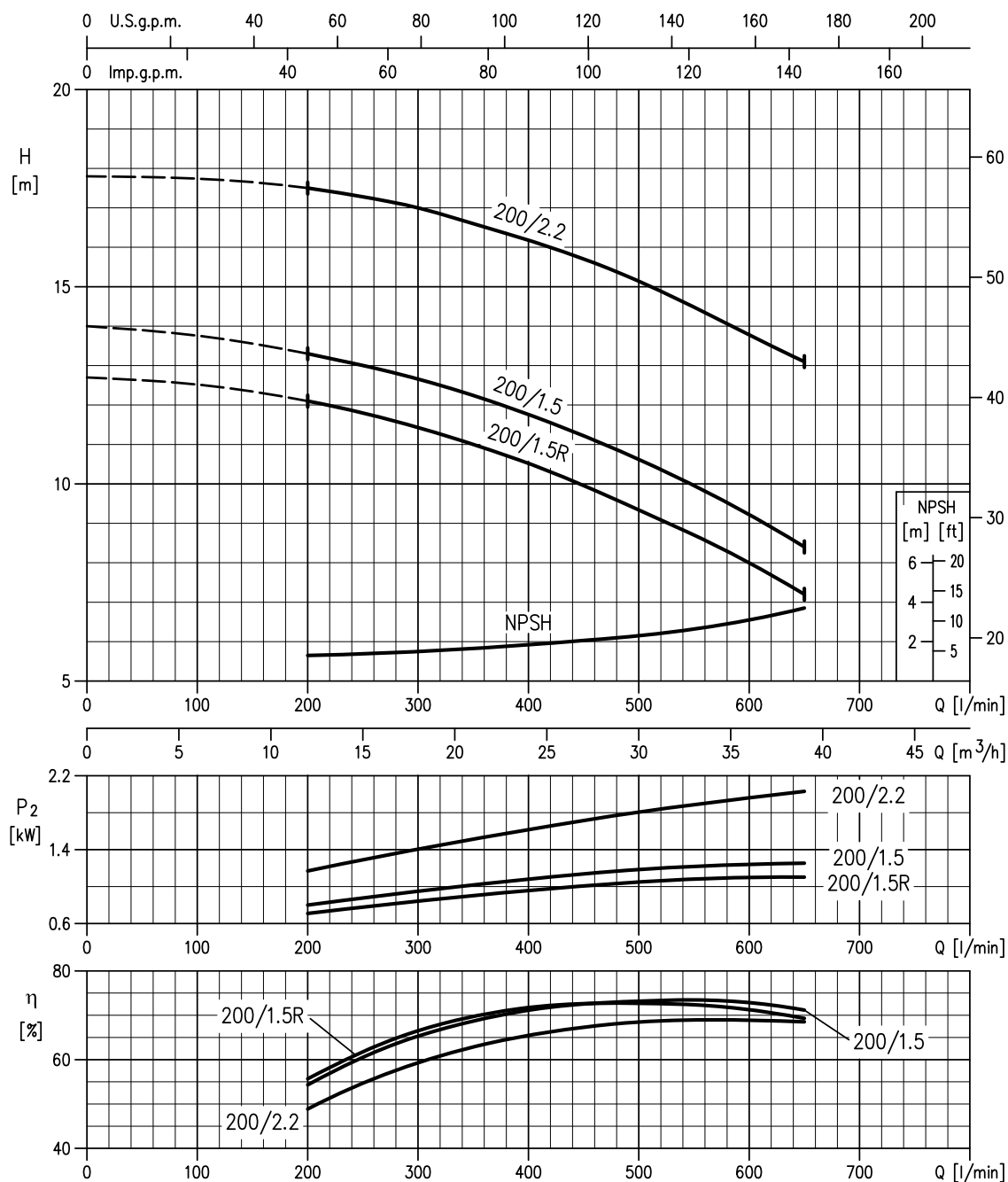
50-125/0.55 (0.55 kW) MEI >0.4 – impeller diameter = 140 mm



Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

50-160/1.1R (1.1 kW) MEI >0.3 – impeller diameter = 154 mm**50-160/1.1 (1.1 kW) MEI >0.3 – impeller diameter = 166 mm**

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

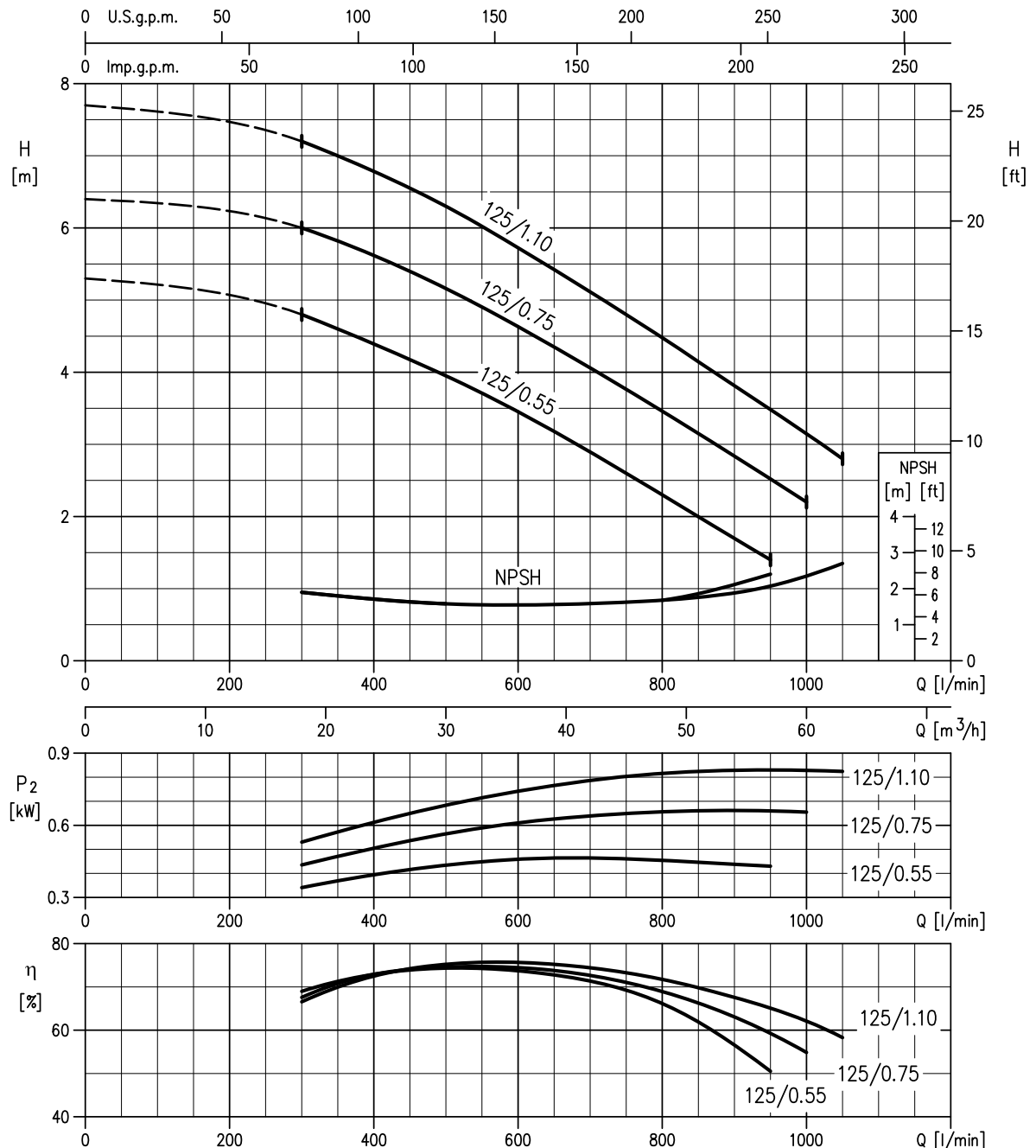
50-200/1.5R (1.5 kW) MEI >0.6 – impeller diameter = 191 mm**50-200/1.5 (1.5 kW) MEI >0.6 – impeller diameter = 200 mm****50-200/2.2 (2.2 kW) MEI >0.6 – impeller diameter = 224 mm**

Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

65-125/0.55 (0.55 kW) MEI >0.5 – impeller diameter = 128 mm

65-125/0.75 (0.75 kW) MEI >0.5 – impeller diameter = 138 mm

65-125/1.1 (1.1 kW) MEI >0.5 – impeller diameter = 149 mm

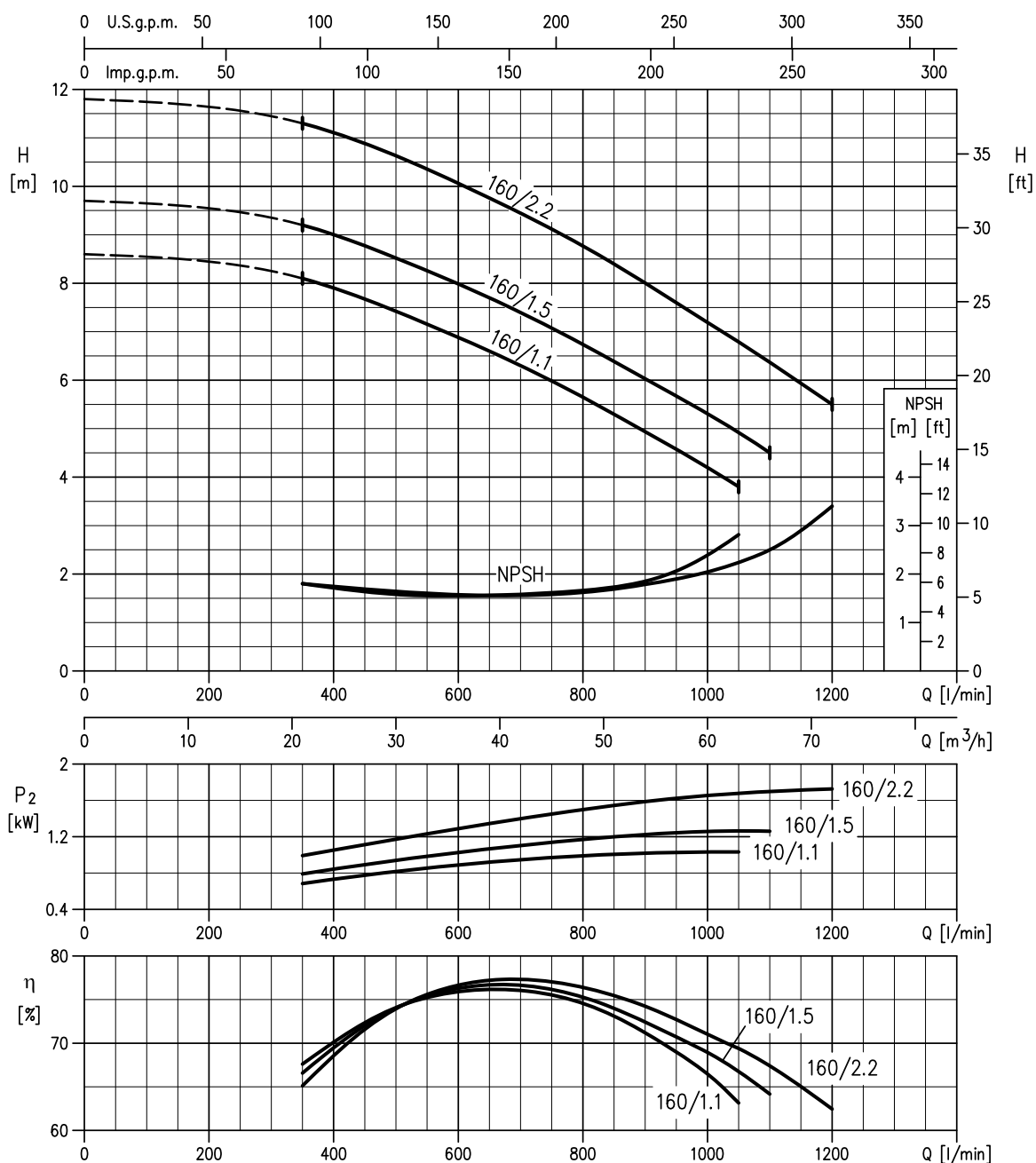


Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

65-160/1.1 (1.1 kW) MEI >0.7 – impeller diameter = 161 mm

65-160/1.5 (1.5 kW) MEI >0.7 – impeller diameter = 168 mm

65-160/2.2 (2.2 kW) MEI >0.7 – impeller diameter = 178 mm

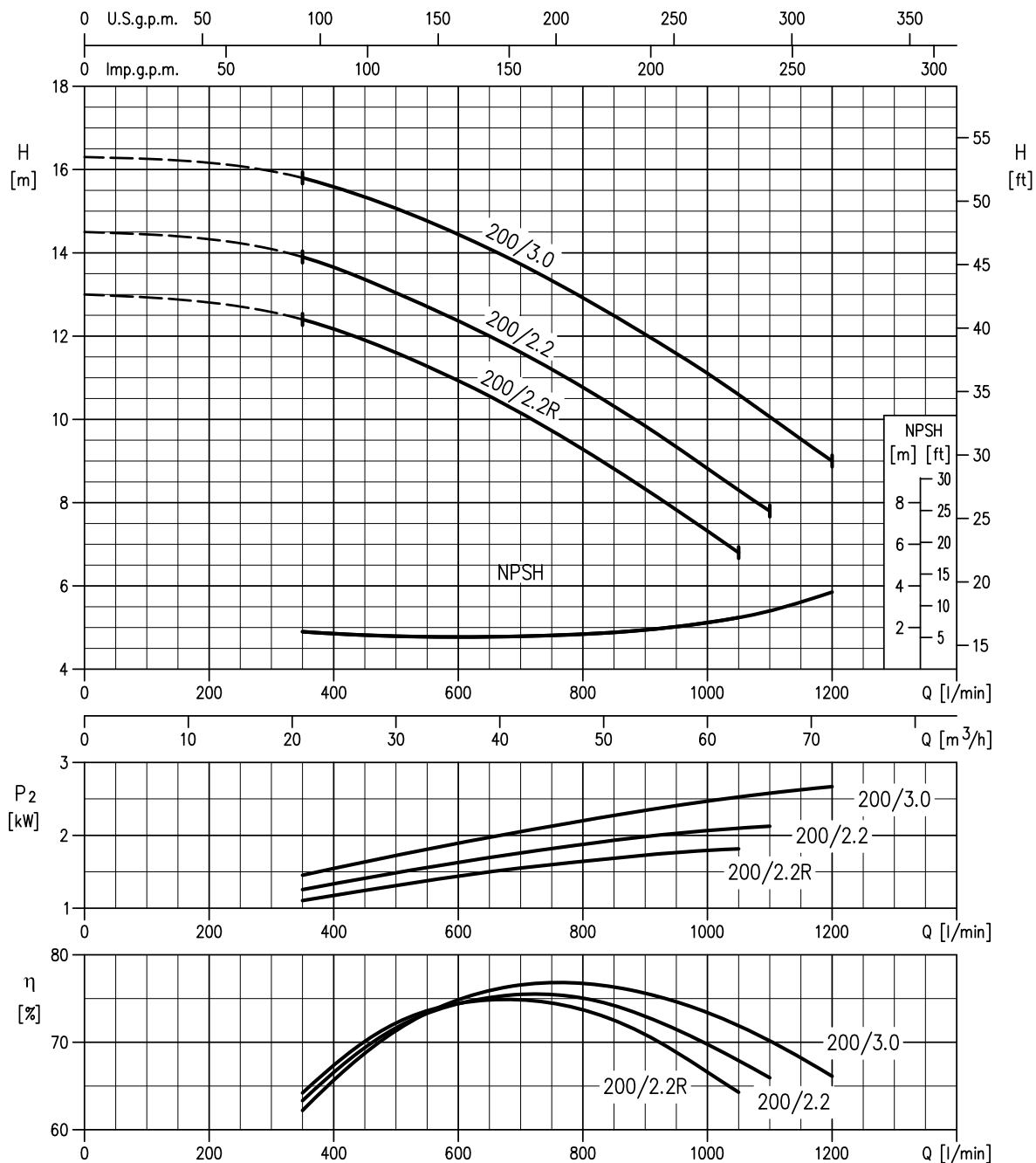


Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

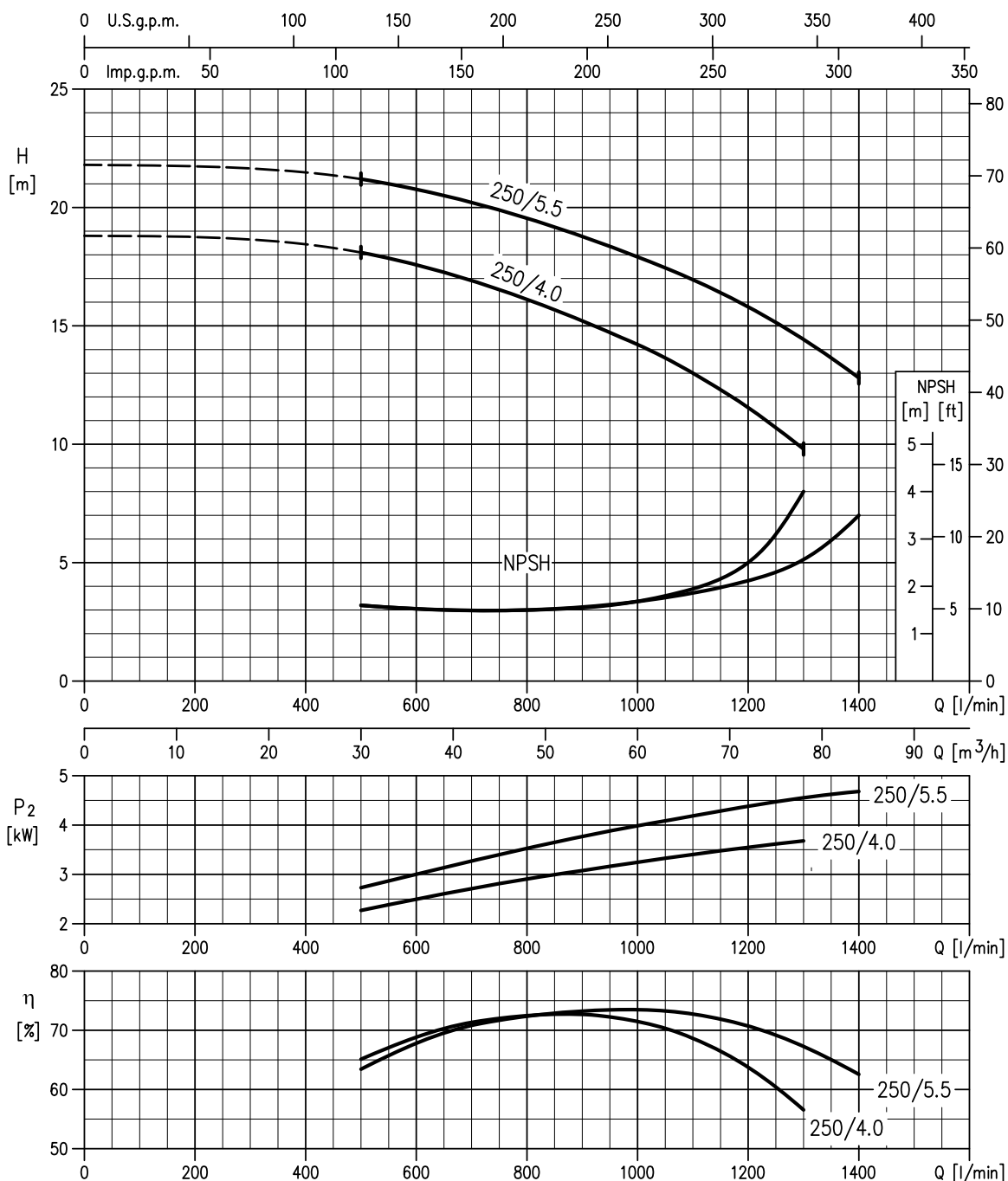
65-200/2.2R (2.2 kW) MEI >0.7 – impeller diameter = 190 mm

