



**Spandau
pumpen**

— by **EBARA**

Coolant pump

Product catalogue



————— by EBARA

www.spandaupumpen.com

Selection Table

Model					
	PRG	PRA	PRK	PSR	PR4
Machine tools / filter systems		●	●	●	●
Optical machine tools	●	●		●	●
Temperature control units	●	●	●	●	●
Printing machines / packaging machines		●	●		
Fluid type	Slightly contaminated	Slightly contaminated	Slightly contaminated	Slightly contaminated	Highly contaminated
Page n.	4	10	20	26	59
Q _{max} [l/min]	62	140	175	440	37
H _{max} [m]	32	33	33	262	4
Impeller type	closed	open	open	closed	open
Grain size ø [mm]	0,3	0,3-4	3	2-3	n/a
Upper flange material	POM GF	PPU	POM	EN-GJL-200	PPN
Shaft material	1.4122	1.4122	1.4122	1.4301 (AISI304) 1.4462 (AISI329)	1.0762 tempered (ETG)
Impeller material	PEI GF	PPU	POM	1.4301 (AISI304)	POM GF
Intermediate chamber material	POM GF	PPU/LCP	PPS	1.4301 (AISI304)	n/a
Pump bottom material	POM GF	PPU/LCP	PP	EN-GJL-175 (G) or 1.4305 (AISI303) (C, T)	PPN
Max immersion depth [mm]	320	450	410	862	120
Power [kW]	0,09 - 0,42	0,18-1,26	0,25-1,26	0,37-18,5	0,05
Protection degree	IP54	IP54	IP54	IP55	IP54
Insulation class	F	F	F	F	F
Pipe connection	Internal G ¾	Internal G ¾	Internal G ¾	Internal G1 ¼, G 2	External G ½
Max viscosity [mm²/s]	20	20	20	20	20
Fluid temperature [°C]	-20 / +60	+5 / +60	+5 / +60	-10 / +80	+0 / +60
Mechanical seal	Sealless	Sealless	Sealless	Bush (<150m) MS (>150m)	Sealless
Variations	Plastic agitator	SS filter, plastic ext tube or agitator	SS filter, plastic ext tube	Bottom for ext tube, SS filter; SS bottom flange, Nickel plated or galvanic painted upper flange	SS shaft

Selection Table

Model				
	PMS	PS - PSL	PAB	HDZ
Machine tools / filter systems	●	●		●
Optical machine tools				
Temperature control units				
Printing machines / packaging machines			●	
Fluid type	Highly contaminated	Highly contaminated	Ink with solvent; varnishes and oil-based paint	Fluids containing particles (particles with higher density)
Page n.	63	75	83	88
Q _{max} [l/min]	400	1250	305	70-90
H _{max} [m]	45	105	20	15-25
Impeller type	open	closed	open	n/a
Grain size ø [mm]	5-8	4	n/a	>5
Upper flange material	EN-GJL-200 and steel	EN-GJL-200	EN-GJL-175 + treat	n/a
Shaft material	1.0762	1.0762	1.4122	n/a
Impeller material	POM	EN-GJL-200	Bronze	n/a
Intermediate chamber material	EN-GJL-200	EN-GJL-200	EN-GJL-175 + treat	n/a
Pump bottom material	POM	EN-GJL-200	EN-GJL-175 + treat	abrasion-resistant plastic
Max immersion depth [mm]	560	670	440	n/a
Power [kW]	0,09-3,0	1,1-8,66	0,37-1,26	n/a
Protection degree	IP54	IP54	ATEX	n/a
Insulation class	F	F	ATEX	n/a
Pipe connection	Internal G ¾, G1 ¼	Internal G 2	Internal G1, G1 ¼	Ext G1 G1 ½ inlet, Ext G1 ¼ outlet
Max viscosity [mm²/s]	20	30	20	20
Fluid temperature [°C]	+0 / +80	+0 / +80	+0 / +60	+5 / +60
Mechanical seal	Sealless	Sealless	Sealless	n/a
Variations	Bottom for ext tube, casted impeller and bottom, steel splash ring	PSL for air-polluted fluids	n/a	n/a

PRG

Vertical centrifugal pump

PRG is a sealless, single-stage or multi-stage pump for delivery of slightly contaminated type of fluids. The installation is directly into the reservoir. The pressure port is located above the reservoir plate and designed with internal thread G $\frac{3}{4}$.



Optical
machine
tools



Temperature
control units

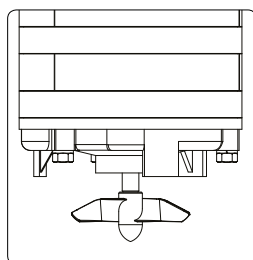


Technical data

Flow rate Q_{max}	62 l/min
Total head H_{max}	32 m
Immersion depth t_{max}	320 mm
Kinematic viscosity	max. 20 mm ² /s
Liquid temperature range	-20°C to +60°C
Max grain size	ø0,3 mm
Insulation class	F
Protection degree	IP54
Voltage	Three phase 3~230/400V ±10% at 50Hz Three phase 3~265/460V ±10% at 60Hz
Fluids type	Water, emulsions (synthetic / mineral oil), also with chemical additives, distilled water deionization, ized water, photographic solutions

Version

Plastic agitator



Agitator (A):

Suitable for polishing and grinding processes where particles leave a lot of sediment.

The agitator ensures continuous mixing of the pumped fluid, and effectively prevents the depositing of particles and hardening.

With agitator, immersion depth "T" increase 29mm

Materials

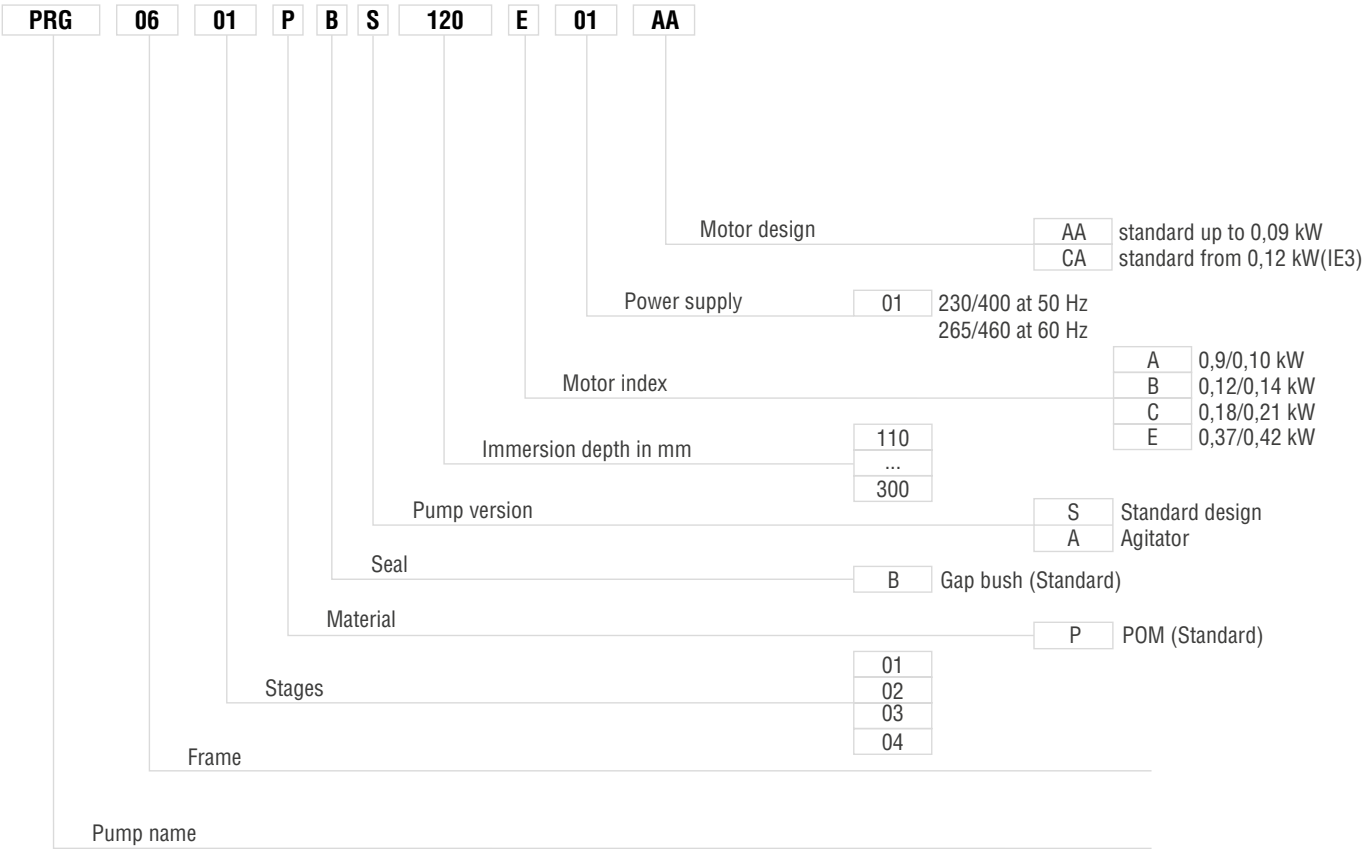
Upper flange	POM GF
Shaft	1.4122
Impeller	PEI GF
Intermediate chamber	POM GF
Bushes	PTFE graphite
Pump bottom	POM GF



PRG

Vertical centrifugal pump

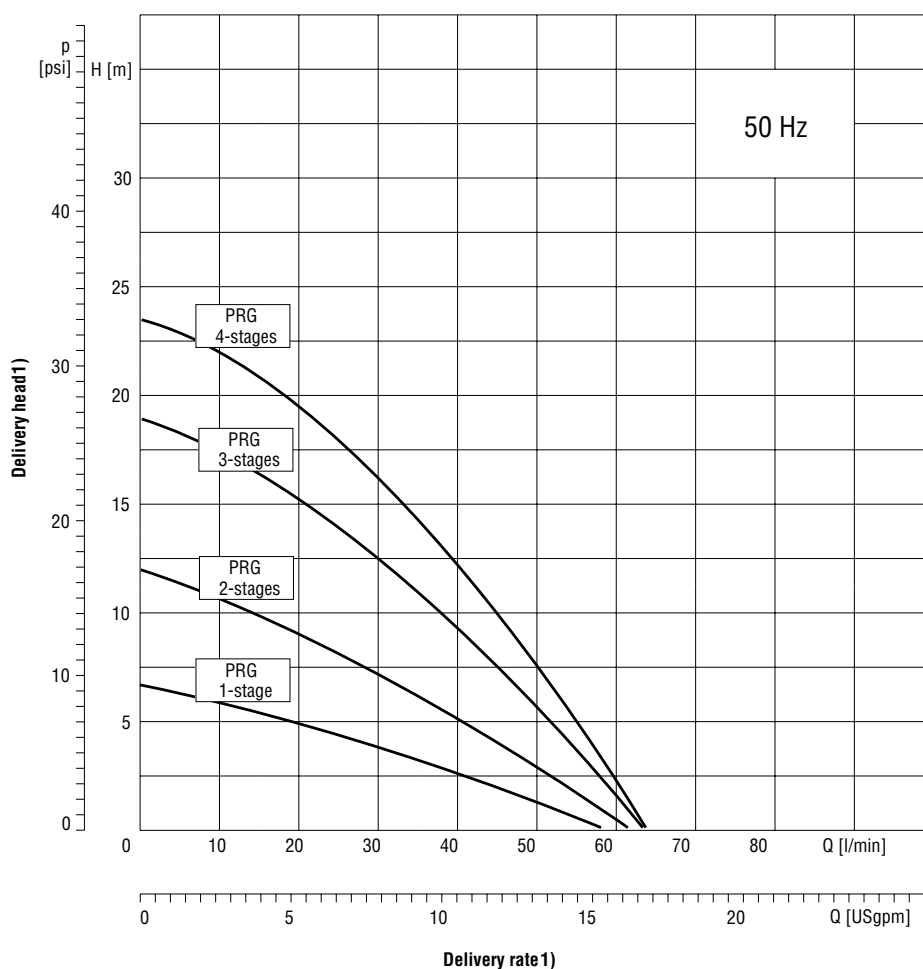
Identification code



PRG

Vertical centrifugal pump

Performance curves PRG

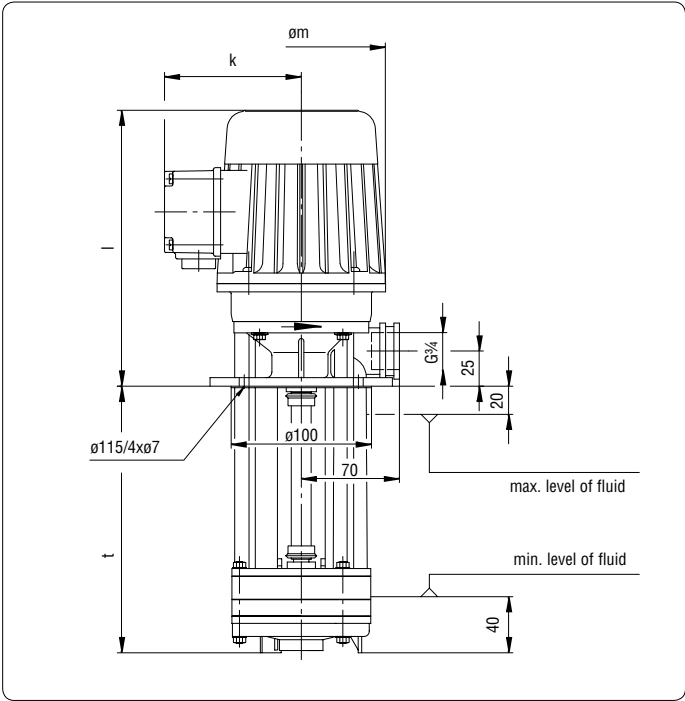


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PRG

Vertical centrifugal pump

Dimensions PRG



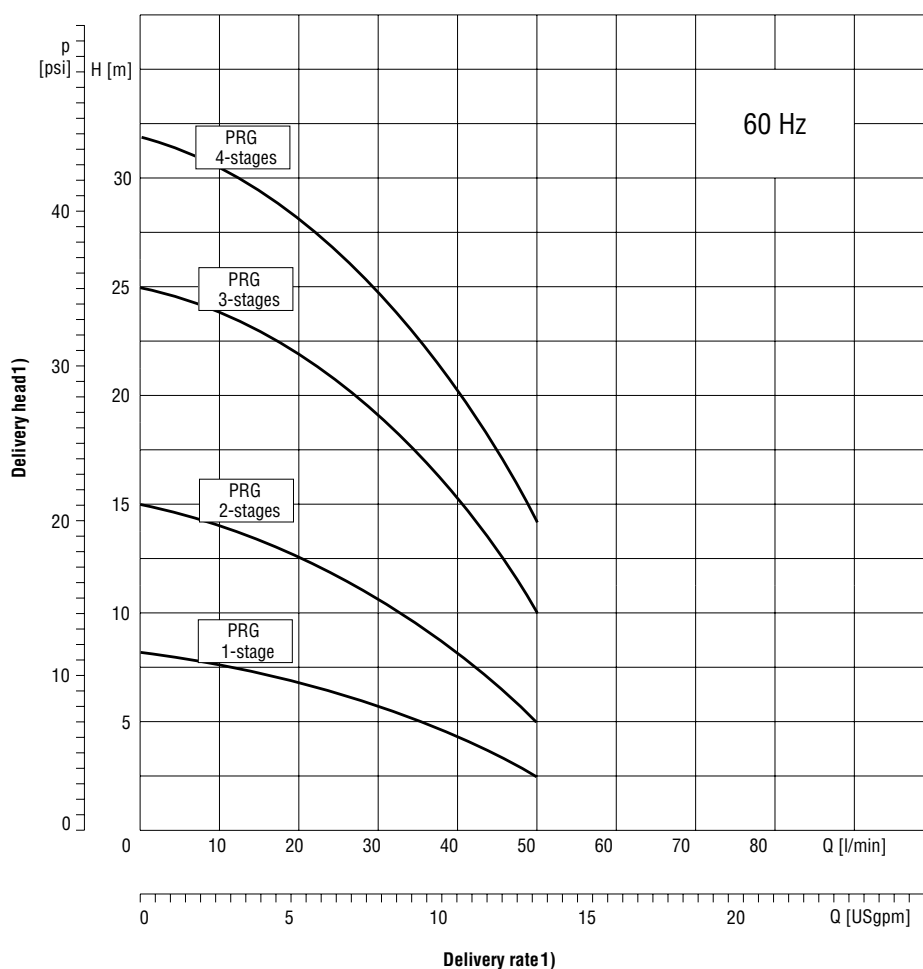
Dimensional table PRG

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	ϕm	k	l			
PRG0601	0,09	110	230/400	A	0,46/0,26	2618	96	89	173	3,5	44	G ³ / ₄
PRG0601	0,09	130	230/400	A	0,46/0,26	2618	96	89	173	3,5	44	G ³ / ₄
PRG0601	0,09	160	230/400	A	0,46/0,26	2618	96	89	173	3,6	44	G ³ / ₄
PRG0601	0,09	210	230/400	A	0,46/0,26	2618	96	89	173	3,7	44	G ³ / ₄
PRG0601	0,09	260	230/400	A	0,46/0,26	2618	96	89	173	3,8	44	G ³ / ₄
PRG0602	0,12	140	230/400	B	1,0/0,6	2890	120	99	197	5,4	45	G ³ / ₄
PRG0602	0,12	160	230/400	B	1,0/0,6	2890	120	99	197	5,4	45	G ³ / ₄
PRG0602	0,12	190	230/400	B	1,0/0,6	2890	120	99	197	5,5	45	G ³ / ₄
PRG0602	0,12	240	230/400	B	1,0/0,6	2890	120	99	197	5,6	45	G ³ / ₄
PRG0602	0,12	290	230/400	B	1,0/0,6	2890	120	99	197	5,7	45	G ³ / ₄
PRG0603	0,18	170	230/400	C	1,1/0,6	2825	120	99	197	5,6	48	G ³ / ₄
PRG0603	0,18	190	230/400	C	1,1/0,6	2825	120	99	197	5,6	48	G ³ / ₄
PRG0603	0,18	220	230/400	C	1,1/0,6	2825	120	99	197	5,7	48	G ³ / ₄
PRG0603	0,18	270	230/400	C	1,1/0,6	2825	120	99	197	5,8	48	G ³ / ₄
PRG0603	0,18	320	230/400	C	1,1/0,6	2825	120	99	197	5,9	48	G ³ / ₄
PRG0604	0,37	200	230/400	E	1,7/0,98	2785	120	99	197	6,7	49	G ³ / ₄
PRG0604	0,37	220	230/400	E	1,7/0,98	2785	120	99	197	6,7	49	G ³ / ₄
PRG0604	0,37	250	230/400	E	1,7/0,98	2785	120	99	197	6,8	49	G ³ / ₄
PRG0604	0,37	300	230/400	E	1,7/0,98	2785	120	99	197	6,9	49	G ³ / ₄

PRG

Vertical centrifugal pump

Performance curves PRG

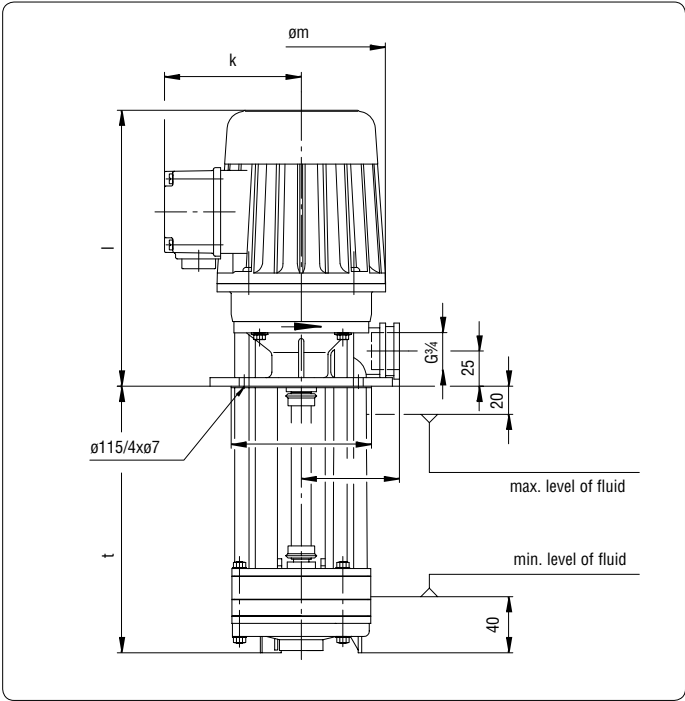


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PRG

Vertical centrifugal pump

Dimensions PRG



Dimensional table PRG

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l			
PRG0601	0,10	110	265/460	A	0,46/0,26	3257	96	89	173	3,5	45	G¾
PRG0601	0,10	130	265/460	A	0,46/0,26	3257	96	89	173	3,5	45	G¾
PRG0601	0,10	160	265/460	A	0,46/0,26	3257	96	89	173	3,6	45	G¾
PRG0601	0,10	210	265/460	A	0,46/0,26	3257	96	89	173	3,7	45	G¾
PRG0601	0,10	260	265/460	A	0,46/0,26	3257	96	89	173	3,8	45	G¾
PRG0602	0,14	140	265/460	B	0,9/0,5	3485	120	99	197	5,4	46	G¾
PRG0602	0,14	160	265/460	B	0,9/0,5	3485	120	99	197	5,4	46	G¾
PRG0602	0,14	190	265/460	B	0,9/0,5	3485	120	99	197	5,5	46	G¾
PRG0602	0,14	240	265/460	B	0,9/0,5	3485	120	99	197	5,6	46	G¾
PRG0602	0,14	290	265/460	B	0,9/0,5	3485	120	99	197	5,7	46	G¾
PRG0603	0,21	170	230/400	C	1,0/0,6	3420	120	99	197	5,6	50	G¾
PRG0603	0,21	190	265/460	C	1,0/0,6	3420	120	99	197	5,6	50	G¾
PRG0603	0,21	220	265/460	C	1,0/0,6	3420	120	99	197	5,7	50	G¾
PRG0603	0,21	270	265/460	C	1,0/0,6	3420	120	99	197	5,8	50	G¾
PRG0603	0,21	320	265/460	C	1,0/0,6	3420	120	99	197	5,9	50	G¾
PRG0604	0,42	200	265/460	E	1,7/1,0	3360	120	99	197	6,7	51	G¾
PRG0604	0,42	220	265/460	E	1,7/1,0	3360	120	99	197	6,7	51	G¾
PRG0604	0,42	250	265/460	E	1,7/1,0	3360	120	99	197	6,8	51	G¾
PRG0604	0,42	300	265/460	E	1,7/1,0	3360	120	99	197	6,9	51	G¾

PRA

Vertical centrifugal pump

PRA is a sealless, single-stage or multi-stage pump for delivery of slightly contaminated type of fluids. The installation is directly into the reservoir. The pressure port is located above the reservoir plate and designed with internal thread G $\frac{3}{4}$.



