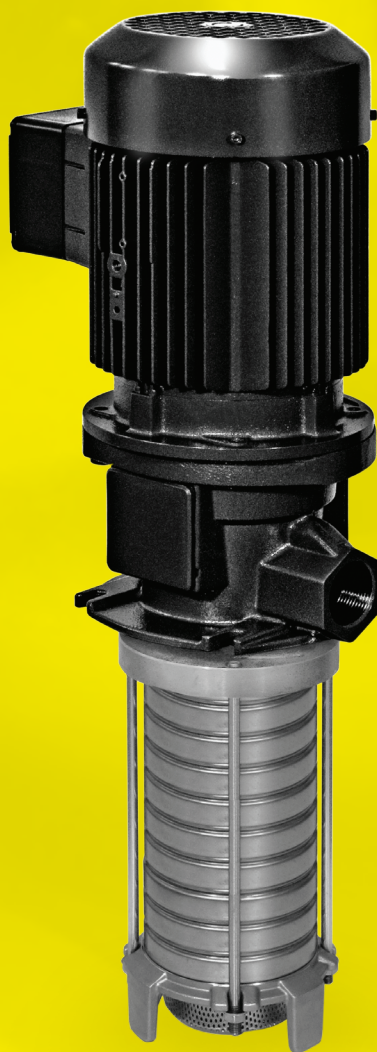


**Spandau
pumpen**

by EBARA

PSR - Centrifugal pumps

Data Book 50Hz



Quality Management
ISO 9001: 2015

Environmental Management
ISO 14001:2015



www.ebara-europe.com

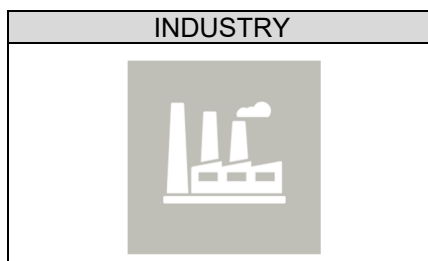
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DEFINITION AND USE OF PSR

PSR pumps are vertical multistage coolant pumps

TYPICAL APPLICATIONS



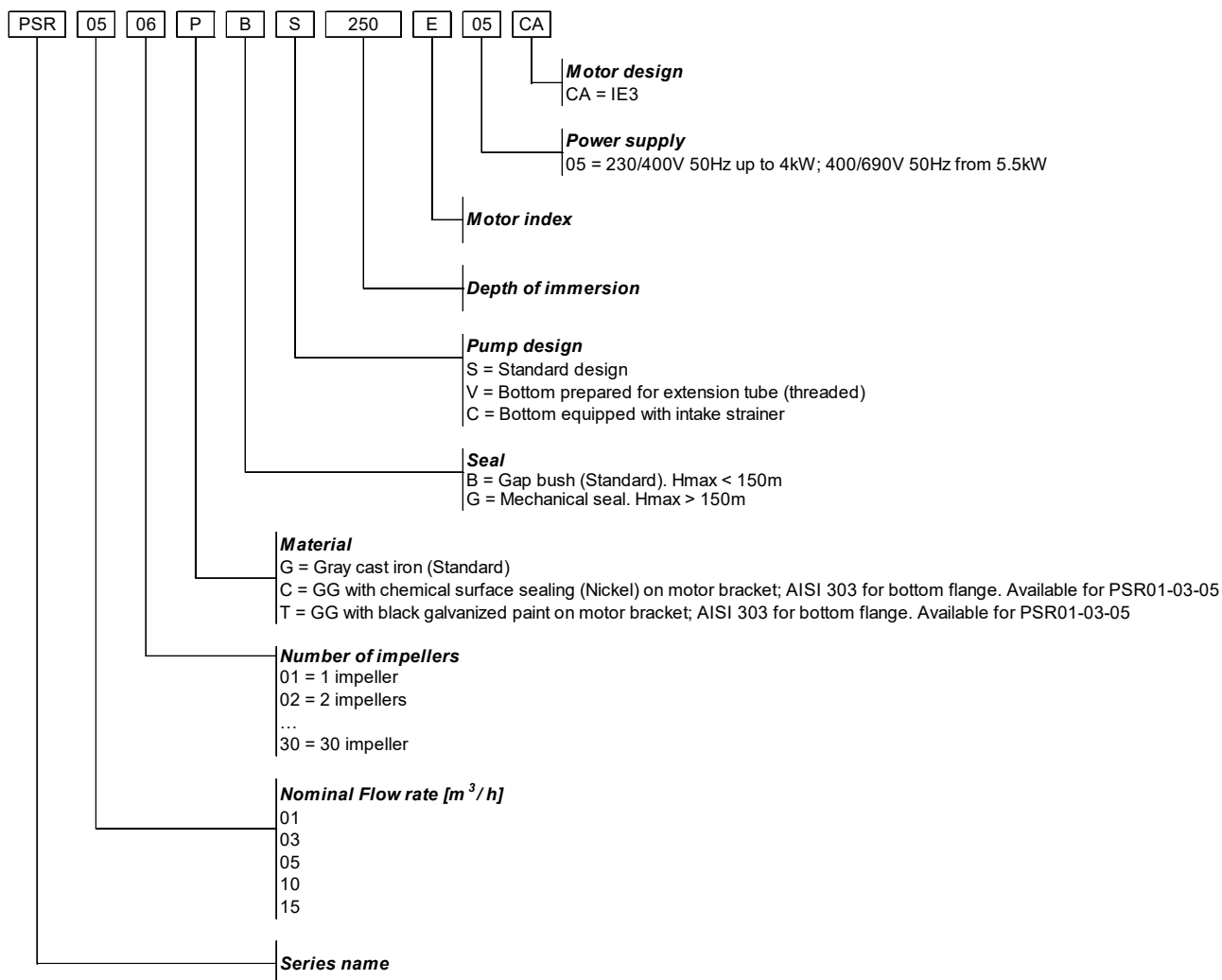
FEATURES

- Vertical multistage coolant pump
- Connector dimensions as per EN 12157
- For delivery of slightly contaminated types of fluids
- Installation directly into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G1"1/4 or G2" depending on the size

OPERATING CONDITIONS

- Delivery rate
 $Q_{\max} = 400 \text{ l/min}$
- Delivery head
 $H_{\max} = 250 \text{ m}$
- Temperature range
 $T = -10^{\circ}\text{C to } +80^{\circ}\text{C}$
- Kinematic viscosity
 $\nu_{\max} = 20 \text{ mm}^2/\text{s}$

TYPE KEY



PRODUCT SPECIFICATIONS

TECHNICAL PUMP DATA

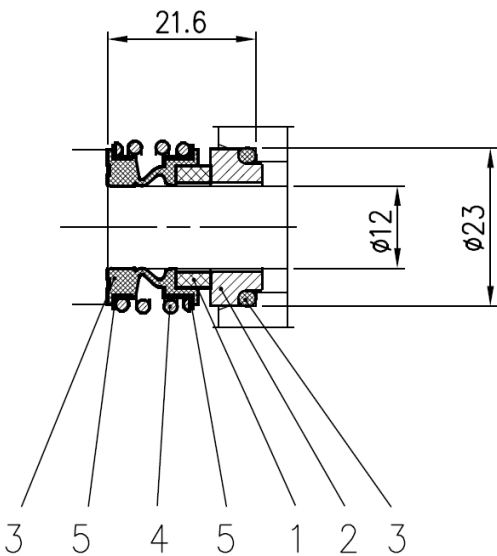
PUMP																
Series		PSR														
Material		G					C					T				
Operating range	Nominal flow rate (m3/h)	1	3	5	10	15	1	3	5	10	15	1	3	5	10	15
	Maximum working pressure	25 bar														
	Liquid temperature range	-10°C ÷ +80°C														
Key Components Material	Impeller	EN 1.4301 (AISI 304)														
	Intermediate casing	EN 1.4301 (AISI 304)														
	Liner ring	EN 1.4301 (AISI 304) + PPS														
	Bottom flange	Cast iron (naked)					EN 1.4305 (AISI 303)		Not available		EN 1.4305 (AISI 303)		Not available			
	Pump support	Cast iron (black painted)					Cast iron Nickel coating		Not available		Cast iron Galvanic paint		Not available			
	Shaft	EN 1.4301 (AISI 304) EN 1.4462 (AISI 329A) Depending on the model														
	Shaft sleeve bearing	Tungsten carbide														
	Shaft seal	See shaft seal details														
	O-ring	FPM														
	Tie rod	AISI 431														
	Coupling	Aluminum			Steel		Aluminum			Steel		Aluminum			Steel	
Pipe Connetion	Thread	G1 ¼ “			G 2”		G1 ¼ “			G 2”		G1 ¼ “			G 2”	

TECHNICAL MOTOR DATA

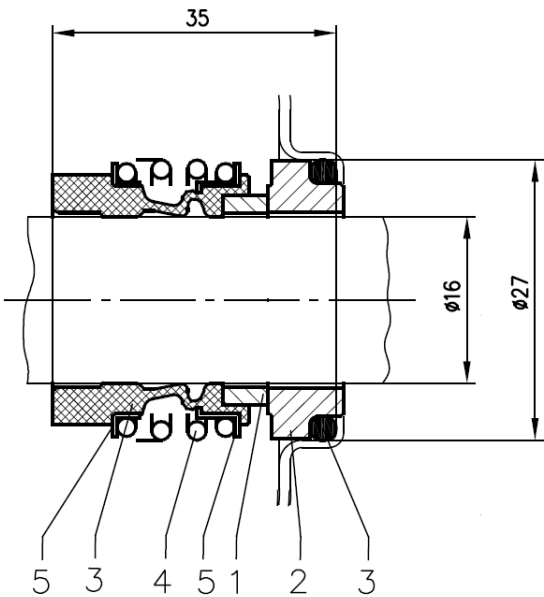
MOTOR		
Version		PSR(.)
Power source	Frequency	50 Hz
	Phase	Three-phase
	Rotation speed	2900 min-1
	Power rating	0.37 ÷ 15 kW
		0.50 ÷ 20 HP
	Voltage	230/400 ± 10% V (up to 4kW) 400/690 ± 10% V (above 5.5kW)
Type	Type	Electric - TEFC
	Efficiency level	IE3
	N° of poles	2
	Protection degree	IP 55
	Insulation class	F (temperature rise class B)
Others	Thermal Protection	-
	Casing Material	Aluminium
	Flange mount (IEC motor)	IM B5 (PSR10-15)