65-200/2.2 (2.2 kW) MEI >0.7 – impeller diameter = 201 mm

65-200/3 (3.0 kW) MEI >0.7 – impeller diameter = 212 mm

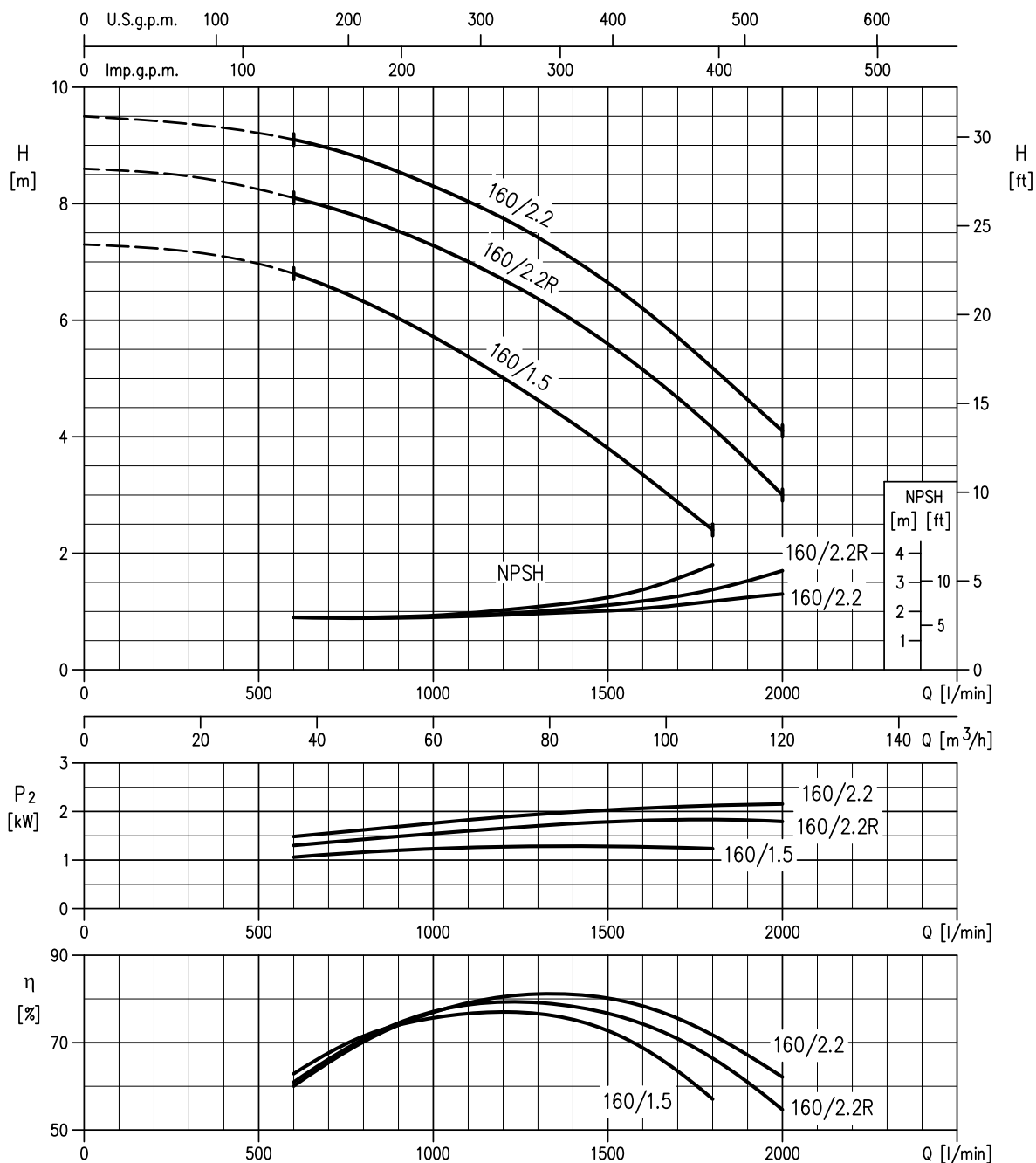


Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

65-250/4 (4.0 kW) MEI >0.5 – impeller diameter = 235 mm**65-250/5.5 (5.5 kW) MEI >0.5 – impeller diameter = 250 mm**

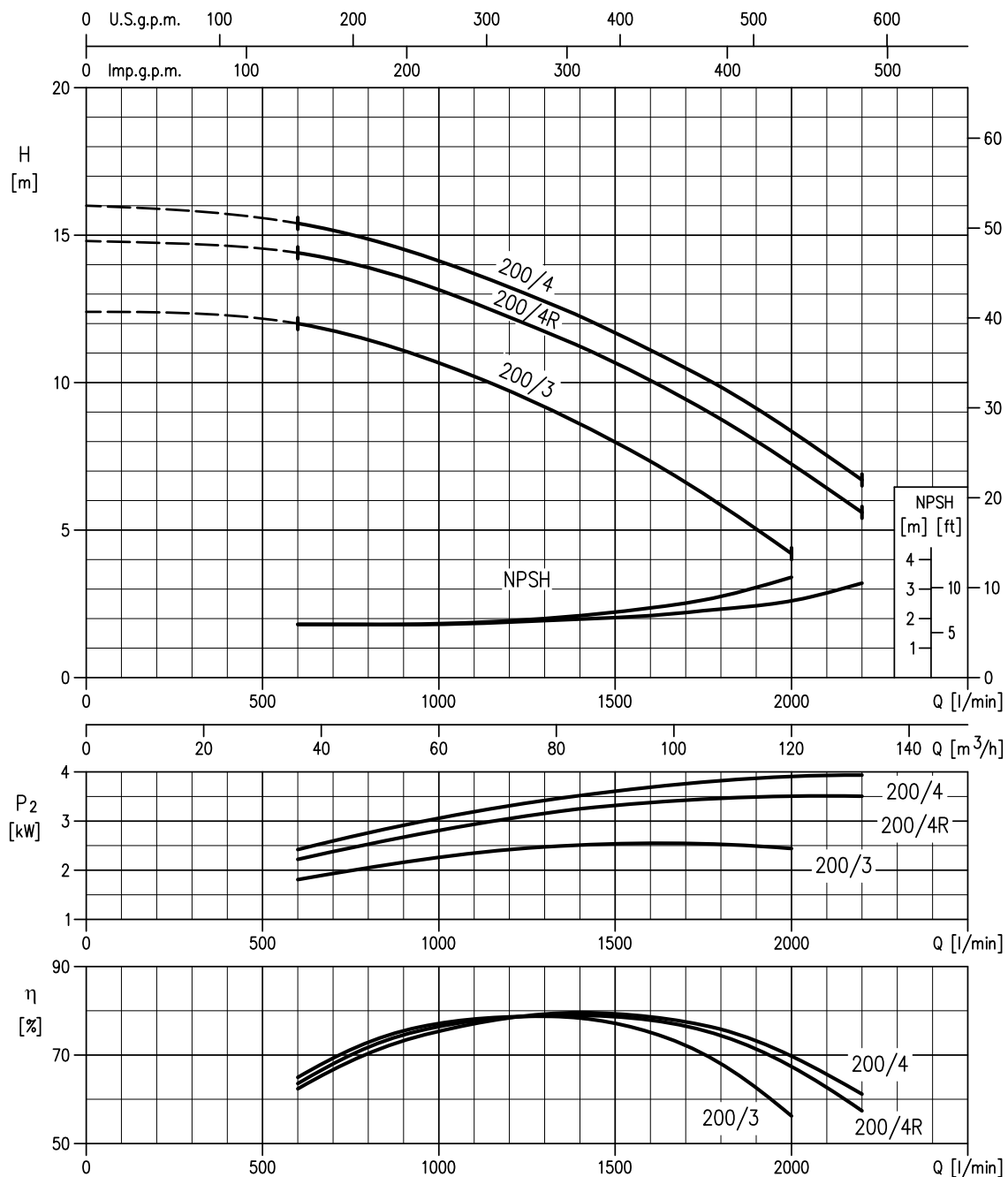
Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

80-160/1.5 (1.5 kW) MEI >0.6 – impeller diameter = 156 mm
 80-160/2.2R (2.2 kW) MEI >0.6 – impeller diameter = 165 mm
 80-160/2.2 (2.2 kW) MEI >0.6 – impeller diameter = 174 mm



Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

80-200/3 (3.0 kW) MEI >0.4 – impeller diameter = 196 mm
 80-200/4R (4.0 kW) MEI >0.4 – impeller diameter = 211 mm
 80-200/4 (4.0 kW) MEI >0.4 – impeller diameter = 219 mm

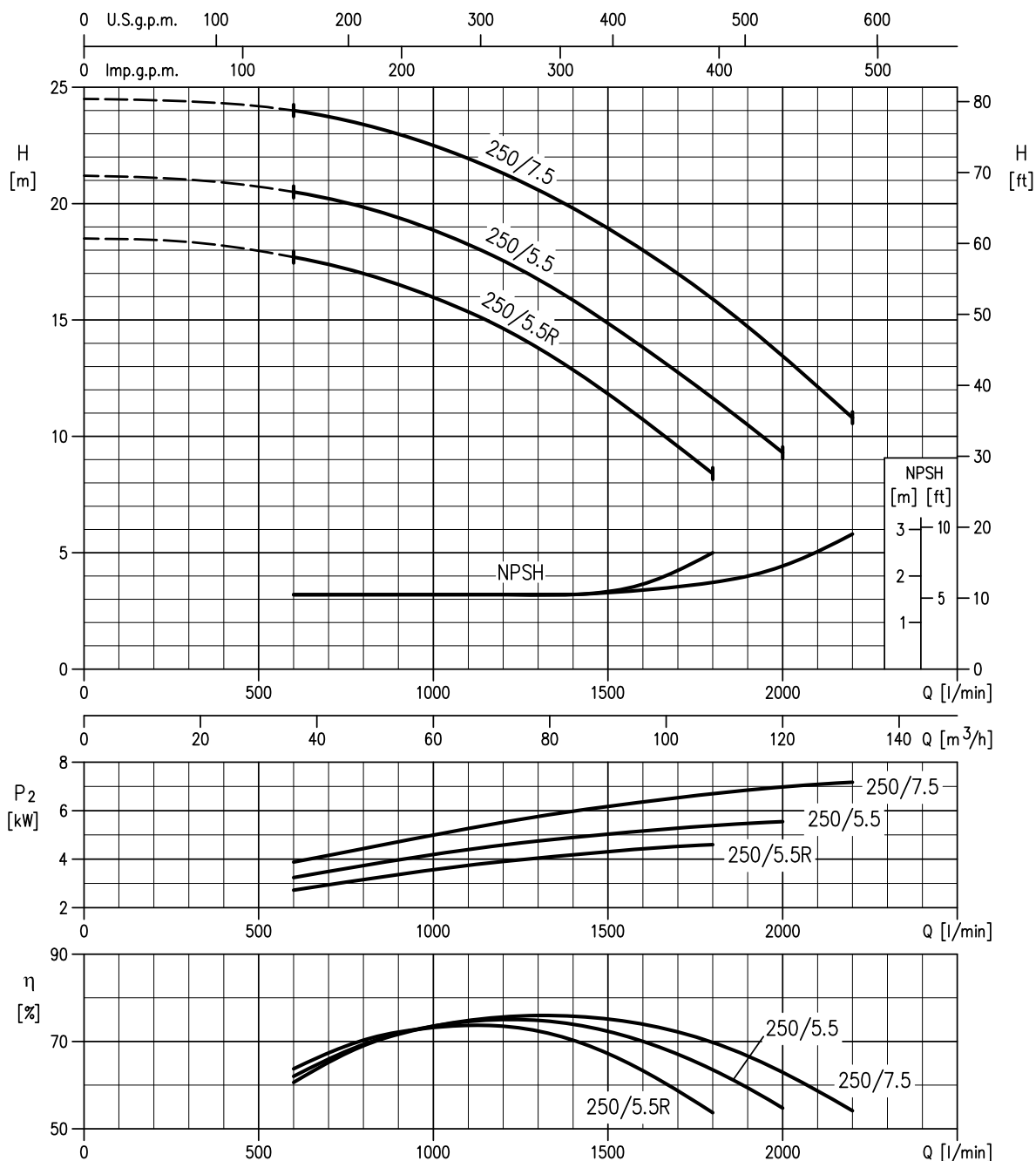


Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

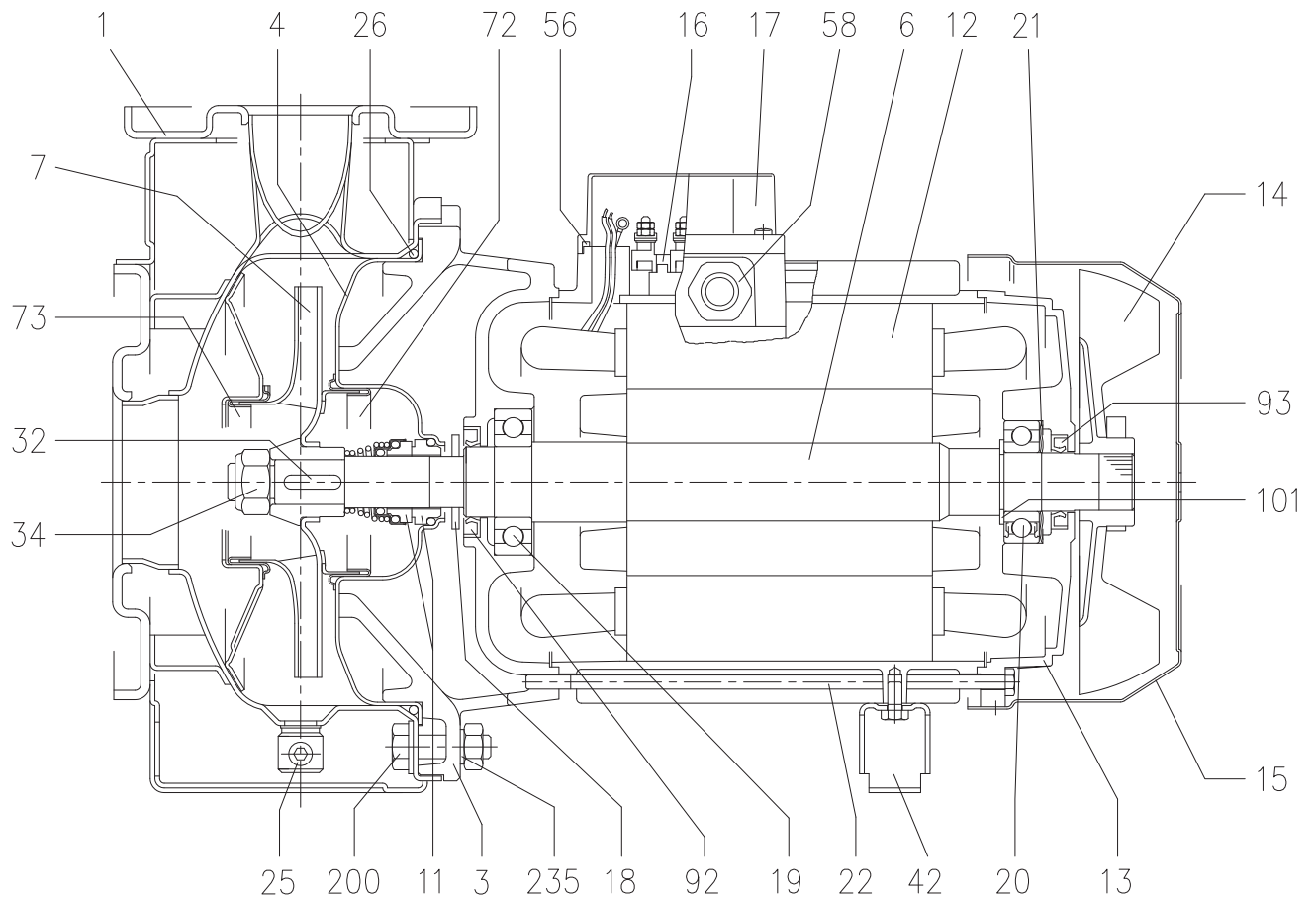
80-250/5.5R (5.5 kW) MEI >0.6 – impeller diameter = 230 mm

80-250/5.5 (5.5 kW) MEI >0.6 – impeller diameter = 246 mm

80-250/7.5 (7.5 kW) MEI >0.6 – impeller diameter = 263 mm



Rotation speed $\approx 1400 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

SECTIONAL VIEW DRAWING 3(.)M4 32, 40, 50, 65-125/160/200

SECTIONAL VIEW TABLE 3(.)M4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3M4	3LM4			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	EN 1.4401 (AISI 316)				
011	Mechanical seal	[3]	Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321+325		1
012	Motor frame with stator		-				1
013	Motor cover		Aluminium				1
014	Fan		PA				1
015	Fan cover		Fe P04 Zinc-coated				1
016	Terminal		-				1
017	Terminal box cover		Aluminium (three phase version)				1
018	Splash ring		NBR	/	40x21.5x3	EBARA DRAWING	1
019	Bearing		-		See table p.319		1
020	Bearing		-		See table p.319		1
021	Adjusting ring		Steel C70				1
022	Tie rod		Fe 42 Zinc-coated		M5	EBARA DRAWING	4
025	Draining plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-160			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
034	Impeller nut	Other models 50-200/2.2	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5 M18x1.5	UNI 7474	1
042	Foot		Aluminium / Zinc-coated steel			EBARA DRAWING	1
056	Box gasket		NBR				1
058	Fasting nut		-				1
072	Casing ring (not for 65 version) [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
092	Lip seal	Up to 1.5kW From 2.2kW to 3kW	-	-	25x40x7 30x47X7	DIN 3760 without spring	1
		For 0.25kW			15x30x5		
093	Lip seal	For 0.37kW and 0.55kW From 0.75 kW to 3kW	-	-	17x32X7 25x40x7	DIN 3760 without spring	1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35		[2]
235	Washer	32-125, 40-125	EN 1.4301 (AISI 304)		8.4x17	UNI 6592	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			10.5x21		[2]

Counterflange kit on request, see table p. 328-329

[1] For version 32-200, 40-200, 50-160, 50-200

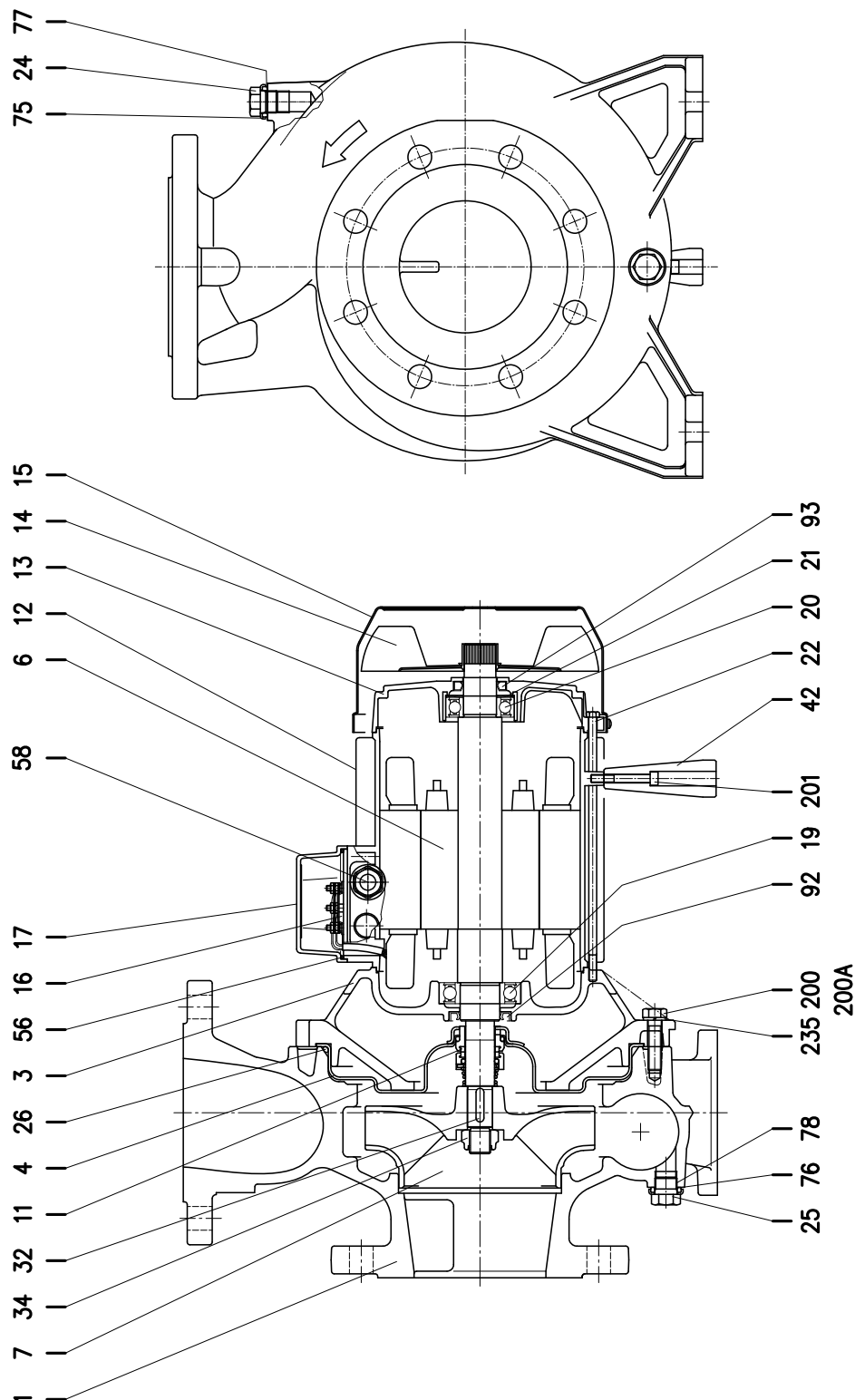
[2] Quantity = 10 for 32-160, 40-160, 50-125, 65-125

Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[3] Special version: see page 321 and following

[4] FPM (H-HS-HW-HSW version)

EPDM (E version)

SECTIONAL VIEW DRAWING 3LM4 80-160

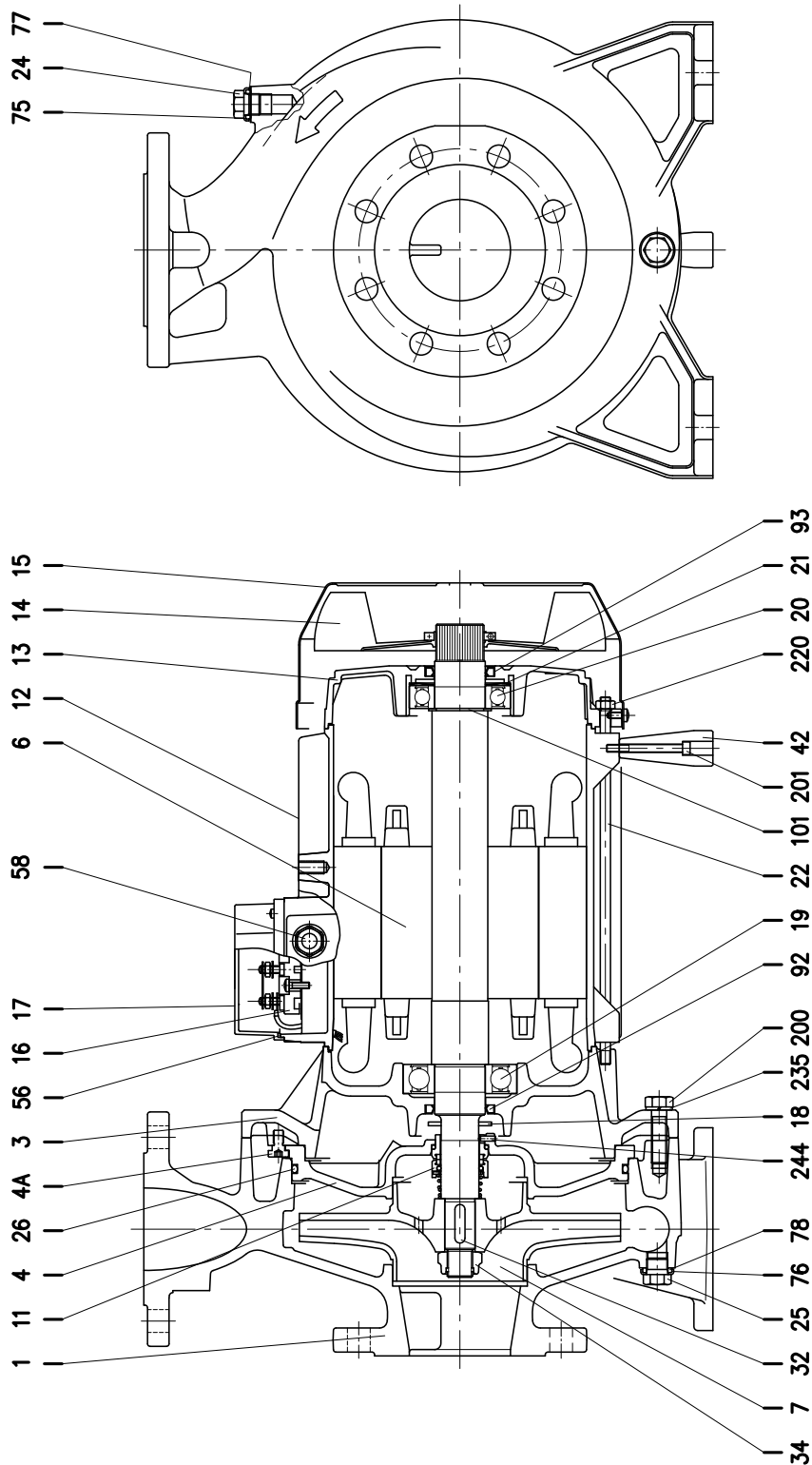
SECTIONAL VIEW TABLE 3LM4 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI 316L)			1
006	Shaft with rotor	EN 1.4404(AISI 316L) -Part in contact with liquid			1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [1]	SiC/SiC/FPM	See p. 321÷325		1
012	Motor frame with stator	-			1
013	Motor cover	Aluminium			1
014	Fan	PA			1
015	Fan cover	Fe P04 Zinc-coated			1
016	Terminal	-			1
017	Terminal box cover	Aluminium			1
019	Bearing	-	See table p. 319		1
020	Bearing	-	See table p. 319		1
021	Adjusting ring	Steel C70			1
022	Tie rod	Fe 42 Zinc-coated			4
024	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
026	"O" ring	FPM	227.96x5.34	OR 6895	1
032	Key	EN 1.4404 (AISI 316L)	6x6x25	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
042	Foot	Aluminium		EPE DRAWING	1
056	Box gasket	NBR			1
058	Fasting nut	-			1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [2]			1
078	O-ring (plug)				1
092	Lip seal 1.5 kW 2.2 kW	-	25x40x7	DIN 3760 without spring	1
			30x47x7		
093	Lip seal	-	25x40x7		1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
201	Screw 1.5 kW 2.2 kW	Stainless steel A2-70 class ISO 3506/1	M 6x40	UNI 5739	1
			M 12x40		4
235	Washer	EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request, see p. 328-329

[1] Special version: see page 321 and following

[2] EPDM (E version)

SECTIONAL VIEW DRAWING 3LM4 65-250, 80-200/250

SECTIONAL VIEW TABLE 3LM4 65-250, 80-200/250

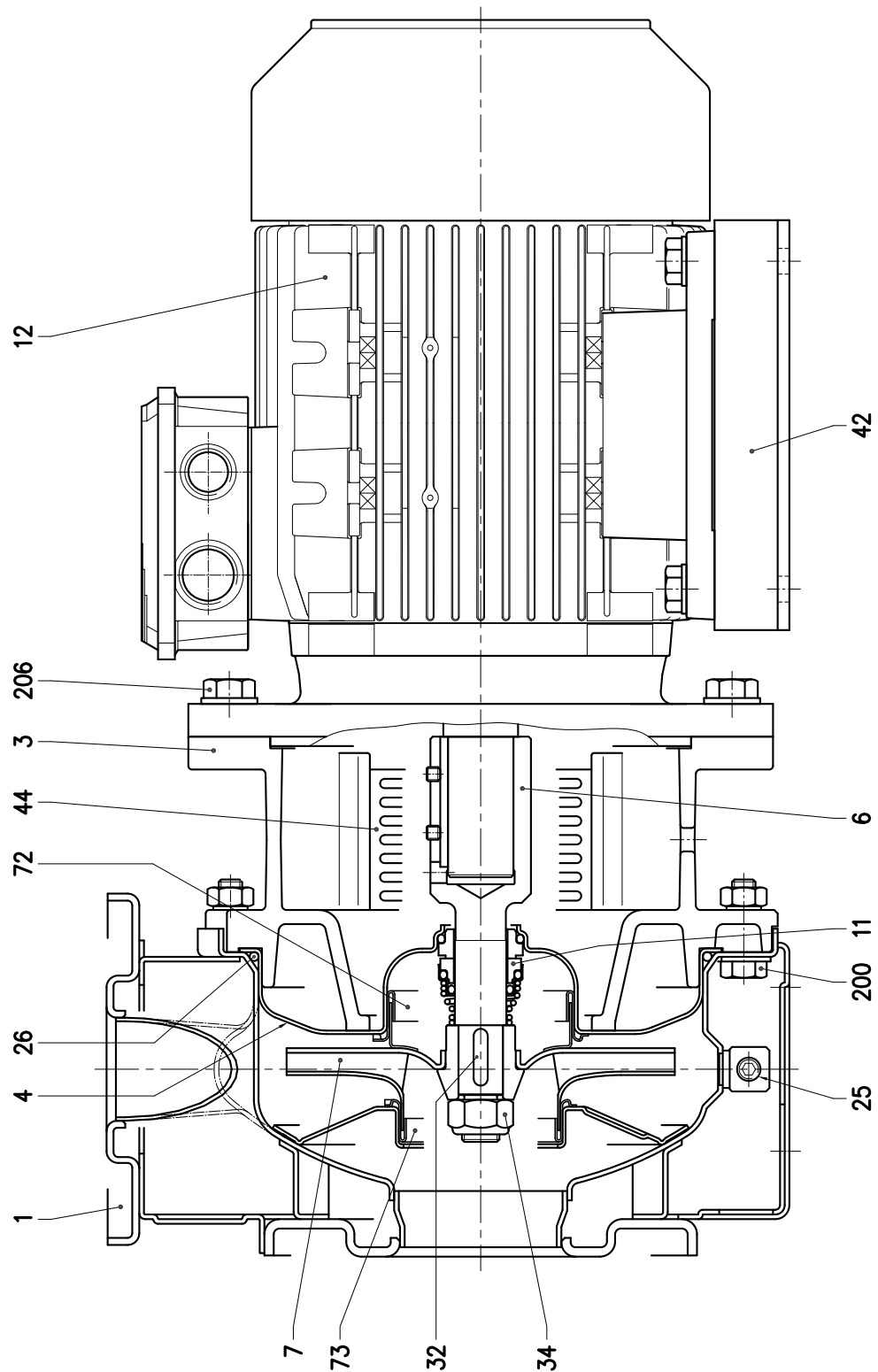
N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4401 (AISI 316)			1
004A	Screw for casing cover	EN 1.4301 (AISI 304)			2
006	Shaft with rotor	EN 1.4404(AISI 316L) -Part in contact with liquid			1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [2]	SiC/SiC/FPM	See p. 321÷325		1
012	Motor frame with stator	-			1
013	Motor cover	Aluminium			1
014	Fan	PA			1
015	Fan cover	Fe P04 Zinc-coated			1
016	Terminal	-			1
017	Terminal box cover	Aluminium			1
018	Splash ring	NBR	50x29.5x3	EPE DRAWING	1
019	Bearing	-	See table p. 319		1
020	Bearing	-	See table p. 319		1
021	Adjusting ring	Steel C70			1
022	Tie rod	Fe 42 Zinc-coated			4
024	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
026	"O" ring	FPM	227.96x5.34	OR 6895	1
032	Key	EN 1.4404 (AISI 316L)	8x7x30	UNI 6604	1
034	Impeller nut	Aluminium	M20x1.5	UNI 7474	1
042	Foot	Aluminium		EPE DRAWING	1
056	Box gasket	NBR			1
058	Fastening nut	-			1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [3]			1
078	O-ring (plug)				1
092	Lip seal	-	30x47x7	DIN 3760 without spring	1
			40x55x7		
093	Lip seal	-	25x40x7	DIN 3760 without spring	1
			30x47x7		
			40x55x7		
101	Snap ring (only 5.5 kW)	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
201	Screw	Stainless steel A2-70 class ISO 3506/1	M 6x12	UNI 5739	1
			M 6x45		
			M 6x60		
220	Nut for tie rod (only 5.5 kW)	Zincked steel	M8		4
235	Washer	EN 1.4301(AISI 304)	13	UNI 8842	10
244	Pin [1]	EN 1.4301(AISI 304)	4x12		1

Counterflange kit on request, see table p. 328-329

[1] Not for H, HW, HSW and E options

[2] Special version: see page 321 and following

[3] EPDM (E version)

SECTIONAL VIEW DRAWING 3(.).S4 32, 40, 50, 65-125/160/200

SECTIONAL VIEW TABLE 3(.)S4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3S4	3LS4			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table p. 326		1
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	EN 1.4401 (AISI 316)				
011	Mechanical seal	[4]	Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321+325		1
012	Motor		-				1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [5]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
034	Impeller nut	Other model	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
042	Foot		Zinc-coated steel				[1]
044	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	2
072	Casing ring (not for 65 version) [2]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	
206	Screw	up to 0.37kW	Zn. Steel 8.8 strenght class ISO 898/1		M 8x20	UNI 5739	4
		from 0.55 to 1.5kW			M 10x25		
		for 2.2 and 3kW			M 12x30		

Counterflange kit on request see p. 328-329

[1] Quantity = 1 up to 1.5kW

Quantity = 2 for 2.2 and 3kW

[2] Only for version 32-200, 40-200, 50-160, 50-200

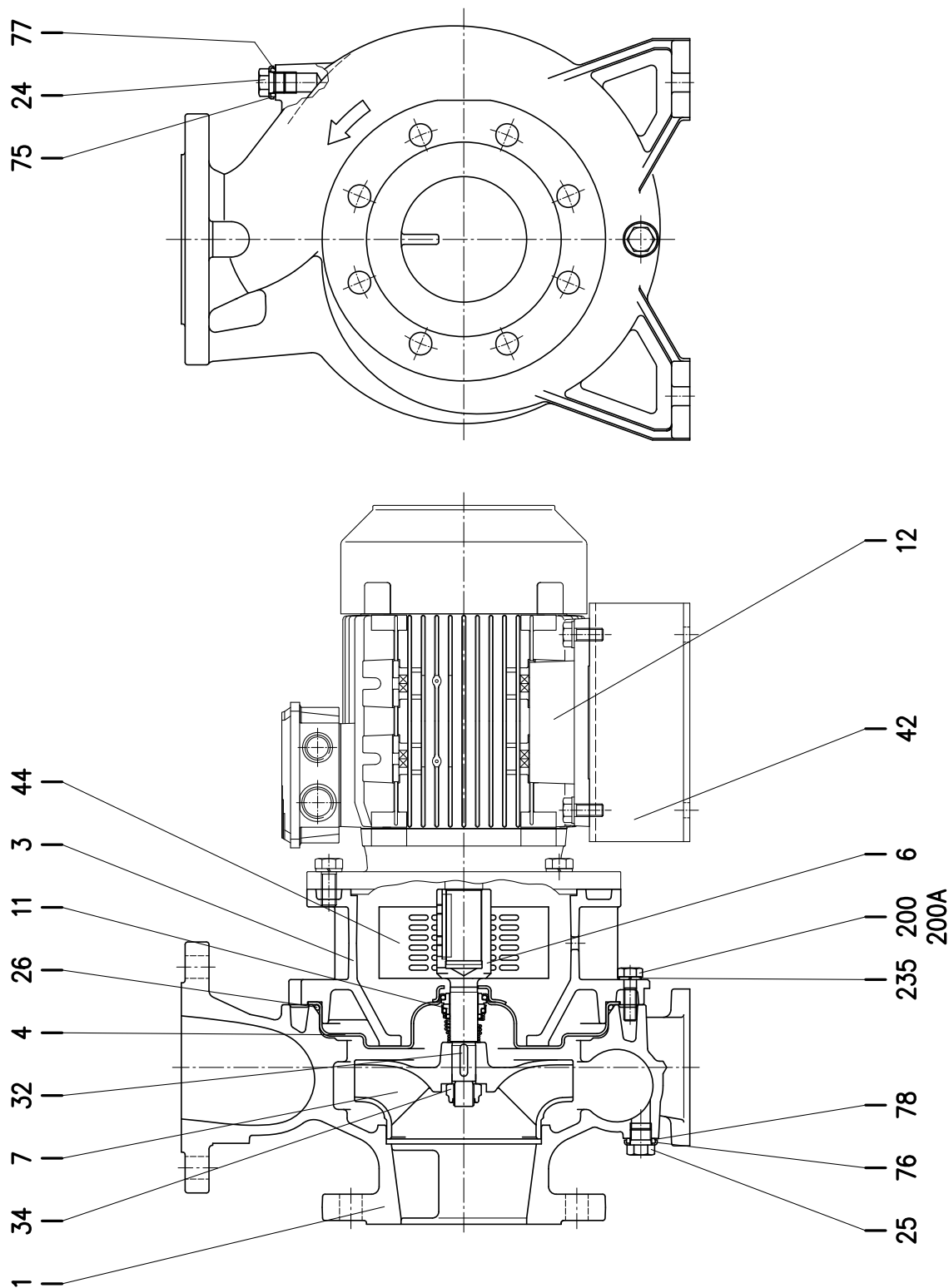
[3] Quantity = 10 for 32-160, 40-160, 50-125, 65-125

Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[4] Special version: see page 321 and following

[5] FPM (H-HS-HW-HSW version)

EPDM (E version)

SECTIONAL VIEW DRAWING 3LS4 80-160

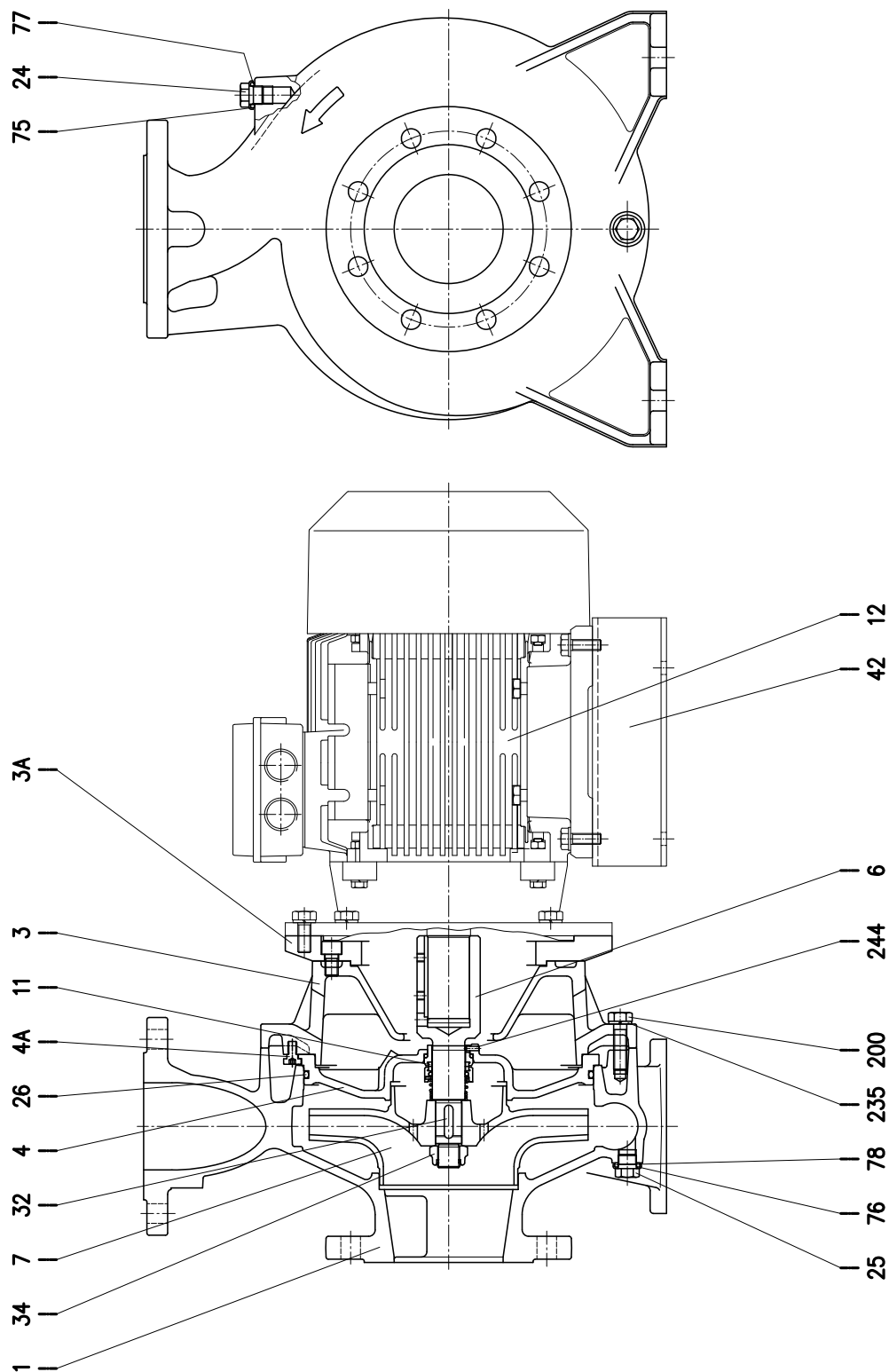
SECTIONAL VIEW TABLE 3LS4 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI 316L)			1
006	Coupling	EN 1.4404 (AISI 316L)	See table p. 326		1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [1]	SiC/SiC/FPM	See p. 321÷325		1
012	Motor	-			1
024	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM EPDM (E option)	227.96x5.34	OR 6895	1
032	Key	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
042	Foot	Zinc-coated steel		EPE DRAWING	1
044	Protection	EN 1.4301 (AISI 304)		EPE DRAWING	2
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [2]			1
078	O-ring (plug)				1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
235	Washer	EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request, see table p. 328-329