Machine
tools / Filter
systems



Temperature
control units



Printing
machines /
Packaging
machines



Technical data

Flow rate $Q_{\max}$	140 l/min
Total head $H_{\max}$	33 m
Immersion depth $t_{\max}$	450 mm 270 for PRA03
Kinematic viscosity	max. 20 mm ² /s
Liquid temperature range	5°C to +60°C -100°C to 100°C (H)*
Max grain size	ø3 mm - for PRA01 / PRA02 ø4 mm - for PRA03
Insulation class	F
Protection degree	IP54
Voltage	Three phase 3~230/400V $\pm 10\%$ at 50Hz Three phase 3~265/460V $\pm 10\%$ at 60Hz
Fluids type	Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids - for P Material Cooling brines, thermal oils, lyes and acids, chemicals especially organics solvents, detergents and cleaners - for H Material

* The maximum permissible operating temperature drops with a rising number of pump stages.

Materials

Upper flange	PPU LCP for H Material
Shaft	1.4122 1.4404 (AISI 316L) for H Material
Impeller	PPU LCP for H Material
Intermediate chamber	PPU LCP for H Material
Pump bottom	PPU LCP for H Material
Elastomers (O-ring; splash ring)	FKM (FPM)

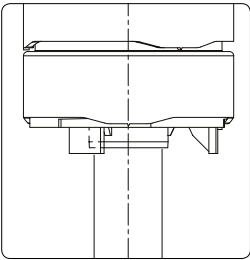


PRA

Vertical centrifugal pump

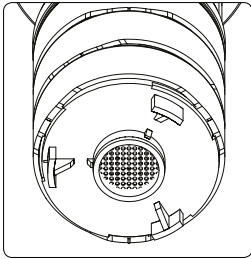
Version

Intake strainer	Stainless steel 1.4301
Extension tube ²⁾	PP
Agitator blades	Plastic

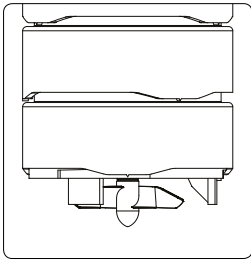


Extension tube (V):
To reach the desired immersion depth.

²⁾ The extension tube is provided with a standard length of 250mm.
It's up to the user to cut at desired length.

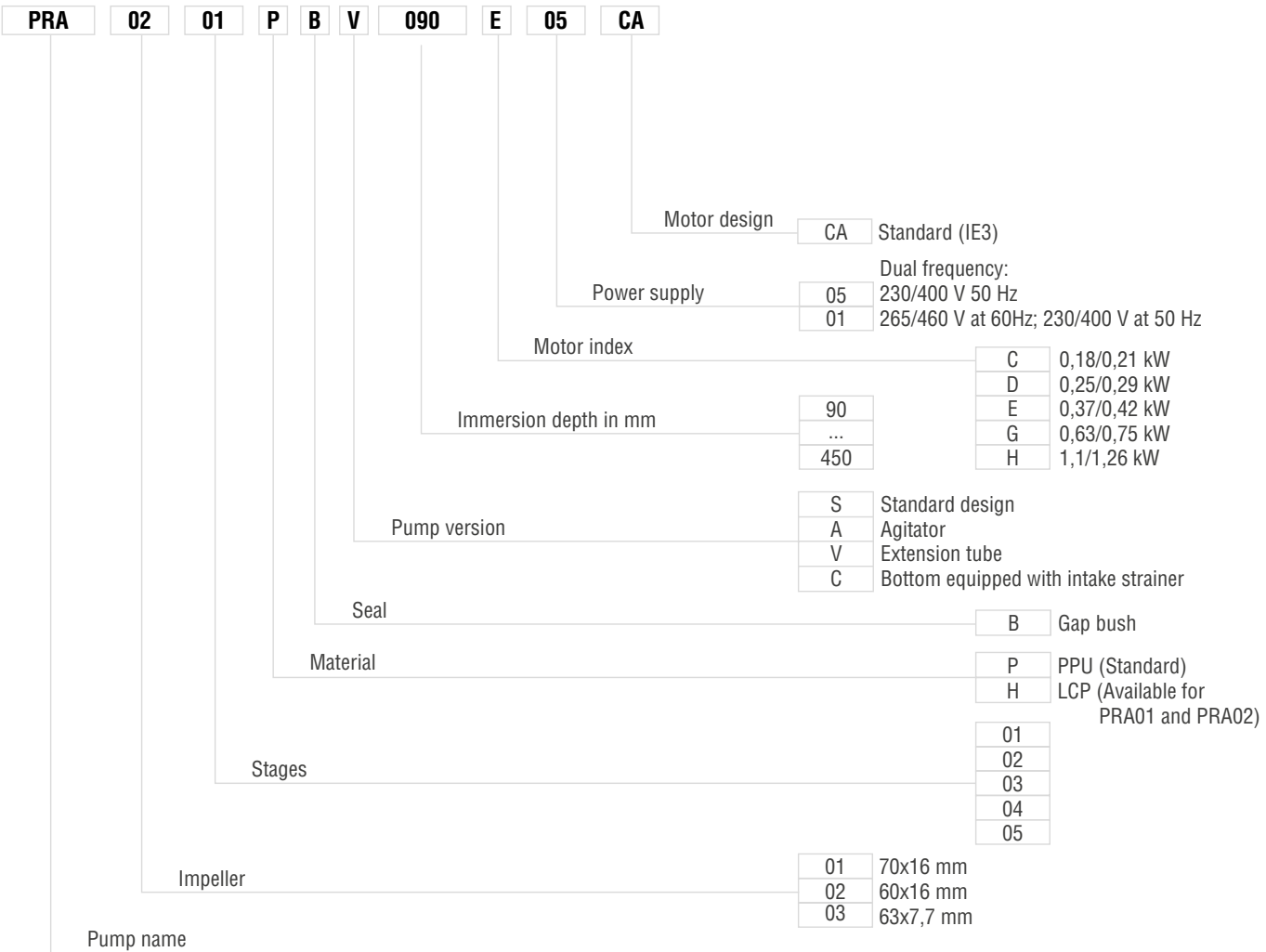


Intake strainer (C):
To prevent debris, sediment and other contaminants from entering the pump.



Agitator (A):
Suitable for polishing and grinding processes where particles leave a lot of sediment. The agitator attached to a metric thread at the end of the shaft, ensures continuous mixing of the pumped fluid. This effectively prevents the depositing of particles and hardening.
With agitator, immersion depth "t" increase 14mm

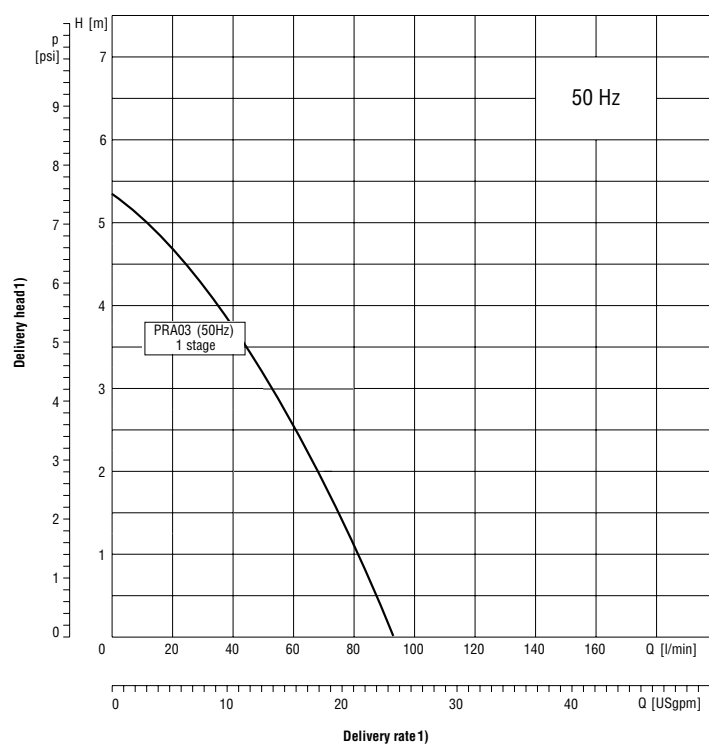
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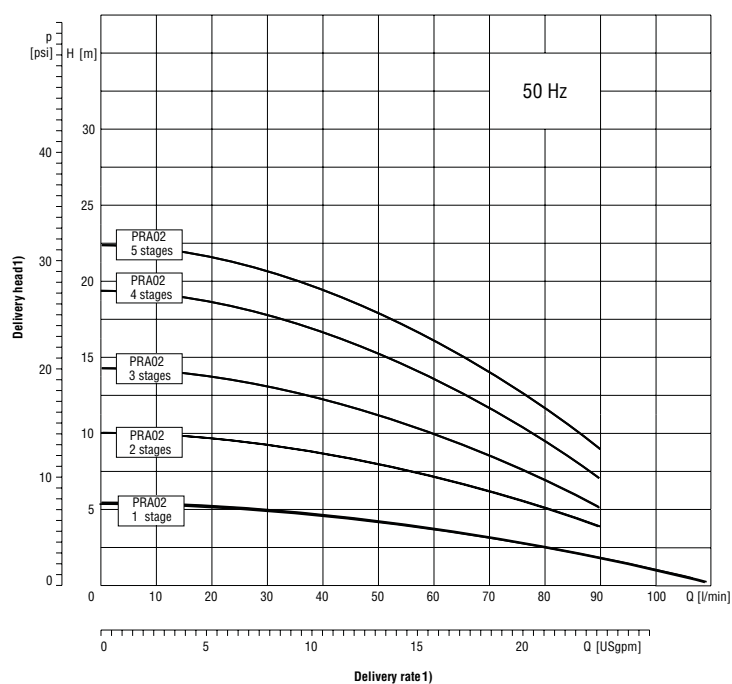
PRA

Vertical centrifugal pump

Performance curves PRA03



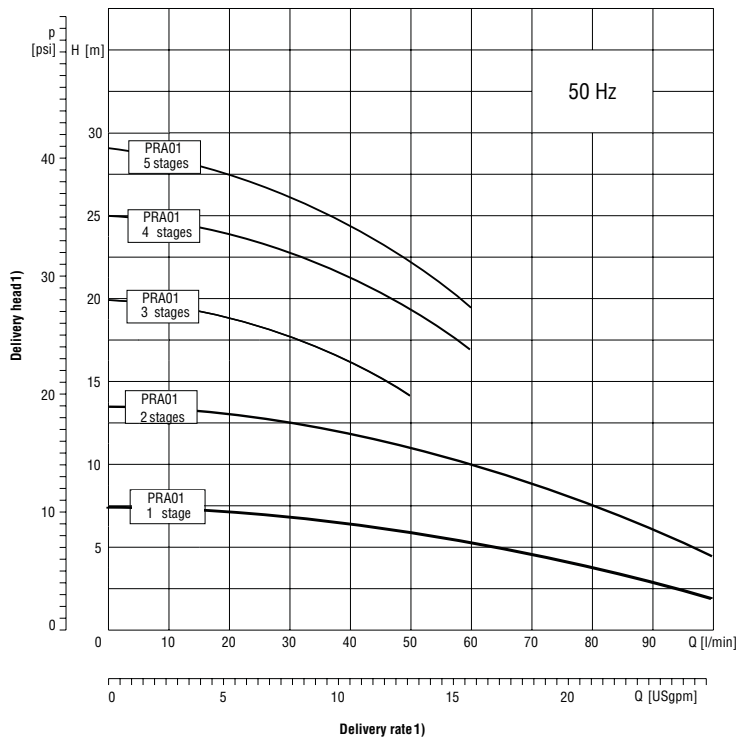
Performance curves PRA02



PRA

Vertical centrifugal pump

Performance curves PRA01

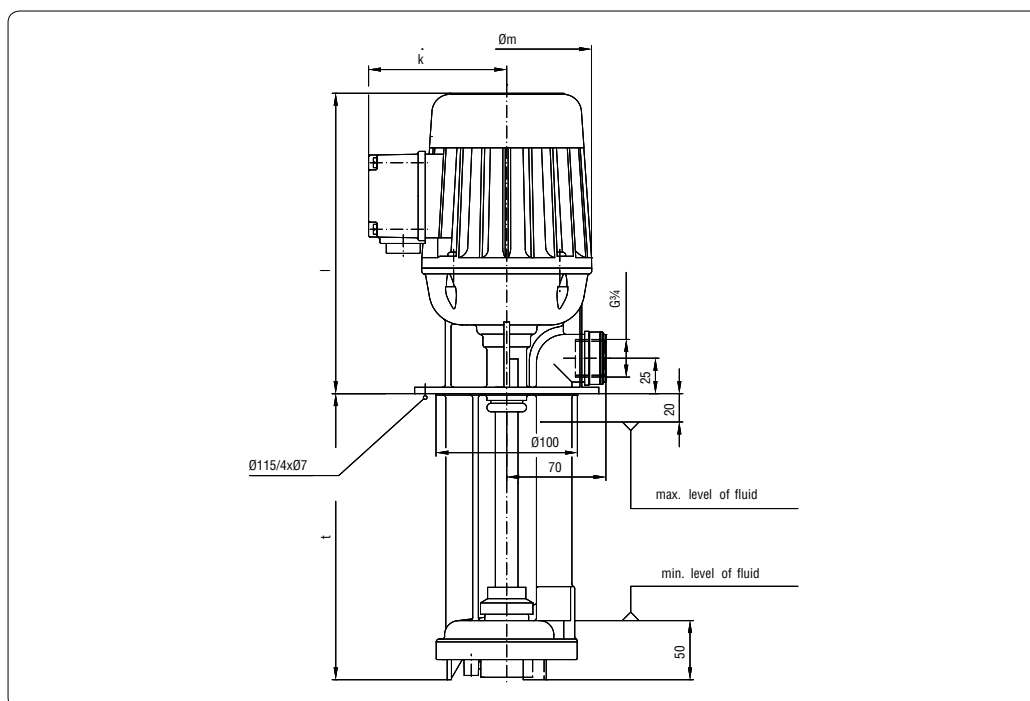


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PRA

Vertical centrifugal pump

Dimensions PRA03 - PRA02 - PRA01



Dimensional table PRA

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_n [min ⁻¹]	$\varnothing m$	k	l			
PRA0301	0,18	90	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$
PRA0301	0,18	120	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$
PRA0301	0,18	140	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$
PRA0301	0,18	170	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$
PRA0301	0,18	220	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$
PRA0301	0,18	270	230/400	C	1,1/0,6	2825	120	98	216	6	44	G $\frac{3}{4}$

PRA

Vertical centrifugal pump

Dimensional table PRA

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	øm	k	l			
PRA0201	0,25	90	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0201	0,25	120	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0201	0,25	140	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0201	0,25	170	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0201	0,25	220	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0201	0,25	270	230/400	D	0,5/0,85	2865	120	98	216	6	45	G $\frac{3}{4}$
PRA0202	0,37	130	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0202	0,37	160	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0202	0,37	180	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0202	0,37	210	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0202	0,37	260	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0202	0,37	310	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	170	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	200	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	220	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	250	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	300	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0203	0,37	350	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0204	0,63	200	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0204	0,63	230	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0204	0,63	250	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0204	0,63	280	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0204	0,63	330	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0204	0,63	450	230/400	G	2,7/1,5	2883	140	104	332	13	54	G $\frac{3}{4}$
PRA0205	1,1	240	230/400	H	4,3/2,5	2830	140	104	332	13	54	G $\frac{3}{4}$
PRA0205	1,1	270	230/400	H	4,3/2,5	2830	140	104	332	13	54	G $\frac{3}{4}$
PRA0205	1,1	290	230/400	H	4,3/2,5	2830	140	104	332	13,5	54	G $\frac{3}{4}$
PRA0205	1,1	320	230/400	H	4,3/2,5	2830	140	104	332	13,5	54	G $\frac{3}{4}$
PRA0205	1,1	450	230/400	H	4,3/2,5	2830	140	104	332	14	54	G $\frac{3}{4}$

PRA

Vertical centrifugal pump

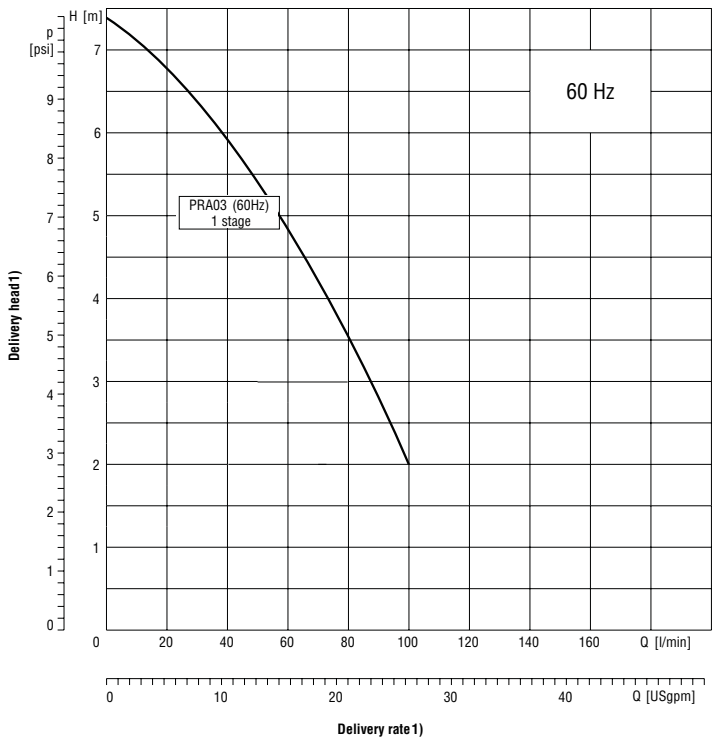
Dimensional table PRA

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_n [min ⁻¹]	øm	k	l			
PRA0101	0,18	90	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0101	0,18	120	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0101	0,18	140	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0101	0,18	170	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0101	0,18	220	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0101	0,18	270	230/400	C	1,1/0,6	2825	120	98	216	5	45	G $\frac{3}{4}$
PRA0102	0,37	130	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0102	0,37	160	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0102	0,37	180	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0102	0,37	210	230/400	E	1,7/0,98	2785	120	98	216	6	48	G $\frac{3}{4}$
PRA0102	0,37	260	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0102	0,37	310	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	170	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	200	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	220	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	250	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	300	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0103	0,37	350	230/400	E	1,7/0,98	2785	120	98	216	6,5	48	G $\frac{3}{4}$
PRA0104	0,63	200	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0104	0,63	230	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0104	0,63	250	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0104	0,63	280	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0104	0,63	330	230/400	G	2,7/1,5	2883	140	104	322	13	54	G $\frac{3}{4}$
PRA0104	0,63	450	230/400	G	2,7/1,5	2883	140	104	332	13	54	G $\frac{3}{4}$
PRA0105	0,75	240	230/400	G	3/1,7	2845	140	104	332	13	54	G $\frac{3}{4}$
PRA0105	0,75	270	230/400	G	3/1,7	2845	140	104	332	13	54	G $\frac{3}{4}$
PRA0105	0,75	290	230/400	G	3/1,7	2845	140	104	332	13,5	54	G $\frac{3}{4}$
PRA0105	0,75	320	230/400	G	3/1,7	2845	140	104	332	13,5	54	G $\frac{3}{4}$
PRA0105	0,75	450	230/400	G	3/1,7	2845	140	104	332	14	54	G $\frac{3}{4}$