MECHANICAL SEAL DATA

PSR01-03-05



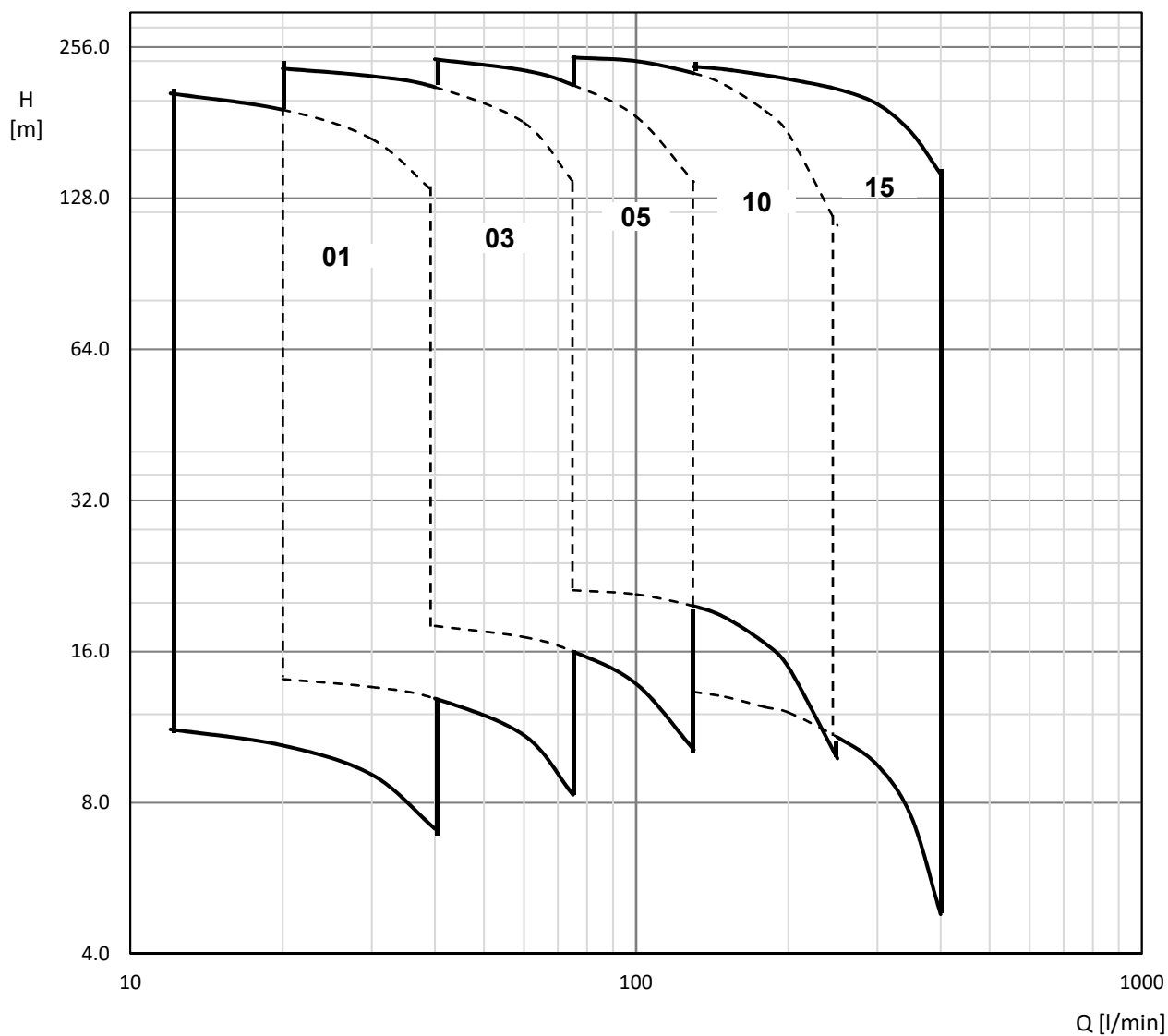
PSR10-15



PUMP SIZE	MECHANICAL SEAL TYPE	MECHANICAL SEAL MATERIAL									
		1		2		3		4		5	
		Rotating part	code	Stationary part	code	Elastomers	code	Compression spring	code	Collar	code
PSR01-03-05	BQ1VGG	Carbon	B	SiC	Q1	FPM	V	AISI 316	G	AISI 316	G
PSR10-15	BQ1VGG	Carbon	B	SiC	Q1	FPM	V	AISI 316	G	AISI316	G

PERFORMANCE RANGE

PSR01-03-05-10-15



CURVE SPECIFICATION

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

Tolerances according to ISO 9906:2012 – Grade 3B.

The curves refer to effective speed of asynchronous motors at 50Hz 2 poles

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

Symbols explanation:

- Q = volume flow rate
- H = total head
- P2 = pump power input (shaft power)
- η = pump efficiency