[1] Special version: see page 321 and following

[2] EPDM (E version)

SECTIONAL VIEW DRAWING 3LS4 65-250, 80-200/250

SECTIONAL VIEW TABLE 3LS4 65-250, 80-200/250

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4401 (AISI 316)			1
004A	Screw for casing cover	EN 1.4301(AISI 304)			2
006	Coupling	EN 1.4404 (AISI 316L)	See table p. 326		1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷325		1
012	Motor	-			1
024	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM EPDM (E version)	253.36x5.34	OR 6995	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Foot for motor	Zincked steel		EPE DRAWING	1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				
077	O-ring (plug)	FPM [4]			1
078	O-ring (plug)				1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	EN 1.4301(AISI 304)	13	UNI 8842	10
244	Pin [2]	EN 1.4301(AISI 304)	4x12		1

Counterflange kit on request, see table p. 328-329

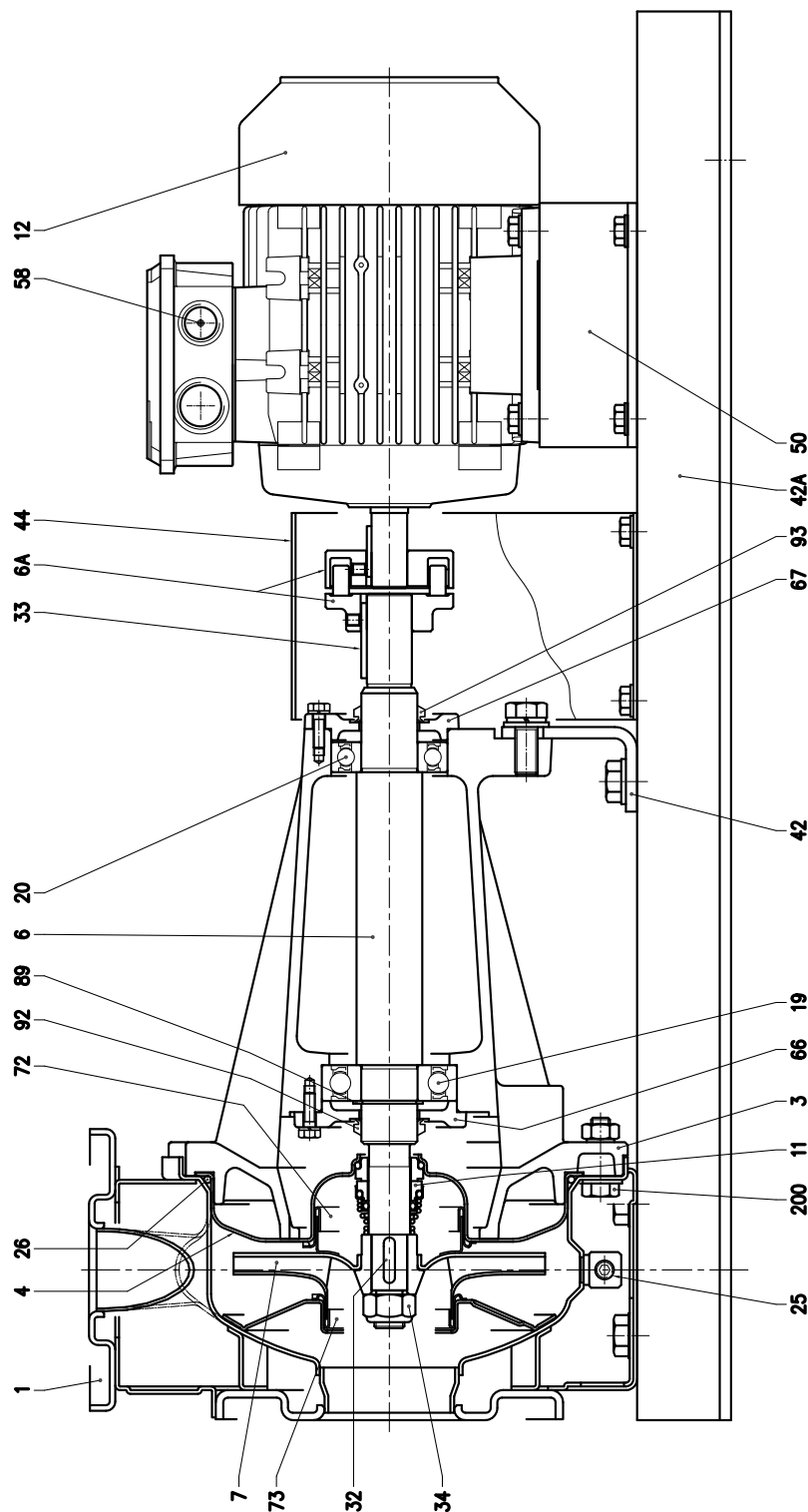
[1] Only for 65-250/5.5 kW

[2] Not for H, HW, HSW and E options

[3] Special version: see page 321 and following

[4] EPDM (E version)

SECTIONAL VIEW DRAWING 3(.)P4 32, 40, 50, 65-125/160/200



SECTIONAL VIEW TABLE 3(.)P4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3P4	3LP4			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Support		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Shaft - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006 A	Flexible coupling		Cast iron EN-GJL-250-EN 1561		See table pag. 327		1
007	Impeller	32-40-50 65-125/160/200	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
			EN 1.4401 (AISI 316)				
011	Mechanical seal	[3]	Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321+325		1
012	Motor		-				1
019	Bearing		-		See table p. 320		1
020	Bearing		-		See table p. 320		1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
033	Key		C 40		8x7x40	UNI 6604	1
034	Impeller nut	Other model	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
042	Pump support		Zinc-coated steel			EBARA DRAWING	1
042 A	Base		Zinc-coated steel				1
044	Protection		Zinc-coated steel				1
050	Foot		Zinc-coated steel				1
058	Fasting nut		-				1
066	Impeller side bearing cover		Cast iron EN-GJL-200-EN 1561				1
067	Motor side bearing cover		Cast iron EN-GJL-200-EN 1561				1
072	Casing ring (not for 65 version) [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
089	Snap ring	32-125, 32-160, 40-125, 50-125	Carbon tool steel TC 80		Ø30	UNI 7435	1
		Other model			Ø40		
092	"V" ring		-		VS - 0030		1
093	"V" ring		-		VS - 0030		1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[2]

Counterflange kit on request see p. 328-329

[1] For version: 32-200, 40-200, 50-160, 50-200

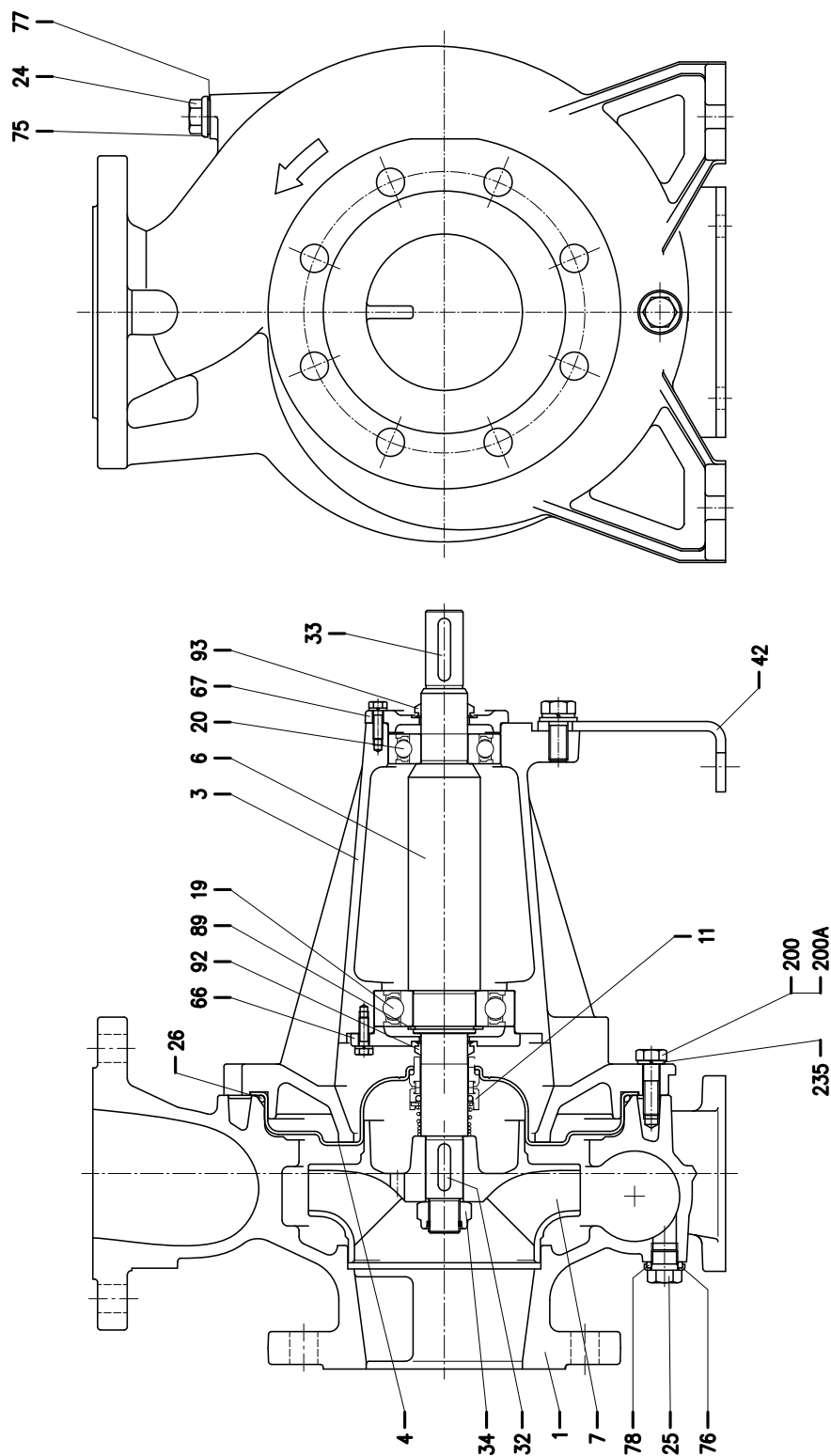
[2] Quantity = 10 for 32-160, 40-160, 50-125, 65-125

Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

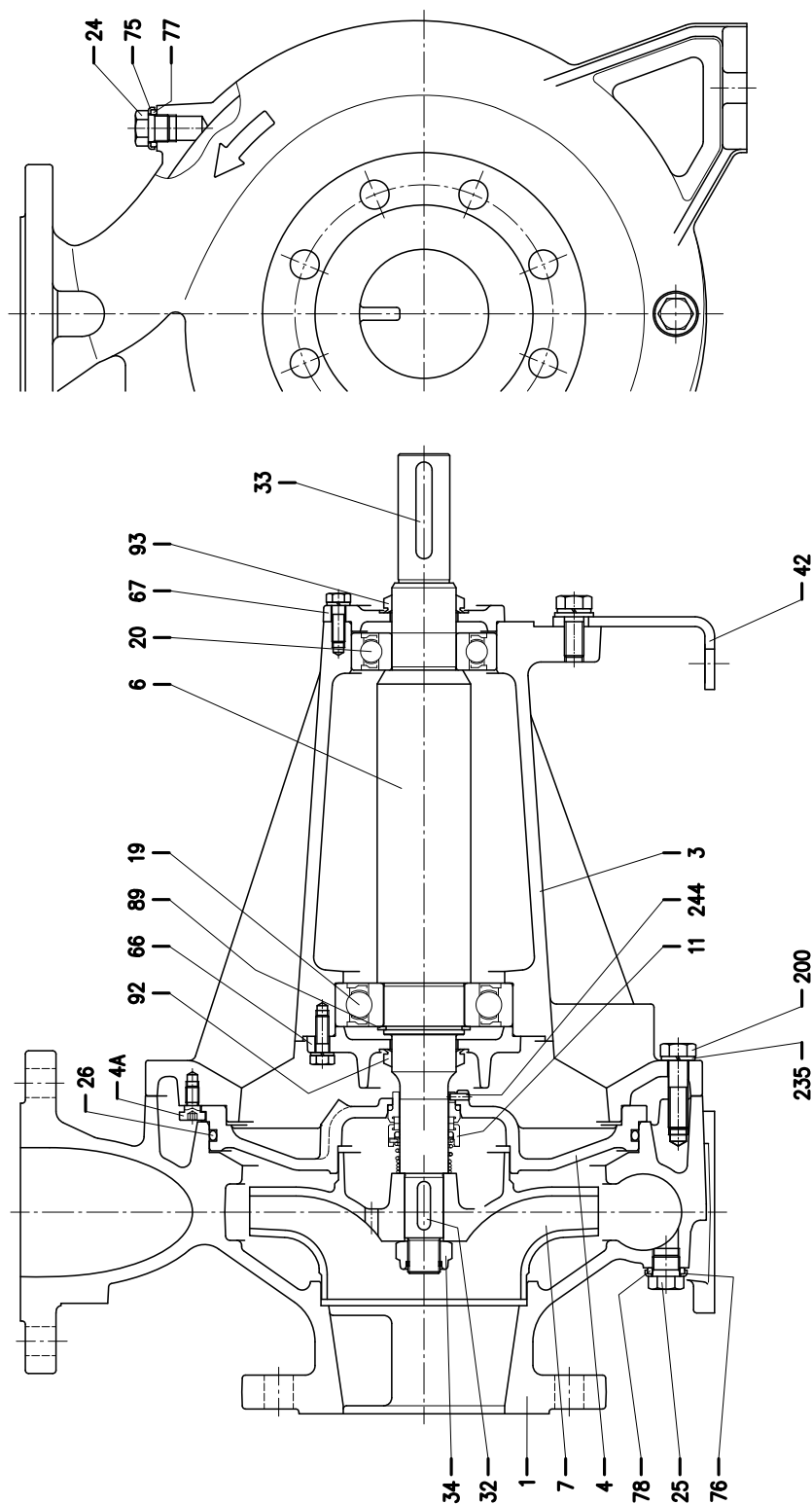
[3] Special version: see page 321 and following

[4] FPM (H-HS-HW-HSW version)

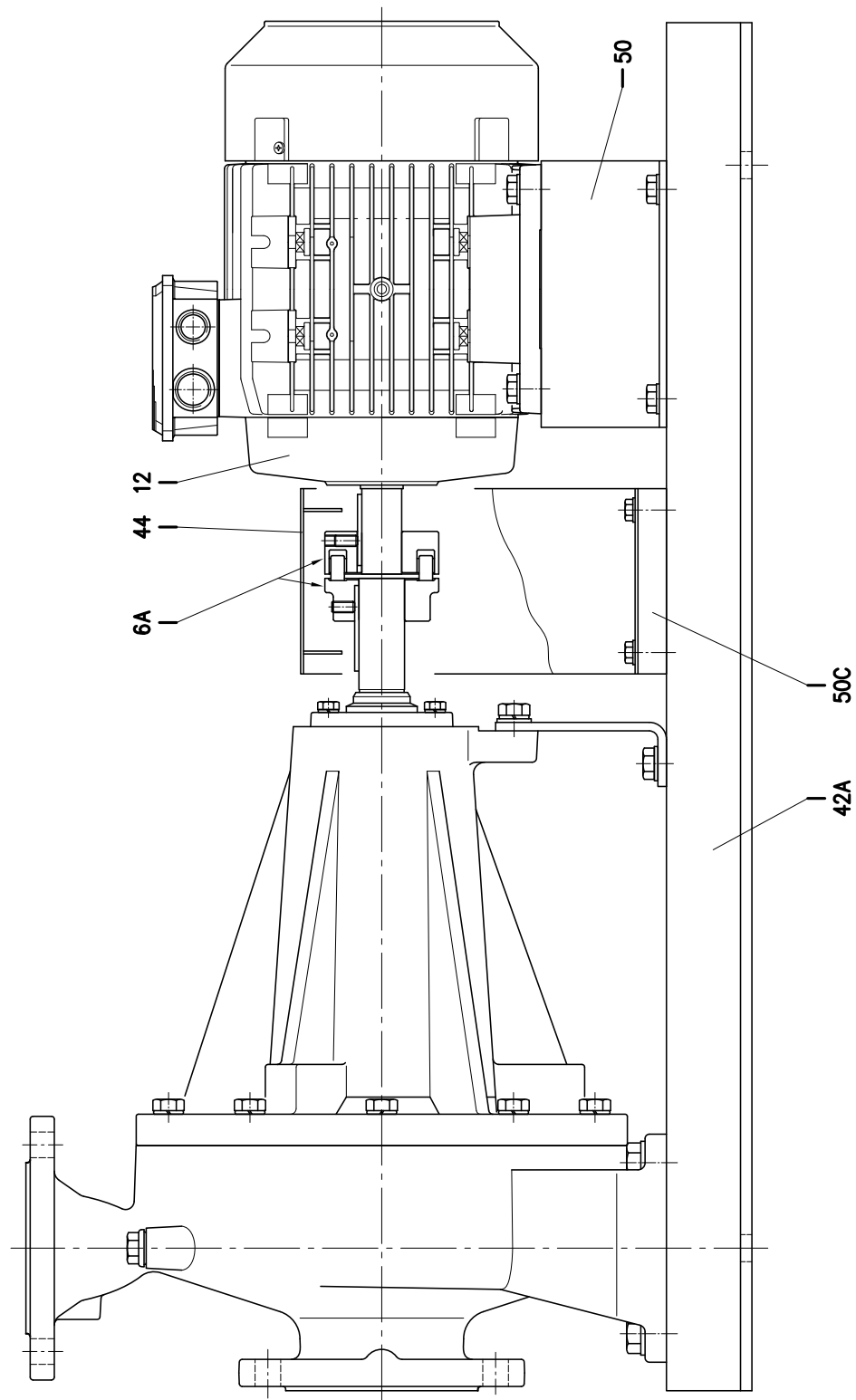
EPDM (E version)