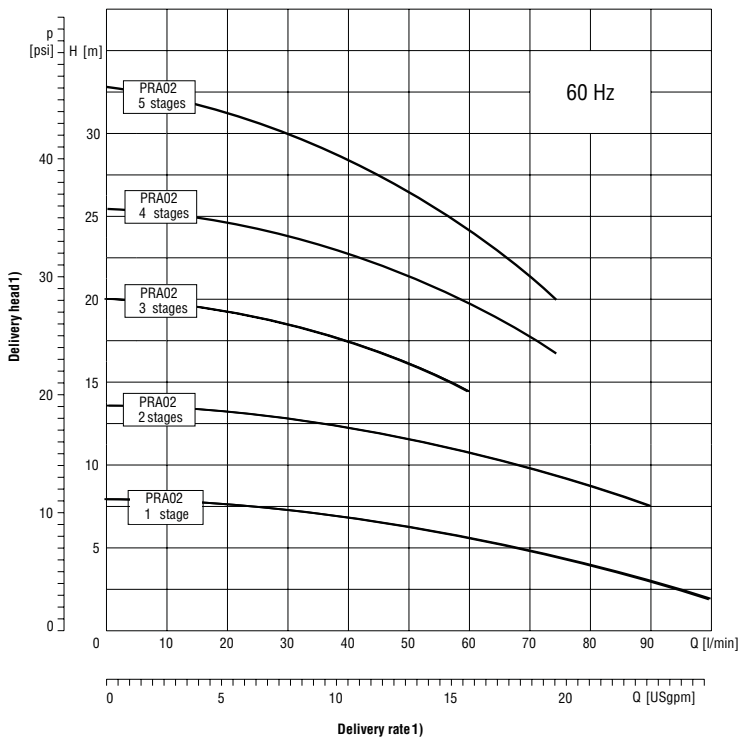
PRA

Vertical centrifugal pump

Performance curves PRA03



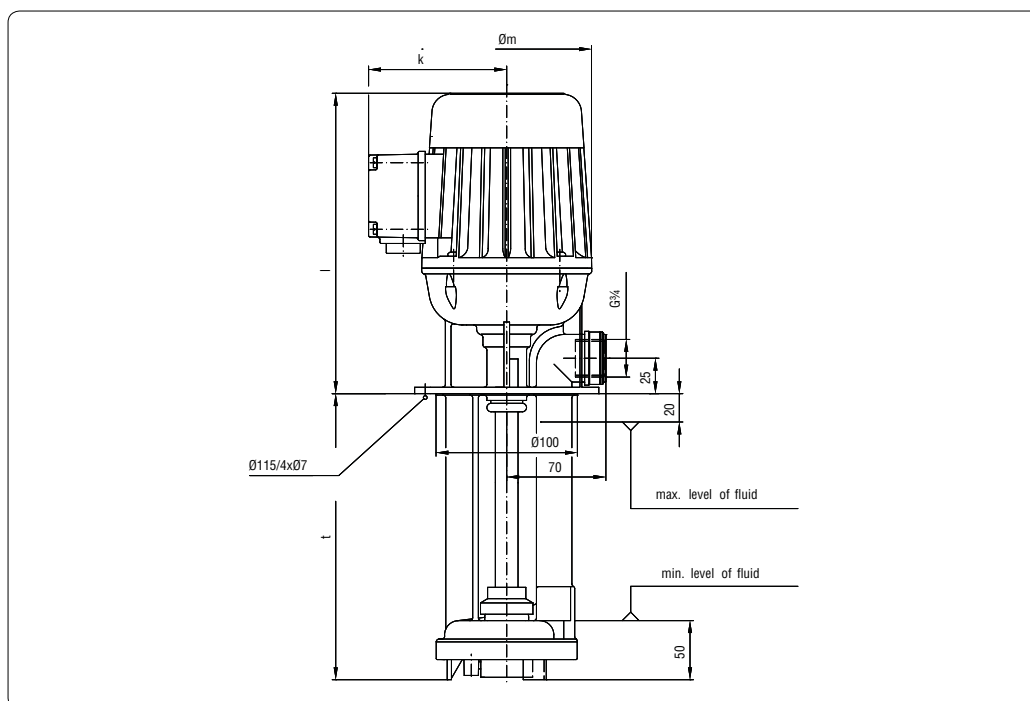
Performance curves PRA02



PRA

Vertical centrifugal pump

Dimensions PRA03 - PRA02



Dimensional table PRA

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_n [min ⁻¹]	øm	k	l			
PRA0301	0,21	90	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄
PRA0301	0,21	120	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄
PRA0301	0,21	140	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄
PRA0301	0,21	170	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄
PRA0301	0,21	220	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄
PRA0301	0,21	270	265/460	C	1,0/0,6	3420	120	98	216	6	44	G ³ / ₄

PRA

Vertical centrifugal pump

Dimensional table PRA

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	øm	k	l			
PRA0201	0,29	90	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0201	0,29	120	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0201	0,29	140	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0201	0,29	170	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0201	0,29	220	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0201	0,29	270	265/460	D	1,4/0,8	3470	120	98	216	6	45	G¾
PRA0202	0,42	130	265/460	E	1,7/1,0	3360	120	98	216	6	48	G¾
PRA0202	0,42	160	265/460	E	1,7/1,0	3360	120	98	216	6	48	G¾
PRA0202	0,42	180	265/460	E	1,7/1,0	3360	120	98	216	6	48	G¾
PRA0202	0,42	210	265/460	E	1,7/1,0	3360	120	98	216	6	48	G¾
PRA0202	0,42	260	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0202	0,42	310	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	170	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	200	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	220	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	250	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	300	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0203	0,42	350	265/460	E	1,7/1,0	3360	120	98	216	6,5	48	G¾
PRA0204	0,75	200	265/460	G	2,6/1,5	3460	140	104	322	13	54	G¾
PRA0204	0,75	230	265/460	G	2,6/1,5	3460	140	104	322	13	54	G¾
PRA0204	0,75	250	265/460	G	2,6/1,5	3460	140	104	322	13	54	G¾
PRA0204	0,75	280	265/460	G	2,6/1,5	3460	140	104	322	13	54	G¾
PRA0204	0,75	330	265/460	G	2,6/1,5	3460	140	104	322	13	54	G¾
PRA0204	0,75	450	265/460	G	2,6/1,5	3460	140	104	332	13	54	G¾
PRA0205	1,26	240	265/460	H	4,1/2,4	3440	140	104	332	13	54	G¾
PRA0205	1,26	270	265/460	H	4,1/2,4	3440	140	104	332	13	54	G¾
PRA0205	1,26	290	265/460	H	4,1/2,4	3440	140	104	332	13,5	54	G¾
PRA0205	1,26	320	265/460	H	4,1/2,4	3440	140	104	332	13,5	54	G¾
PRA0205	1,26	450	265/460	H	4,1/2,4	3440	140	104	332	14	54	G¾

PRK

Vertical centrifugal pump

PRK is single-stage or multi-stage pump with a hydrostatic sealing for delivery of slightly contaminated type of fluids. The installation is directly into the reservoir. The pressure port is located above the reservoir plate and designed with internal thread G $\frac{3}{4}$.



Machine
tools / Filter
systems



Temperature
control units



Printing
machines /
Packaging
machines



Technical data

Flow rate $Q_{\max}$	175 l/min
Total head $H_{\max}$	33 m
Immersion depth $t_{\max}$	410 mm
Kinematic viscosity	max. 20 mm ² /s
Liquid temperature range	+5°C to +60°C
Max grain size	max. ø3 mm
Insulation class	F
Protection degree	IP54
Voltage	Three phase 3~230/400V ±10% at 50Hz Three phase 3~265/460V ±10% at 60Hz
Fluids type	Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids

Materials

Upper flange	POM
Shaft	Stainless steel 1.4122
Impeller	POM
Diffuser	PP
Intermediate chamber	PPS
Bearings	Deep groove ball bearing with covering disk
Pump bottom	PP
Elastomers	NBR

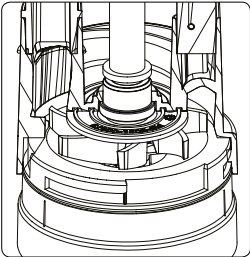


PRK

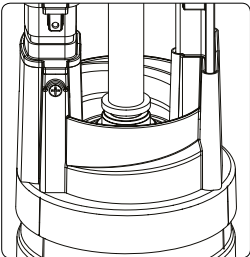
Vertical centrifugal pump

Version

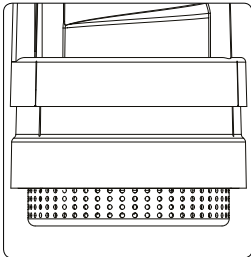
Intake strainer	Stainless steel 1.4301
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Labyrinth seal (standard):
Labyrinth seal reduces the internal fluid leakage by enhancement of friction inside the 'seal' and dissipation of kinetic energy.



Aquarium (standard):
Leakage after labyrinth seal will remain in the "Aquarium", even if the fluid level drops. The 'Aquarium' collect the leakage with no negative influence due to foaming or leakage spray.



Intake strainer (C):
To prevent debris, sediment and other contaminants from entering the pump.

Identification code

PRK

03

01

P

B

S

090

E

05

CA

Motor design

CA

Standard (IE3)

Power supply

05

230/400 V at 50 Hz

01

265/460 V at 60Hz; 230/400 V at 50 Hz

Motor index

D

0,25 kW

E

0,37/0,42 kW

F

0,55/0,62 kW

G

0,63/0,73 kW

H

1,1/1,26 kW

Immersion depth in mm

090

...

410

Pump version

S

Standard design

C

Bottom equipped with intake strainer

Seal

B

Gap bush

Material

P

POM (Standard)

Stages

01

02

03

04

05

Frame

01

02

03

04

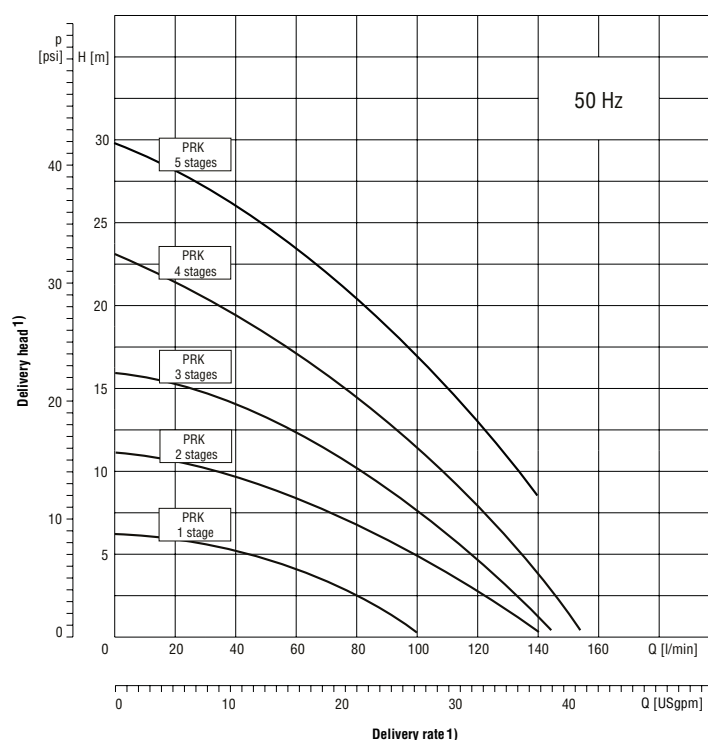
05

Pump name

PRK

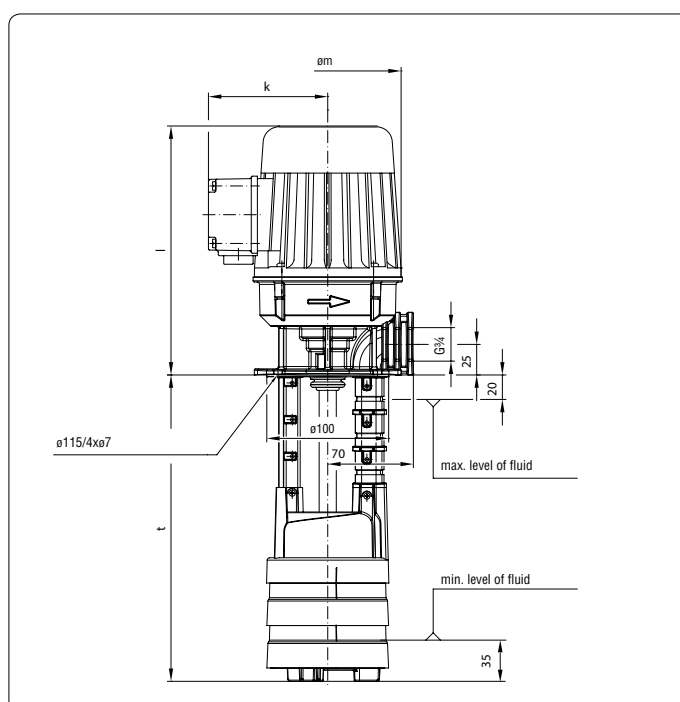
Vertical centrifugal pump

Performance curves PRK



1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg}/\text{dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Dimensions PRK(.)





PRK

Vertical centrifugal pump

Dimensional table PRK

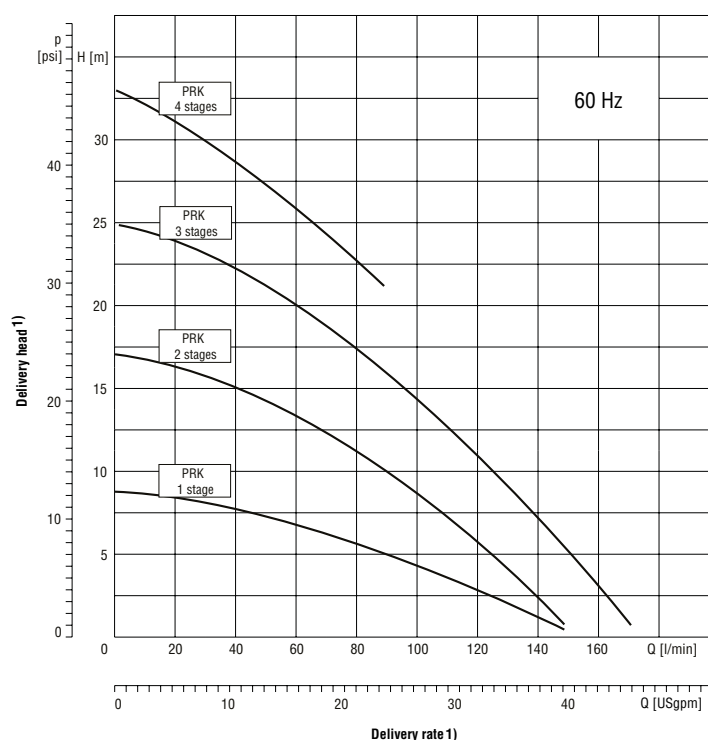
Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l			
PRK0301	0,25	90	230/400	D	1,5/0,85	2865	122	99	204	6	45	G ³ / ₄
PRK0301	0,25	120	230/400	D	1,5/0,85	2865	122	99	204	6	45	G ³ / ₄
PRK0301	0,25	150	230/400	D	1,5/0,85	2865	122	99	204	6,1	45	G ³ / ₄
PRK0301	0,25	180	230/400	D	1,5/0,85	2865	122	99	204	6,2	45	G ³ / ₄
PRK0301	0,25	210	230/400	D	1,5/0,85	2865	122	99	204	6,2	45	G ³ / ₄
PRK0301	0,25	240	230/400	D	1,5/0,85	2865	122	99	204	6,3	45	G ³ / ₄
PRK0301	0,25	270	230/400	D	1,5/0,85	2865	122	99	204	6,4	45	G ³ / ₄
PRK0302	0,37	125	230/400	E	1,7/0,98	2785	122	99	204	6,1	48	G ³ / ₄
PRK0302	0,37	155	230/400	E	1,7/0,98	2785	122	99	204	6,2	48	G ³ / ₄
PRK0302	0,37	185	230/400	E	1,7/0,98	2785	122	99	204	6,3	48	G ³ / ₄
PRK0302	0,37	215	230/400	E	1,7/0,98	2785	122	99	204	6,3	48	G ³ / ₄
PRK0302	0,37	245	230/400	E	1,7/0,98	2785	122	99	204	6,4	48	G ³ / ₄
PRK0302	0,37	275	230/400	E	1,7/0,98	2785	122	99	204	6,5	48	G ³ / ₄
PRK0302	0,37	305	230/400	E	1,7/0,98	2785	122	99	204	6,5	48	G ³ / ₄
PRK0303	0,55	160	230/400	F	2,4/1,4	2818	141,4	103	311	10,3	52	G ³ / ₄
PRK0303	0,55	190	230/400	F	2,4/1,4	2818	141,4	103	311	10,3	52	G ³ / ₄
PRK0303	0,55	220	230/400	F	2,4/1,4	2818	141,4	103	311	10,4	52	G ³ / ₄
PRK0303	0,55	250	230/400	F	2,4/1,4	2818	141,4	103	311	10,5	52	G ³ / ₄
PRK0303	0,55	280	230/400	F	2,4/1,4	2818	141,4	103	311	10,6	52	G ³ / ₄
PRK0303	0,55	310	230/400	F	2,4/1,4	2818	141,4	103	311	10,6	52	G ³ / ₄
PRK0303	0,55	340	230/400	F	2,4/1,4	2818	141,4	103	311	10,7	52	G ³ / ₄
PRK0304	0,63	195	230/400	G	2,7/1,5	2883	141,4	103	311	12,7	54	G ³ / ₄
PRK0304	0,63	225	230/400	G	2,7/1,5	2883	141,4	103	311	12,8	54	G ³ / ₄
PRK0304	0,63	255	230/400	G	2,7/1,5	2883	141,4	103	311	12,9	54	G ³ / ₄
PRK0304	0,63	285	230/400	G	2,7/1,5	2883	141,4	103	311	13	54	G ³ / ₄
PRK0304	0,63	315	230/400	G	2,7/1,5	2883	141,4	103	311	13	54	G ³ / ₄
PRK0304	0,63	345	230/400	G	2,7/1,5	2883	141,4	103	311	13,1	54	G ³ / ₄
PRK0304	0,63	375	230/400	G	2,7/1,5	2883	141,4	103	311	13,2	54	G ³ / ₄
PRK0305	1,1	230	230/400	H	4,3/2,5	2830	141,1	103	311	14	58	G ³ / ₄
PRK0305	1,1	260	230/400	H	4,3/2,5	2830	141,1	103	311	14,1	58	G ³ / ₄
PRK0305	1,1	290	230/400	H	4,3/2,5	2830	141,1	103	311	14,2	58	G ³ / ₄
PRK0305	1,1	320	230/400	H	4,3/2,5	2830	141,1	103	311	14,3	58	G ³ / ₄
PRK0305	1,1	350	230/400	H	4,3/2,5	2830	141,1	103	311	14,4	58	G ³ / ₄
PRK0305	1,1	380	230/400	H	4,3/2,5	2830	141,1	103	311	14,4	58	G ³ / ₄
PRK0305	1,1	410	230/400	H	4,3/2,5	2830	141,1	103	311	14,5	58	G ³ / ₄

PRK

PRK

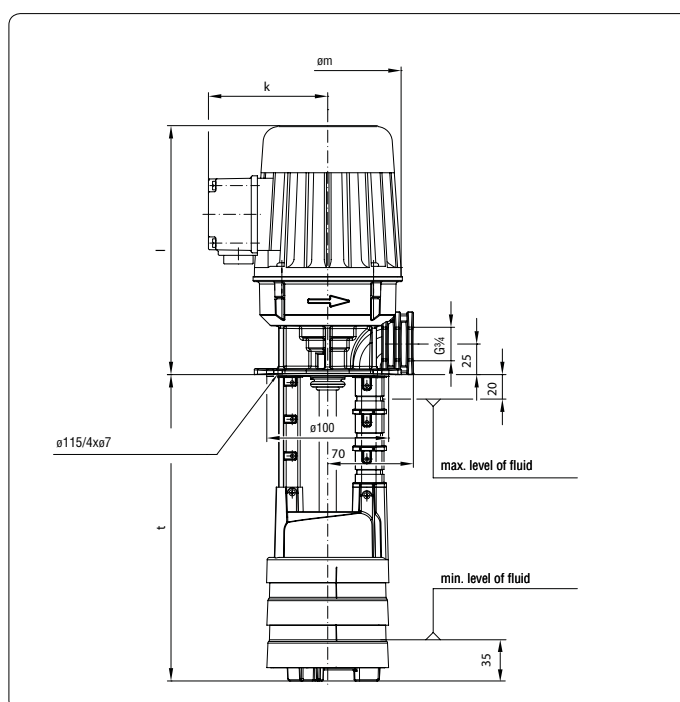
Vertical centrifugal pump

Performance curves PRK



1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg}/\text{dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Dimensions PRK(.)