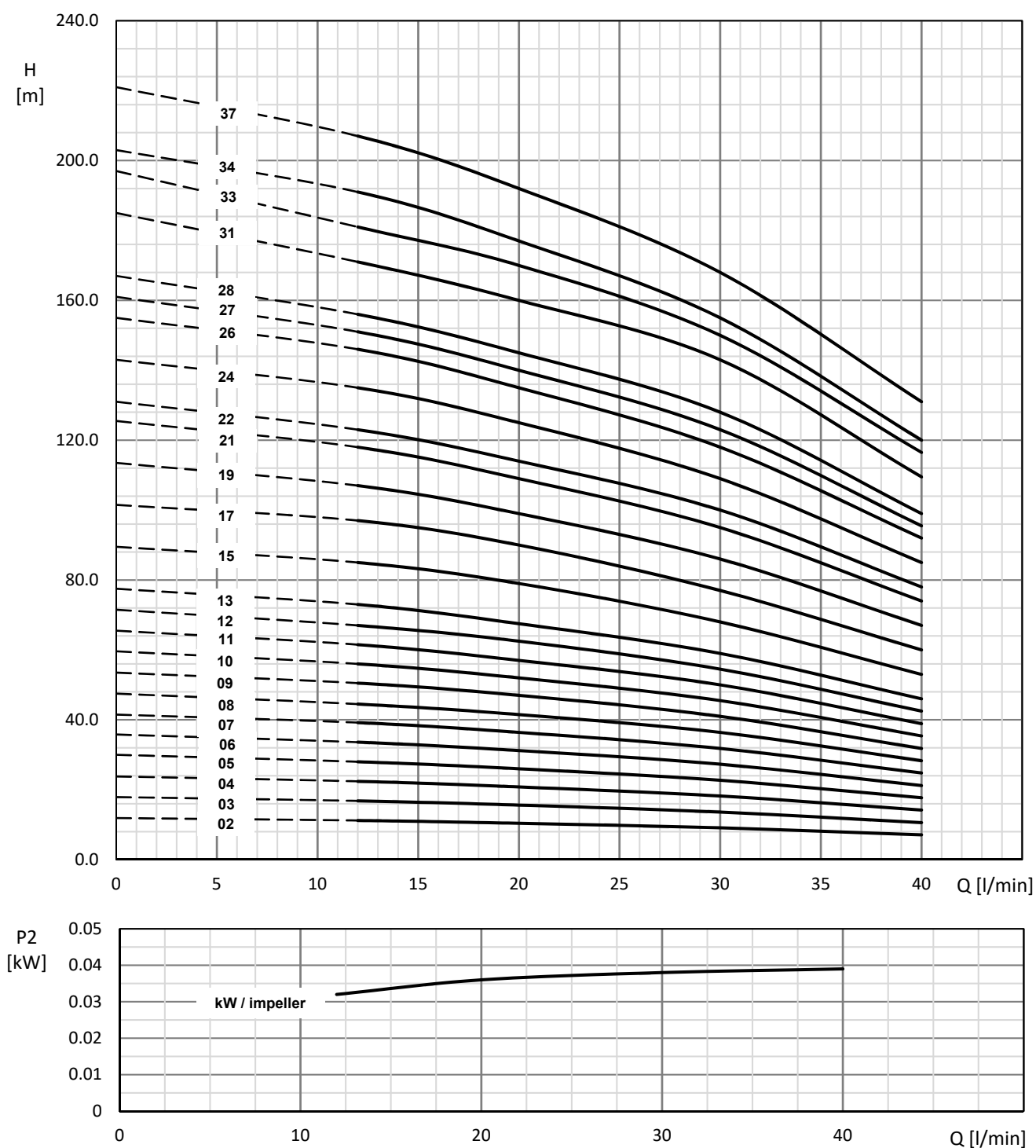
SELECTION CHART PSR01-03-05

	Model	Motor		Configuration	Q=Capacity									
		kW	HP		l/min	0	12	20	30	40	60	75	100	130
					m³/h	0	0.7	1.2	1.8	2.4	3.6	4.5	6.0	7.8
H=Total manometric head in meters														
01	PSR0102(.)	0.37	0.5	Extended shaft	11.9	11.2	10.4	9.1	7.1	-	-	-	-	-
	PSR0103(.)	0.37	0.5	Extended shaft	17.9	16.8	15.6	13.6	10.6	-	-	-	-	-
	PSR0104(.)	0.37	0.5	Extended shaft	23.8	22.4	20.8	18.2	14.2	-	-	-	-	-
	PSR0105(.)	0.37	0.5	Extended shaft	30.0	28.0	26.0	22.7	17.7	-	-	-	-	-
	PSR0106(.)	0.37	0.5	Extended shaft	35.8	33.6	31.2	27.3	21.2	-	-	-	-	-
	PSR0107(.)	0.37	0.5	Extended shaft	41.5	39.2	36.4	31.8	24.8	-	-	-	-	-
	PSR0108(.)	0.37	0.5	Extended shaft	47.5	44.5	41.5	36.4	28.3	-	-	-	-	-
	PSR0109(.)	0.55	0.75	Extended shaft	53.5	50.5	47.0	41.0	31.8	-	-	-	-	-
	PSR0110(.)	0.55	0.75	Extended shaft	59.6	56.0	52.0	45.5	35.4	-	-	-	-	-
	PSR0111(.)	0.55	0.75	Extended shaft	65.5	61.5	57.0	50.0	38.9	-	-	-	-	-
	PSR0112(.)	0.55	0.75	Extended shaft	71.5	67.0	62.5	54.5	42.5	-	-	-	-	-
	PSR0113(.)	0.55	0.75	Extended shaft	77.5	73.0	67.5	59.0	46.0	-	-	-	-	-
	PSR0115(.)	0.75	1	Extended shaft	89.5	85.0	79.0	68.0	53.0	-	-	-	-	-
	PSR0117(.)	1.1	1.5	With coupling	101.5	97.0	90.0	77.0	60.0	-	-	-	-	-
	PSR0119(.)	1.1	1.5	With coupling	113.5	107.0	99.0	86.0	67.0	-	-	-	-	-
	PSR0121(.)	1.1	1.5	With coupling	125.5	118.0	109.0	95.0	74.0	-	-	-	-	-
	PSR0122(.)	1.1	1.5	With coupling	131.0	123.0	114.0	100.0	78.0	-	-	-	-	-
	PSR0124(.)	1.1	1.5	With coupling	143.0	135.0	125.0	109.0	85.0	-	-	-	-	-
	PSR0126(.)	1.5	2	With coupling	155.0	146.0	135.0	118.0	92.0	-	-	-	-	-
	PSR0127(.)	1.5	2	With coupling	161.0	151.0	140.0	123.0	95.5	-	-	-	-	-
	PSR0128(.)	1.5	2	With coupling	167.0	156.0	145.0	128.0	99.0	-	-	-	-	-
	PSR0131(.)	1.5	2	With coupling	185.0	171.0	160.0	143.0	109.5	-	-	-	-	-
	PSR0133(.)	1.5	2	With coupling	197.0	181.0	170.0	150.0	116.5	-	-	-	-	-
	PSR0134(.)	1.5	2	With coupling	203.0	191.0	177.0	155.0	120.0	-	-	-	-	-
	PSR0137(.)	2.2	3	With coupling	221.0	207.0	192.0	168.0	131.0	-	-	-	-	-
03	PSR0302(.)	0.37	0.5	Extended shaft	14.7	-	14.1	13.6	12.9	10.9	8.3	-	-	-
	PSR0303(.)	0.37	0.5	Extended shaft	22.1	-	21.1	20.4	19.4	16.4	12.5	-	-	-
	PSR0304(.)	0.37	0.5	Extended shaft	29.5	-	28.2	27.1	25.8	21.9	16.7	-	-	-
	PSR0305(.)	0.55	0.75	Extended shaft	36.9	-	35.2	33.9	32.3	27.4	20.9	-	-	-
	PSR0306(.)	0.55	0.75	Extended shaft	44.2	-	42.5	40.5	38.8	32.8	25.0	-	-	-
	PSR0307(.)	0.75	1	Extended shaft	51.5	-	49.5	47.5	45.0	38.3	29.2	-	-	-
	PSR0308(.)	0.75	1	Extended shaft	59.0	-	56.5	54.5	51.5	44.0	33.4	-	-	-
	PSR0309(.)	1.1	1.5	Extended shaft	66.5	-	63.5	61.0	58.0	49.0	37.6	-	-	-
	PSR0310(.)	1.1	1.5	Extended shaft	73.5	-	70.5	68.0	64.5	54.5	41.5	-	-	-
	PSR0311(.)	1.1	1.5	Extended shaft	81.0	-	77.5	74.5	71.0	60.0	46.0	-	-	-
	PSR0312(.)	1.1	1.5	Extended shaft	88.5	-	84.5	81.5	77.5	65.5	50.0	-	-	-
	PSR0313(.)	1.5	2	With coupling	96.0	-	91.5	88.0	84.0	71.0	54.5	-	-	-
	PSR0314(.)	1.5	2	With coupling	103.0	-	98.5	95.0	90.5	76.5	58.5	-	-	-
	PSR0316(.)	1.5	2	With coupling	118.0	-	113.0	109.0	103.0	87.5	67.0	-	-	-
	PSR0317(.)	2.2	2	With coupling	125.0	-	120.0	115.0	110.0	93.0	71.0	-	-	-
	PSR0319(.)	2.2	3	With coupling	140.0	-	134.0	129.0	123.0	104.0	79.5	-	-	-
	PSR0320(.)	2.2	3	With coupling	147.5	-	141.0	136.0	129.5	109.5	83.8	-	-	-
	PSR0321(.)	2.2	3	With coupling	155.0	-	148.0	142.0	136.0	115.0	87.5	-	-	-
	PSR0323(.)	2.2	3	With coupling	170.0	-	162.0	156.0	149.0	126.0	96.0	-	-	-
	PSR0325(.)	3	4	With coupling	184.0	-	176.0	170.0	161.0	137.0	104.0	-	-	-
	PSR0327(.)	3	4	With coupling	199.0	-	190.0	183.0	174.0	148.0	113.0	-	-	-
	PSR0330(.)	3	4	With coupling	221.5	-	211.0	202.5	193.5	164.5	126.5	-	-	-
	PSR0331(.)	3	4	With coupling	229.0	-	218.0	210.0	200.0	170.0	129.0	-	-	-
	PSR0333(.)	3	4	With coupling	243.0	-	232.0	224.0	213.0	181.0	138.0	-	-	-
	05	PSR0502(.)	0.37	0.5	Extended shaft	19.0	-	-	-	18.0	17.1	16.0	13.8	10.2
PSR0503(.)		0.55	0.75	Extended shaft	28.4	-	-	-	26.9	25.6	23.9	20.7	15.3	-
PSR0504(.)		0.75	1	Extended shaft	37.9	-	-	-	35.9	34.1	31.9	27.6	20.4	-
PSR0505(.)		1.1	1.5	Extended shaft	47.5	-	-	-	45.0	42.5	39.9	34.5	25.5	-
PSR0506(.)		1.5	2	With coupling	57.0	-	-	-	54.0	51.0	48.0	41.5	30.6	-
PSR0507(.)		1.5	2	With coupling	66.5	-	-	-	63.0	59.5	56.0	48.5	35.7	-
PSR0508(.)		2.2	3	With coupling	76.0	-	-	-	72.0	68.0	64.0	55.0	41.0	-
PSR0509(.)		2.2	3	With coupling	85.5	-	-	-	81.0	77.0	72.0	62.0	46.0	-
PSR0510(.)		2.2	3	With coupling	95.0	-	-	-	90.0	85.5	80.0	69.0	51.0	-
PSR0511(.)		2.2	3	With coupling	104.0	-	-	-	98.5	94.0	87.5	76.0	56.0	-
PSR0512(.)		3	4	With coupling	114.0	-	-	-	108.0	102.0	95.5	83.0	61.0	-
PSR0513(.)		3	4	With coupling	123.0	-	-	-	117.0	111.0	104.0	89.5	66.5	-
PSR0514(.)		3	4	With coupling	133.0	-	-	-	126.0	119.0	112.0	96.5	71.5	-
PSR0515(.)		3	4	With coupling	142.0	-	-	-	135.0	128.0	120.0	104.0	76.5	-
PSR0516(.)		4	5.5	With coupling	151.0	-	-	-	144.0	137.0	128.0	111.5	81.5	-
PSR0517(.)		4	5.5	With coupling	161.0	-	-	-	153.0	145.0	136.0	117.0	86.5	-
PSR0519(.)		4	5.5	With coupling	180.0	-	-	-	171.0	162.0	152.0	131.0	97.0	-
PSR0520(.)		4	5.5	With coupling	190.0	-	-	-	179.0	171.0	160.0	138.0	102.0	-
PSR0523(.)		5.5	7.5	With coupling	218.0	-	-	-	206.0	196.0	183.0	159.0	117.0	-
PSR0525(.)		5.5	7.5	With coupling	237.0	-	-	-	224.0	213.0	199.0	173.0	127.0	-
PSR0527(.)		5.5	7.5	With coupling	256.0	-	-	-	242.0	230.0	215.0	186.0	138.0	-

SELECTION CHART PSR10-15

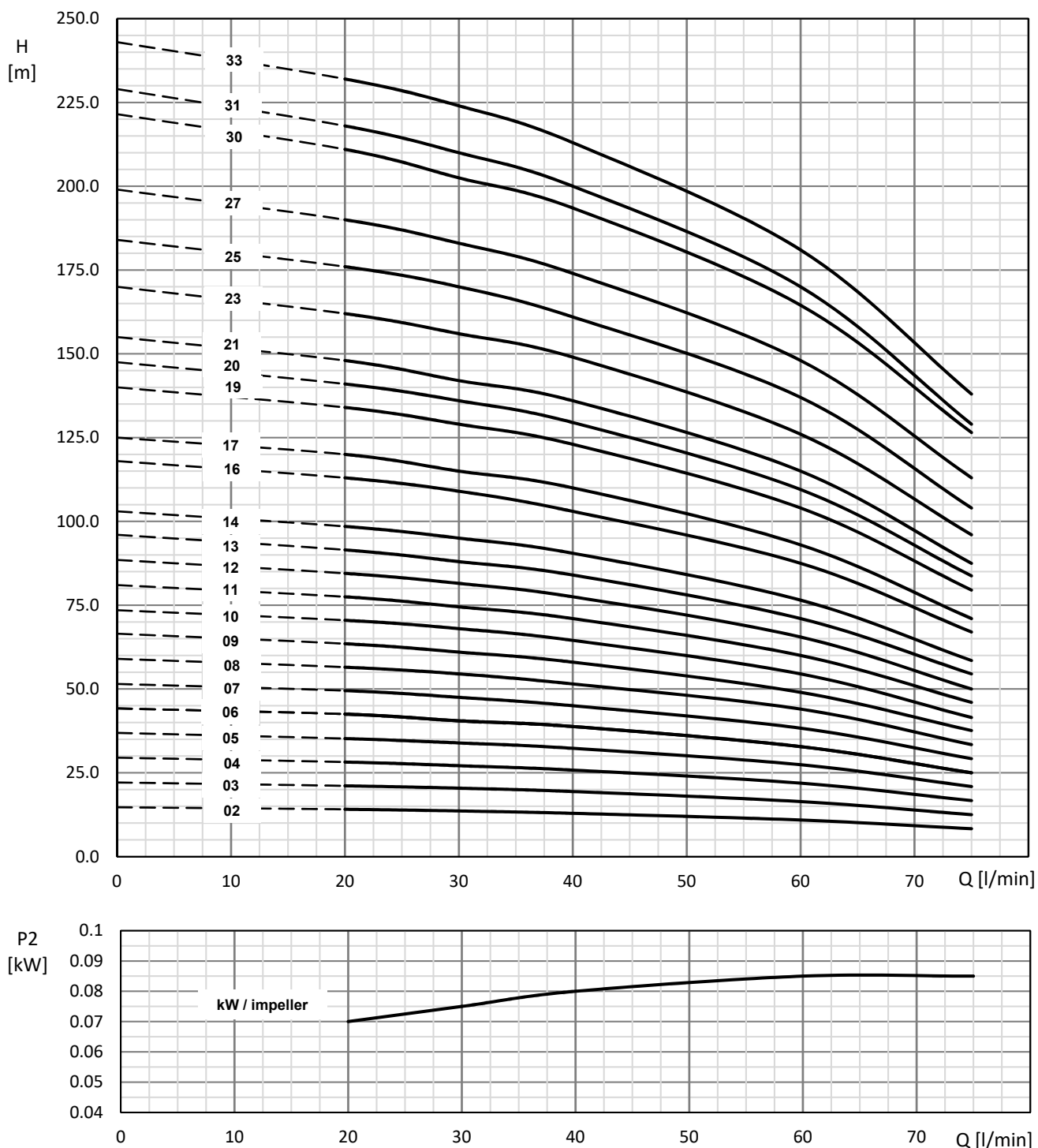
	Model	Motor		Configuration	Q=Capacity														
		kW	HP		l/min	0	75	100	130	150	180	200	250	300	350	400	450	480	
					m³/h	0	4.5	6.0	7.8	9.0	10.8	12.0	15.0	18.0	21.0	24.0	27.0	28.8	
					H=Total manometric head in meters														
10	PSR1002(.)	0.75	1	Single bearing	21.8	21.2	20.8	19.7	18.7	16.6	14.9	9.8	-	-	-	-	-		
	PSR1003(.)	1.5	2	Single bearing	32.7	31.8	31.2	29.6	28.0	24.9	22.4	14.7	-	-	-	-	-		
	PSR1004(.)	2.2	3	Single bearing	43.6	42.4	41.7	39.5	37.3	33.2	29.8	19.6	-	-	-	-	-		
	PSR1005(.)	2.2	3	Single bearing	54.5	53.0	52.0	49.3	46.7	41.5	37.3	24.6	-	-	-	-	-		
	PSR1006(.)	2.2	3	Single bearing	65.5	63.5	62.5	59.0	56.0	50.0	45.0	29.5	-	-	-	-	-		
	PSR1007(.)	3	4	Single bearing	76.5	74.0	73.0	69.0	65.5	58.0	52.0	34.4	-	-	-	-	-		
	PSR1008(.)	3	4	Single bearing	87.0	84.5	83.5	79.0	74.5	66.5	59.5	39.3	-	-	-	-	-		
	PSR1009(.)	4	5.5	Single bearing	98.0	95.5	93.5	89.0	84.0	74.5	67.0	44.0	-	-	-	-	-		
	PSR1010(.)	4	5.5	Single bearing	109.0	106.0	104.0	98.5	93.5	83.0	74.5	49.0	-	-	-	-	-		
	PSR1011(.)	4	5.5	Single bearing	120.0	116.0	115.0	109.0	103.0	91.5	82.0	54.0	-	-	-	-	-		
	PSR1012(.)	5.5	7.5	Double bearing	131.0	127.0	125.0	118.0	112.0	99.5	89.5	59.0	-	-	-	-	-		
	PSR1013(.)	5.5	7.5	Double bearing	142.0	138.0	135.0	127.0	121.0	107.5	97.0	64.0	-	-	-	-	-		
	PSR1014(.)	5.5	7.5	Double bearing	153.0	148.0	146.0	138.0	131.0	116.0	104.0	68.5	-	-	-	-	-		
	PSR1015(.)	5.5	7.5	Double bearing	163.0	159.0	156.0	148.0	140.0	124.0	112.0	73.5	-	-	-	-	-		
	PSR1016(.)	7.5	10	Double bearing	174.0	169.0	167.0	158.0	149.0	133.0	119.0	78.5	-	-	-	-	-		
	PSR1018(.)	7.5	10	Double bearing	196.0	191.0	187.0	178.0	168.0	149.0	134.0	88.5	-	-	-	-	-		
	PSR1019(.)	7.5	10	Double bearing	207.0	201.0	198.0	188.0	177.0	158.0	142.0	93.5	-	-	-	-	-		
	PSR1021(.)	7.5	10	Double bearing	229.0	222.0	219.0	207.0	196.0	174.0	157.0	103.0	-	-	-	-	-		
PSR1022(.)	11	15	Double bearing	240.0	233.0	229.0	217.0	205.0	183.0	164.0	108.0	-	-	-	-	-			
PSR1023(.)	11	15	Double bearing	251.0	244.0	240.0	227.0	215.0	191.0	172.0	113.0	-	-	-	-	-			
15	PSR1501(.)	1.1	1.5	Single bearing	14.9	-	-	14.1	13.9	13.5	13.3	12.5	11.5	10.2	8.0	-	-		
	PSR1502(.)	2.2	3	Single bearing	29.5	-	-	27.5	27.1	26.5	26.1	24.9	23.1	20.4	16.8	-	-		
	PSR1503(.)	3	4	Single bearing	44.5	-	-	41.5	40.5	39.7	39.1	37.3	34.7	30.6	25.2	-	-		
	PSR1504(.)	4	5.5	Single bearing	59.0	-	-	55.0	54.5	53.0	52.0	50.0	46.5	41.0	33.6	-	-		
	PSR1505(.)	5.5	7.5	Double bearing	73.5	-	-	69.0	68.0	66.0	65.0	62.0	58.0	51.0	42.0	-	-		
	PSR1506(.)	5.5	7.5	Double bearing	88.5	-	-	82.5	81.5	79.5	78.0	74.5	69.5	61.0	50.5	-	-		
	PSR1507(.)	7.5	10	Double bearing	103.0	-	-	96.5	95.0	92.5	91.0	87.0	81.0	71.5	58.5	-	-		
	PSR1508(.)	7.5	10	Double bearing	118.0	-	-	110.0	109.0	106.0	104.0	99.5	92.5	81.5	67.0	-	-		
	PSR1509(.)	11	15	Double bearing	133.0	-	-	124.0	122.0	119.0	117.0	112.0	104.0	92.0	75.5	-	-		
	PSR1510(.)	11	15	Double bearing	147.0	-	-	138.0	136.0	132.0	130.0	124.0	116.0	102.0	84.0	-	-		
	PSR1511(.)	11	15	Double bearing	162.0	-	-	151.0	149.0	146.0	143.0	137.0	127.0	112.0	92.5	-	-		
	PSR1513(.)	11	15	Double bearing	191.0	-	-	179.0	176.0	172.0	169.0	162.0	150.0	133.0	109.0	-	-		
	PSR1515(.)	15	20	Double bearing	221.0	-	-	206.0	203.0	199.0	195.0	187.0	174.0	153.0	126.0	-	-		
	PSR1517(.)	15	20	Double bearing	250.0	-	-	234.0	231.0	225.0	221.0	211.0	197.0	173.0	143.0	-	-		