SECTIONAL VIEW DRAWING 3LP4 80-160

SECTIONAL VIEW DRAWING 3LP4 65-250, 80-200/250



SECTIONAL VIEW DRAWING 3LP4 65-250, 80-200/250



SECTIONAL VIEW TABLE 3LP4 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI316)			1
003	Support	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI316L)			1
006	Shaft	EN 1.4404 (AISI316L)-Part in contact with liquid			1
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	See table p. 327		1
007	Impeller	EN 1.4401 (AISI316)			1
011	Mechanical seal [2]	SiC/SiC/FPM	See p. 321+325		1
012	Motor	-			1
019	Bearing	-	See table p. 320		1
020	Bearing	-	See table p. 320		1
024	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM EPDM (E option)	227.96x5.34	OR 6895	1
032	Key	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
033	Key	C 40	8x7x40		1
034	Impeller nut	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
042	Pump support	Zincked steel		EPE DRAWING	1
042A	Base	Zincked steel		EPE DRAWING	1
044	Protection	Zincked steel		EPE DRAWING	1
050	Foot	Zincked steel		EPE DRAWING	2
050C	Spacer for protection [1]	Aluminium			2
066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561			1
067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561			1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [3]			1
078	O-ring (plug)				1
089	Snap ring	Carbon tool steels TC 80	Ø 40	UNI 7435	1
092	"V" ring	-	VS-0030		1
093	"V" ring				1
200	Screw	Stainless steel A2 70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
235	Washer	EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request see p 328-329

[1] Only for 1.5kW

[2] Special version: see page 321 and following

[3] EPDM (E version)

See p 314-316

SECTIONAL VIEW TABLE 3LP4 65-250, 80-200/250

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI316)			1
003	Support	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4401 (AISI316)			1
004A	Screw for casing cover	EN 1.4301 (AISI 304)			2
006	Shaft	EN 1.4462 (Duplex stainless steel)-Part in contact with liquid			1
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	See table p. 327		1
007	Impeller	EN 1.4401 (AISI316)			1
011	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷325		1
012	Motor	-			1
019	Bearing	-	See table p. 320		1
020	Bearing	-	See table p. 320		1
024	Plug	EN 1.4404 (AISI316L)	G3/8		1
025	Plug	EN 1.4404 (AISI316L)	G3/8		1
026	"O" ring	FPM EPDM (E version)	253.36x5.34	OR 6995	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
033	Key	C 40	10x8x60	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Pump support	Zincked steel			1
042A	Base	Zincked steel			1
044	Protection	Zincked steel			1
050C	Spacer for protection [1]	Aluminium			2
066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561			1
067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561			1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [4]			1
078	O-ring (plug)				1
089	Snap ring	Carbon tool steels TC 80	Ø 50	UNI 7435	1
092	"V" ring	-	VS-0040		1
093	"V" ring				1
200	Screw	Stainless steel A2 70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	EN 1.4301 (AISI 304)	13	UNI 8842	10
244	Pin [2]	EN 1.4301 (AISI 304)	4x12	UNI 6873	1

Counterflange kit on request see p 328-329

[1] Only for 65-250/3-4 kW

[2] Not for H, HW, HSW and E options

[3] Special version: see page 321 and following

[4] EPDM (E version)

See p.315-316

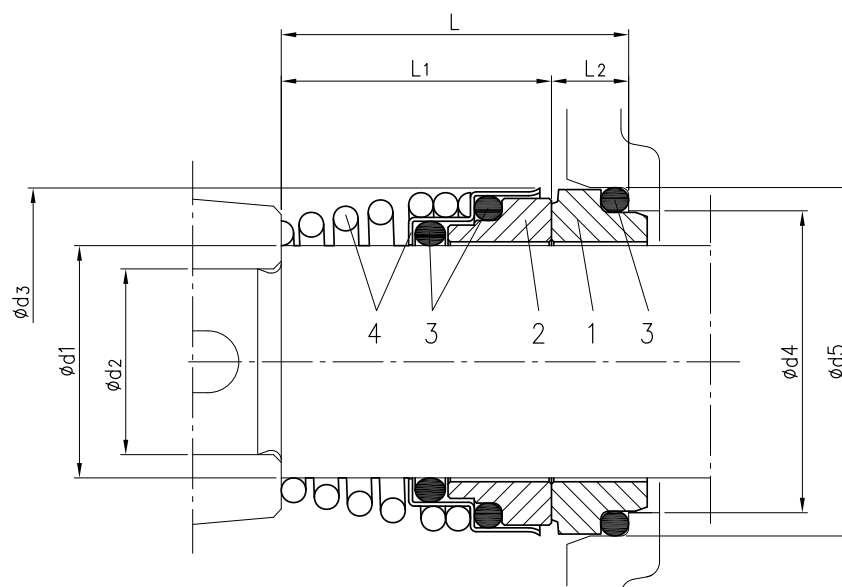
BEARINGS 3(.)M4, 3(.)S4

Pump type	Ball bearing	
	Pump side	Fan side
3(.)M4 32-125/0.25	6205-2RSH C3	6202-2RSH
3(.)M4 32-160/0.37R		6203-2RSH
3(.)M4 32-160/0.37		
3(.)M4 32-200/0.55R		
3(.)M4 32-200/0.55		6205-2RSH C3
3(.)M4 32-200/0.75		
3(.)M4 40-125/0.37R	6205-2RSH C3	6202-2RSH
3(.)M4 40-125/0.37		6203-2RSH
3(.)M4 40-160/0.55R		
3(.)M4 40-160/0.55		
3(.)M4 40-200/1.1R		6205-2RSH C3
3(.)M4 40-200/1.1		
3(.)M4 40-200/1.5		
3(.)M4 50-125/0.55R	6205-2RSH C3	6203-2RSH
3(.)M4 50-125/0.55		6205-2RSH C3
3(.)M4 50-160/1.1R		
3(.)M4 50-160/1.1		
3(.)M4 50-200/1.5R		
3(.)M4 50-200/1.5		
3(.)M4 50-200/2.2		
3(.)M4 65-125/0.55	6205-2RSH C3	6203-2RSH
3(.)M4 65-125/0.75		6205-2RSH C3
3(.)M4 65-125/1.1		
3(.)M4 65-160/1.1		
3(.)M4 65-160/1.5		
3(.)M4 65-160/2.2		
3(.)M4 65-200/2.2R	3606-2RS1 C3	
3(.)M4 65-200/2.2		
3(.)M4 65-200/3.0	6306-2RS1 C3	6206-2RS1 C3
3LM4 65-250/4		6208-2RS1 C3
3LM4 65-250/5.5	6308-2RS1 C3	6208-2RS1 C3
3LM4 80-160/1.5	6205-2RS1 C3	6205-2RS1 C3
3LM4 80-160/2.2R	6206-2RS1 C3	
3LM4 80-160/2.2		
3LM4 80-200/ 3		
3LM4 80-200/4R	6306-2RS1 C3	6206-2RS1 C3
3LM4 80-200/4		
3LM4 80-250/5.5R	6308-2RS1 C3	6208-2RS1 C3
3LM4 80-250/5.5		

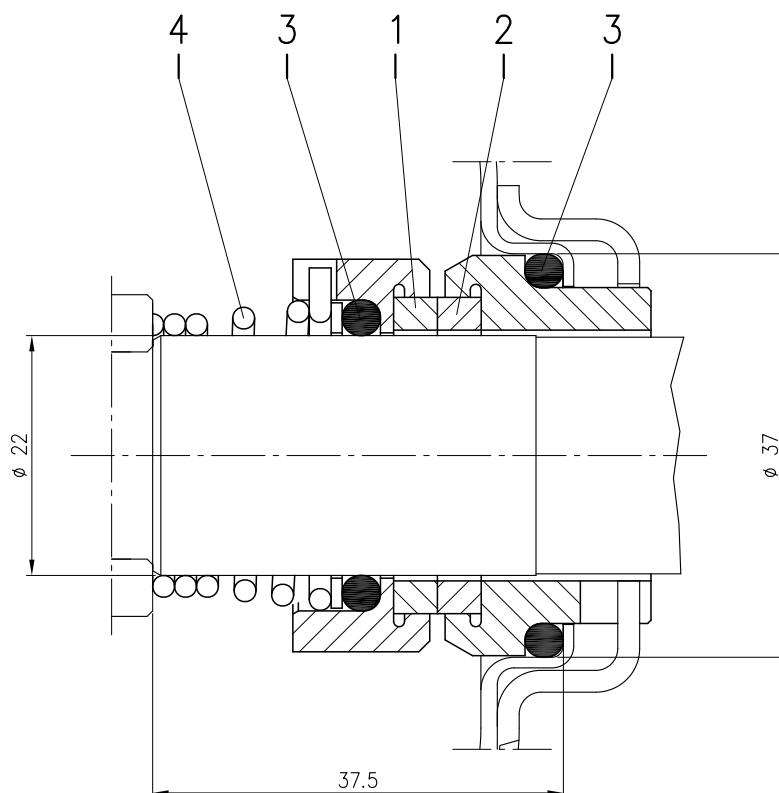
Pump type	Ball bearing	
	Pump side	Fan side
3(.)S4 32-125/0.25	6203-2Z	6203-2Z
3(.)S4 32-160/0.37R		
3(.)S4 32-160/0.37		
3(.)S4 32-200/0.55R	6204-2Z C3	6204-2Z C3
3(.)S4 32-200/0.55		
3(.)S4 32-200/0.75		
3(.)S4 40-125/0.37R	6203-2Z	6203-2Z
3(.)S4 40-125/0.37		
3(.)S4 40-160/0.55R	6204-2Z C3	6204-2Z C3
3(.)S4 40-160/0.55		
3(.)S4 40-200/1.1R	6205-2Z C3	6205-2Z C3
3(.)S4 40-200/1.1		
3(.)S4 40-200/1.5	6204-2Z C3	6204-2Z C3
3(.)S4 50-125/0.55R		
3(.)S4 50-125/0.55	6205-2Z C3	6205-2Z C3
3(.)S4 50-160/1.1R		
3(.)S4 50-160/1.1		
3(.)S4 50-200/1.5R	6206-2Z C3	6206-2Z C3
3(.)S4 50-200/1.5		
3(.)S4 50-200/2.2	6204-2Z C3	6204-2Z C3
3(.)S4 65-125/0.55		
3(.)S4 65-125/0.75	6205-2Z C3	6205-2Z C3
3(.)S4 65-125/1.1		
3(.)S4 65-160/1.1		
3(.)S4 65-160/1.5	6206-2Z C3	6206-2Z C3
3(.)S4 65-160/2.2		
3(.)S4 65-200/2.2R		
3(.)S4 65-200/2.2		
3(.)S4 65-200/3.0	6306-2Z C3	6306-2Z C3
3LS4 65-250/4		
3LS4 65-250/5.5	6205-2Z C3	6205-2Z C3
3LS4 80-160/1.5		
3LS4 80-160/2.2R	6206-2Z C3	6206-2Z C3
3LS4 80-160/2.2		
3LS4 80-200/3	6306-2Z C3	6306-2Z C3
3LS4 80-200/4R		
3LS4 80-200/4	6208-2Z C3	6208-2Z C3
3LS4 80-250/5.5R		
3LS4 80-250/5.5		
3LS4 80-250/7.5		

BEARINGS 3(.)P4

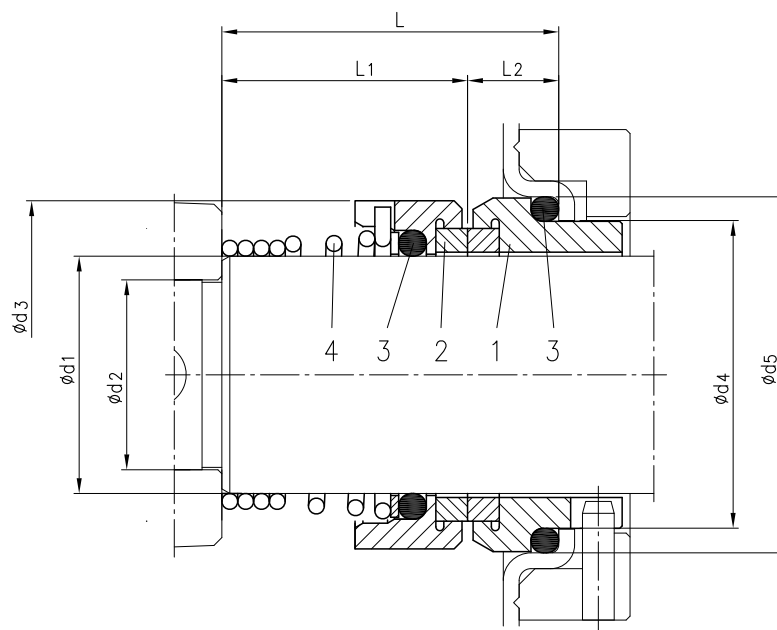
Pump type	Ball bearing			
	Pump		Motor	
	Pump side	Motor side	Pump side	Fan side
3(.)P4 32-125/0.25	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3(.)P4 32-160/0.37R				
3(.)P4 32-160/0.37				
3(.)P4 32-200/0.55R	6308-2RS1 C3	6306-2RS1 C3	6204-2Z C3	6204-2Z C3
3(.)P4 32-200/0.55				
3(.)P4 32-200/0.75				
3(.)P4 40-125/0.37R	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3(.)P4 40-125/0.37				
3(.)P4 40-160/0.55R				
3(.)P4 40-160/0.55	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3(.)P4 40-200/1.1R				
3(.)P4 40-200/1.1				
3(.)P4 40-200/1.5	6306-2RS1 C3	6206-2RS1 C3	6204-2Z C3	6204-2Z C3
3(.)P4 50-125/0.55R				
3(.)P4 50-125/0.55				
3(.)P4 50-160/1.1R	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3(.)P4 50-160/1.1				
3(.)P4 50-200/1.5R				
3(.)P4 50-200/1.5	6306-2RS1 C3	6206-2RS1 C3	6206-2Z C3	6206-2Z C3
3(.)P4 50-200/2.2				
3(.)P4 65-125/0.55				
3(.)P4 65-125/0.75	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3(.)P4 65-125/1.1				
3(.)P4 65-160/1.1				
3(.)P4 65-160/1.5	6310-2RS1 C3	6308-2RS1 C3	6306-2Z C3	6306-2Z C3
3(.)P4 65-160/2.2				
3(.)P4 65-200/2.2R				
3(.)P4 65-200/2.2	6308-2RS1 C3	6306-2RS1 C3	6208-2Z C3	6208-2Z C3
3(.)P4 65-200/3				
3LP4 65-250/4				
3LP4 65-250/5.5	6306-2RS1 C3	6206-2RS1 C3	6205-2Z C3	6205-2Z C3
3LP4 80-160/1.5				
3LP4 80-160/2.2R				
3LP4 80-160/2.2	6310-2RS1 C3	6308-2RS1 C3	6306-2Z C3	6306-2Z C3
3LP4 80-200/3				
3LP4 80-200/4R				
3LP4 80-200/4	6308-2RS1 C3	6306-2RS1 C3	6208-2Z C3	6208-2Z C3
3LP4 80-250/5.5R				
3LP4 80-250/5.5				
3LP4 80-250/7.5				

MECHANICAL SEAL (standard, H and E version)

Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
Standard	32-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	40-125/160/200												
	50-125/160/200												
	65-125/160/200												
H	32-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	FPM	EN 1.4401 (AISI 316)
	40-125/160/200												
	50-125/160/200												
	65-125/160/200												
E	80-160	30	24	46	39	45	42.5	32.5	10	Carbon	SiC	EPDM	EN 1.4401 (AISI 316)
	65-250												
	80-200/250												

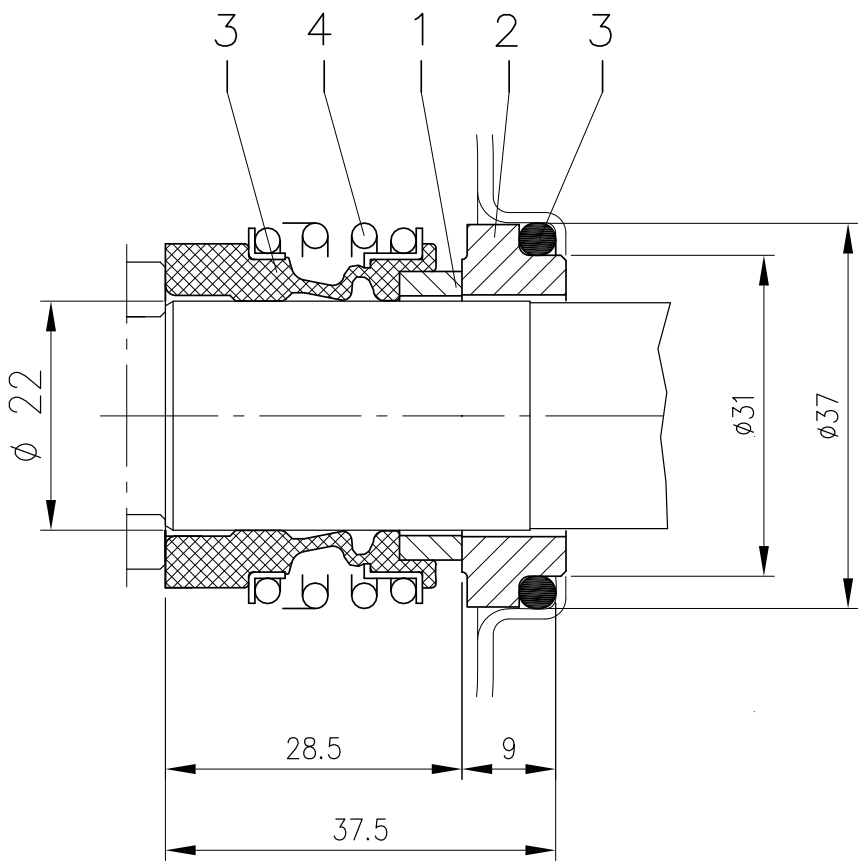
MECHANICAL SEAL (L version ø22)

Pump type	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

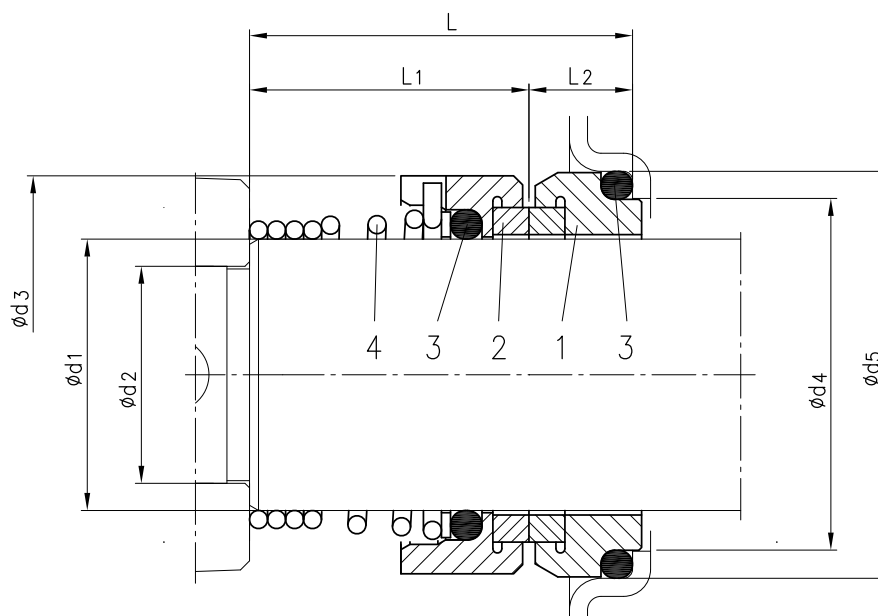
MECHANICAL SEAL (L version ø30)

Pump type	Dimensions								Material			
	d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
65-250 80-200/250	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (HS version)