PRK

Vertical centrifugal pump

Dimensional table PRK

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l			
PRK0301	0,42	90	265/460	E	1,7/1,0	3360	122	99	204	6	48	G ³ / ₄
PRK0301	0,42	120	265/460	E	1,7/1,0	3360	122	99	204	6	48	G ³ / ₄
PRK0301	0,42	150	265/460	E	1,7/1,0	3360	122	99	204	6,1	48	G ³ / ₄
PRK0301	0,42	180	265/460	E	1,7/1,0	3360	122	99	204	6,2	48	G ³ / ₄
PRK0301	0,42	210	265/460	E	1,7/1,0	3360	122	99	204	6,2	48	G ³ / ₄
PRK0301	0,42	240	265/460	E	1,7/1,0	3360	122	99	204	6,3	48	G ³ / ₄
PRK0301	0,42	270	265/460	E	1,7/1,0	3360	122	99	204	6,4	48	G ³ / ₄
PRK0302	0,62	125	265/460	F	2,3/1,3	3405	141,1	103	311	10,1	52	G ³ / ₄
PRK0302	0,62	155	265/460	F	2,3/1,3	3405	141,1	103	311	10,2	52	G ³ / ₄
PRK0302	0,62	185	265/460	F	2,3/1,3	3405	141,1	103	311	10,3	52	G ³ / ₄
PRK0302	0,62	215	265/460	F	2,3/1,3	3405	141,1	103	311	10,3	52	G ³ / ₄
PRK0302	0,62	245	265/460	F	2,3/1,3	3405	141,1	103	311	10,4	52	G ³ / ₄
PRK0302	0,62	275	265/460	F	2,3/1,3	3405	141,1	103	311	10,5	52	G ³ / ₄
PRK0302	0,62	305	265/460	F	2,3/1,3	3405	141,1	103	311	10,6	52	G ³ / ₄
PRK0303	1,26	160	265/460	H	4,1/2,4	3440	141,4	103	311	12,6	54	G ³ / ₄
PRK0303	1,26	190	265/460	H	4,1/2,4	3440	141,4	103	311	12,7	54	G ³ / ₄
PRK0303	1,26	220	265/460	H	4,1/2,4	3440	141,4	103	311	12,7	54	G ³ / ₄
PRK0303	1,26	250	265/460	H	4,1/2,4	3440	141,4	103	311	12,8	54	G ³ / ₄
PRK0303	1,26	280	265/460	H	4,1/2,4	3440	141,4	103	311	12,9	54	G ³ / ₄
PRK0303	1,26	310	265/460	H	4,1/2,4	3440	141,4	103	311	13	54	G ³ / ₄
PRK0303	1,26	340	265/460	H	4,1/2,4	3440	141,4	103	311	13	54	G ³ / ₄
PRK0304	1,26	195	265/460	H	4,1/2,4	3440	141,4	103	311	13,9	58	G ³ / ₄
PRK0304	1,26	225	265/460	H	4,1/2,4	3440	141,4	103	311	14	58	G ³ / ₄
PRK0304	1,26	255	265/460	H	4,1/2,4	3440	141,4	103	311	14,1	58	G ³ / ₄
PRK0304	1,26	285	265/460	H	4,1/2,4	3440	141,4	103	311	14,1	58	G ³ / ₄
PRK0304	1,26	315	265/460	H	4,1/2,4	3440	141,4	103	311	14,2	58	G ³ / ₄
PRK0304	1,26	345	265/460	H	4,1/2,4	3440	141,4	103	311	14,3	58	G ³ / ₄
PRK0304	1,26	375	265/460	H	4,1/2,4	3440	141,4	103	311	14,3	58	G ³ / ₄

PRK

PSR

Vertical centrifugal pump

PSR is a multi-stage pump for delivery of slightly contaminated types of fluids.

The installation is directly into the reservoir, the pressure port is located above the reservoir plate and designed with internal thread G1"¼ or G2".



Machine
tools / Filter
systems



Temperature
control units



Optical
machine
tools

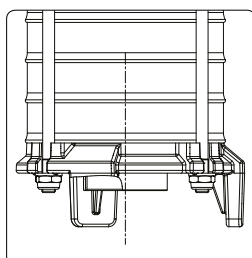


Technical data

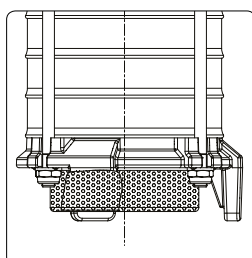
Flow rate Q_{max}	440 l/min
Total head H_{max}	262 m
Immersion depth t_{max}	876 mm
Kinematic viscosity	max. 20 mm ² /s
Liquid temperature range	-10°C to +80°C
Max grain size	ø2 mm
Insulation class	F (temperature rise class B)
Protection degree	IP55
Voltage	~3 230/400 ± 10% V (up to 4kW) at 50Hz ~3 400/690 ± 10% V (above 5.5kW) at 50Hz ~3 265/460 ± 10% V (up to 4kW) at 60Hz ~3 460 ± 10% V (above 5.5kW) at 60Hz
Fluids type	Emulsions, cooling and cutting oils, cleaning liquids, mild acids

Version

Bottom for extension tube	EN 1.4301 (AISI 304)
Intake strainer	EN 1.4301 (AISI 304)



Bottom for extension tube (V)



Intake strainer (C):
To prevent debris, sediment and other contaminants from entering the pump.

Materials

Pump support	Cast iron (black paint) - "G" Cast iron (nickel coating) - "C" PSR01-03-05 Cast iron (galvanic paint) - "T" PSR01-03-05
Shaft	1.4301 (AISI 304) or 1.4462 (AISI 329A) (Depending on the model)
Impeller	1.4301 (AISI 304)
Intermediate casing	1.4301 (AISI 304)
Liner ring	1.4301 (AISI 304) + PPS
Bottom flange	Cast iron (naked) - "G" 1.4305 (AISI 303) - "C"/"T" PSR01-03-05
Shaft sleeve bearing	Tungsten carbide
O-ring	FPM
Tie rods	AISI 431



PSR

Vertical centrifugal pump

Identification code

PSR

05

06

G

B

S

250

E

05

CA

Motor design

CA

IE3

Power supply

05

230/400 V at 50 Hz (up to 4 kW)
400/690 V at 50 Hz (above 5,5 kW)

06

265/460 V at 60 Hz (up to 4 kW)
460 ± 10% V (above 5.5kW)

Motor index

E

0,37 kW

L

3,0 kW

F

0,55 kW

M

4,0 kW

G

0,75 kW

N

5,5 kW

H

1,1 kW

O

7,5 kW

J

1,5 kW

P

11 kW

K

2,2 kW

Q

15 kW

Immersion depth in mm

141

...

876

Pump version

S

Standard design

V

Bottom for extension tube

C

Bottom equipped with intake strainer

Seal

B

Gap bush (Standard) $H_{max} < 150m$

G

Mechanical seal $H_{max} > 150m$

Material

G

Cast iron black painted (standard)

C

Cast iron nickel-plated

T

Cast iron with black galvanized paint

N. of impellers

01

02

...

30

Nominal rate m³/h

01, 03, 05, 10, 15

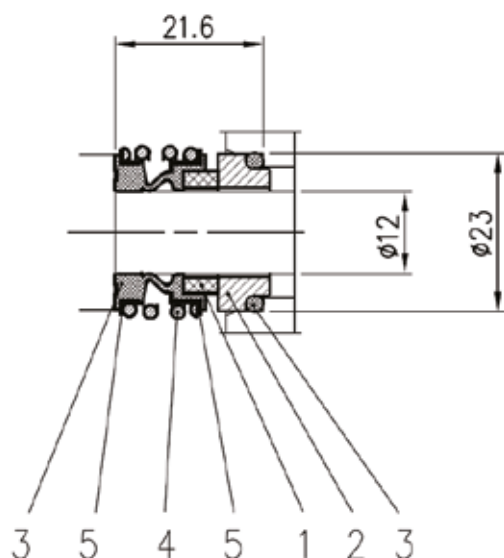
Pump name

PSR

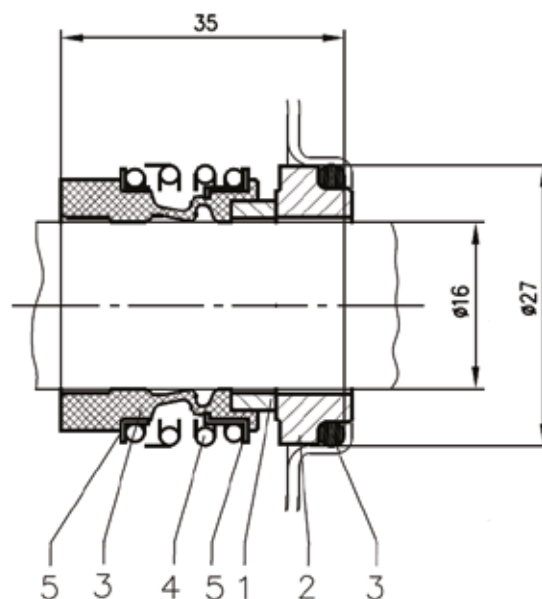
Vertical centrifugal pump

Mechanical Seal Data PSR

PSR 01 - 03 - 05



PSR 10 - 15

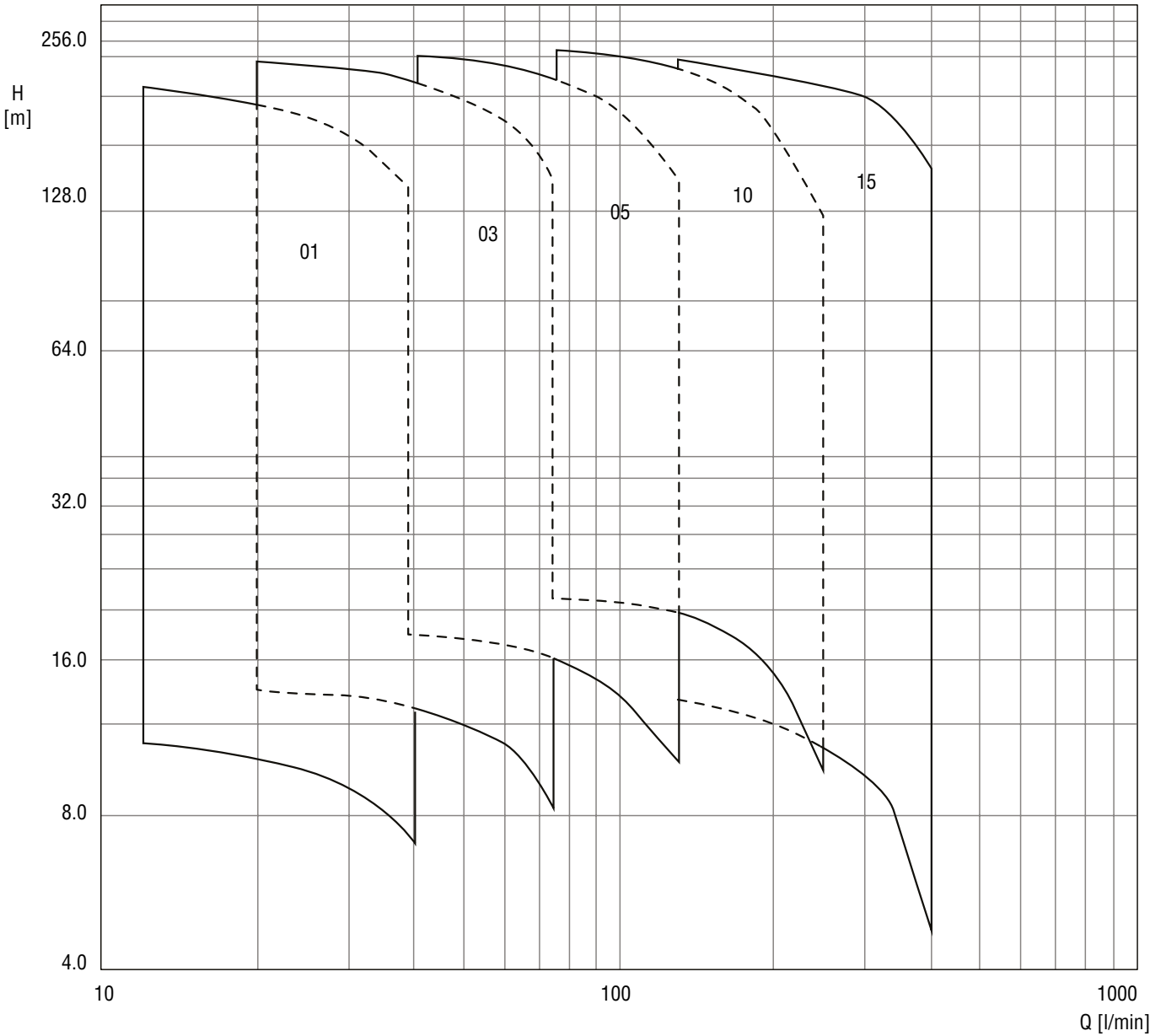


Pump Size	Mechanical Seal Type	Mechanical Seal Material									
		1		2		3		4		5	
		Rotating part	Code	Stationary part	Code	Elastomers	Code	Compression spring	Code	Collar	Code
PSR01-03-05	BQ1VGG	Carbon	B	SiC	Q1	FPM	V	AISI 316	G	AISI 316	G
PSR10-15	BQ1VGG	Carbon	B	SiC	Q1	FPM	V	AISI 316	G	AISI 316	G

PSR

Vertical centrifugal pump

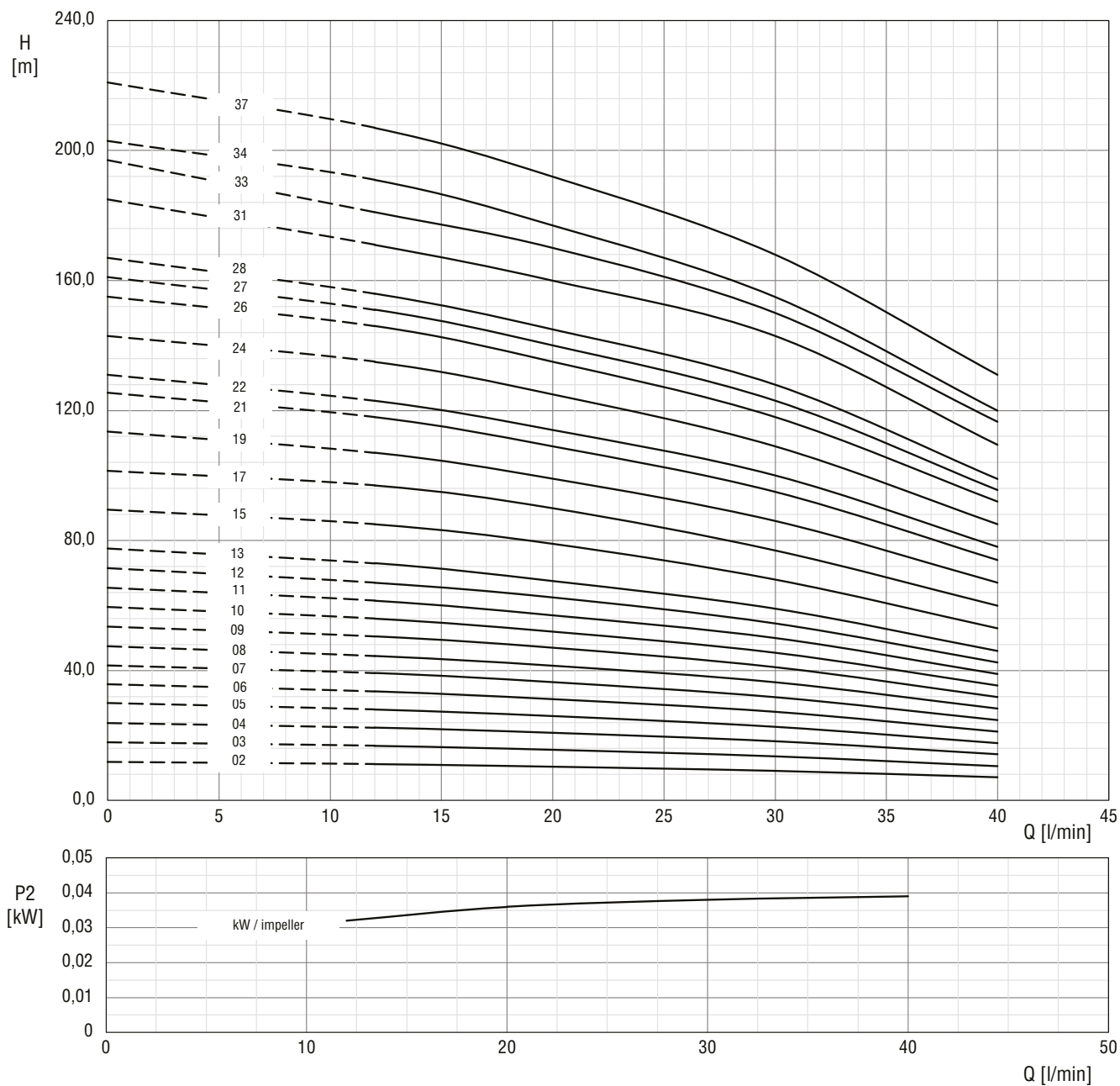
Performance range PSR(.)