PSR01(.)



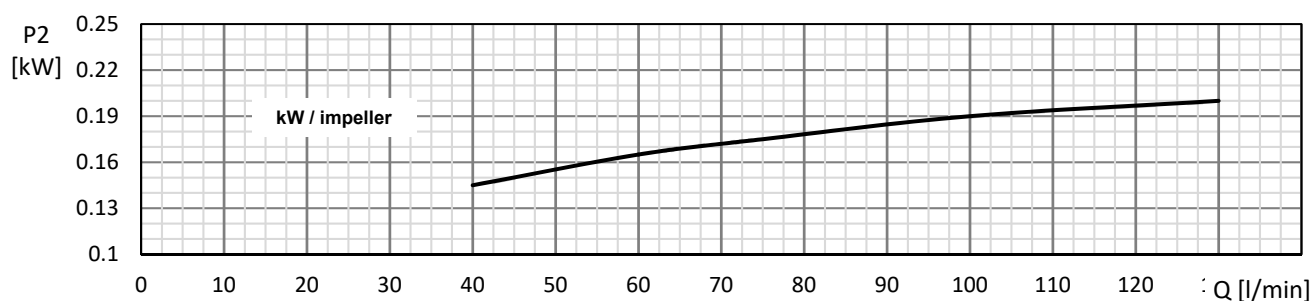
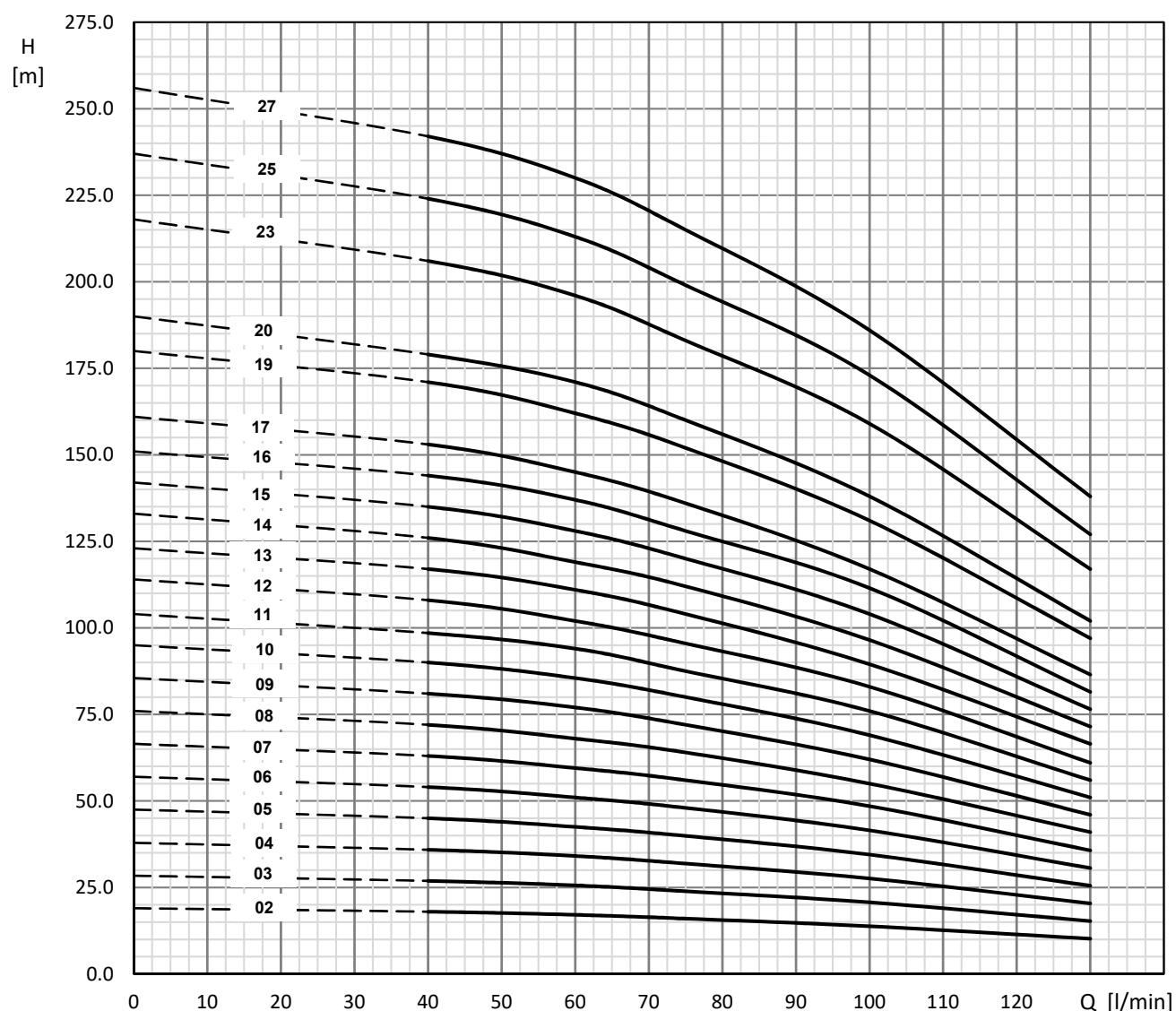
Test standard: ISO 9906: 2012 - Grade 3B

PSR03(.)



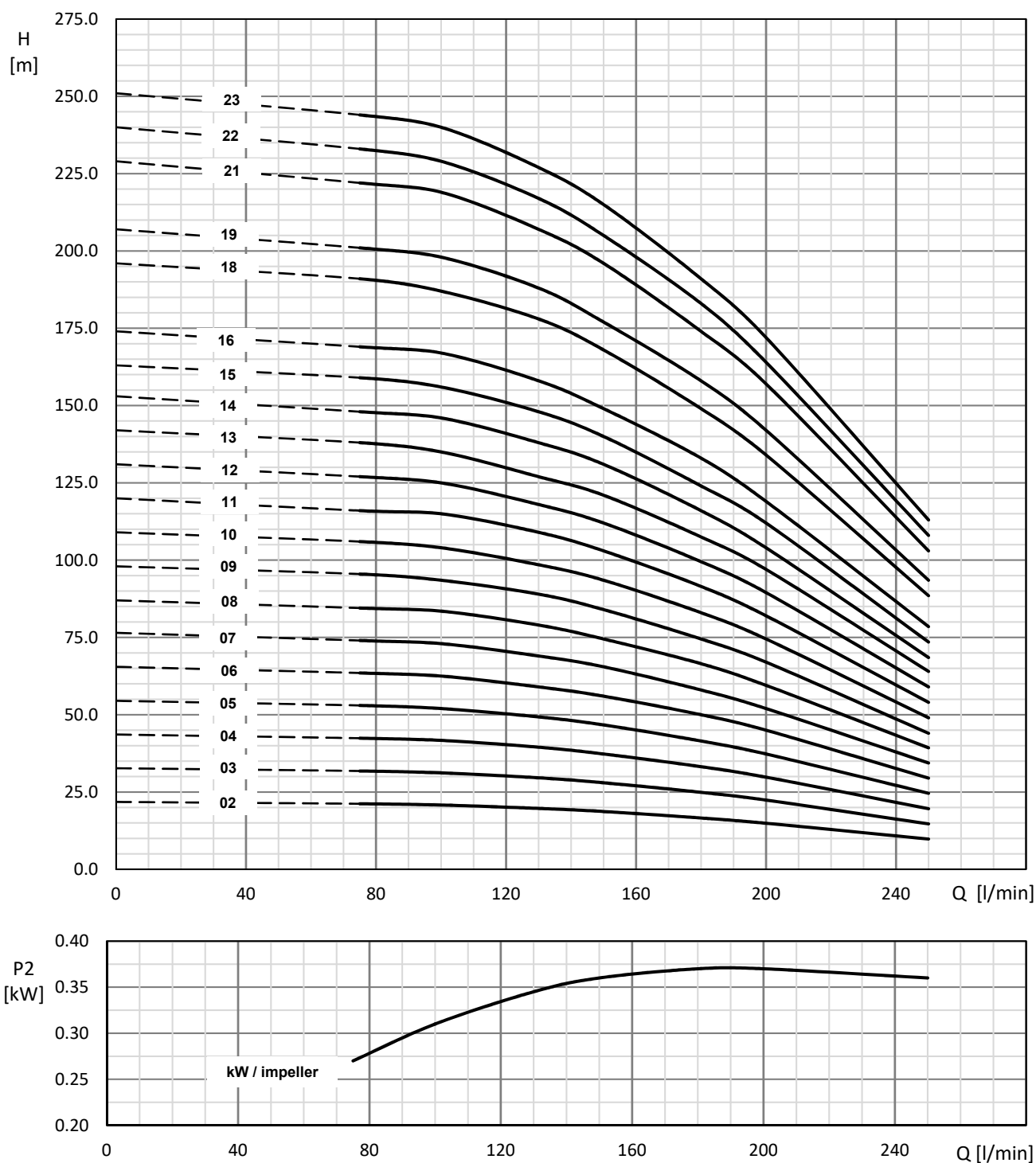
Test standard: ISO 9906: 2012 - Grade 3B