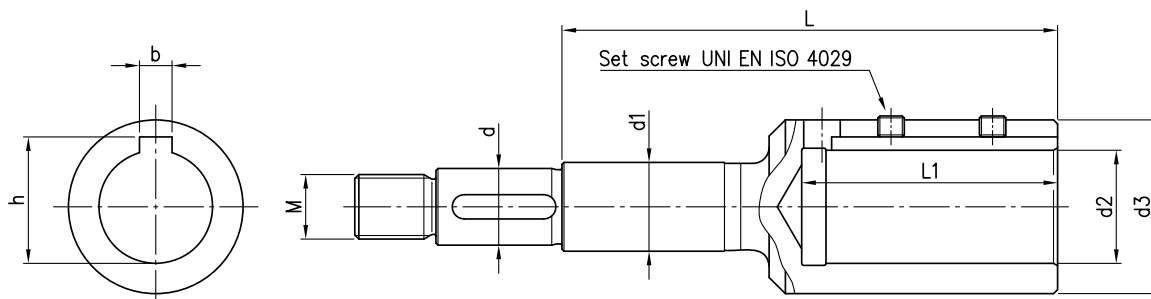


Pump type	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

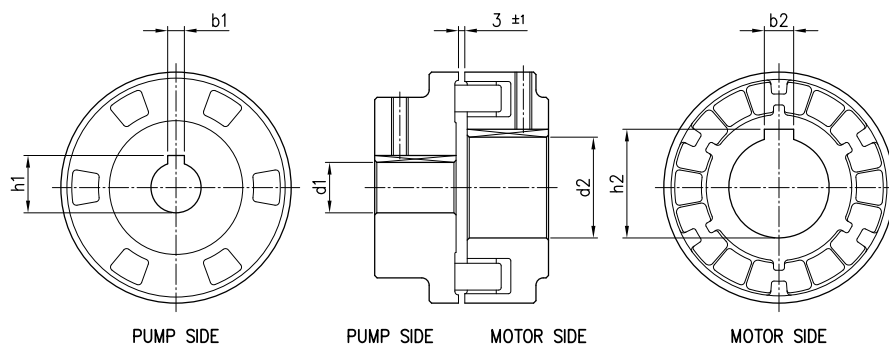
MECHANICAL SEAL (HW and HSW version)

Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HW	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Carbon	Carbon	FPM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				
HSW	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Carbon	SiC	FPM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				

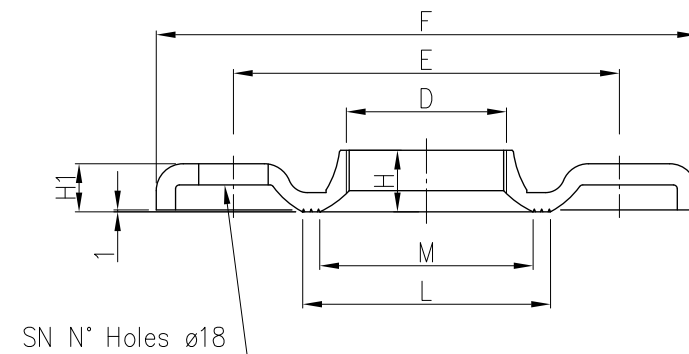
COUPLING 3(.)S4



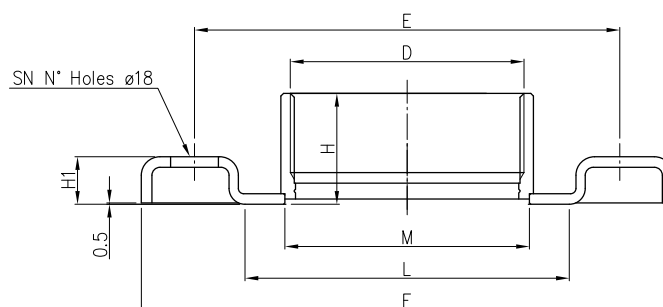
Pump type	[kW]	[HP]	Motor Size	Dimensions mm									
				d	d ₁	d ₂	d ₃	M	L	L ₁	b	h	Set screw
32-125/0.25	0.25	0.33	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37R	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-200/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.75	0.75	1	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-125/0.37R	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-125/0.37	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-160/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-160/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-200/1.1R	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-125/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-125/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-160/1.1R	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-160/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5R	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/2.2	2.2	3	100	22	22	28	43	M18x1.5	153	63	8	31.3	M8x8
65-125/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/0.75	0.75	1	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2R	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/3	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-250/4	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
65-250/5.5	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-160/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
80-160/2.2R	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-160/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-200/3	3	4	100	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4R	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-250/5.5R	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/5.5	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/7.5	7.5	10	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8

FLEXIBLE COUPLING 3(.)P4

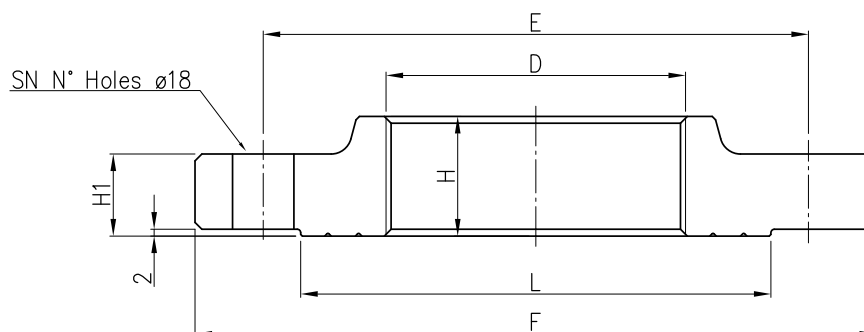
Pump type	[kW]	[HP]	Motor Size	Dimensions mm					
				d1	b1	h1	d2	b2	h2
32-125/0.25	0.25	0.33	71	24	8	27.3	14	5	16.3
32-160/0.37R	0.37	0.5	71	24	8	27.3	14	5	16.3
32-160/0.37	0.37	0.5	71	24	8	27.3	14	5	16.3
32-200/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
32-200/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
32-200/0.75	0.75	1	80	24	8	27.3	19	6	21.8
40-125/0.37R	0.37	0.5	71	24	8	27.3	14	5	16.3
40-125/0.37	0.37	0.5	71	24	8	27.3	14	5	16.3
40-160/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
40-160/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
40-200/1.1R	1.1	1.5	90	24	8	27.3	24	8	27.3
40-200/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
40-200/1.5	1.5	2	90	24	8	27.3	24	8	27.3
50-125/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
50-125/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
50-160/1.1R	1.1	1.5	90	24	8	27.3	24	8	27.3
50-160/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
50-200/1.5R	1.5	2	90	24	8	27.3	24	8	27.3
50-200/1.5	1.5	2	90	24	8	27.3	24	8	27.3
50-200/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-125/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
65-125/0.75	0.75	1	80	24	8	27.3	19	6	21.8
65-125/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
65-160/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
65-160/1.5	1.5	2	90	24	8	27.3	24	8	27.3
65-160/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-200/2.2R	2.2	3	100	24	8	27.3	28	8	31.3
65-200/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-200/3	3	4	100	24	8	27.3	28	8	31.3
65-250/4	4	5.5	112	32	10	35.3	28	8	31.3
65-250/5.5	5.5	7.5	132	32	10	35.3	38	10	41.3
80-160/1.5	1.5	2	90	24	8	27.3	24	8	27.3
80-160/2.2R	2.2	3	100	24	8	27.3	28	8	31.3
80-160/2.2	2.2	3	100	24	8	27.3	28	8	31.3
80-200/3	3	4	100	32	10	35.3	28	8	31.3
80-200/4R	4	5.5	112	32	10	35.3	28	8	31.3
80-200/4	4	5.5	112	32	10	35.3	28	8	31.3
80-250/5.5R	5.5	7.5	132	32	10	35.3	38	10	41.3
80-250/5.5	5.5	7.5	132	32	10	35.3	38	10	41.3
80-250/7.5	7.5	10	132	32	10	35.3	38	10	41.3

FITTINGS**COUNTERFLANGE ZINCKED STEEL**

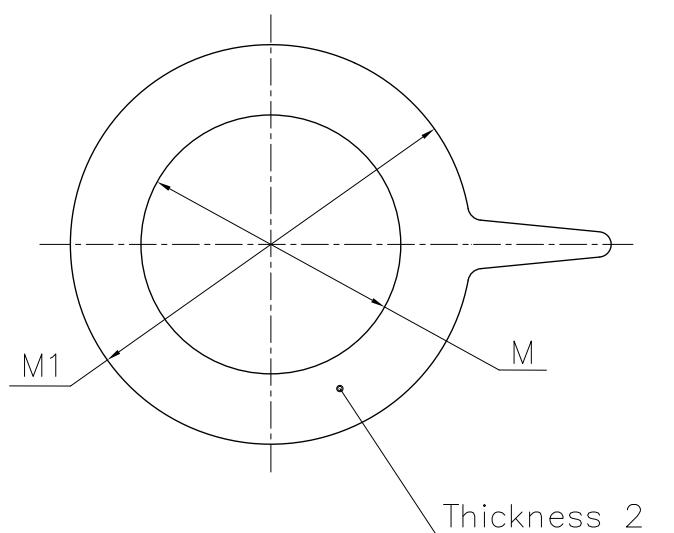
Counterflange									Screw	
DN	D	E	F	H	H1	L	M	SN	DIMENSIONS	MATERIAL
32	G 1 1/4	100	100	15	11.5	67	50	4	M16x55	Zn. Steel 8.8 strenght class ISO 898-1
40	G 1 1/2	110	110	17.5	11.5	72	58	4		
50	G2	125	125	19	15	89	70	4		
65	G 2 1/2	145	185	23	14	104	88	4		
80	G3	160	200	24	16	117.5	100	8	M16x60	
100	G4	180	220	29	16	144	125	8		

COUNTERFLANGE EN 1.4404 (AISI 316L)

DN	D	Counterflange							Screw	
		E	F	H	H1	L	M	SN	DIMENSIONS	MATERIAL
32	G 1 1/4	100	140	29.5	14	66	44	4	M16x55	A2-70 class ISO 3506-1
40	G 1 1/2	110	150	29.5	14	71	50.5			
50	G 2	125	165	34	16	83	63			
65	G 2 1/2	145	185	40	16	103	80			
80	G3	160	200	42	18	122	92	8	M16x60	

COUNTERFLANGE EN 1.4404 (AISI 316L) DN100

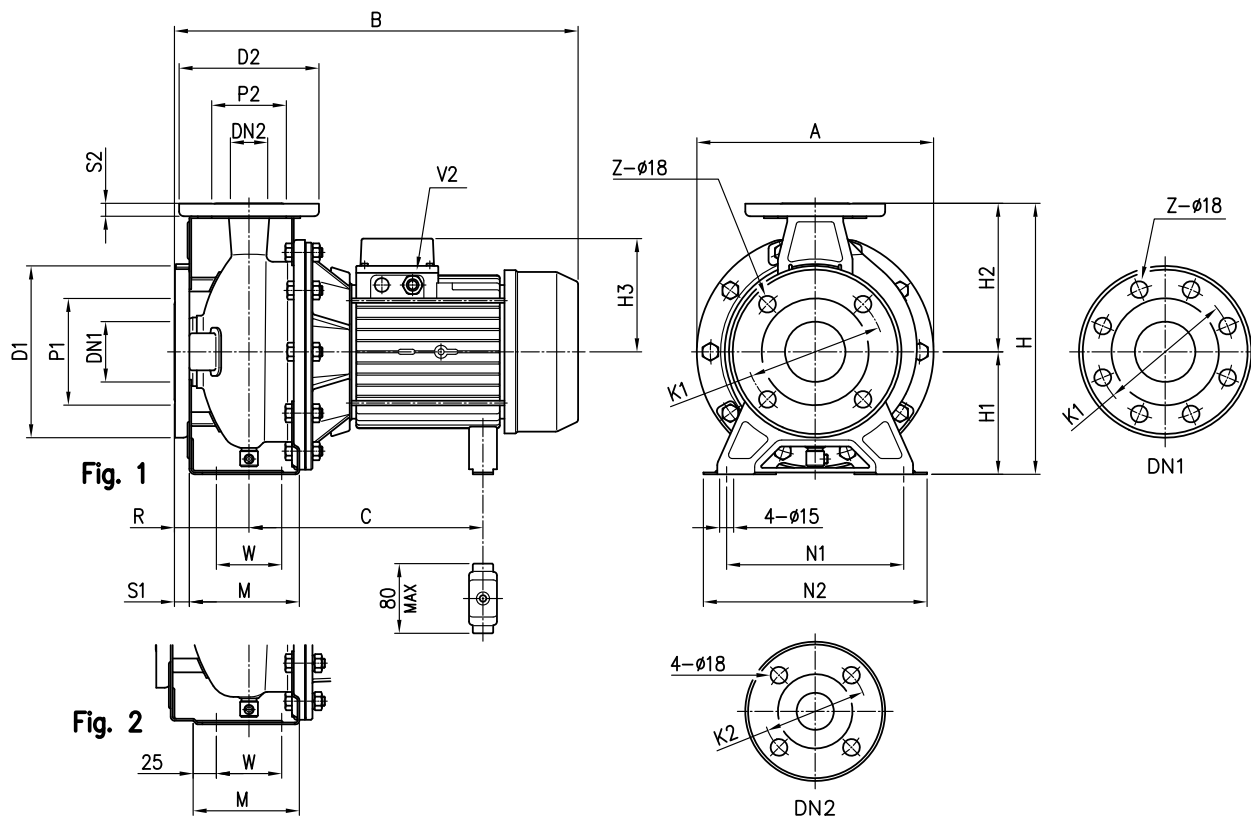
DN	D	Counterflange				L	SN	Screw	
		E	F	H	H1			DIMENSIONS	MATERIAL
100	G4	180	220	35	20	150	8	M16x70	A2-70 class ISO 3506-1

GASKET

DN	M	M1
32	38	82
40	50	93
50	60	107
65	80	125
80	90	140
100	115	160

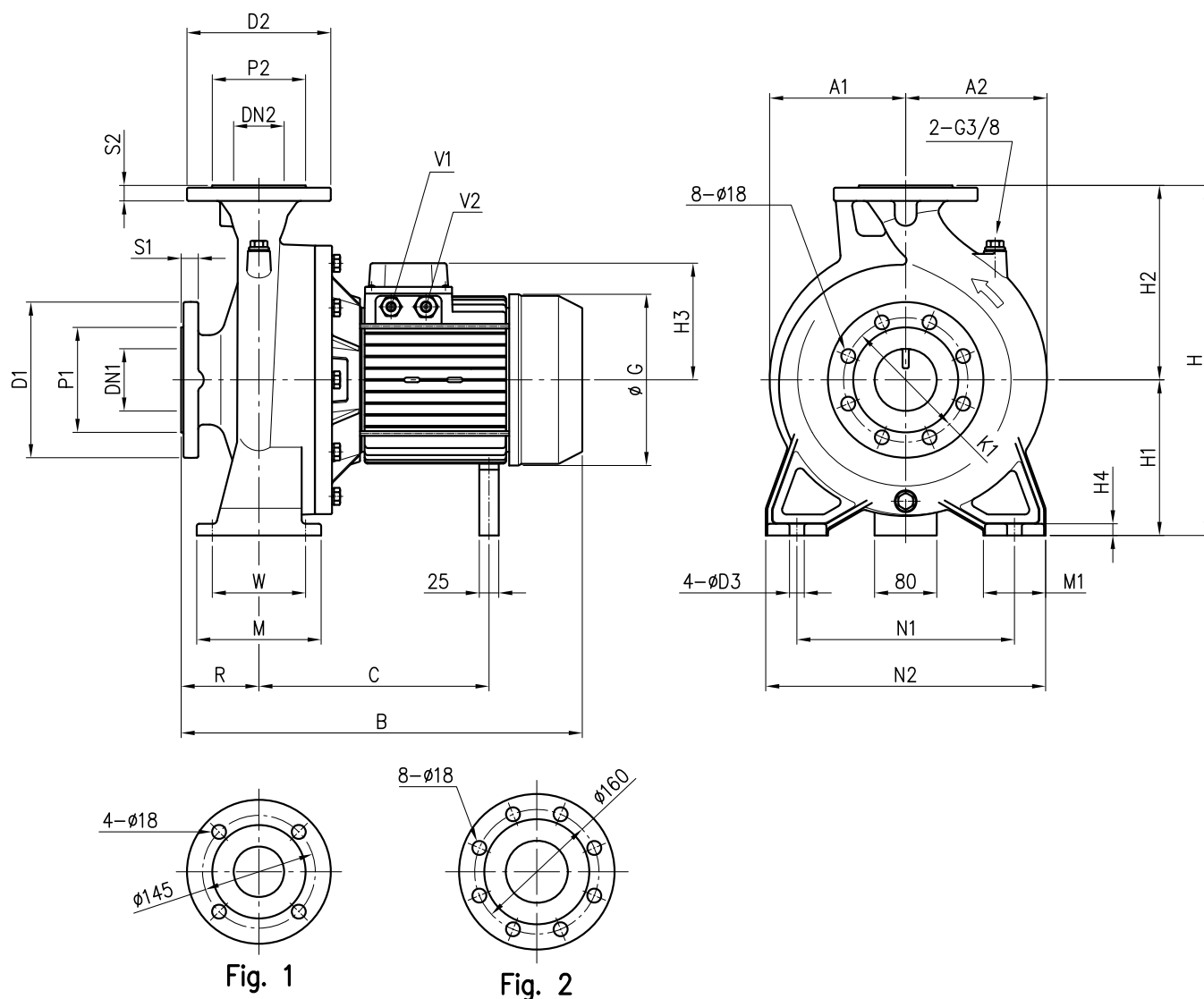
Material : EPDM for standard version
FPM for L version

PUMP 3(.)M4 32, 40, 50, 65-125/160/200



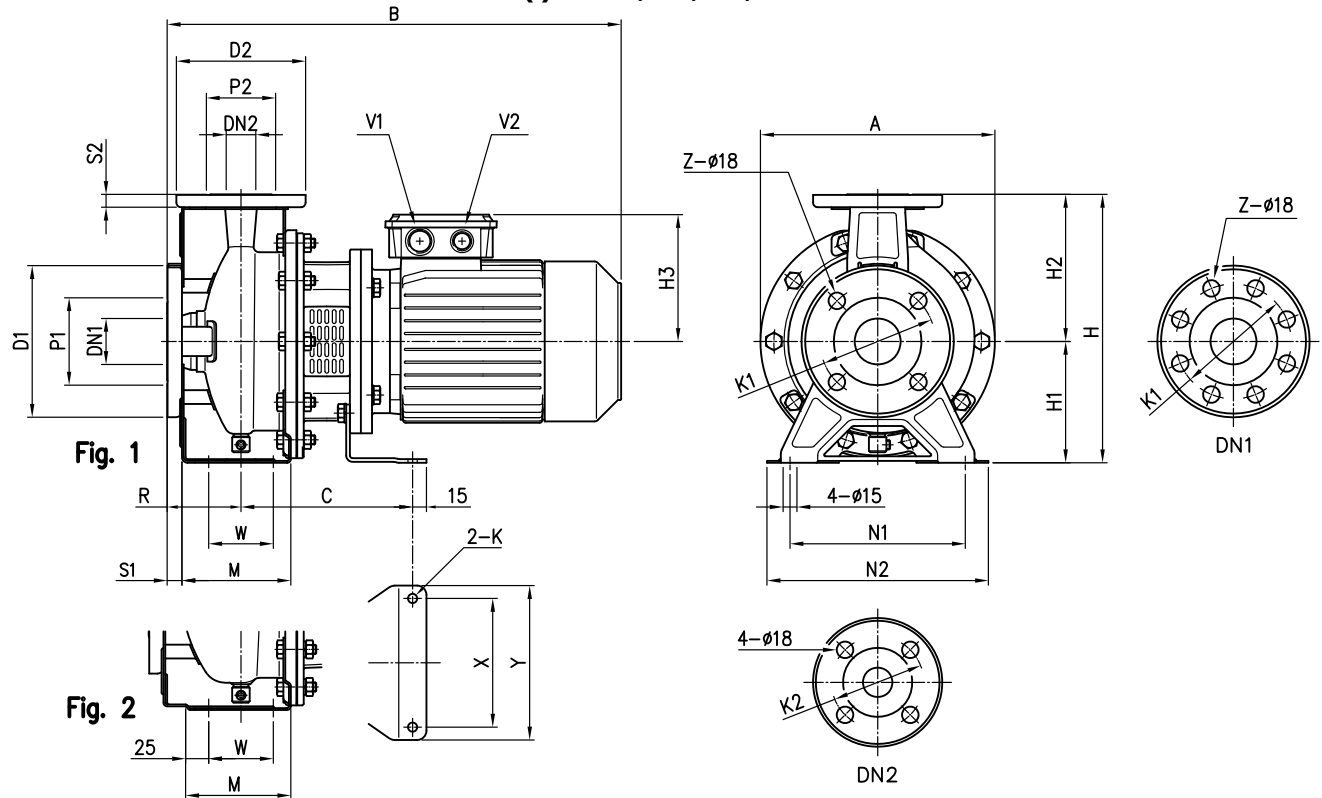
Pump type	Dimensions (mm)																										Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z	[2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	V2	
	DN1	P1	K1	D1	S1	[1]	[2]	DN2	P2	K2	D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	102	80	70	114	140	190	213	371	205	PG 11	15
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	19.7
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	19.9
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	24.5
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	24.5
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	124	80	70	119	190	240	296	432	244+255	PG 13.5	28.1
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	15.6
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	15.7
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	20.2
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	20.6
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244+255	PG 13.5	28.5
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244+255	PG 13.5	28.6
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	491	244+255	PG 13.5	30.3
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	20.4
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	20.5
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244+255	PG 13.5	28.6
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244+255	PG 13.5	28.7
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	124	100	70	115	212	265	296	491	244+255	PG 13.5	30.5
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	124	100	70	115	212	265	296	491	244+255	PG 13.5	31.6
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	141	100	70	115	212	265	296	474	253	PG 16	30
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	119	100	95	140	212	280	254	413	219	PG 11	21.9
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244+255	PG 13.5	20
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244+255	PG 13.5	20
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	124	100	95	140	212	280	296	452	244+255	PG 13.5	28.5
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	124	100	95	140	212	280	296	491	244+255	PG 13.5	30
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	141	100	95	140	212	280	296	474	253	PG 16	32
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	474	253	PG 16	30
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	474	253	PG 16	30
65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	514	253	PG 16	38