PSR

Vertical centrifugal pump

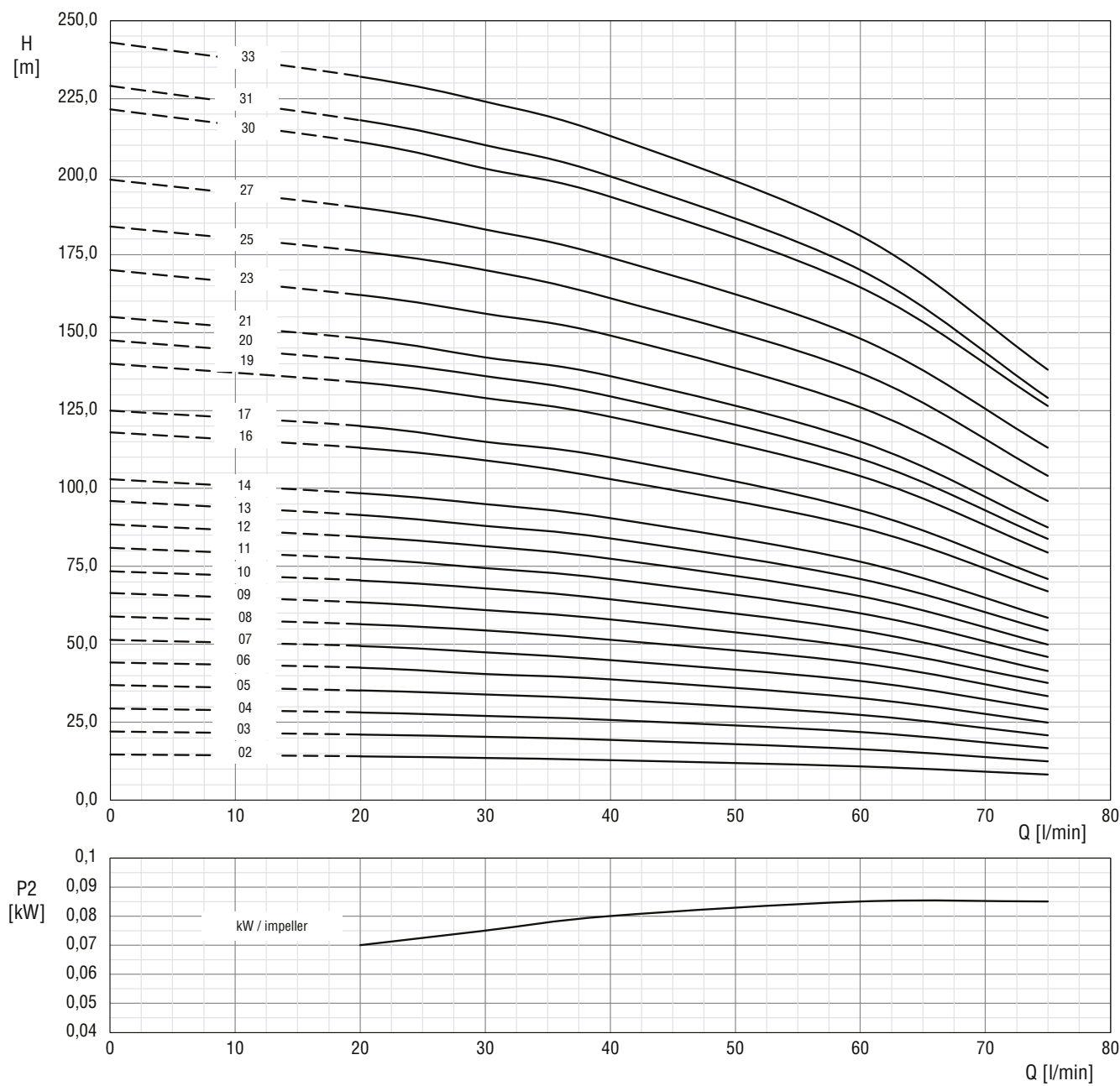
Performance curves PSR01



PSR

Vertical centrifugal pump

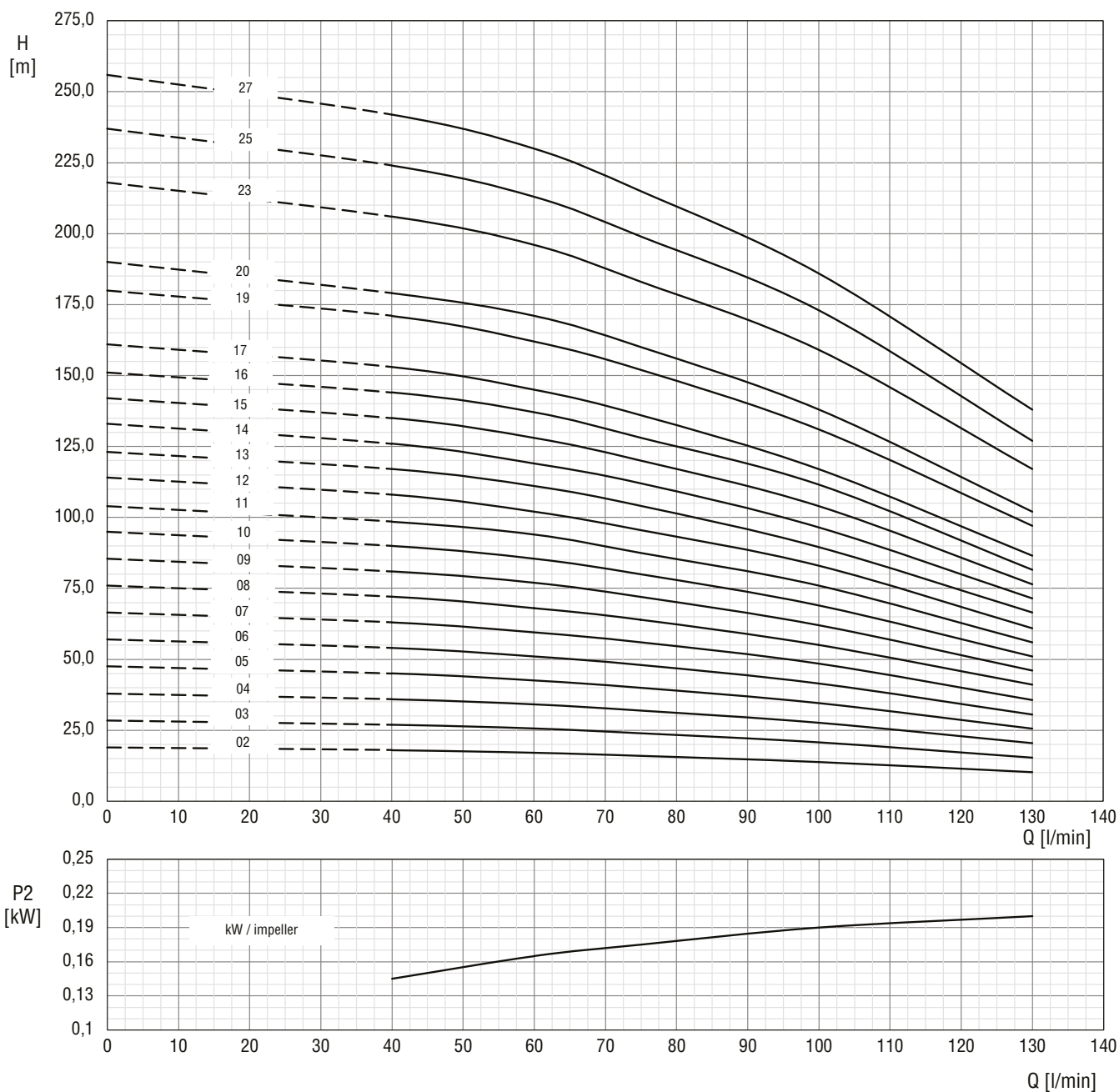
Performance curves PSR03



PSR

Vertical centrifugal pump

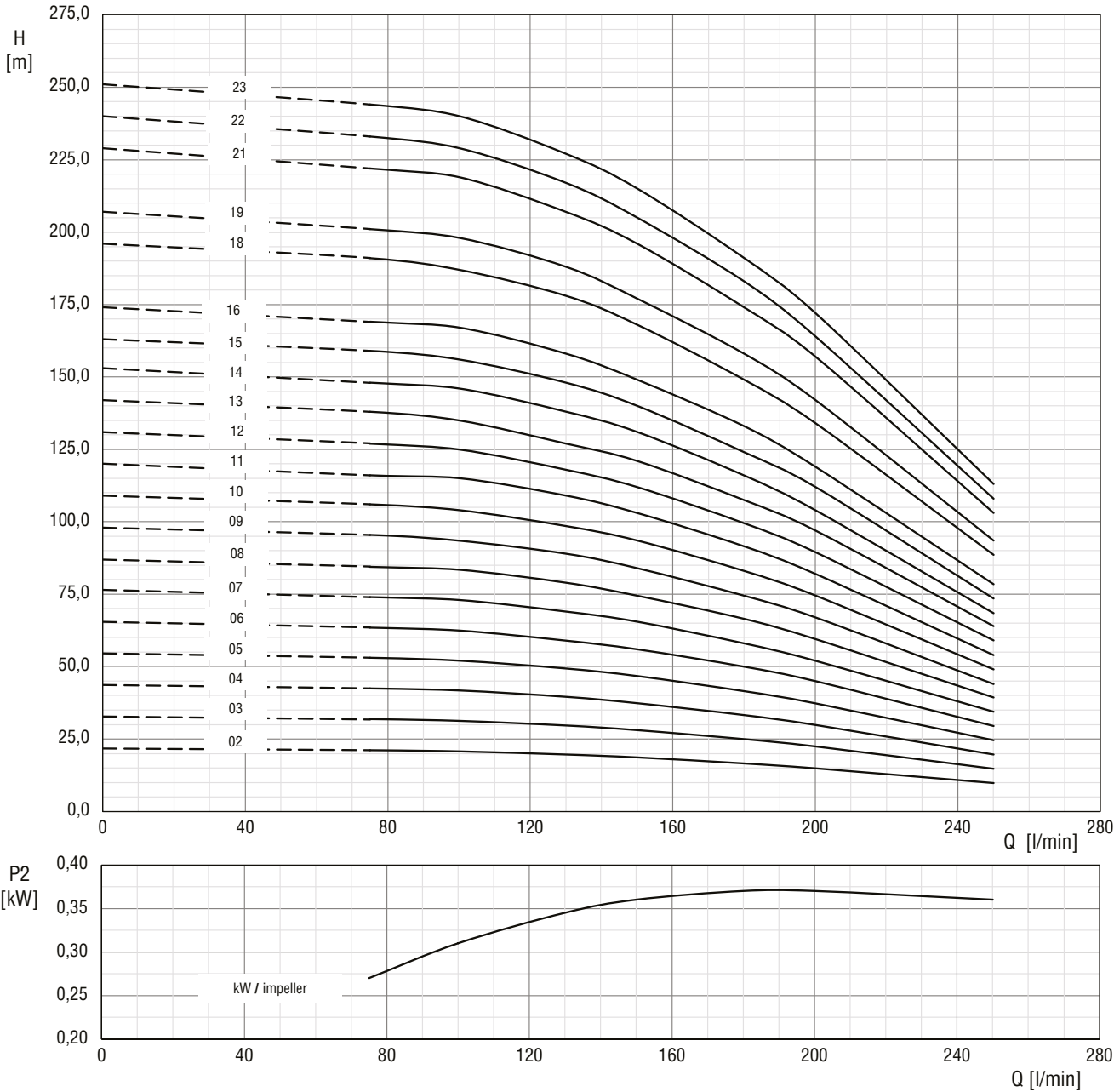
Performance curves PSR05



PSR

Vertical centrifugal pump

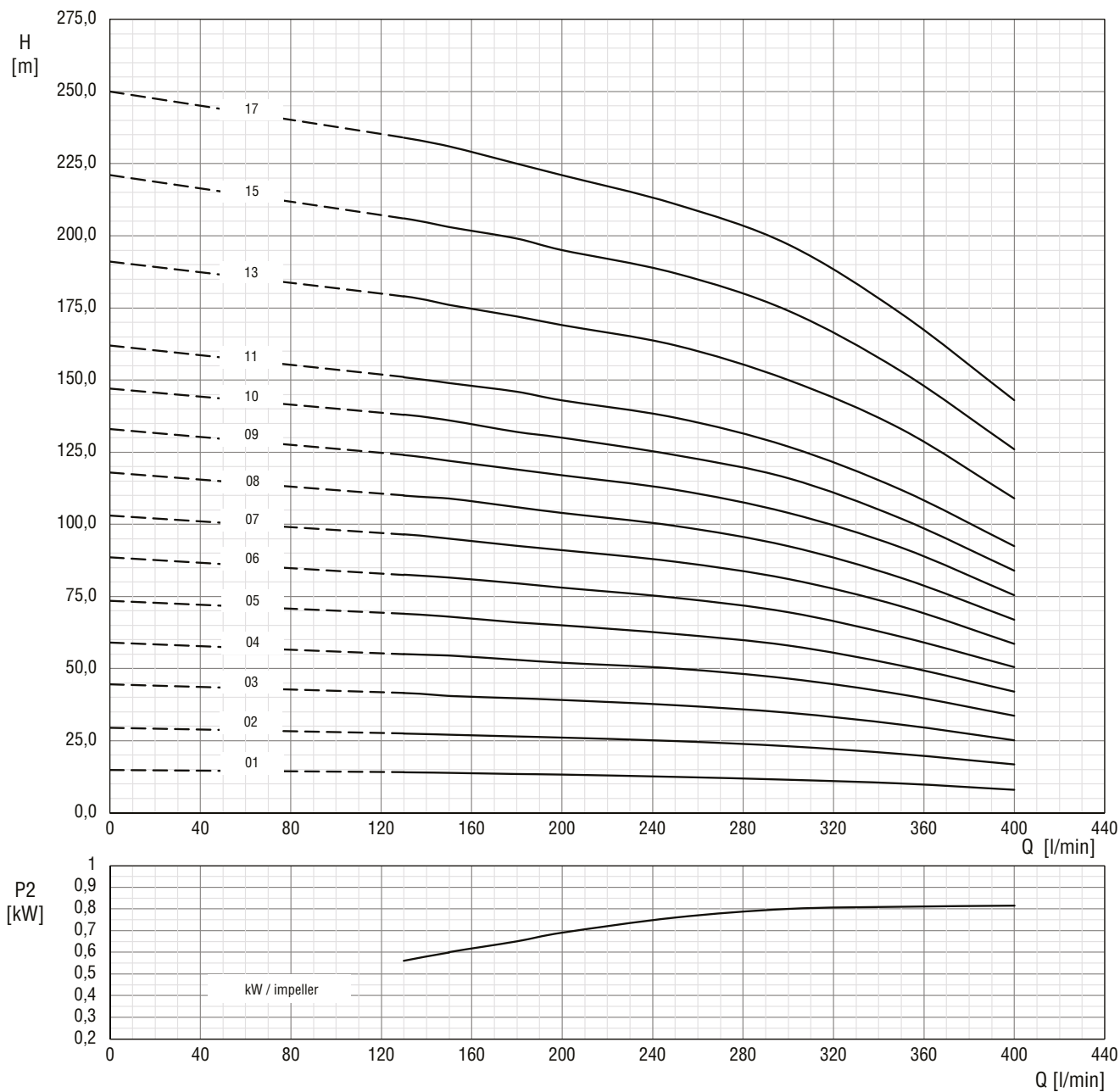
Performance curves PSR10



PSR

Vertical centrifugal pump

Performance curves PSR15



PSR

Vertical centrifugal pump

Selection chart PSR01 - PSR03

Model	Motor		Configuration	Q=Capacity							
	HP	KW		l/min	0	12	20	30	40	60	75
				m³/h	0	0.7	1.2	1.8	2.4	3.6	4.5
H=Total manometric head [m]											
PSR0102(.)	0,5	0,37	Extended shaft		11.9	11.2	10.4	9.1	7.1	-	-
PSR0103(.)	0,5	0,37	Extended shaft		17.9	16.8	15.6	13.6	10.6	-	-
PSR0104(.)	0,5	0,37	Extended shaft		23.8	22.4	20.8	18.2	14.2	-	-
PSR0105(.)	0,5	0,37	Extended shaft		30.0	28.0	26.0	22.7	17.7	-	-
PSR0106(.)	0,5	0,37	Extended shaft		35.8	33.6	31.2	27.3	21.2	-	-
PSR0107(.)	0,5	0,37	Extended shaft		41.5	39.2	36.4	31.8	24.8	-	-
PSR0108(.)	0,5	0,37	Extended shaft		47.5	44.5	41.5	36.4	28.3	-	-
PSR0109(.)	0,75	0,55	Extended shaft		53.5	50.5	47.0	41.0	31.8	-	-
PSR0110(.)	0,75	0,55	Extended shaft		59.6	56.0	52.0	45.5	35.4	-	-
PSR0111(.)	0,75	0,55	Extended shaft		65.5	61.5	57.0	50.0	38.9	-	-
PSR0112(.)	0,75	0,55	Extended shaft		71.5	67.0	62.5	54.5	42.5	-	-
PSR0113(.)	1	0,75	Extended shaft		77.5	73.0	67.5	59.0	46.0	-	-
PSR0115(.)	1	0,75	Extended shaft		89.5	85.0	79.0	68.0	53.0	-	-
PSR0117(.)	1,5	1,1	With coupling		101.5	97.0	90.0	77.0	60.0	-	-
PSR0119(.)	1,5	1,1	With coupling		113.5	107.0	99.0	86.0	67.0	-	-
PSR0121(.)	1,5	1,1	With coupling		125.5	118.0	109.0	95.0	74.0	-	-
PSR0122(.)	1,5	1,1	With coupling		131.0	123.0	114.0	100.0	78.0	-	-
PSR0124(.)	1,5	1,1	With coupling		143.0	135.0	125.0	109.0	85.0	-	-
PSR0126(.)	2	1,5	With coupling		155.0	146.0	135.0	118.0	92.0	-	-
PSR0127(.)	2	1,5	With coupling		161.0	151.0	140.0	123.0	95.5	-	-
PSR0128(.)	2	1,5	With coupling		167.0	156.0	145.0	128.0	99.0	-	-
PSR0131(.)	2	1,5	With coupling		185.0	171.0	160.0	143.0	109.5	-	-
PSR0133(.)	2	1,5	With coupling		197.0	181.0	170.0	150.0	116.5	-	-
PSR0134(.)	2	1,5	With coupling		203.0	191.0	177.0	155.0	120.0	-	-
PSR0137(.)	3	2,2	With coupling		221.0	207.0	192.0	168.0	131.0	-	-
PSR0302(.)	0,5	0,37	Extended shaft		14.7	-	14.1	13.6	12.9	10.9	8.3
PSR0303(.)	0,5	0,37	Extended shaft		22.1	-	21.1	20.4	19.4	16.4	12.5
PSR0304(.)	0,5	0,37	Extended shaft		29.5	-	28.2	27.1	25.8	21.9	16.7
PSR0305(.)	0,75	0,55	Extended shaft		36.9	-	35.2	33.9	32.3	27.4	20.9
PSR0306(.)	0,75	0,55	Extended shaft		44.2	-	42.5	40.5	38.8	32.8	25.0
PSR0307(.)	1	0,75	Extended shaft		51.5	-	49.5	47.5	45.0	38.3	29.2
PSR0308(.)	1	0,75	Extended shaft		59.0	-	56.5	54.5	51.5	44.0	33.4
PSR0309(.)	1,5	1,1	Extended shaft		66.5	-	63.5	61.0	58.0	49.0	37.6
PSR0310(.)	1,5	1,1	Extended shaft		73.5	-	70.5	68.0	64.5	54.5	41.5
PSR0311(.)	1,5	1,1	Extended shaft		81.0	-	77.5	74.5	71.0	60.0	46.0
PSR0312(.)	1,5	1,1	Extended shaft		88.5	-	84.5	81.5	77.5	65.5	50.0
PSR0313(.)	2	1,5	With coupling		96.0	-	91.5	88.0	84.0	71.0	54.5
PSR0314(.)	2	1,5	With coupling		103.0	-	98.5	95.0	90.5	76.5	58.5
PSR0316(.)	2	1,5	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(.)	3	2,2	With coupling		140.0	-	134.0	129.0	123.0	104.0	79.5
PSR0320(.)	2	2,2	With coupling		147.5	-	141.0	136.0	129.5	109.5	83.8
PSR0321(.)	3	2,2	With coupling		155.0	-	148.0	142.0	136.0	115.0	87.5
PSR0323(.)	3	2,2	With coupling		170.0	-	162.0	156.0	149.0	126.0	96.0
PSR0325(.)	4	3	With coupling		184.0	-	176.0	170.0	161.0	137.0	104.0
PSR0327(.)	4	3	With coupling		199.0	-	190.0	183.0	174.0	148.0	113.0
PSR0330(.)	4	3	With coupling		221.5	-	211.0	202.5	193.5	164.5	126.5
PSR0331(.)	4	3	With coupling		229.0	-	218.0	210.0	200.0	170.0	129.0
PSR0333(.)	4	3	With coupling		243.0	-	232.0	224.0	213.0	181.0	138.0

PSR

Vertical centrifugal pump

Selection chart PSR05

Model	Motor		Configuration	Q=Capacity						
	HP	kW		l/min	0	40	60	75	100	130
				m³/h	0	2.4	3.6	4.5	6.0	7.8
H=Total manometric head [m]										
PSR0502(.)	0,5	0,37	Extended shaft		19.0	18.0	17.1	16.0	13.8	10.2
PSR0503(.)	0,75	0,55	Extended shaft		28.4	26.9	25.6	23.9	20.7	15.3
PSR0504(.)	1	0,75	Extended shaft		37.9	35.9	34.1	31.9	27.6	20.4
PSR0505(.)	1,5	1,1	Extended shaft		47.5	45.0	42.5	39.9	34.5	25.5
PSR0506(.)	2	1,5	With coupling		57.0	54.0	51.0	48.0	41.5	30.6
PSR0507(.)	2	1,5	With coupling		66.5	63.0	59.5	56.0	48.5	35.7
PSR0508(.)	3	2,2	With coupling		76.0	72.0	68.0	64.0	55.0	41.0
PSR0509(.)	3	2,2	With coupling		85.5	81.0	77.0	72.0	62.0	46.0
PSR0510(.)	3	2,2	With coupling		95.5	90.0	85.5	80.0	69.0	51.0
PSR0511(.)	3	2,2	With coupling		104.0	98.5	94.0	87.5	76.0	56.0
PSR0512(.)	4	3	With coupling		114.0	108.0	102.0	95.5	83.0	61.0
PSR0513(.)	4	3	With coupling		123.0	117.0	111.0	104.0	89.5	66.5
PSR0514(.)	4	3	With coupling		133.0	126.0	119.0	112.0	96.5	71.5
PSR0515(.)	4	3	With coupling		142.0	135.0	128.0	120.0	104.0	76.5
PSR0516(.)	5,5	4	With coupling		151.0	144.0	137.0	128.0	111.5	81.5
PSR0517(.)	5,5	4	With coupling		161.0	153.0	145.0	136.0	117.0	86.5
PSR0519(.)	5,5	4	With coupling		180.0	171.0	162.0	152.0	131.0	97.0
PSR0520(.)	5,5	4	With coupling		190.0	179.0	171.0	160.0	138.0	102.0
PSR0523(.)	7,5	5,5	With coupling		218.0	206.0	196.0	183.0	159.0	117.0
PSR0525(.)	7,5	5,5	With coupling		237.0	224.0	213.0	199.0	173.0	127.0
PSR0527(.)	7,5	5,5	With coupling		256.0	242.0	230.0	215.0	186.0	138.0