PSR05(.)



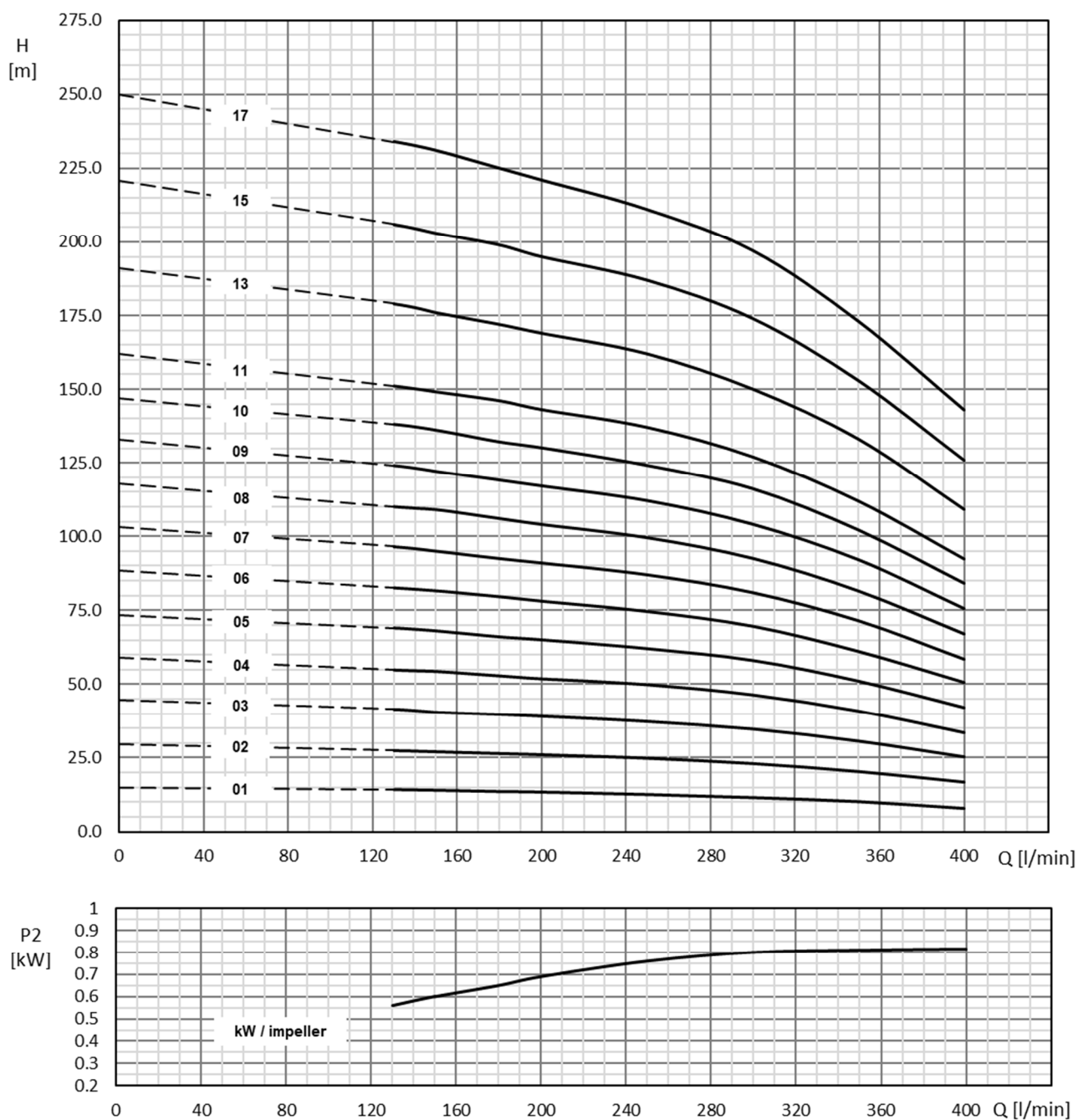
Test standard: ISO 9906: 2012 - Grade 3B

PSR10(.)



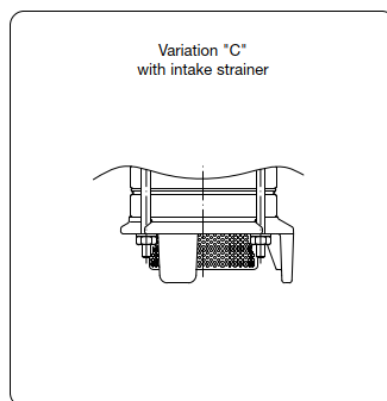
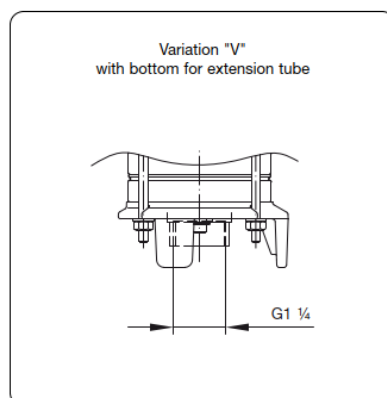
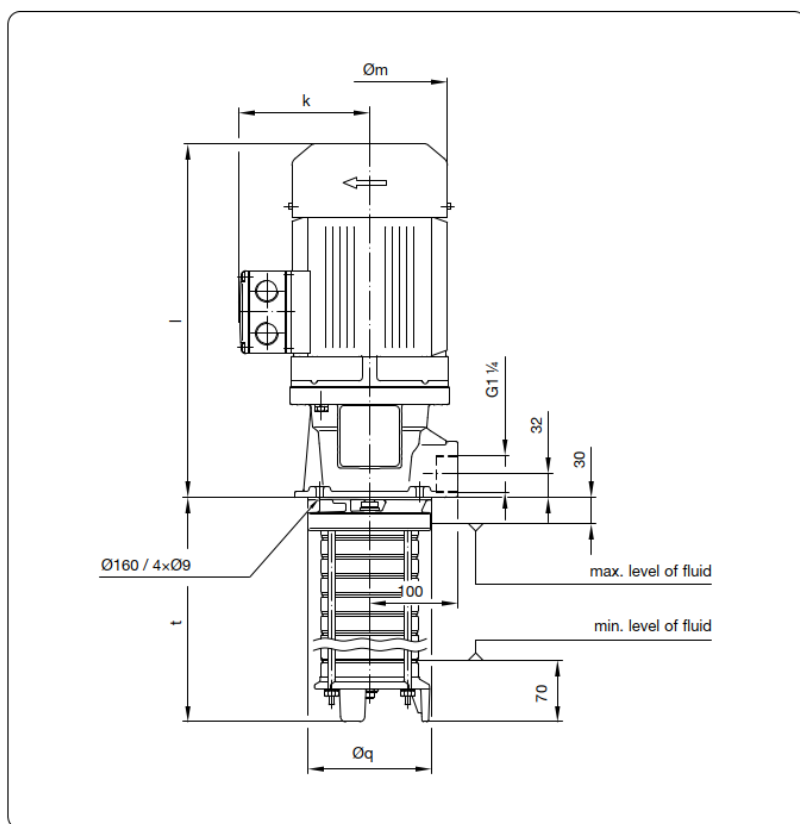
Test standard: ISO 9906: 2012 - Grade 3B

PSR15(.)



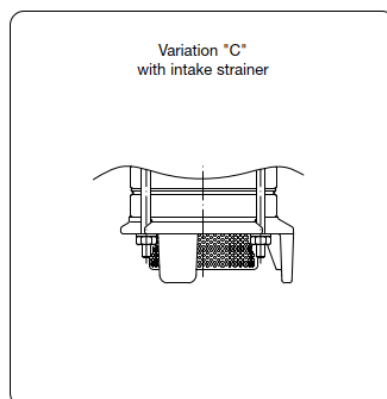
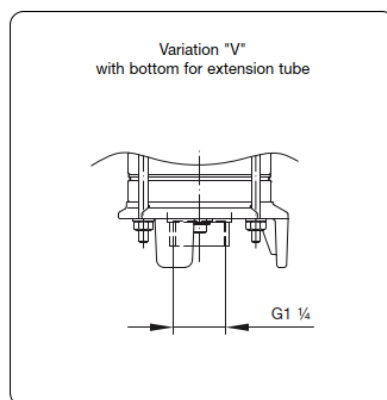
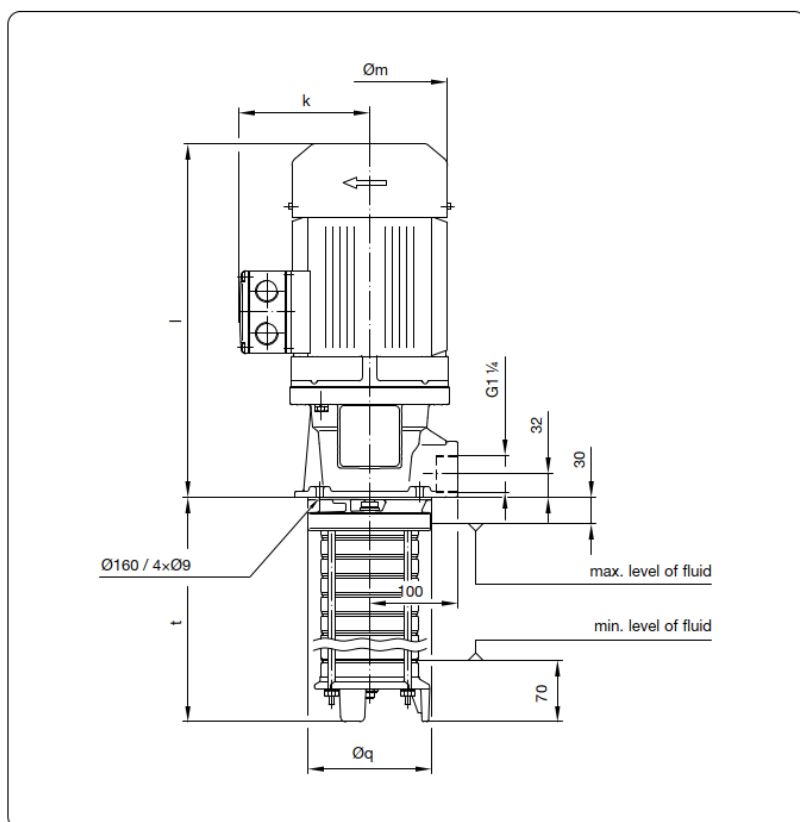
Test standard: ISO 9906: 2012 - Grade 3B

PSR01(.)