[1] Standard [2] On request

PUMP 3(.)M4 65-250, 80

Pump type	Dimensions [mm]																										Weight [kg]		
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	A1	A2	B	C	G	D3		V1	V2
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	150	15	100	120	280	360	160	80	175	182	559	295	220	19	PG13.5	PG16	81
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	178	15	100	120	280	360	160	80	175	182	612	376	259	19	PG13.5	PG21	96
80-160/1.5	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	124	13	125	95	250	320	125	65	147	173	516	244+255	176	15	-	PG13.5	53
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	499	253	193	15	-	PG16	53
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	499	253	193	15	-	PG16	53
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	141	13	125	95	280	345	125	65	175	182	561	275	193	15	-	PG16	73
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	80
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	81
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	175	192	637	376	259	19	PG13.5	PG21	94
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	175	192	637	376	259	19	PG13.5	PG21	95

PUMP 3(.)S4 32, 40, 50, 65-125/160



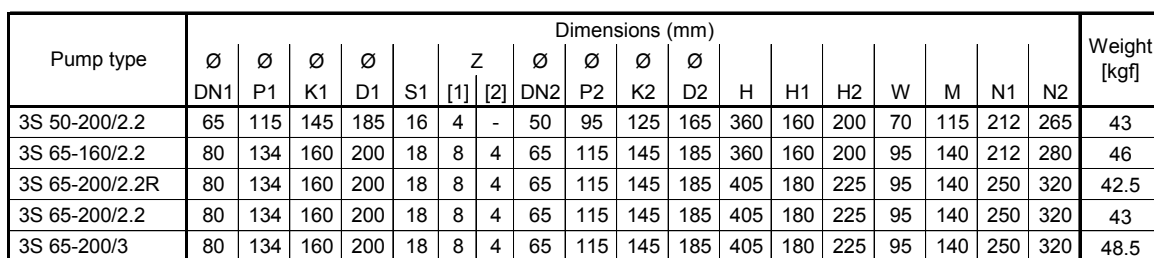
Pump type	Dimensions (mm)																														Weight [kgf]
	ØN1	ØP1	ØK1	ØD1	S1	Z	ØDN2	ØP2	ØK2	ØD2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	X	Y	K	V1	V2		
	DN1				[1]	[2]																									
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	114	80	70	114	140	190	213	404	153	112	140	8	M20x1.5	M16x1.5	15.4
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.5
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.7
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	28
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	33
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	29.5
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.3
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.3
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	35.5
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	37.1
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	37.1
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	21.5
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	30
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	148	100	95	140	212	280	254	497	186	140	168	10	M25x1.5	M20x1.5	30
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	31
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	43

[1] Standard [2] On request

3 SERIES 4 Poles

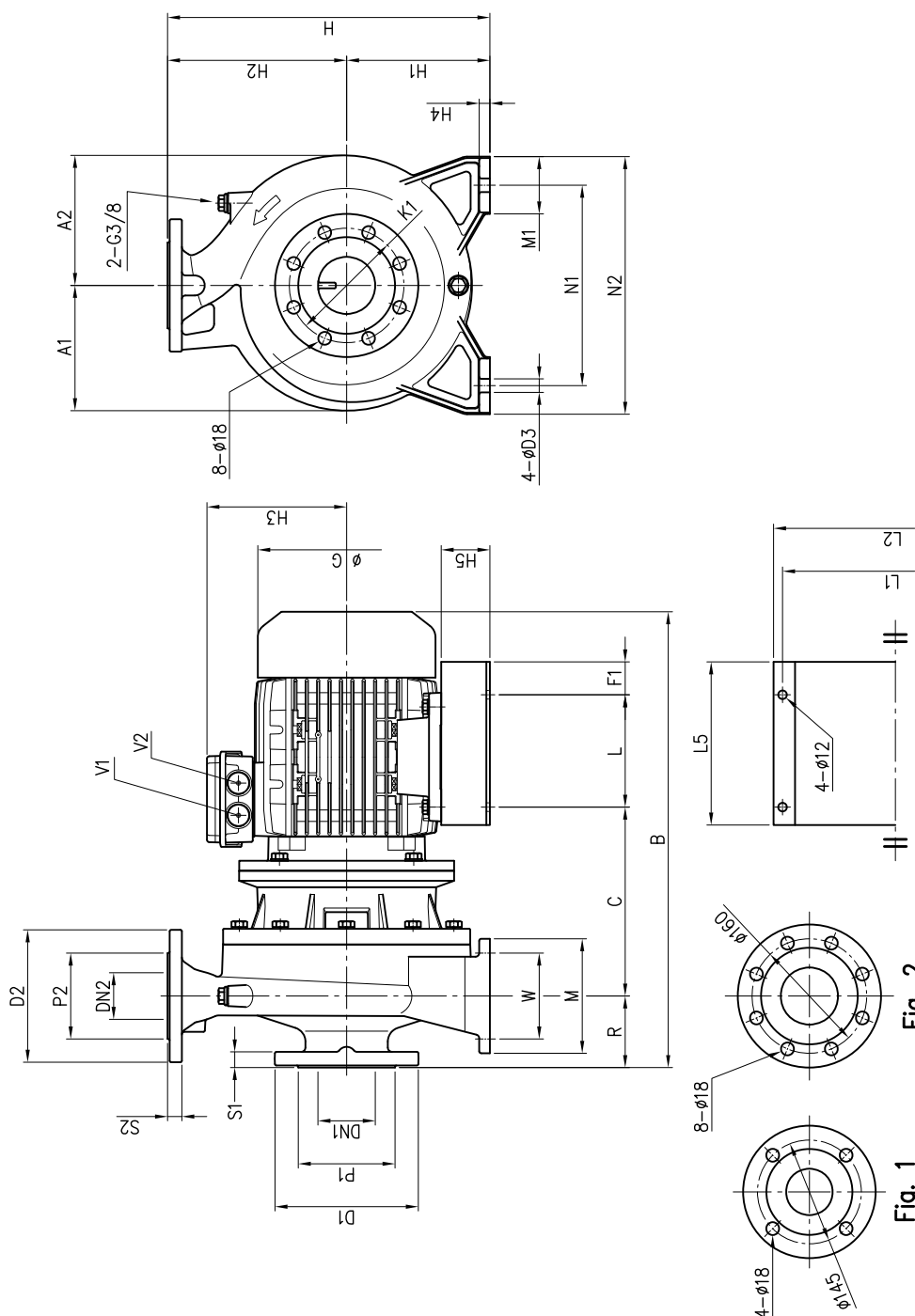
50Hz

PUMP 3(.)S4 50, 65-160/200



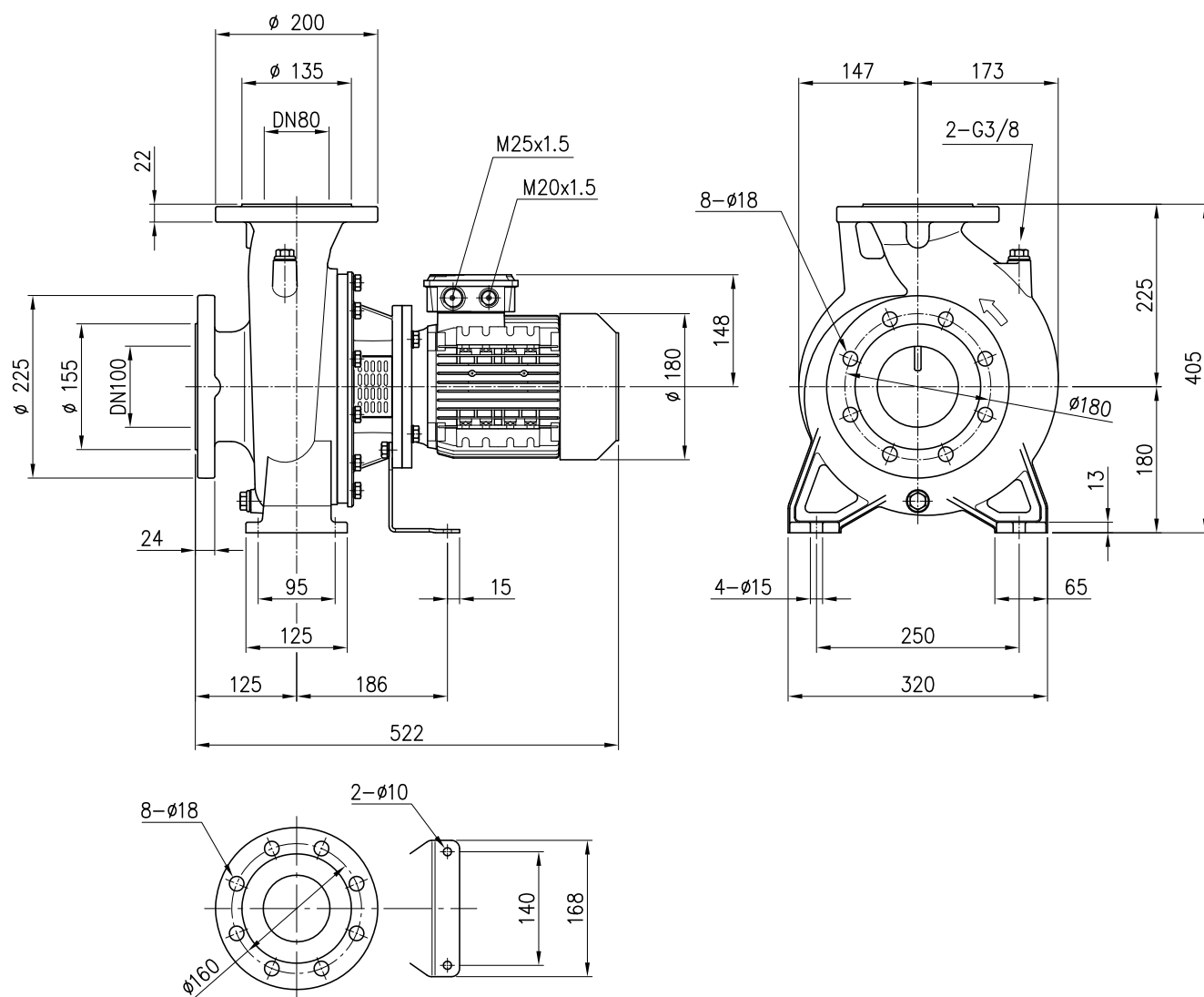
403

PUMP 3LS4 65-250, 80



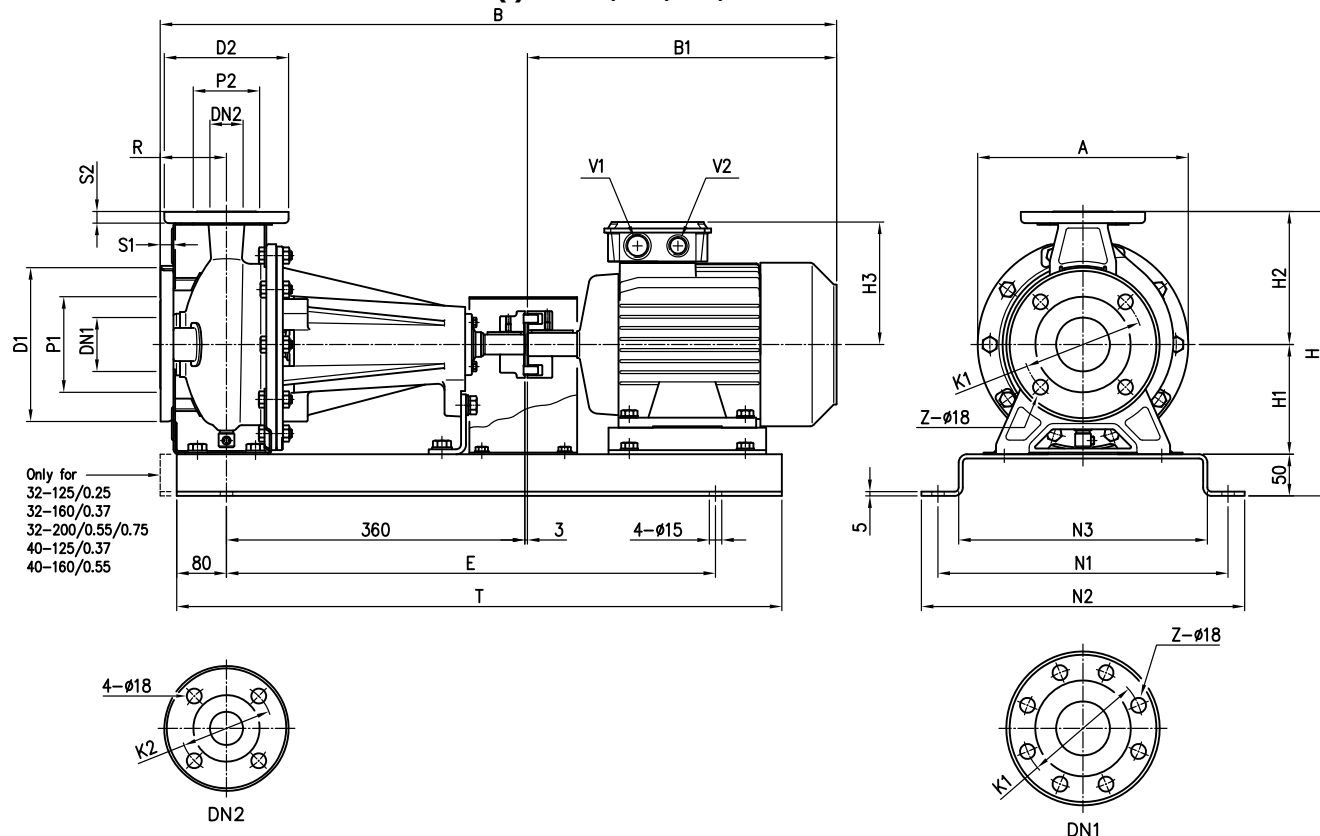
Pump type	Dimensions [mm]																				Weight [kg]														
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M		L	L1	L2	L5	A1	A2	B	C	F1	G	D3	V1	V2	
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	171	15	88	100	120	280	360	160	80	147	265	290	187	175	182	580	215	20	225	19	M25x1.5	M20x1.5	85
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	198	15	88	100	120	280	360	160	80	157	315	340	228	175	182	637	264	46	248	19	M32x1.5	M32x1.5	108
80-160/2.R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5	69.7
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5	70
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	155	13	80	125	95	280	345	125	65	140	250	275	190	175	182	583	215	25	196	15	M25x1.5	M20x1.5	80
80-200/4.R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	171	13	88	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5	84
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	171	13	88	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5	90
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	88	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5	114
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	88	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5	115
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	88	125	120	315	400	160	80	157	315	340	228	175	192	702	264	46	248	19	M32x1.5	M32x1.5	120

[1] Standard [2] On request

PUMP 3LS4 80-160/1.5

Weight: 60.5 kgf

PUMP 3(.)P4 32, 40, 50, 65-125/160/200

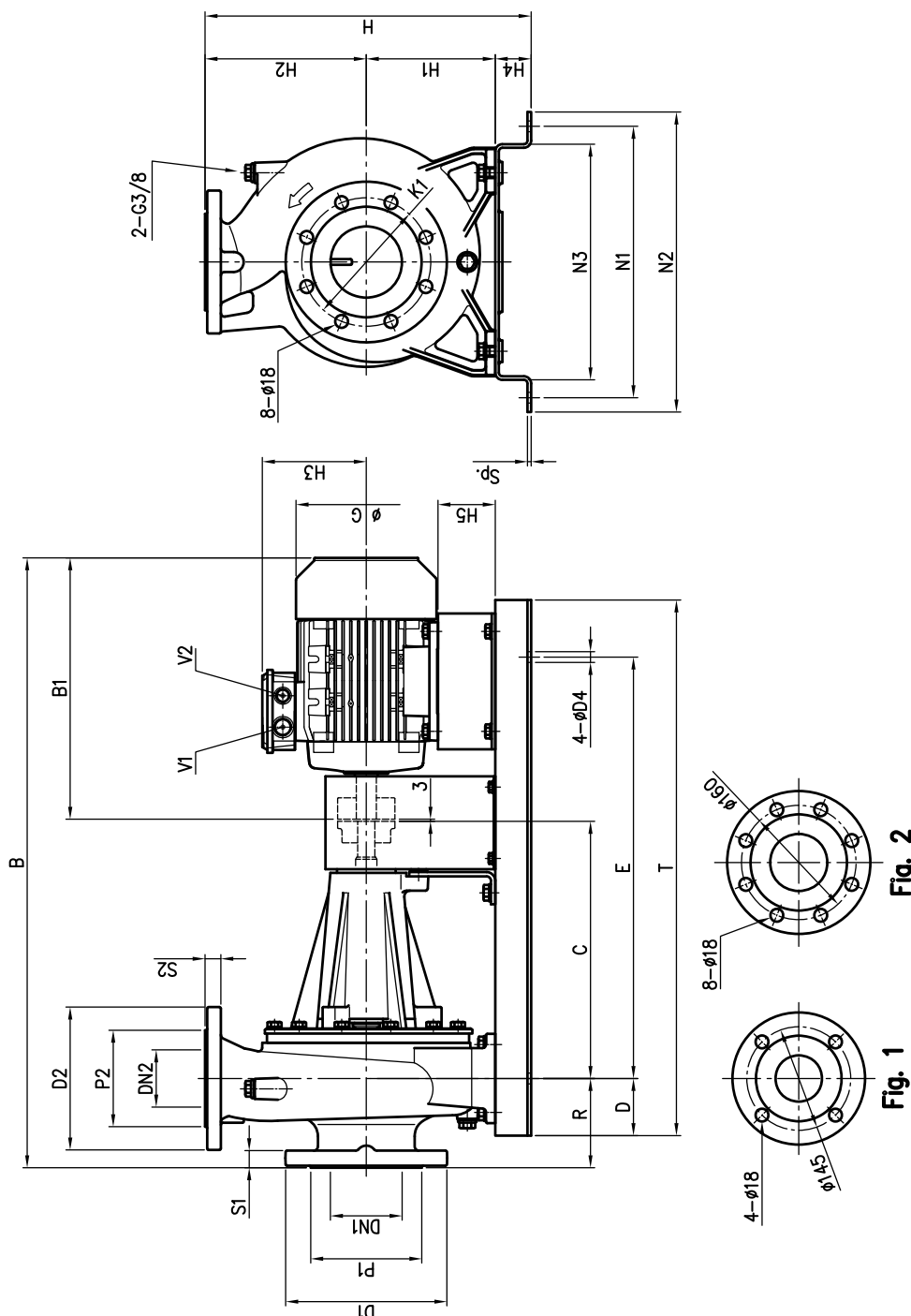


Pump type	Dimensions [mm]																											Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	A	B	B1	E	N1	N2	N3	T	V1	V2	
3P 32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	37
3P 32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41
3P 32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41
3P 32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5
3P 32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5
3P 32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	54.5
3P 40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5
3P 40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5
3P 40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5
3P 40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5
3P 40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61.5
3P 40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61.5
3P 40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64
3P 50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45
3P 50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45
3P 50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	52.5
3P 50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	52.5
3P 50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64
3P 50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64
3P 50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	70
3P 65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5
3P 65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5
3P 65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	148	100	254	780	317	590	350	390	300	750	M25x1.5	M20x1.5	56
3P 65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	62.5
3P 65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	63.5
3P 65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	71.5
3P 65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74
3P 65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74
3P 65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	77.5