PSR

Vertical centrifugal pump

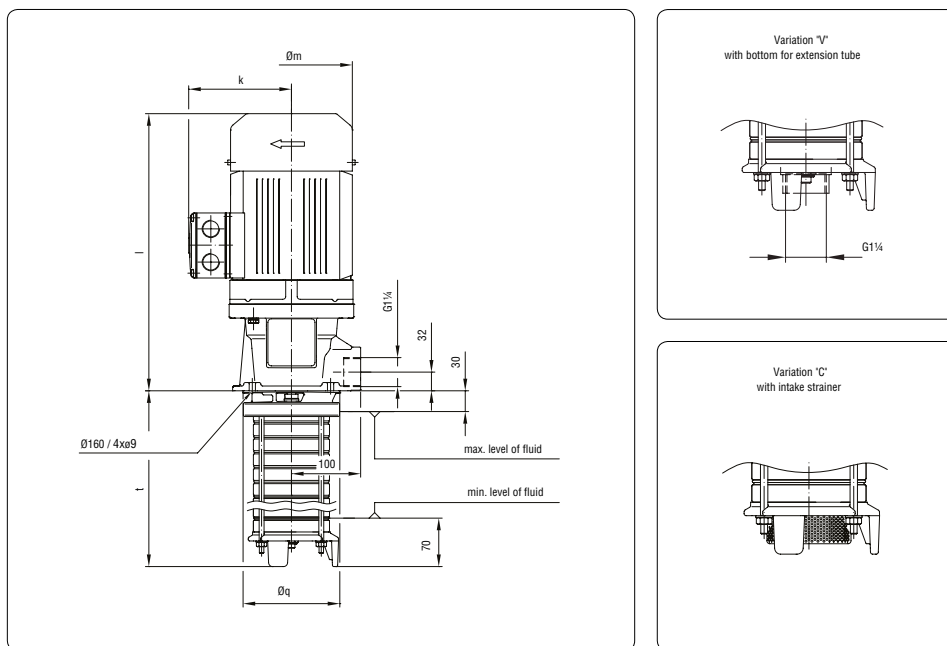
Selection chart PSR10 - PSR15

Model	Motor		Configuration	Q=Capacity											
	HP	kW		l/min	0	75	100	130	150	180	200	250	300	350	400
				m³/h	0	4.5	6.0	7.8	9.0	10.8	12.0	15.0	18.0	21.0	24.0
H=Total manometric head [m]															
PSR1002(.)	1	0,75	Single bearing		21.8	21.2	20.8	19.7	18.7	16.6	14.9	9.8	-	-	-
PSR1003(.)	2	1,5	Single bearing		32.7	31.8	31.2	29.6	28.0	24.9	22.4	14.7	-	-	-
PSR1004(.)	3	2,2	Single bearing		43.6	42.4	41.7	39.5	37.3	33.2	29.8	19.6	-	-	-
PSR1005(.)	3	2,2	Single bearing		54.5	53.0	52.0	49.3	46.7	41.5	37.3	24.6	-	-	-
PSR1006(.)	3	2,2	Single bearing		65.5	63.5	62.5	59.0	56.0	50.0	45.0	29.5	-	-	-
PSR1007(.)	4	3	Single bearing		76.5	74.0	73.0	69.0	65.5	58.0	52.0	34.4	-	-	-
PSR1008(.)	4	3	Single bearing		87.0	84.5	83.5	79.0	74.5	66.5	59.5	39.3	-	-	-
PSR1009(.)	5,5	4	Single bearing		98.0	95.5	93.5	89.0	84.0	74.5	67.0	44.0	-	-	-
PSR1010(.)	5,5	4	Single bearing		109.0	106.0	104.0	98.5	93.5	83.0	74.5	49.0	-	-	-
PSR1011(.)	5,5	4	Single bearing		120.0	116.0	115.0	109.0	103.0	91.5	82.0	54.0	-	-	-
PSR1012(.)	7,5	5,5	Double bearing		131.0	127.0	125.0	118.0	112.0	99.5	89.5	59.0	-	-	-
PSR1013(.)	7,5	5,5	Double bearing		142.0	138.0	135.0	127.0	121.0	107.5	97.0	64.0	-	-	-
PSR1014(.)	7,5	5,5	Double bearing		153.0	148.0	146.0	138.0	131.0	116.0	104.0	68.5	-	-	-
PSR1015(.)	7,5	5,5	Double bearing		163.0	159.0	156.0	148.0	140.0	124.0	112.0	73.5	-	-	-
PSR1016(.)	10	7,5	Double bearing		174.0	169.0	167.0	158.0	149.0	133.0	119.0	78.5	-	-	-
PSR1018(.)	10	7,5	Double bearing		196.0	191.0	187.0	178.0	168.0	149.0	134.0	88.5	-	-	-
PSR1019(.)	10	7,5	Double bearing		207.0	201.0	198.0	188.0	177.0	158.0	142.0	93.5	-	-	-
PSR1021(.)	10	7,5	Double bearing		229.0	222.0	219.0	207.0	196.0	174.0	157.0	103.0	-	-	-
PSR1022(.)	15	11	Double bearing		240.0	233.0	229.0	217.0	205.0	183.0	164.0	108.0	-	-	-
PSR1023(.)	15	11	Double bearing		251.0	244.0	240.0	227.0	215.0	191.0	172.0	113.0	-	-	-
PSR1501(.)	1,5	1,1	Single bearing		14.9	-	-	14.1	13.9	13.5	13.3	12.5	11.5	10.2	8.0
PSR1502(.)	3	2,2	Single bearing		29.5	-	-	27.5	27.1	26.5	26.1	24.9	23.1	20.4	16.8
PSR1503(.)	4	3	Single bearing		44.5	-	-	41.5	40.5	39.7	39.1	37.3	34.7	30.6	25.2
PSR1504(.)	5,5	4	Single bearing		59.0	-	-	55.0	54.5	53.0	52.0	50.0	46.5	41.0	33.6
PSR1505(.)	7,5	5,5	Double bearing		73.5	-	-	69.0	68.0	66.0	65.0	62.0	58.0	51.0	42.0
PSR1506(.)	7,5	5,5	Double bearing		88.5	-	-	82.5	81.5	79.5	78.0	74.5	69.5	61.0	50.5
PSR1507(.)	10	7,5	Double bearing		103.0	-	-	96.5	95.0	92.5	91.0	87.0	81.0	71.5	58.5
PSR1508(.)	10	7,5	Double bearing		118.0	-	-	110.0	109.0	106.0	104.0	99.5	92.5	81.5	67.0
PSR1509(.)	15	11	Double bearing		133.0	-	-	124.0	122.0	119.0	117.0	112.0	104.0	92.0	75.5
PSR1510(.)	15	11	Double bearing		147.0	-	-	138.0	136.0	132.0	130.0	124.0	116.0	102.0	84.0
PSR1511(.)	15	11	Double bearing		162.0	-	-	151.0	149.0	146.0	143.0	137.0	127.0	112.0	92.5
PSR1513(.)	15	11	Double bearing		191.0	-	-	179.0	176.0	172.0	169.0	162.0	150.0	133.0	109.0
PSR1515(.)	20	15	Double bearing		221.0	-	-	206.0	203.0	199.0	195.0	187.0	174.0	153.0	126.0
PSR1517(.)	20	15	Double bearing		250.0	-	-	234.0	231.0	225.0	221.0	211.0	197.0	173.0	143.0

PSR

Vertical centrifugal pump

Dimensions PSR01 - PSR03 - PSR05



Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_n [min ⁻¹]	$\varnothing m$	k	l	$\varnothing q$			
PSR0102	0,37	141	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	13,9	52	G1 ¼
PSR0103	0,37	162	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	14,2	52	G1 ¼
PSR0104	0,37	183	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	14,6	52	G1 ¼
PSR0105	0,37	204	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	14,9	52	G1 ¼
PSR0106	0,37	225	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	15,2	52	G1 ¼
PSR0107	0,37	246	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	15,6	52	G1 ¼
PSR0108	0,37	267	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	15,9	52	G1 ¼
PSR0109	0,55	288	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	16,2	52	G1 ¼
PSR0110	0,55	309	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	16,5	52	G1 ¼
PSR0111	0,55	330	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	16,9	52	G1 ¼
PSR0112	0,55	351	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	17,2	52	G1 ¼
PSR0113	0,75	372	230/400	G	3,0/1,7	2845	141,4	104	251,5	139,8	20,6	52	G1 ¼
PSR0115	0,75	414	230/400	G	3,0/1,7	2845	141,4	104	251,5	139,8	20,6	52	G1 ¼
PSR0117	1,1	456	230/400	H	5,3/3,8	2960	176	128,1	439	139,8	38,0	52	G1 ¼
PSR0119	1,1	498	230/400	H	5,3/3,8	2960	176	128,1	439	139,8	38,5	52	G1 ¼
PSR0121	1,1	540	230/400	H	5,3/3,8	2960	176	128,1	439	139,8	39,5	52	G1 ¼
PSR0122	1,1	561	230/400	H	5,3/3,8	2960	176	128,1	439	139,8	39,5	52	G1 ¼
PSR0124	1,1	603	230/400	H	5,3/3,8	2960	176	128,1	439	139,8	40,5	52	G1 ¼
PSR0126	1,5	645	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	41,0	52	G1 ¼
PSR0127	1,5	666	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	41,5	60	G1 ¼
PSR0128	1,5	687	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	41,5	60	G1 ¼
PSR0131	1,5	750	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	42,5	60	G1 ¼
PSR0133	1,5	792	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	43,5	60	G1 ¼
PSR0134	1,5	813	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	43,5	60	G1 ¼
PSR0137	2,2	876	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	44,5	60	G1 ¼

PSR

Vertical centrifugal pump

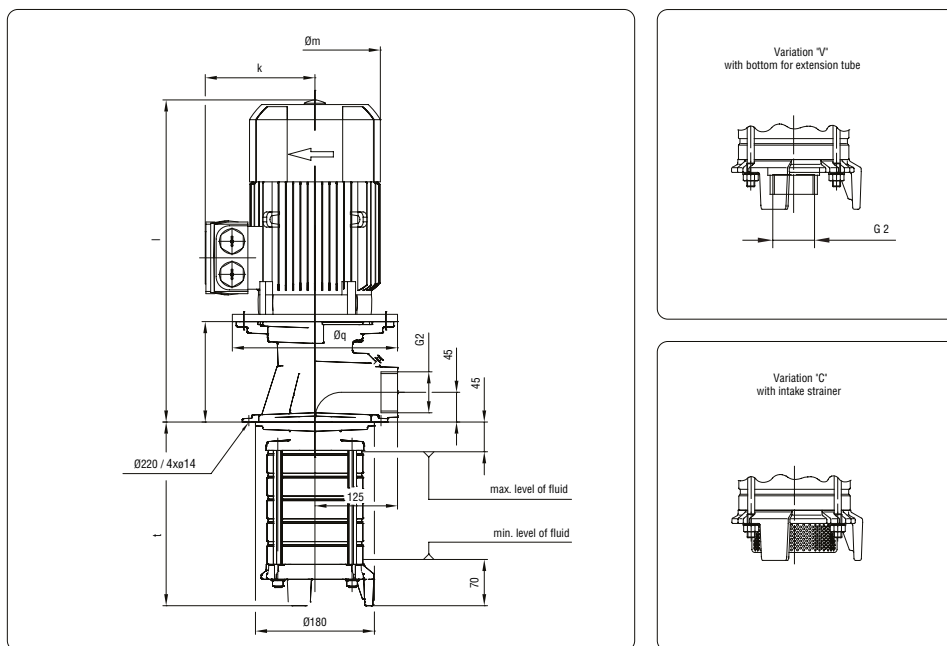
Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l	øq			
PSR0302	0,37	141	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	13,9	52	G1 ¼
PSR0303	0,37	162	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	14,3	52	G1 ¼
PSR0304	0,37	183	230/400	E	2,0/1,2	2885	141,4	104	251,5	139,8	14,6	52	G1 ¼
PSR0305	0,5	204	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	14,9	52	G1 ¼
PSR0306	0,5	225	230/400	F	2,4/1,4	2818	141,4	104	251,5	139,8	15,3	52	G1 ¼
PSR0307	0,75	246	230/400	G	3,0/1,7	2845	141,4	104	251,5	139,8	18,0	52	G1 ¼
PSR0308	0,75	267	230/400	G	3,0/1,7	2845	141,4	104	251,5	139,8	18,3	52	G1 ¼
PSR0309	1,1	288	230/400	H	4,3/2,5	2830	141,4	104	251,5	139,8	20,1	52	G1 ¼
PSR0310	1,1	309	230/400	H	4,3/2,5	2830	141,4	104	251,5	139,8	20,5	52	G1 ¼
PSR0311	1,1	330	230/400	H	4,3/2,5	2830	141,4	104	251,5	139,8	20,8	52	G1 ¼
PSR0312	1,1	351	230/400	H	4,3/2,5	2830	141,4	104	251,5	139,8	21,1	52	G1 ¼
PSR0313	1,5	372	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	37,0	60	G1 ¼
PSR0314	1,5	393	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	37,0	60	G1 ¼
PSR0316	1,5	435	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	38,0	60	G1 ¼
PSR0317	2,2	456	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	38,0	60	G1 ¼
PSR0319	2,2	498	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	39,0	60	G1 ¼
PSR0320	2,2	519	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	39,0	60	G1 ¼
PSR0321	2,2	540	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	39,5	60	G1 ¼
PSR0323	2,2	582	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	40,5	60	G1 ¼
PSR0325	3	624	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	53,5	62	G1 ¼
PSR0327	3	666	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	54,0	62	G1 ¼
PSR0330	3	729	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	54,5	62	G1 ¼
PSR0331	3	750	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	55,5	62	G1 ¼
PSR0333	3	792	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	56,0	62	G1 ¼
PSR0502	0,37	162	230/400	E	2,0/1,2	2885	141,1	104	251,5	139,8	14,1	52	G1 ¼
PSR0503	0,55	190	230/400	F	2,4/1,4	2818	141,1	104	251,5	139,8	14,6	52	G1 ¼
PSR0504	0,75	218	230/400	G	3,0/1,7	2845	141,1	104	251,5	139,8	17,3	52	G1 ¼
PSR0505	1,1	246	230/400	H	4,3/2,5	2830	141,1	104	251,5	139,8	19,2	52	G1 ¼
PSR0506	1,5	274	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	35,0	60	G1 ¼
PSR0507	1,5	302	230/400	J	7,1/4,1	2945	176	128,1	439	139,8	35,5	60	G1 ¼
PSR0508	2,2	330	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	36,0	60	G1 ¼
PSR0509	2,2	358	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	36,0	60	G1 ¼
PSR0510	2,2	386	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	36,5	60	G1 ¼
PSR0511	2,2	414	230/400	K	8,7/5,0	2915	176	128,1	439	139,8	37,0	60	G1 ¼
PSR0512	3	442	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	50,0	62	G1 ¼
PSR0513	3	470	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	50,5	62	G1 ¼
PSR0514	3	498	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	51,0	62	G1 ¼
PSR0515	3	526	230/400	L	13,0/7,5	2945	193	143,1	472	139,8	51,5	62	G1 ¼
PSR0516	4	554	230/400	M	14,0/8,1	2950	220	150	481	139,8	61,5	66	G1 ¼
PSR0517	4	582	230/400	M	14,0/8,1	2950	220	150	481	139,8	61,5	66	G1 ¼
PSR0519	4	638	230/400	M	14,0/8,1	2950	220	150	481	139,8	62,5	66	G1 ¼
PSR0520	4	666	230/400	M	14,0/8,1	2950	220	150	481	139,8	63,0	66	G1 ¼
PSR0523	5,5	750	400/690	N	10,6/6,1	2945	259	178,1	556	139,8	78,0	68	G1 ¼
PSR0525	5,5	806	400/690	N	10,6/6,1	2945	259	178,1	556	139,8	79,0	68	G1 ¼
PSR0527	5,5	862	400/690	N	10,6/6,1	2945	259	178,1	556	139,8	80,0	68	G1 ¼

PSR

Vertical centrifugal pump

Dimensions PSR10 - PSR15



Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	$\varnothing m$	k	l	$\varnothing q$			
PSR1002	0,75	196	230/400	G	2,9/1,7	2910	160	128	364	200	29,5	52	G2
PSR1003	1,5	226	230/400	J	5,2/3,0	2900	180	148	409	200	35,0	60	G2
PSR1004	2,2	256	230/400	K	8,0/4,6	2900	180	148	409	200	37,5	60	G2
PSR1005	2,2	286	230/400	K	8,0/4,6	2900	180	148	409	200	38,5	60	G2
PSR1006	2,2	316	230/400	K	8,0/4,6	2900	180	148	409	200	39,0	60	G2
PSR1007	3	346	230/400	L	9,7/5,6	2900	196	144	458	250	47,5	62	G2
PSR1008	3	376	230/400	L	9,7/5,6	2900	196	144	458	250	48,0	62	G2
PSR1009	4	406	230/400	M	12,1/7,0	2910	220	160	480	250	53,5	66	G2
PSR1010	4	436	230/400	M	12,1/7,0	2910	220	160	480	250	54,5	66	G2
PSR1011	4	466	230/400	M	12,1/7,0	2910	220	160	480	250	55,0	66	G2
PSR1012	5,5	496	400/690	N	10,4/6,0	2925	220	152	600	300	73,5	68	G2
PSR1013	5,5	525	400/690	N	10,4/6,0	2925	220	152	600	300	74,0	68	G2
PSR1014	5,5	556	400/690	N	10,4/6,0	2925	220	152	600	300	75,0	68	G2
PSR1015	5,5	586	400/690	N	10,4/6,0	2925	220	152	600	300	75,5	68	G2
PSR1016	7,5	616	400/690	O	13,6/7,9	2910	220	152	620	300	83,5	68	G2
PSR1018	7,5	676	400/690	O	13,6/7,9	2910	220	152	620	300	85,0	68	G2
PSR1019	7,5	706	400/690	O	13,6/7,9	2910	220	152	620	300	86,0	68	G2
PSR1021	7,5	766	400/690	O	13,6/7,9	2910	220	152	620	300	87,5	68	G2
PSR1022	11	796	400/690	P	21,3/12,3	2930	259	178	671	350	108,5	73	G2
PSR1023	11	826	400/690	P	21,3/12,3	2930	259	178	671	350	109,5	73	G2

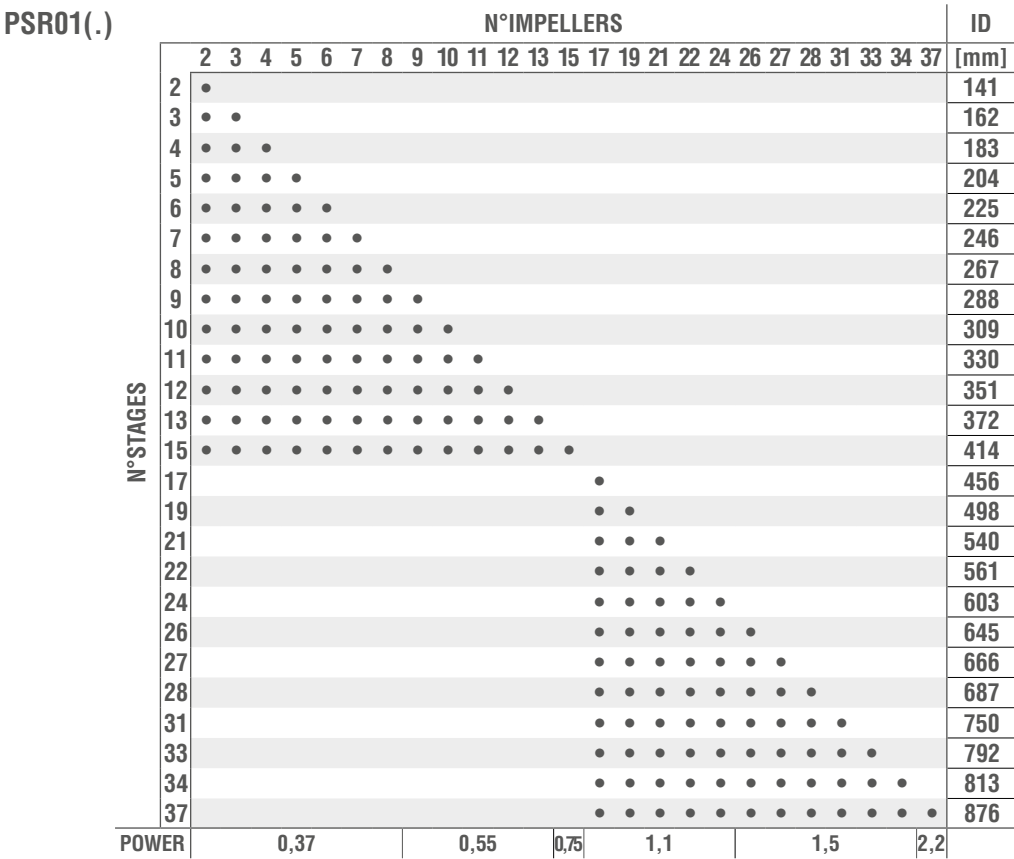
PSR

Vertical centrifugal pump

Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l	øq			
PSR1501	1,1	226	230/400	H	4,2/2,4	2900	160	128	364	200	30,5	52	G2
PSR1502	2,2	226	230/400	K	8,0/4,6	2900	180	148	409	200	36,5	60	G2
PSR1503	3	266	230/400	L	9,7/5,6	2900	196	144	458	250	45,0	62	G2
PSR1504	4	306	230/400	M	12,1/7,0	2910	220	160	480	250	50,5	66	G2
PSR1505	5,5	346	400/690	N	10,4/6,0	2925	220	152	600	300	69,0	68	G2
PSR1506	5,5	386	400/690	N	10,4/6,0	2925	220	152	600	300	70,0	68	G2
PSR1507	7,5	426	400/690	O	13,6/7,9	2910	220	152	620	300	78,0	68	G2
PSR1508	7,5	466	400/690	O	13,6/7,9	2910	220	152	620	300	79,0	68	G2
PSR1509	11	506	400/690	P	21,3/12,3	2930	259	178	673	350	100,5	73	G2
PSR1510	11	546	400/690	P	21,3/12,3	2930	259	178	673	350	101,5	73	G2
PSR1511	11	586	400/690	P	21,3/12,3	2930	259	178	673	350	103,0	73	G2
PSR1513	11	666	400/690	P	21,3/12,3	2930	259	178	673	350	105,0	73	G2
PSR1515	15	746	400/690	Q	26,2/15,2	2935	310,8	240	728	350	145,5	72	G2
PSR1517	15	826	400/690	Q	26,2/15,2	2935	310,8	240	728	350	148,0	72	G2