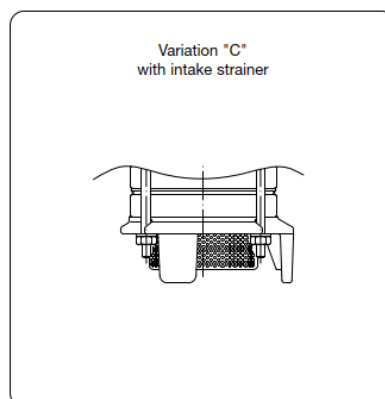
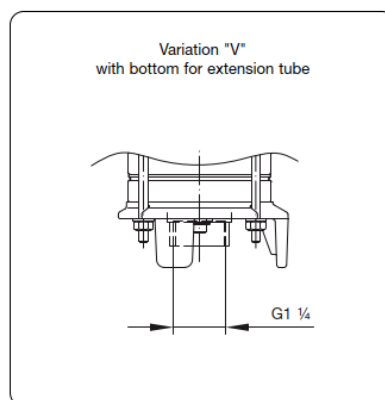
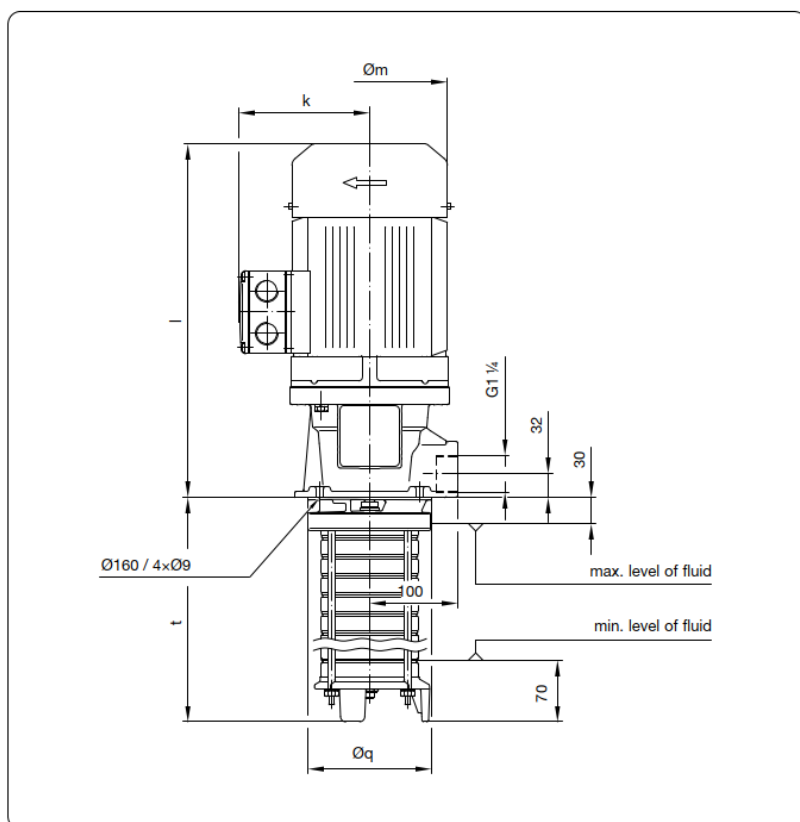
Type of pump		Immer- sion depth t [mm]	Rated motor values					Dimensions				Weight [kg]	Noise [dBA]	Pressure port								
Model	n° of impellers		Voltage Δ/Y U [V]	Motor index	Output power P2 [kW]	Current Δ/Y I _N [A]	Speed n _N [rpm]	Øm	k	l	Øq											
PSR0102(.)	2	141	230/400	E	0.37	2.0/1.2	2885	141,4	104	251,5	139,8	13,9	52	G1 1/4"								
PSR0103(.)	3	162										14,2										
PSR0104(.)	4	183										14,6										
PSR0105(.)	5	204										14,9										
PSR0106(.)	6	225										15,2										
PSR0107(.)	7	246										15,6										
PSR0108(.)	8	267										15,9										
PSR0109(.)	9	288		F	0.55	2.4/1.4	2818	141,4	104	251,5	139,8	16,2	52									
PSR0110(.)	10	309										16,5										
PSR0111(.)	11	330										16,9										
PSR0112(.)	12	351										17,2										
PSR0113(.)	13	372										17,6										
PSR0115(.)	15	414		G	0.75	3.0/1.7	2845	141,4	104	251,5	139,8	20,6	52									
PSR0117(.)	17	456										H	1.1		5.3/3.8	2960	176	128,1	439	139,8	38,0	52
PSR0119(.)	19	498																			38,5	
PSR0121(.)	21	540		39,5																		
PSR0122(.)	22	561		39,5																		
PSR0124(.)	24	603		40,5																		
PSR0126(.)	26	545		J	1.5	7.1/4.1	2945	176	128,1	439	139,8	41,0	60									
PSR0127(.)	27	666										41,5										
PSR0128(.)	28	687										41,5										
PSR0131(.)	31	750										42,5										
PSR0133(.)	33	792										43,5										
PSR0134(.)	34	813		K	2.2	8.7/5.0	2915	176	128,1	439	139,8	43,5	60									
PSR0137(.)	37	876										44,5										

PSR03(.)



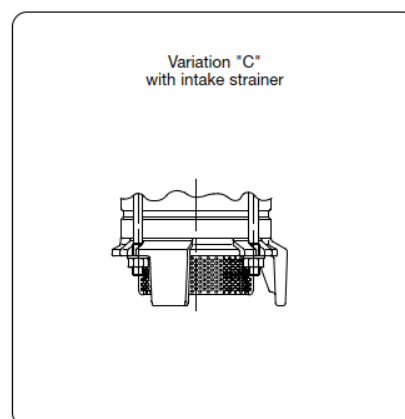
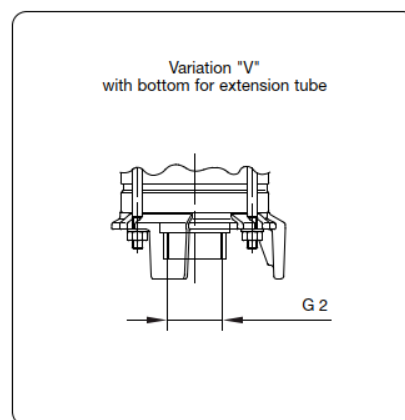
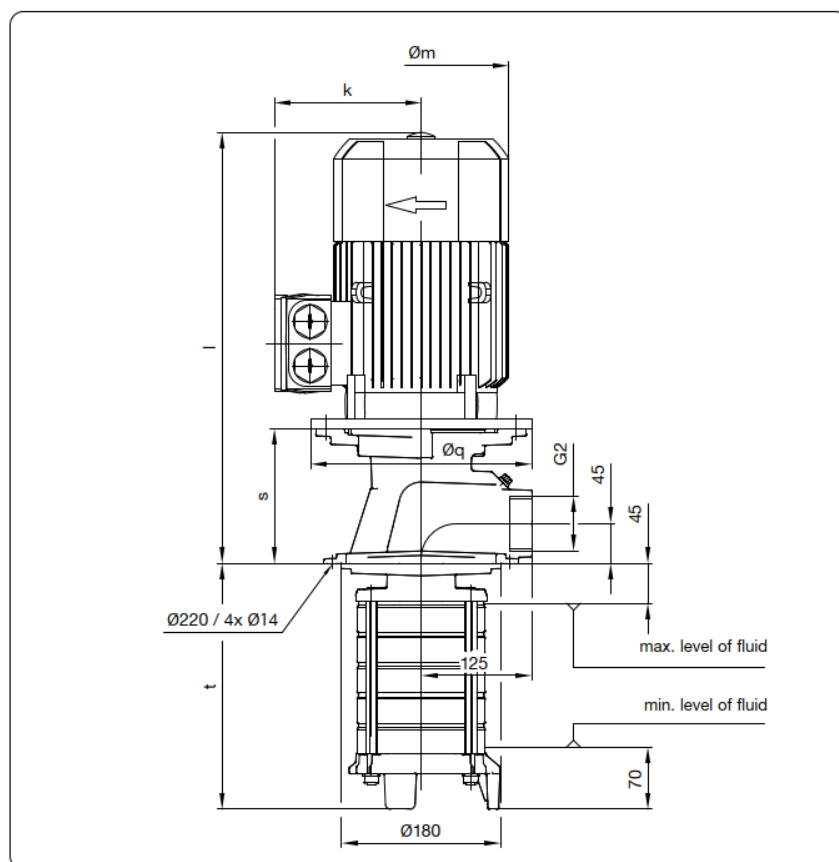
Type of pump		Immer- sion depth t [mm]	Rated motor values					Dimensions				Weight [kg]	Noise [dBA]	Pressure port
Model	n° of impellers		Voltage Δ/Y U [V]	Motor index	Output power P2 [kW]	Current Δ/Y I _N [A]	Speed n _N [rpm]	Ø _m	k	l	Ø _q			
PSR0302(.)	2	141	230/400	E	0.37	2.0/1.2	2885	141,4	104	251,5	139,8	13,9	52	G1 1/4"
PSR0303(.)	3	162										14,3		
PSR0304(.)	4	183										14,6		
PSR0305(.)	5	204		F	0.55	2.4/1.4	2818	141,4	104	251,5	139,8	14,9	52	
PSR0306(.)	6	225										15,3		
PSR0307(.)	7	246		G	0.75	3.0/1.7	2845	141,4	104	251,5	139,8	18,0	52	
PSR0308(.)	8	267										18,3		
PSR0309(.)	9	288		H	1.1	4.3/2.5	2830	141,4	104	251,5	139,8	20,1	52	
PSR0310(.)	10	309										20,5		
PSR0311(.)	11	330										20,8		
PSR0312(.)	12	351										21,1		
PSR0313(.)	13	372		J	1.5	7.1/4.1	2945	176	128,1	439	139,8	37,0	60	
PSR0314(.)	14	393										37,0		
PSR0316(.)	16	435										38,0		
PSR0317(.)	17	456										38,0		
PSR0319(.)	19	498		K	2.2	8.7/5.0	2915	176	128,1	439	139,8	39,0	60	
PSR0320(.)	20	519										39,0		
PSR0321(.)	21	540										39,5		
PSR0323(.)	23	582										40,5		
PSR0325(.)	25	624		L	3	13.0/7.5	2945	193	143,1	472	139,8	53,5	62	
PSR0327(.)	27	666										54,0		
PSR0330(.)	30	729										54,5		
PSR0331(.)	31	750										55,5		
PSR0333(.)	33	792										56,0		

PSR05(.)