[1] Standard

[2] On request

PUMP 3LP4 65-250, 80

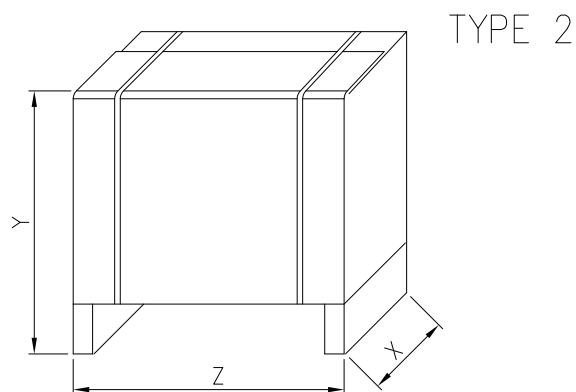
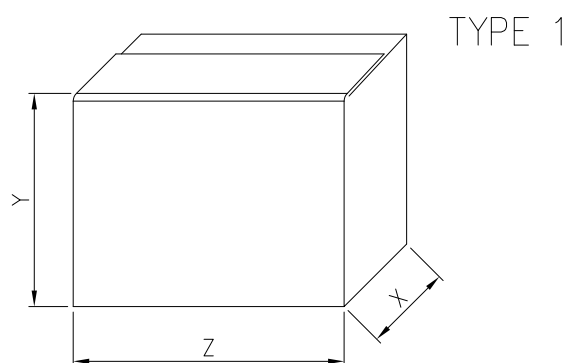


Pump type	Dimensions [mm]																				Weight [kgf]									
	DN1	P1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	N1	N2	N3	B	B1	C	D	G	E	T	D4	Sp.	V1	V2	Weight
65-250/4	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	171	60	88	100	510	570	440	961	388	470	100	225	760	960	19	8	M25x1.5	M20x1.5	113.5
	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	198	60	88	100	510	570	440	1015	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	130
65-250/5.5	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	148	50	90	125	380	420	330	805	317	360	80	180	590	750	15	5	M25x1.5	M20x1.5	80
80-160/1.5	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	86
80-160/2.2R	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	100.5
80-160/2.2	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	155	60	80	125	460	520	390	964	366	470	100	196	700	900	19	8	M25x1.5	M20x1.5	109.5
80-200/3	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	88	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	116.5
80-200/4R	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	88	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	117
80-200/4	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	88	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	117
80-250/5.5R	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	88	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	134
80-250/5.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	88	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	134.5
80-250/7.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	88	125	510	570	440	1080	482	470	100	248	760	960	19	8	M32x1.5	M32x1.5	143.5

	[1] Standard	[2] On request
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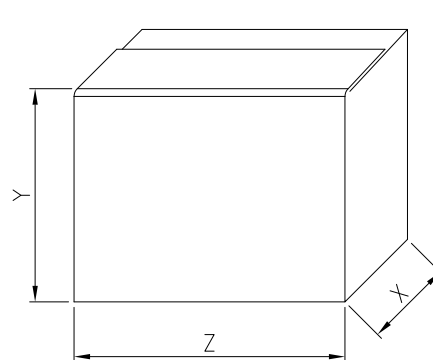
PACKING 3(.)M4

Pump type	Packing [mm]			Weight [kgf]	Pack type
	Z	X	Y		
32-125/0.25	450	250	300	18.1	1
32-160/0.37R	430	280	330	21.5	
32-160/0.37				22.1	
32-200/0.55R	500	330	390	26.4	
32-200/0.55				26.4	
32-200/0.75				31	
40-125/0.37R	450	250	300	16.9	
40-125/0.37				17	
40-160/0.55R	430	280	330	23.3	
40-160/0.55				23.4	
40-200/1.1R	500	330	390	31.7	
40-200/1.1				31.8	
40-200/1.5				33	
50-125/0.55R	430	280	330	22.5	
50-125/0.55				22.6	
50-160/1.1R	500	330	390	31.5	
50-160/1.1				31.6	
50-200/1.5R				32.7	
50-200/1.5				33.8	
50-200/2.2				32.7	
65-125/0.55	500	330	390	24.3	
65-125/0.75				22	
65-125/1.1				26.5	
65-160/1.1				31	
65-160/1.5				34	
65-160/2.2				35	
65-200/2.2R	620	410	475	35	2
65-200/2.2				35	
65-200/3				40	
65-250/4	800	495	550	92	
65-250/5.5				106	
80-160/1.5	620	410	475	58	
80-160/2.2R				58	
80-160/2.2				58	
80-200/3	800	495	550	78	
80-250/4R				85	
80-250/4				86	
80-250/5.5R				99	
80-250/5.5				103	

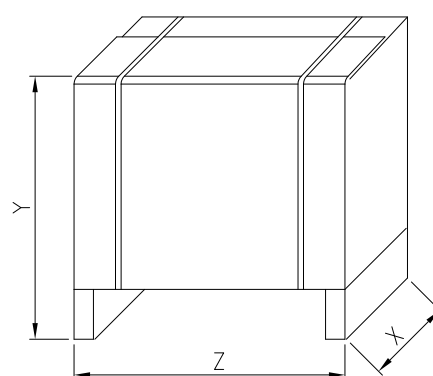


PACKING 3(.).S4

Pump type	Packing [mm]			Weight [kgf]	Pack type
	Z	X	Y		
32-125/0.25	450	250	300	17.5	1
32-160/0.37R	430	280	330	21.5	
32-160/0.37				21.3	
32-200/0.55R	500	330	390	30.1	2
32-200/0.55				34.3	
32-200/0.75	720	370	430	32.3	
40-125/0.37R	450	250	300	18.5	1
40-125/0.37				18.8	
40-160/0.55R	490	280	340	25.5	
40-160/0.55				25.6	
40-200/1.1R	720	370	430	35.4	2
40-200/1.1				35.4	
40-200/1.5				40.7	
50-125/0.55R	490	280	340	25.9	1
50-125/0.55				25.9	
50-160/1.1R	720	370	430	40	2
50-160/1.1				40	
50-200/1.5R				38.6	
50-200/1.5				38.6	
50-200/2.2				47.5	
65-125/0.55	600	370	420	28	
65-125/0.75				33	
65-125/1.1				37.1	
65-160/1.1				39	
65-160/1.5				40	
65-160/2.2	620	410	475	45	
65-200/2.2R				50	
65-200/2.2				50	
65-200/3				50	
65-250/4	800	495	550	95	
65-250/5.5				116	
80-160/1.5	620	410	475	69.5	
80-160/2.2R	720			75.5	
80-160/2.2				76	
80-200/3	800	495	550	88	
80-200/4R				94	
80-200/4				97	
80-250/5.5R				124	
80-250/5.5				125	
80-250/7.5				130	



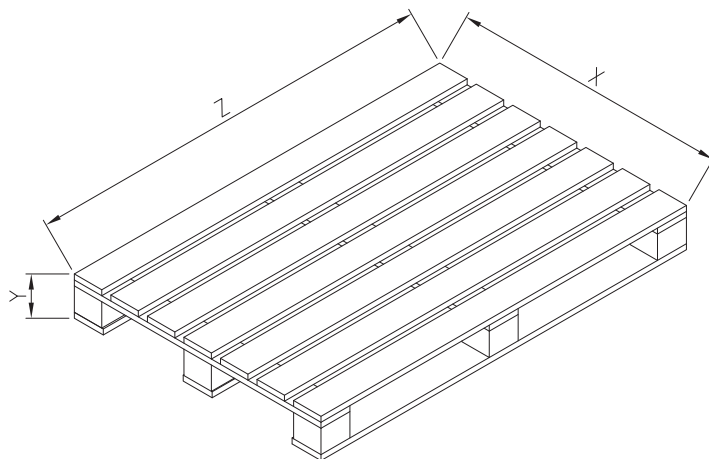
TYPE 1



TYPE 2

PACKING 3(.).P4

Pump type	Packing [mm]			Weight [kgf]
	Z	X	Y	
32-125/0.25	1200	800	125	37
32-160/0.37R				41
32-160/0.37				41
32-200/0.55R				53.5
32-200/0.55				53.5
32-200/0.75				54.5
40-125/0.37R				46.5
40-125/0.37				46.5
40-160/0.55R				44.5
40-160/0.55				44.5
40-200/1.1R				61.5
40-200/1.1				61.5
40-200/1.5				64
50-125/0.55R				45
50-125/0.55				45
50-160/1.1R				52.5
50-160/1.1				52.5
50-200/1.5R				64
50-200/1.5				64
50-200/2.2				70
65-125/0.55				48.5
65-125/0.75				50
65-125/1.1				56
65-160/1.1				62.5
65-160/1.5				63.5
65-160/2.2				71.5
65-200/2.2R				74
65-200/2.2				74
65-200/3				77.5
65-250/4				113.5
65-250/5.5				130
80-160/1.5				80
80-160/2.2R				86
80-160/2.2				100.5
80-200/3				109.5
80-200/4R				116.5
80-200/4				117
80-250/5.5R				134
80-250/5.5				134.5
80-250/7.5				143.5



MOTOR DATA 3(.)M4

Pump type	Power		Efficiency	Input [kW]	Efficiency (% load) and power-factor				Full load current			Locked rotor current		
	[kW]	[HP]			η %			$\cos-\phi$	[A]			[A]		
					50%	75%	100%		230 V	400 V	690 V	230 V	400 V	690 V
3(.M4 32-125/0.25	0.25	0.33	IE1	0.55	-	-	-	-	1.9	1.1	-	7.3	4.2	-
3(.M4 32-160/0.37R	0.37	0.5	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 32-160/0.37	0.37	0.5	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 32-200/0.55R	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 32-200/0.55	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 32-200/0.75	0.75	1	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 40-125/0.37R	0.37	0.5	IE1	0.55	-	-	-	-	1.9	1.1	-	7.3	4.2	-
3(.M4 40-125/0.37	0.37	0.5	IE1	0.55	-	-	-	-	1.9	1.1	-	7.3	4.2	-
3(.M4 40-160/0.55R	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 40-160/0.55	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 40-200/1.1R	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 40-200/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 40-200/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	-	45.0	26.0	-
3(.M4 50-125/0.55R	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 50-125/0.55	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 50-160/1.1R	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 50-160/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 50-200/1.5R	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	-	45.0	26.0	-
3(.M4 50-200/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	-	45.0	26.0	-
3(.M4 50-200/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3(.M4 65-125/0.55	0.55	0.75	IE1	0.80	-	-	-	-	2.6	1.5	-	9.9	5.7	-
3(.M4 65-125/0.75	0.75	1	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 65-125/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 65-160/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	-	32.0	18.5	-
3(.M4 65-160/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	-	45.0	26.0	-
3(.M4 65-160/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3(.M4 65-200/2.2R	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3(.M4 65-200/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3(.M4 65-200/3	3	4	IE2	3.54	81.6	86.1	89.0	0.75	11.8	6.8	-	79.7	46.0	-
3LM4 65-250/4	4	5.5	IE2	4.75	87.6	89.0	88.5	0.80	14.9	8.6	-	105.7	61.0	-
3LM4 65-250/5.5	5.5	7.5	IE2	6.52	74.7	81.9	88.6	0.83	-	11.3	6.6	-	114.0	66.1
3LM4 80-160/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	-	45.0	26.0	-
3LM4 80-160/2.2R	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3LM4 80-160/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	-	52.0	30.0	-
3LM4 80-200/3	3	4	IE2	3.54	81.6	86.1	89.0	0.75	11.8	6.8	-	79.7	46.0	-
3LM4 80-200/4R	4	5.5	IE2	4.75	87.6	89.0	88.5	0.80	14.9	8.6	-	105.7	61.0	-
3LM4 80-200/4	4	5.5	IE2	4.75	87.6	89.0	88.5	0.80	14.9	8.6	-	105.7	61.0	-
3LM4 80-250/5.5R	5.5	7.5	IE2	6.52	74.7	81.9	88.6	0.83	-	11.3	6.6	-	114.0	66.1
3LM4 80-250/5.5	5.5	7.5	IE2	6.52	74.7	81.9	88.6	0.83	-	11.3	6.6	-	114.0	66.1

MOTOR DATA 3(.)S4-3(.)P4

Pump type		Power		Efficiency	Input	Efficiency (% load) and power-factor				Full load current			Locked rotor current		
3(.)S4	3(.)P4	[kW]	[HP]		[kW]	η %			$\cos-\phi$	[A]			[A]		
						50%	75%	100%		230 V	400 V	690 V	230 V	400 V	690 V
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	0.25	0.33	IE1	0.41	55.0	59.0	64.0	0.66	1.6	0.9	-	5.0	2.9	-
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R	0.37	0.5	IE1	0.56	60.0	63.0	67.0	0.67	2.1	1.2	-	6.8	3.9	-
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37	0.37	0.5	IE1	0.56	60.0	63.0	67.0	0.67	2.1	1.2	-	8.5	4.9	-
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	11.6	6.7	-
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75	0.75	1	IE2	0.95	79.2	80.3	80.2	0.76	3.1	1.8	-	17.1	9.9	-
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	0.37	0.5	IE1	0.56	60.0	63.0	67.0	0.67	2.1	1.2	-	6.8	3.9	-
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37	0.37	0.5	IE1	0.56	60.0	63.0	67.0	0.67	2.1	1.2	-	6.8	3.9	-
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	-	37.6	21.7	-
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	-	37.6	21.7	-
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5	1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	-	37.6	21.7	-
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	0.55	0.75	IE1	0.80	67.0	69.0	70.0	0.72	2.8	1.6	-	9.9	5.7	-
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75	0.75	1	IE2	0.95	79.2	80.3	80.2	0.76	3.1	1.8	-	17.1	9.9	-
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	-	26.3	15.2	-
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	-	37.6	21.7	-
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3(.)S4 65-200/3	3(.)P4 65-200/3	3	4	IE2	3.47	85.3	86.6	86.4	0.77	11.3	6.5	-	71.0	41.0	-
3LS4 65-250/4	3LP4 65-250/4	4	5.5	IE2	4.59	86.0	87.3	87.1	0.78	14.7	8.5	-	89.7	51.8	-
3LS4 65-250/5.5	3LP4 65-250/5.5	5.5	7.5	IE2	6.29	87.5	88.3	88.1	0.84	-	10.8	6.2	-	79.9	46.1
3LS4 80-160/1.5	3LP4 80-160/1.5	1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	-	37.6	21.7	-
3LS4 80-160/2.2R	3LP4 80-160/2.2R	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3LS4 80-160/2.2	3LP4 80-160/2.2	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	-	53.0	30.6	-
3LS4 80-200/3	3LP4 80-200/3	3	4	IE2	3.47	85.3	86.6	86.4	0.77	11.3	6.5	-	71.0	41.0	-
3LS4 80-200/4R	3LP4 80-200/4R	4	5.5	IE2	4.59	86.0	87.3	87.1	0.78	14.7	8.5	-	89.7	51.8	-
3LS4 80-200/4	3LP4 80-200/4	4	5.5	IE2	4.59	86.0	87.3	87.1	0.78	14.7	8.5	-	89.7	51.8	-
3LS4 80-250/5.5R	3LP4 80-250/5.5R	5.5	7.5	IE2	6.29	87.5	88.3	88.1	0.84	-	10.8	6.2	-	79.9	46.1
3LS4 80-250/5.5	3LP4 80-250/5.5	5.5	7.5	IE2	6.29	87.5	88.3	88.1	0.84	-	10.8	6.2	-	79.9	46.1
3LS4 80-250/7.5	3LP4 80-250/7.5	7.5	10	IE2	8.48	88.5	89.4	89.2	0.85	-	14.4	8.3	-	106.5	61.5

NOISE DATA 3(.)M4

Pump type	Power		LpA - dB(A) *
	[kW]	[HP]	
3(.)M4 32-125/0.25	0.25	0.33	<70
3(.)M4 32-160/0.37R	0.37	0.5	
3(.)M4 32-160/0.37	0.37	0.5	
3(.)M4 32-200/0.55R	0.55	0.75	
3(.)M4 32-200/0.55	0.55	0.75	
3(.)M4 32-200/0.75	0.75	1	
3(.)M4 40-125/0.37R	0.37	0.5	
3(.)M4 40-125/0.37	0.37	0.5	
3(.)M4 40-160/0.55R	0.55	0.75	
3(.)M4 40-160/0.55	0.55	0.75	
3(.)M4 40-200/1.1R	1.1	1.5	
3(.)M4 40-200/1.1	1.1	1.5	
3(.)M4 40-200/1.5	1.5	2	
3(.)M4 50-125/0.55R	0.55	0.75	
3(.)M4 50-125/0.55	0.55	0.75	
3(.)M4 50-160/1.1R	1.1	1.5	
3(.)M4 50-160/1.1	1.1	1.5	
3(.)M4 50-200/1.5R	1.5	2	
3(.)M4 50-200/1.5	1.5	2	
3(.)M4 50-200/2.2	2.2	3	
3(.)M4 65-125/0.55	0.55	0.75	
3(.)M4 65-125/0.75	0.75	1	
3(.)M4 65-125/1.1	1.1	1.5	
3(.)M4 65-160/1.1	1.1	1.5	
3(.)M4 65-160/1.5	1.5	2	
3(.)M4 65-160/2.2	2.2	3	
3(.)M4 65-200/2.2R	2.2	3	
3(.)M4 65-200/2.2	2.2	3	
3(.)M4 65-200/3	3	4	
3LM4 65-250/4	4	5.5	71
3LM4 65-250/5.5	5.5	7.5	
3LM4 80-160/1.5	1.5	2	<70
3LM4 80-160/2.2R	2.2	3	
3LM4 80-160/2.2	2.2	3	
3LM4 80-200/3	3	4	
3LM4 80-200/4R	4	5.5	
3LM4 80-200/4	4	5.5	
3LM4 80-250/5.5R	5.5	7.5	71
3LM4 80-250/5.5	5.5	7.5	

*Mean value of several measures at 1m distance around the pump.
Tolerance ± 2.5 dB.

NOISE DATA 3(.)S4-3(.)P4

Pump type		Power		LpA - dB(A) *
3(.)S4	3(.)P4	[kW]	[HP]	
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	0.25	0.33	<70
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R	0.37	0.5	
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37	0.37	0.5	
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	0.55	0.75	
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55	0.55	0.75	
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75	0.75	1	
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	0.37	0.5	
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37	0.37	0.5	
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	0.55	0.75	
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55	0.55	0.75	
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	1.1	1.5	
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1	1.1	1.5	
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	1.5	2	
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	0.55	0.75	
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55	0.55	0.75	
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	1.1	1.5	
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1	1.1	1.5	
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	1.5	2	
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5	1.5	2	
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	2.2	3	
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	0.55	0.75	
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75	0.75	1	
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	1.1	1.5	
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1	1.1	1.5	
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	1.5	2	
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	2.2	3	
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R	2.2	3	
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2	2.2	3	
3(.)S4 65-200/3	3(.)P4 65-200/3	3	4	
3LS4 65-250/4	3LP4 65-250/4	4	5.5	
3LS4 65-250/5.5	3LP4 65-250/5.5	5.5	7.5	
3LS4 80-160/1.5	3LP4 80-160/1.5	1.5	2	
3LS4 80-160/2.2R	3LP4 80-160/2.2R	2.2	3	
3LS4 80-160/2.2	3LP4 80-160/2.2	2.2	3	
3LS4 80-200/3	3LP4 80-200/3	3	4	
3LS4 80-200/4R	3LP4 80-200/4R	4	5.5	
3LS4 80-200/4	3LP4 80-200/4	4	5.5	
3LS4 80-250/5.5R	3LP4 80-250/5.5R	5.5	7.5	
3LS4 80-250/5.5	3LP4 80-250/5.5	5.5	7.5	
3LS4 80-250/7.5	3LP4 80-250/7.5	7.5	10	

*Mean value of several measures at 1m distance around the pump.

Tolerance ± 2.5 dB.

Sound pressure level of motor pumps with AEG