Empty stages availability



PSR

Vertical centrifugal pump

Empty stages availability

PSR03(.)		N°IMPELLERS																															ID
		2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	19	20	21	23	25	27	30	31	33	[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						
	14												•	•													393						
	16												•	•	•												435						
	17												•	•	•	•											456						
	19												•	•	•	•	•										498						
	20												•	•	•	•	•	•	•								519						
	21												•	•	•	•	•	•	•	•							540						
	23												•	•	•	•	•	•	•	•	•						582						
	25												•	•	•	•	•	•	•	•	•	•					624						
	27												•	•	•	•	•	•	•	•	•	•	•				666						
	30												•	•	•	•	•	•	•	•	•	•	•	•			729						
	31												•	•	•	•	•	•	•	•	•	•	•	•	•		750						
	33												•	•	•	•	•	•	•	•	•	•	•	•	•	•	792						
POWER		0,37		0,55		0,75		1,1		1,5		2,2		3																			

PSR05(.)		N°IMPELLERS																											ID
		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											



PSR

Vertical centrifugal pump

Empty stages availability

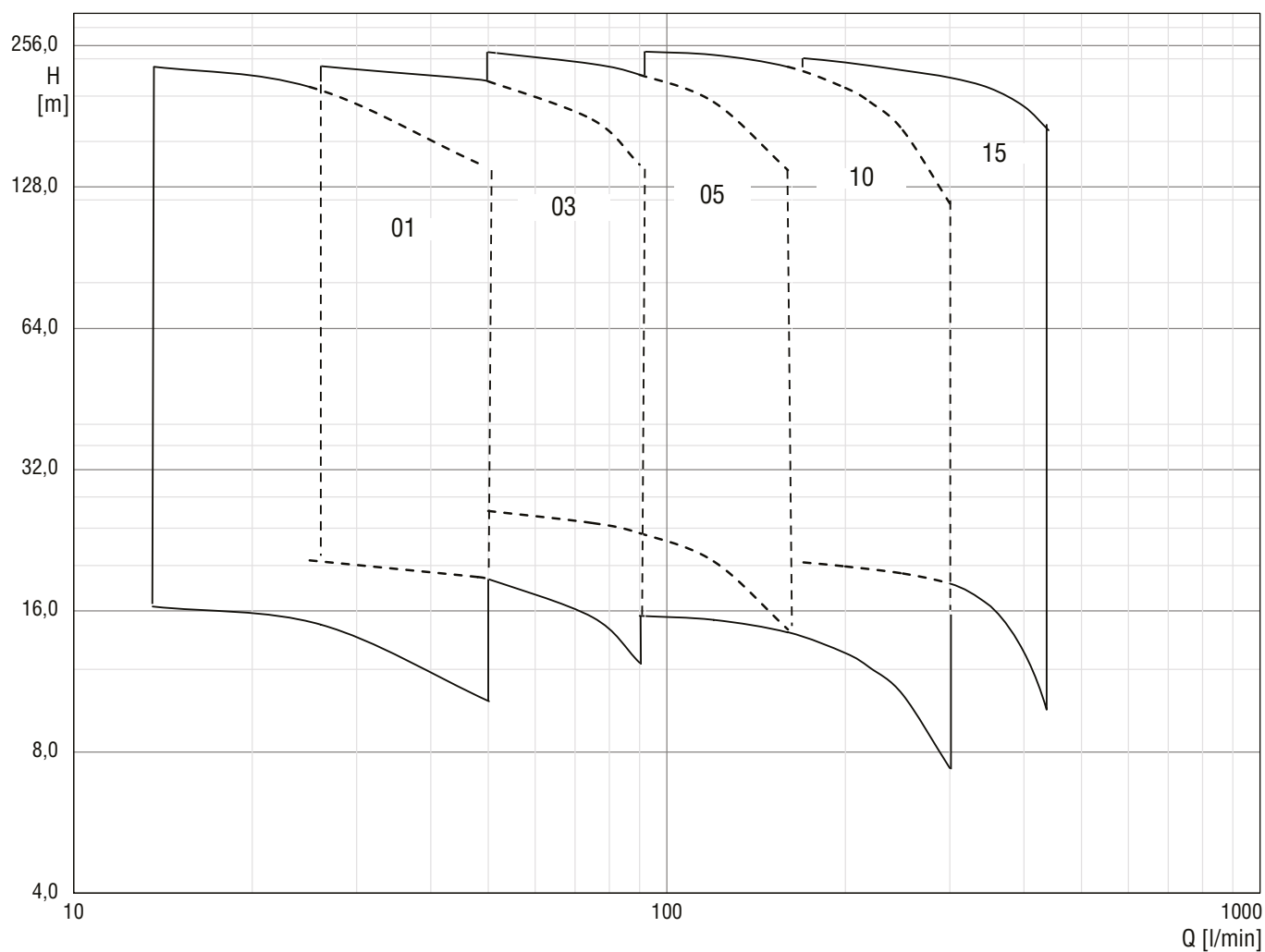
PSR10(.)		N°IMPELLERS																				ID
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	21	22	23	[mm]
N°STAGES	2	•																				196
	3	•	•																			226
	4	•	•	•																		256
	5	•	•	•	•																	286
	6	•	•	•	•	•																316
	7	•	•	•	•	•	•															346
	8	•	•	•	•	•	•	•														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													

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

PSR

Vertical centrifugal pump

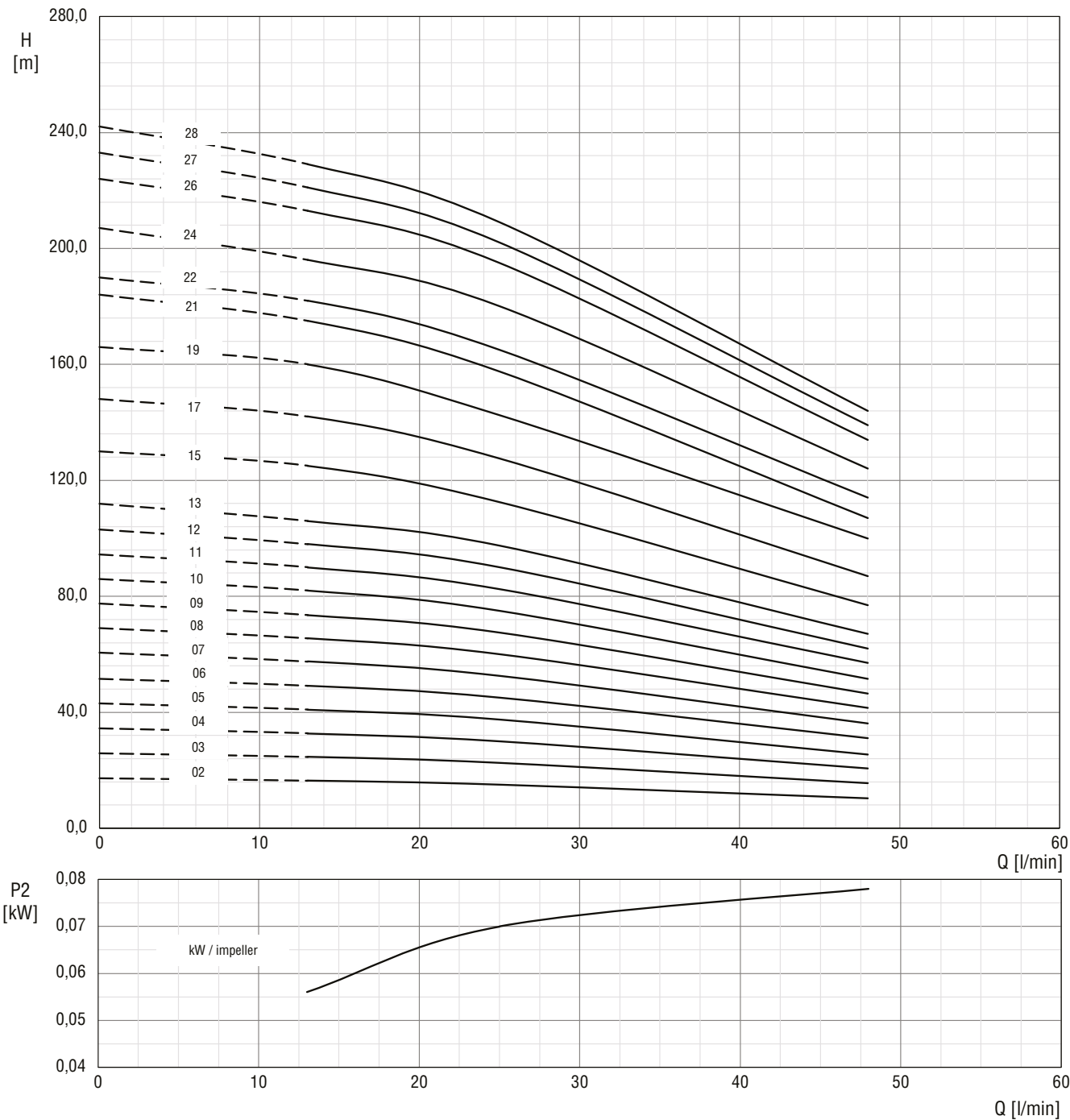
Performance range PSR(.)