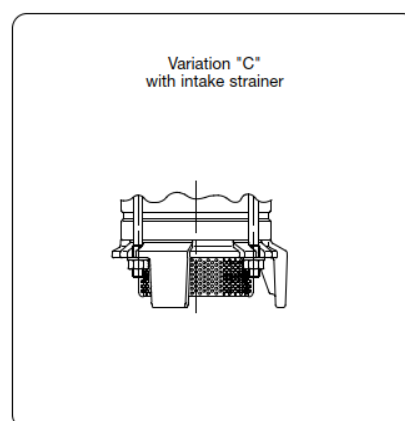
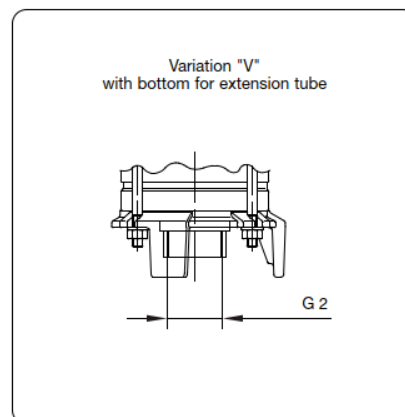
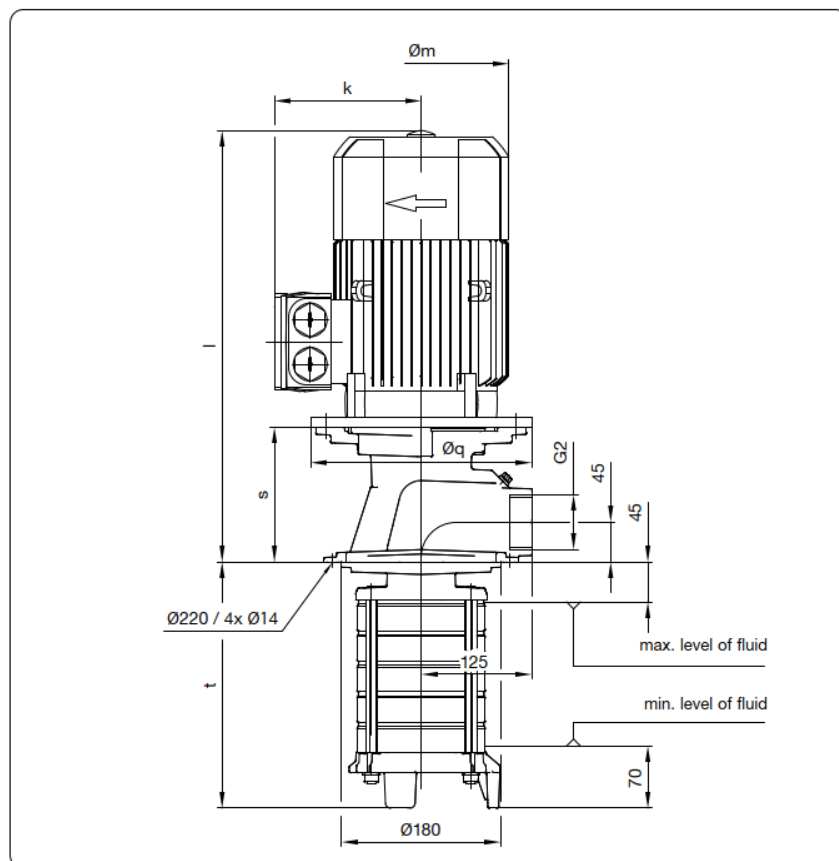
Type of pump		Immer- sion depth t [mm]	Rated motor values					Dimensions				Weight [kg]	Noise [dBA]	Pressure port
Model	n° of impellers		Voltage Δ/Y U [V]	Motor index	Output power P2 [kW]	Current Δ/Y I _N [A]	Speed n _N [rpm]	Øm	k	l	Øq			
PSR0502(.)	2	162	230/400	E	0.37	2.0/1.2	2885	141,1	104	251,5	139,8	14,1	52	G1 ¼"
PSR0503(.)	3	190		F	0.55	2.4/1.4	2818	141,1	104	251,5	139,8	14,6	52	
PSR0504(.)	4	218		G	0.75	3.0/1.7	2845	141,1	104	251,5	139,8	17,3	52	
PSR0505(.)	5	246		H	1.1	4.3/2.5	2830	141,1	104	251,5	139,8	19,2	52	
PSR0506(.)	6	274		J	1.5	7.1/4.1	2945	176	128,1	439	139,8	35,0	60	
PSR0507(.)	7	302										35,5		
PSR0508(.)	8	330		K	2.2	8.7/5.0	2915	176	128,1	439	139,8	36,0	60	
PSR0509(.)	9	358										36,0		
PSR0510(.)	10	386										36,5		
PSR0511(.)	11	414										37,0		
PSR0512(.)	12	442		L	3	13.0/7.5	2945	193	143,1	472	139,8	50,0	62	
PSR0513(.)	13	470										50,5		
PSR0514(.)	14	498										51,0		
PSR0515(.)	15	526										51,5		
PSR0516(.)	16	554		M	4	14.0/8.1	2950	220	150	481	139,8	61,5	66	
PSR0517(.)	17	582										61,5		
PSR0519(.)	19	638										62,5		
PSR0520(.)	20	666										63,0		
PSR0523(.)	23	750		400/690	N	5.5	10.6/6.1	2945	259	178,1	556	139,8	78,0	
PSR0525(.)	25	806	79,0											
PSR0527(.)	27	862	80,0											

PSR10(.)



Type of pump		Immer- sion depth t [mm]	Rated motor values					Dimensions				Weight [kg]	Noise [dBA]	Pressure port
Model	n° of impellers		Voltage Δ/Y U [V]	Motor index	Output power P2 [kW]	Current Δ/Y I _N [A]	Speed n _N [rpm]	Ø _m	k	l	Ø _q			
PSR1002(.)	2	196	230/400	G	0.75	2.9/1.7	2910	160	128	364	200	29,5	52	G2"
PSR1003(.)	3	226		J	1.5	5.2/3.0	2900	180	148	409	200	35,0	60	
PSR1004(.)	4	256		K	2.2	8.0/4.6	2900	180	148	409	200	37,5	60	
PSR1005(.)	5	286										38,5		
PSR1006(.)	6	316										39,0		
PSR1007(.)	7	346		L	3	9.7/5.6	2900	196	144	458	250	47,5	62	
PSR1008(.)	8	376										48,0		
PSR1009(.)	9	406		M	4	12.1/7.0	2910	220	160	480	250	53,5	66	
PSR1010(.)	10	436										54,5		
PSR1011(.)	11	466										55,0		
PSR1012(.)	12	496										73,5		
PSR1013(.)	13	525	400/690	N	5.5	10.4/6.0	2925	220	152	600	300	74,0	68	
PSR1014(.)	14	556										75,0		
PSR1015(.)	15	586										75,5		
PSR1016(.)	16	616										83,5		
PSR1018(.)	18	676		O	7.5	13.6/7.9	2910	220	152	620	300	85,0	68	
PSR1019(.)	19	706										86,0		
PSR1021(.)	21	766										87,5		
PSR1022(.)	22	796										108,5		
PSR1023(.)	23	826		P	11	21.3/12.3	2930	259	178	671	350	109,5	73	

PSR15(.)



Type of pump		Immer- sion depth t [mm]	Rated motor values					Dimensions				Weight [kg]	Noise [dBA]	Pressure port
Model	n° of impellers		Voltage Δ/Y U [V]	Motor index	Output power P2 [kW]	Current Δ/Y I _N [A]	Speed n _N [rpm]	Øm	k	l	Øq			
PSR1501(.)	1	226	230/400	H	1.1	4.2/2.4	2900	160	128	364	200	30,5	52	G2"
PSR1502(.)	2	226		K	2.2	8.0/4.6	2900	180	148	409	200	36,5	60	
PSR1503(.)	3	266		L	3	9.7/5.6	2900	196	144	458	250	45,0	62	
PSR1504(.)	4	306		M	4	12.1/7.0	2910	220	160	480	250	50,5	66	
PSR1505(.)	5	346	400/690	N	5.5	10.4/6.0	2925	220	152	600	300	69,0	68	
PSR1506(.)	6	386										70,0		
PSR1507(.)	7	426		O	7.5	13.6/7.9	2910	220	152	620	300	78,0	68	
PSR1508(.)	8	466										79,0		
PSR1509(.)	9	506		P	11	21.3/12.3	2930	259	178	673	350	100,5	73	
PSR1510(.)	10	546										101,5		
PSR1511(.)	11	586										103,0		
PSR1513(.)	13	666										105,0		
PSR1515(.)	15	746		Q	15	26.2/15.2	2935	310,8	240	728	350	145,5	72	
PSR1517(.)	17	826										148,0		

EMPTY STAGES AVAILABILITY

		N° IMPELLERS																																				ID
		2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	22	24	26	27	28	31	33	34	37	[mm]											
N° STAGES	2	•																															141					
	3	•	•																														162					
	4	•	•	•																													183					
	5	•	•	•	•																												204					
	6	•	•	•	•	•																											225					
	7	•	•	•	•	•	•																										246					
	8	•	•	•	•	•	•	•																									267					
	9	•	•	•	•	•	•	•	•																								288					
	10	•	•	•	•	•	•	•	•	•																							309					
	11	•	•	•	•	•	•	•	•	•	•																						330					
	12	•	•	•	•	•	•	•	•	•	•	•																					351					
	13	•	•	•	•	•	•	•	•	•	•	•	•																				372					
	15	•	•	•	•	•	•	•	•	•	•	•	•	•																			414					
	17																•																456					
	19																•	•															498					
	21																•	•	•														540					
22																•	•	•	•													561						
24																•	•	•	•	•												603						
26																•	•	•	•	•	•											645						
27																•	•	•	•	•	•	•										666						
28																•	•	•	•	•	•	•	•									687						
31																•	•	•	•	•	•	•	•	•								750						
33																•	•	•	•	•	•	•	•	•	•	•						792						
34																•	•	•	•	•	•	•	•	•	•	•	•					813						
37																•	•	•	•	•	•	•	•	•	•	•	•	•				876						
POWER		0.37					0.55					0.75					1.1					1.5					2.2											

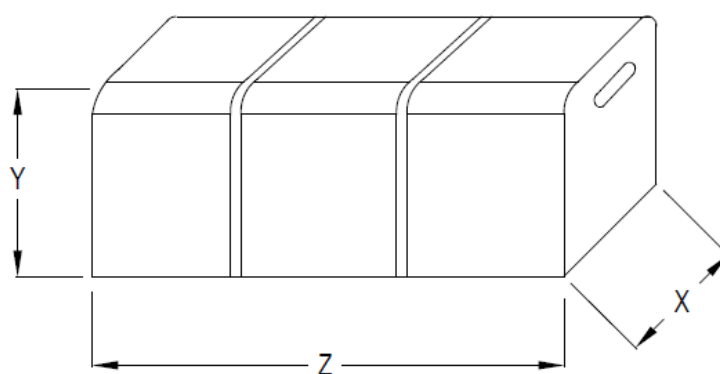
PSR10(.)																								
N° IMPELLERS																								ID
N° STAGES		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	21	22	23	(mm)		
	2	•																					196	
	3	•	•																				226	
	4	•	•	•																			256	
	5	•	•	•	•																		286	
	6	•	•	•	•	•																	316	
	7	•	•	•	•	•	•																346	
	8	•	•	•	•	•	•	•															376	
	9	•	•	•	•	•	•	•	•														406	
	10	•	•	•	•	•	•	•	•	•													436	
	11	•	•	•	•	•	•	•	•	•	•												466	
	12	•	•	•	•	•	•	•	•	•	•	•											496	
	13	•	•	•	•	•	•	•	•	•	•	•	•										526	
	14	•	•	•	•	•	•	•	•	•	•	•	•	•									556	
15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							586		
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						616		
18	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					676		
19	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				706		
21	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			766		
22	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		796		
23	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	826		
POWER	0.75	1.5	2.2			3		4				5.5				7.5		11						

		PSR03(.)																																	ID
		N° IMPELLERS																																	[mm]
	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	19	20	21	23	25	27	30	31	33		141									
	2	*																									162								
	3	*	*																								183								
	4	*	*	*																							204								
	5	*	*	*	*																						225								
	6	*	*	*	*	*																					246								
	7	*	*	*	*	*	*																				267								
	8	*	*	*	*	*	*	*																			288								
	9	*	*	*	*	*	*	*	*																		309								
	10	*	*	*	*	*	*	*	*	*																	330								
	11	*	*	*	*	*	*	*	*	*	*																351								
	12	*	*	*	*	*	*	*	*	*	*	*															372								
	13												*														393								
	14												*	*													435								
	16																										456								
	17													*	*	*											498								
	19													*	*	*	*										519								
	20													*	*	*	*	*									540								
	21													*	*	*	*	*	*								582								
	23													*	*	*	*	*	*	*							624								
	25													*	*	*	*	*	*	*	*						666								
	27													*	*	*	*	*	*	*	*	*					729								
	30													*	*	*	*	*	*	*	*	*	*	*			750								
	31													*	*	*	*	*	*	*	*	*	*	*	*		792								
	33													*	*	*	*	*	*	*	*	*	*	*	*	*									
N° STAGES	POWER	0.37	0.55	0.75	1.1								1.5			2.2							3												

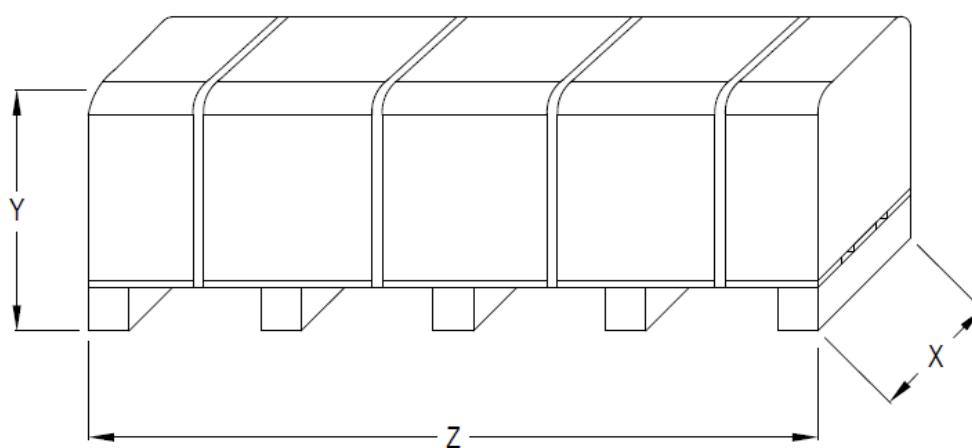
PSR15(.)																	
N° STAGES	N° IMPELLERS																ID
		1	2	3	4	5	6	7	8	9	10	11	13	15	17	[mm]	
	1																226
	2	●	●														266
	3	●	●	●													306
	4	●	●	●	●												346
	5	●	●	●	●	●											386
	6	●	●	●	●	●	●										426
	7	●	●	●	●	●	●	●									466
	8	●	●	●	●	●	●	●	●								506
9	●	●	●	●	●	●	●	●	●							546	
10	●	●	●	●	●	●	●	●	●	●						586	
11	●	●	●	●	●	●	●	●	●	●	●					666	
13	●	●	●	●	●	●	●	●	●	●	●	●				746	
15	●	●	●	●	●	●	●	●	●	●	●	●	●			826	
17	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
POWER	1.1	2.2	3	4	5.5	7.5	11	15									

		PSR05(.)																											ID
		N° IMPELLERS																											
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20	23	25	27						[mm]	
N° STAGES	2	•																										162	
	3	•	•																									190	
	4	•	•	•																								218	
	5	•	•	•	•																							246	
	6					•																						274	
	7						•	•																				302	
	8						•	•	•																			330	
	9						•	•	•	•																		358	
	10						•	•	•	•	•																	386	
	11						•	•	•	•	•	•																414	
	12						•	•	•	•	•	•	•															442	
	13						•	•	•	•	•	•	•	•														470	
	14						•	•	•	•	•	•	•	•	•													498	
	15						•	•	•	•	•	•	•	•	•	•												526	
	16						•	•	•	•	•	•	•	•	•	•	•											554	
	17						•	•	•	•	•	•	•	•	•	•	•	•										582	
19						•	•	•	•	•	•	•	•	•	•	•	•	•	•								638		
20						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							666		
23						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						750		
25						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					806		
27						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				862		
POWER	0.37	0.55	0.75	1.1		1.5			2.2					3				4					5.5						

PACKING



TYPE 1



TYPE 2

	Model	Packing dimension [mm]			Pack type	Weight [kg]
		X	Y	Z		
01	PSR0102(.)	260	235	530	1	16.0
	PSR0103(.)	260	235	530	1	16.0
	PSR0104(.)	260	235	530	1	18.0
	PSR0105(.)	260	235	530	1	17.0
	PSR0106(.)	260	235	530	1	17.0
	PSR0107(.)	260	235	530	1	18.0
	PSR0108(.)	300	260	650	1	18.0
	PSR0109(.)	300	260	650	1	18.0
	PSR0110(.)	300	260	650	1	19.0
	PSR0111(.)	300	260	650	1	19.0
	PSR0112(.)	300	260	650	1	19.0
	PSR0113(.)	280	260	790	1	20.0
	PSR0115(.)	280	260	790	1	23.0
	PSR0117(.)	400	430	1000	2	46.0
	PSR0119(.)	400	430	1000	2	47.0
	PSR0121(.)	400	430	1200	2	50.0
	PSR0122(.)	400	430	1200	2	50.0
	PSR0124(.)	400	430	1200	2	51.0
	PSR0126(.)	400	430	1200	2	51.0
	PSR0127(.)	400	430	1200	2	52.0
03	PSR0128(.)	400	430	1200	2	52.0
	PSR0131(.)	500	430	1350	2	57.0
	PSR0133(.)	500	430	1350	2	58.0
	PSR0134(.)	500	430	1350	2	58.0
	PSR0137(.)	500	430	1540	2	62.0
	PSR0302(.)	260	235	530	1	16.0
	PSR0303(.)	260	235	530	1	16.0
	PSR0304(.)	260	235	530	1	17.0
	PSR0305(.)	260	235	530	1	17.0
	PSR0306(.)	260	235	530	1	17.0
	PSR0307(.)	260	235	530	1	20.0
	PSR0308(.)	300	260	650	1	20.0
	PSR0309(.)	300	260	650	1	22.0
	PSR0310(.)	300	260	650	1	23.0
	PSR0311(.)	300	260	650	1	23.0
	PSR0312(.)	280	260	790	1	23.0
	PSR0313(.)	400	430	1000	2	45.0
	PSR0314(.)	400	430	1000	2	45.0
	PSR0316(.)	400	430	1000	2	46.0
	PSR0317(.)	400	430	1000	2	46.0
05	PSR0319(.)	400	430	1000	2	47.0
	PSR0320(.)	400	430	1200	2	49.0
	PSR0321(.)	400	430	1200	2	50.0
	PSR0323(.)	400	430	1200	2	51.0
	PSR0325(.)	400	430	1200	2	64.0
	PSR0327(.)	500	430	1350	2	68.0
	PSR0330(.)	500	430	1350	2	69.0
	PSR0331(.)	500	430	1350	2	70.0
	PSR0333(.)	500	430	1350	2	70.0
	PSR0502(.)	260	235	530	1	16.0
	PSR0503(.)	260	235	530	1	17.0
	PSR0504(.)	260	235	530	1	19.0
	PSR0505(.)	300	260	650	1	21.0
	PSR0506(.)	400	430	1000	2	43.0
	PSR0507(.)	400	430	1000	2	44.0
	PSR0508(.)	400	430	1000	2	44.0
	PSR0509(.)	400	430	1000	2	44.0
	PSR0510(.)	400	430	1000	2	45.0
	PSR0511(.)	400	430	1000	2	45.0
	PSR0512(.)	400	430	1000	2	58.0
	PSR0513(.)	400	430	1200	2	61.0
	PSR0514(.)	400	430	1200	2	61.0
	PSR0515(.)	400	430	1200	2	62.0
	PSR0516(.)	400	430	1200	2	72.0
	PSR0517(.)	400	430	1200	2	72.0
	PSR0519(.)	500	430	1350	2	77.0
	PSR0520(.)	500	430	1350	2	77.0
	PSR0523(.)	500	430	1540	2	95.0
	PSR0525(.)	500	430	1540	2	96.0
	PSR0527(.)	500	430	1540	2	97.0

	Model	Packing dimension [mm]			Pack type	Weight [kg]
		X	Y	Z		
10	PSR1002(.)	400	430	1000	2	38.0
	PSR1003(.)	400	430	1000	2	43.0
	PSR1004(.)	400	430	1000	2	46.0
	PSR1005(.)	400	430	1000	2	47.0
	PSR1006(.)	400	430	1000	2	47.0
	PSR1007(.)	400	430	1000	2	56.0
	PSR1008(.)	400	430	1000	2	56.0
	PSR1009(.)	400	430	1000	2	62.0
	PSR1010(.)	400	430	1200	2	65.0
	PSR1011(.)	400	430	1200	2	65.0
	PSR1012(.)	400	430	1200	2	84.0
	PSR1013(.)	500	430	1350	2	88.0
	PSR1014(.)	500	430	1350	2	89.0
	PSR1015(.)	500	430	1350	2	90.0
	PSR1016(.)	500	430	1350	2	98.0
	PSR1018(.)	500	430	1540	2	102.0
	PSR1019(.)	500	430	1540	2	103.0
	PSR1021(.)	500	430	1540	2	105.0
	PSR1022(.)	610	430	1750	2	128.0
	PSR1023(.)	610	430	1750	2	129.0
15	PSR1501(.)	400	430	1000	2	39.0
	PSR1502(.)	400	430	1000	2	45.0
	PSR1503(.)	400	430	1000	2	53.0
	PSR1504(.)	400	430	1000	2	59.0
	PSR1505(.)	400	430	1200	2	79.0
	PSR1506(.)	400	430	1200	2	80.0
	PSR1507(.)	400	430	1200	2	88.0
	PSR1508(.)	400	430	1200	2	89.0
	PSR1509(.)	500	430	1350	2	115.0
	PSR1510(.)	500	430	1350	2	116.0
	PSR1511(.)	500	430	1350	2	117.0
	PSR1513(.)	500	430	1540	2	122.0
	PSR1515(.)	610	430	1750	2	165.0
	PSR1517(.)	610	430	1750	2	167.0

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