PSR

Vertical centrifugal pump

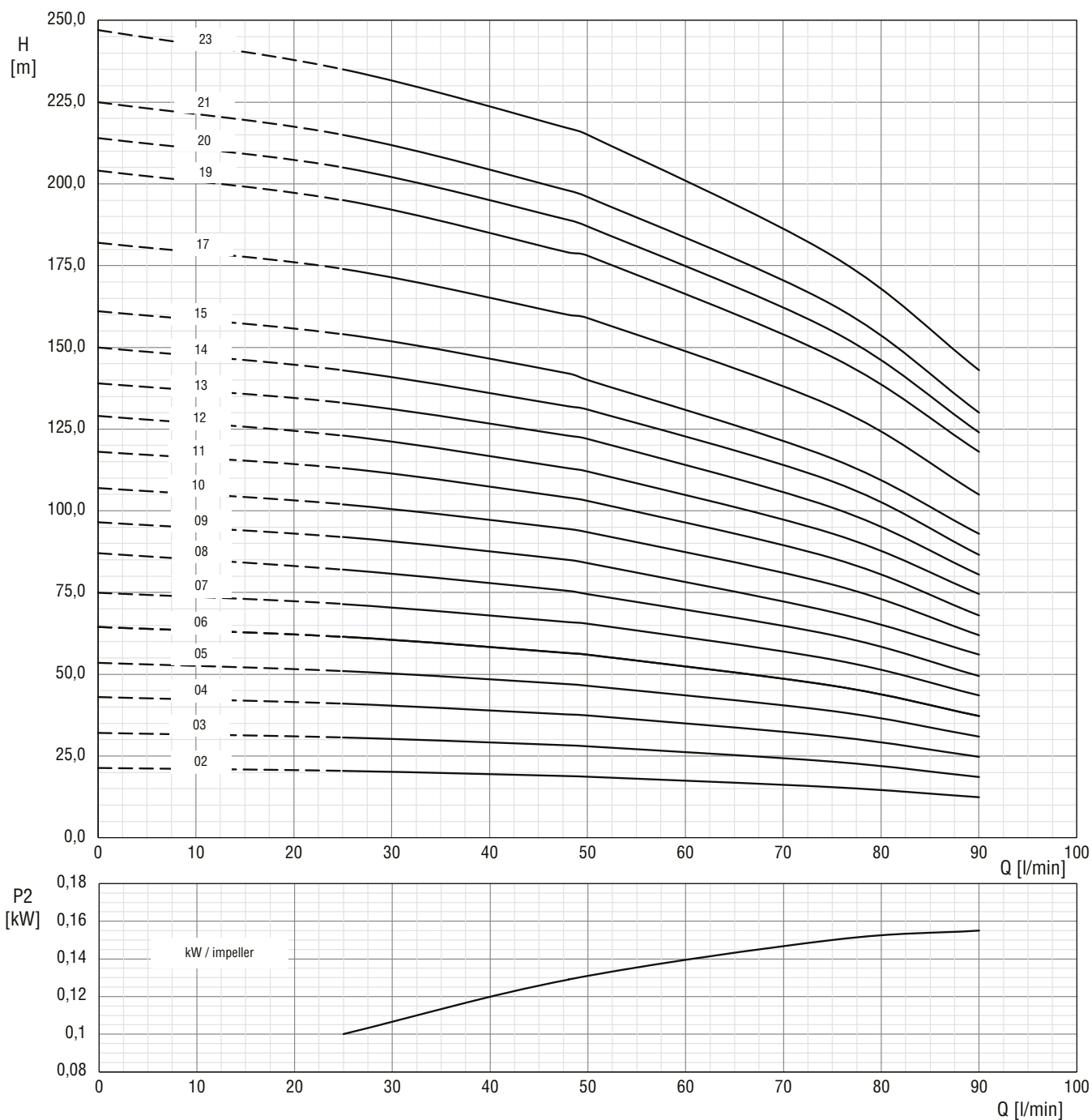
Performance curves PSR01



PSR

Vertical centrifugal pump

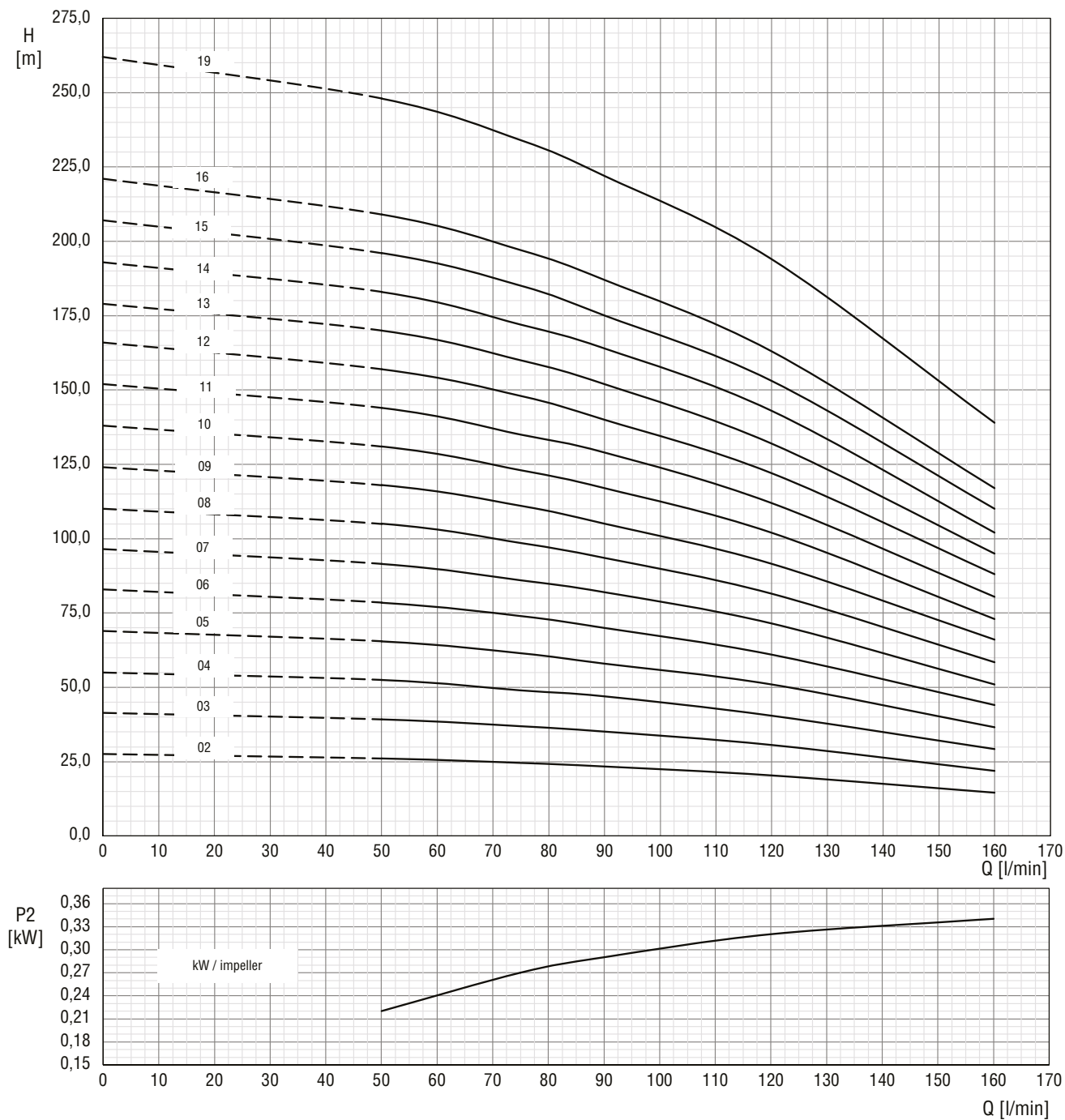
Performance curves PSR03



PSR

Vertical centrifugal pump

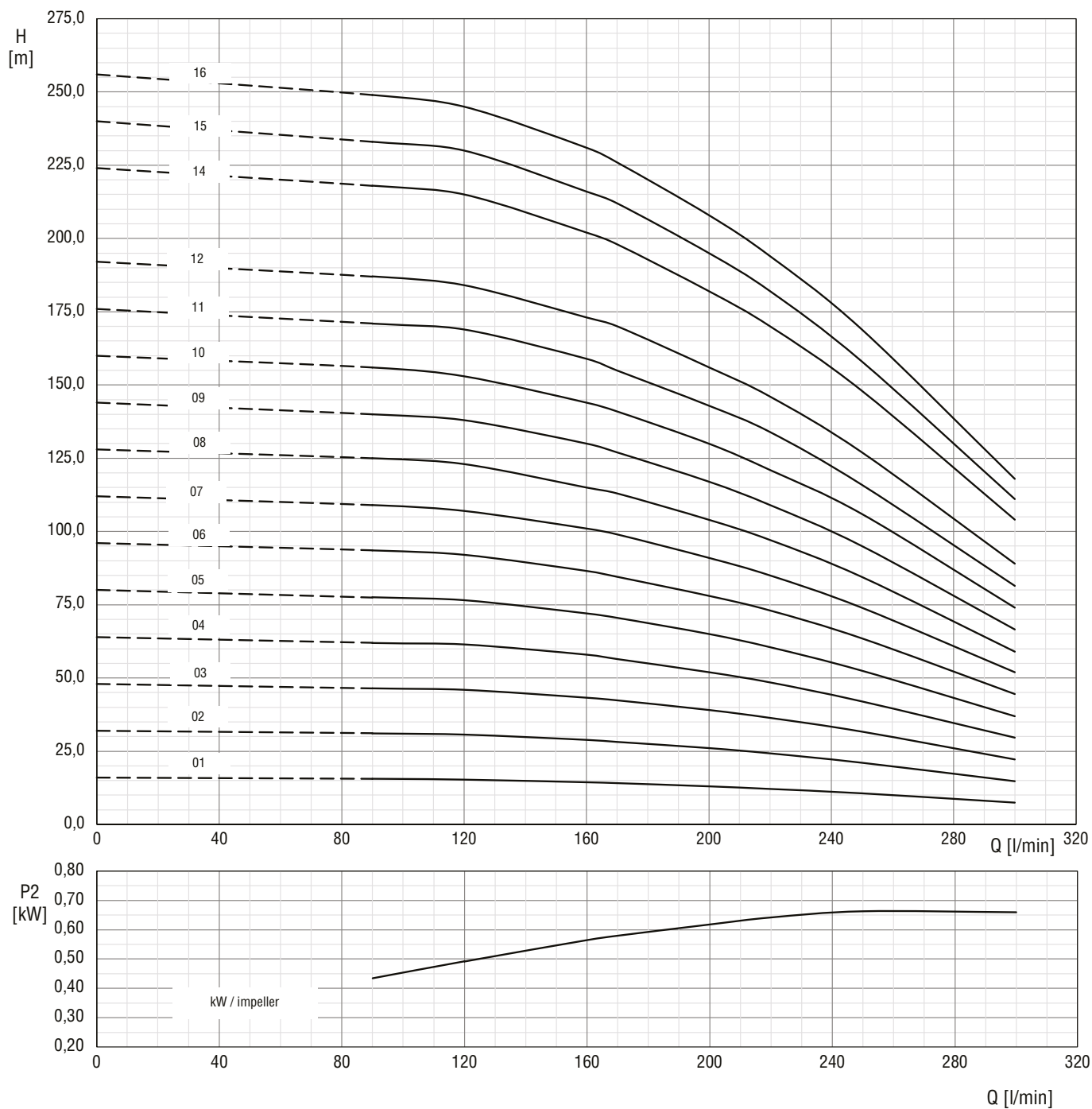
Performance curves PSR05



PSR

Vertical centrifugal pump

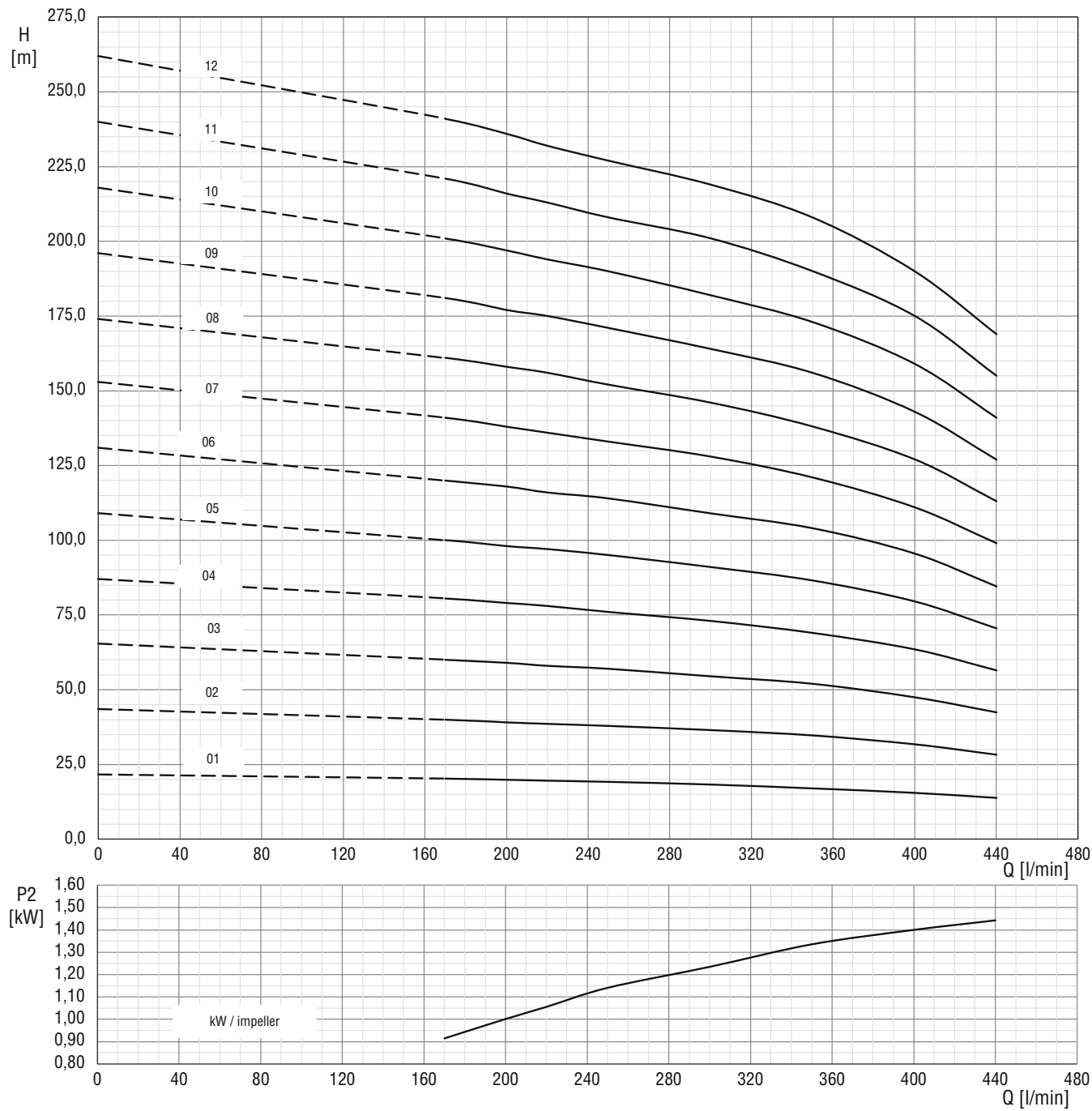
Performance curves PSR10



PSR

Vertical centrifugal pump

Performance curves PSR15



PSR

Vertical centrifugal pump

Selection chart PSR01 - PSR03

Model	Motor		Configuration	Q=Capacity							
	HP	kW		l/min	0	13	25	48	50	75	90
				m³/h	0	0.8	1.5	2.9	3.0	4.5	5.4
				H=Total manometric head [m]							
PSR0102(.)	0,5	0,37	Extended shaft		17.2	16.4	15.0	10.3	-	-	-
PSR0103(.)	0,5	0,37	Extended shaft		25.8	24.6	22.5	15.5	-	-	-
PSR0104(.)	0,5	0,37	Extended shaft		34.5	32.7	30.0	20.6	-	-	-
PSR0105(.)	0,5	0,37	Extended shaft		43.1	40.9	37.5	25.4	-	-	-
PSR0106(.)	0,75	0,55	Extended shaft		51.5	49.1	45.0	31.0	-	-	-
PSR0107(.)	0,75	0,55	Extended shaft		60.5	57.5	52.5	36.1	-	-	-
PSR0108(.)	1	0,75	Extended shaft		69.0	65.5	60.0	41.5	-	-	-
PSR0109(.)	1	0,75	Extended shaft		77.5	73.5	67.5	46.5	-	-	-
PSR0110(.)	1	0,75	Extended shaft		86.0	82.0	75.0	51.5	-	-	-
PSR0111(.)	1,5	1,1	With coupling		94.5	90.0	82.5	57.0	-	-	-
PSR0112(.)	1,5	1,1	With coupling		103.0	98.0	90.0	62.0	-	-	-
PSR0113(.)	1,5	1,1	With coupling		112.0	106.0	97.5	67.0	-	-	-
PSR0115(.)	2	1,5	With coupling		130.0	125.0	112.5	77.0	-	-	-
PSR0117(.)	2	1,5	With coupling		148.0	142.0	127.5	87.0	-	-	-
PSR0119(.)	2	1,5	With coupling		166.0	160.0	142.5	100.0	-	-	-
PSR0121(.)	3	2,2	With coupling		184.0	175.0	157.5	107.0	-	-	-
PSR0122(.)	3	2,2	With coupling		190.0	182.0	165.0	114.0	-	-	-
PSR0124(.)	3	2,2	With coupling		207.0	196.0	180.0	124.0	-	-	-
PSR0126(.)	3	2,2	With coupling		224.0	213.0	195.0	134.0	-	-	-
PSR0127(.)	3	2,2	With coupling		233.0	221.0	202.0	139.0	-	-	-
PSR0128(.)	3	2,2	With coupling		242.0	229.0	209.0	144.0	-	-	-
PSR0302(.)	0,5	0,37	Extended shaft		21.4	-	20.5	18.9	18.7	15.5	12.4
PSR0303(.)	0,75	0,55	Extended shaft		32.1	-	30.7	28.3	28.0	23.3	18.6
PSR0304(.)	1	0,75	Extended shaft		43.0	-	41.0	37.7	37.4	31.0	24.8
PSR0305(.)	1	0,75	Extended shaft		53.5	-	51.0	47.0	46.5	38.8	31.0
PSR0306(.)	1,5	1,1	Extended shaft		64.5	-	61.5	56.5	56.0	46.5	37.2
PSR0307(.)	1,5	1,1	Extended shaft		75.0	-	71.5	66.0	65.5	54.5	43.5
PSR0308(.)	2	1,5	Extended shaft		87.0	-	82.0	75.5	74.5	62.0	49.5
PSR0309(.)	2	1,5	Extended shaft		96.5	-	92.0	85.0	84.0	69.0	56.0
PSR0310(.)	2	1,5	Extended shaft		107.0	-	102.0	94.5	93.5	77.5	62.0
PSR0311(.)	3	2,2	Extended shaft		118.0	-	113.0	104.0	103.0	85.5	68.0
PSR0312(.)	3	2,2	Extended shaft		129.0	-	123.0	113.0	112.0	93.0	74.5
PSR0313(.)	3	2,2	With coupling		139.0	-	133.0	123.0	122.0	101.0	80.5
PSR0314(.)	3	2,2	With coupling		150.0	-	143.0	132.0	131.0	109.0	86.5
PSR0315(.)	4	3	With coupling		161.0	-	154.0	142.0	140.0	116.0	93.0
PSR0317(.)	4	3	With coupling		182.0	-	174.0	160.0	159.0	132.0	105.0
PSR0319(.)	4	3	With coupling		204.0	-	195.0	179.0	178.0	147.0	118.0
PSR0320(.)	4	3	With coupling		214.0	-	205.0	189.0	187.0	155.0	124.0
PSR0321(.)	5,5	4	With coupling		225.0	-	215.0	198.0	196.0	163.0	130.0
PSR0323(.)	5,5	4	With coupling		247.0	-	235.0	217.0	215.0	178.0	143.0

PSR

Vertical centrifugal pump

Selection chart PSR05

Model	Motor		Configuration	Q=Capacity						
	HP	kW		l/min	0	50	75	90	120	160
				m³/h	0	3.0	4.5	5.4	7.2	9.6
H=Total manometric head [m]										
PSR0502(.)	1	0,75	Extended shaft		27.6	26.1	24.6	23.4	20.4	14.6
PSR0503(.)	1,5	1,1	Extended shaft		41.4	39.2	36.9	35.1	30.6	21.9
PSR0504(.)	2	1,5	With coupling		55.0	52.5	49.0	47.0	40.5	29.3
PSR0505(.)	3	2,2	With coupling		69.0	65.5	61.5	58.0	51.0	36.6
PSR0506(.)	3	2,2	With coupling		83.0	78.5	74.0	70.0	61.0	44.0
PSR0507(.)	4	3	With coupling		96.5	91.5	86.0	82.0	71.5	51.0
PSR0508(.)	4	3	With coupling		110.0	105.0	98.5	93.5	81.5	58.5
PSR0509(.)	4	3	With coupling		124.0	118.0	111.0	105.0	91.5	66.0
PSR0510(.)	5,5	4	With coupling		138.0	131.0	123.0	117.0	102.0	73.0
PSR0511(.)	5,5	4	With coupling		152.0	144.0	135.0	129.0	112.0	80.5
PSR0512(.)	5,5	4	With coupling		166.0	157.0	148.0	140.0	122.0	88.0
PSR0513(.)	7,5	5,5	With coupling		179.0	170.0	160.0	152.0	132.0	95.0
PSR0514(.)	7,5	5,5	With coupling		193.0	183.0	172.0	164.0	143.0	102.0
PSR0515(.)	7,5	5,5	With coupling		207.0	196.0	185.0	175.0	153.0	110.0
PSR0516(.)	7,5	5,5	With coupling		221.0	209.0	197.0	187.0	163.0	117.0
PSR0519(.)	10	7,5	With coupling		262.0	248.0	234.0	222.0	194.0	139.0

PSR

Vertical centrifugal pump

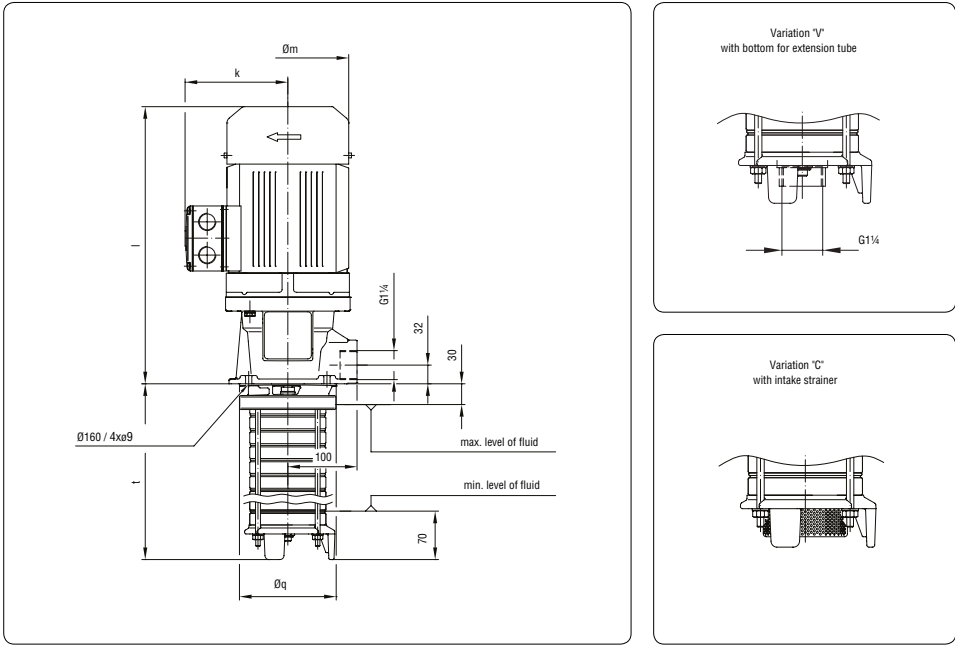
Selection chart PSR10 - PSR15

Model	Motor		Configuration	Q=Capacity													
	HP	kW		l/min	0	90	120	160	170	200	220	250	300	350	400	440	
				m³/h	0	5.4	7.2	9.6	10.2	12.0	13.2	15.0	18.0	21.0	24.0	26.4	
H=Total manometric head [m]																	
PSR1001(.)	1	0,75	Single bearing		16.0	15.6	15.3	14.4	14.1	13.0	12.1	10.6	7.4	-	-	-	
PSR1002(.)	2	1,5	Single bearing		32.0	31.1	30.7	28.9	28.2	26.1	24.3	21.1	14.8	-	-	-	
PSR1003(.)	3	2,2	Single bearing		48.0	46.5	46.0	43.3	42.4	39.1	36.4	31.7	22.2	-	-	-	
PSR1004(.)	4	3	Single bearing		64.0	62.0	61.5	58.0	56.5	52.0	48.5	42.0	29.6	-	-	-	
PSR1005(.)	5,5	4	Single bearing		80.0	77.5	76.5	72.0	70.5	65.0	60.5	52.5	37.0	-	-	-	
PSR1006(.)	5,5	4	Single bearing		96.0	93.5	92.0	86.5	84.5	78.0	73.0	63.5	44.5	-	-	-	
PSR1007(.)	7,5	5,5	Double bearing		112.0	109.0	107.0	101.0	99.0	91.0	85.0	74.0	52.0	-	-	-	
PSR1008(.)	7,5	5,5	Double bearing		128.0	125.0	123.0	115.0	113.0	104.0	97.1	84.5	59.0	-	-	-	
PSR1009(.)	7,5	5,5	Double bearing		144.0	140.0	138.0	130.0	127.0	117.0	109.0	95.0	66.5	-	-	-	
PSR1010(.)	10	7,5	Double bearing		160.0	156.0	153.0	144.0	141.0	130.0	121.0	106.0	74.0	-	-	-	
PSR1011(.)	10	7,5	Double bearing		176.0	171.0	169.0	159.0	155.0	143.0	134.0	116.0	81.5	-	-	-	
PSR1012(.)	10	7,5	Double bearing		192.0	187.0	184.0	173.0	170.0	156.0	146.0	127.0	89.0	-	-	-	
PSR1014(.)	15	11	Double bearing		224.0	218.0	215.0	202.0	198.0	182.0	170.0	148.0	104.0	-	-	-	
PSR1015(.)	15	11	Double bearing		240.0	233.0	230.0	216.0	219.0	195.0	182.0	158.0	111.0	-	-	-	
PSR1016(.)	15	11	Double bearing		256.0	249.0	245.0	231.0	226.0	208.0	194.0	169.0	118.0	-	-	-	
PSR1501(.)	2	1,5	Single bearing		21.7	-	-	-	20.3	19.9	19.6	19.2	18.3	17.0	15.5	13.8	
PSR1502(.)	4	3	Single bearing		43.6	-	-	-	40.0	39.1	38.6	37.9	36.5	34.7	31.7	28.2	
PSR1503(.)	7,5	5,5	Double bearing		65.4	-	-	-	60.0	58.5	58.0	57.0	54.5	52.0	47.5	42.5	
PSR1504(.)	10	7,5	Double bearing		87.0	-	-	-	80.5	78.5	78.0	76.0	73.0	69.0	63.5	56.5	
PSR1505(.)	10	7,5	Double bearing		109.0	-	-	-	100.0	98.0	96.5	95.0	91.0	86.5	79.5	70.5	
PSR1506(.)	15	11	Double bearing		131.0	-	-	-	120.0	117.0	116.0	114.0	109.0	104.0	95.5	84.5	
PSR1507(.)	15	11	Double bearing		153.0	-	-	-	141.0	137.0	135.0	133.0	128.0	121.0	111.0	99	
PSR1508(.)	20	15	Double bearing		174.0	-	-	-	161.0	157.0	154.0	152.0	146.0	138.0	127.0	113	
PSR1509(.)	20	15	Double bearing		196.0	-	-	-	181.0	176.0	174.0	171.0	164.0	156.0	143.0	127	
PSR1510(.)	20	15	Double bearing		218.0	-	-	-	201.0	196.0	193.0	190.0	182.0	173.0	159.0	141	
PSR1511(.)	25	18,5	Double bearing		240.0	-	-	-	221.0	215.0	212.0	208.0	201.0	190.0	175.0	155	
PSR1512(.)	25	18,5	Double bearing		262.0	-	-	-	241.0	235.0	232.0	227.0	219.0	208.0	190.0	169	

PSR

Vertical centrifugal pump

Dimensions PSR01 - PSR03 - PSR05



Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	$\varnothing m$	k	l	$\varnothing q$			
PSR0102	0,37	141	265/460	E	1,7/1,0	3485	141,4	104	251,5	139,8	13,9	57	G1 ¼
PSR0103	0,37	162	265/460	E	1,7/1,0	3485	141,4	104	251,5	139,8	14,2	57	G1 ¼
PSR0104	0,37	183	265/460	E	1,7/1,0	3485	141,4	104	251,5	139,8	14,6	57	G1 ¼
PSR0105	0,37	204	265/460	E	1,7/1,0	3485	141,4	104	251,5	139,8	14,9	57	G1 ¼
PSR0106	0,55	225	265/460	F	2,1/1,2	3430	141,4	104	251,5	139,8	15,2	57	G1 ¼
PSR0107	0,55	246	265/460	F	2,1/1,2	3430	141,4	104	251,5	139,8	15,6	57	G1 ¼
PSR0108	0,75	267	265/460	G	2,6/1,5	3460	141,4	104	251,5	139,8	18,2	57	G1 ¼
PSR0109	0,75	288	265/460	G	2,6/1,5	3460	141,4	104	251,5	139,8	18,6	57	G1 ¼
PSR0110	0,75	309	265/460	G	2,6/1,5	3460	141,4	104	251,5	139,8	18,9	57	G1 ¼
PSR0111	1,1	330	265/460	H	3,8/2,2	3455	141,4	104	251,5	139,8	20,7	57	G1 ¼
PSR0112	1,1	351	265/460	H	3,8/2,2	3455	141,4	104	251,5	139,8	21,0	57	G1 ¼
PSR0113	1,1	372	265/460	H	3,8/2,2	3455	141,4	104	251,5	139,8	21,4	57	G1 ¼
PSR0115	1,5	414	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	37,5	65	G1 ¼
PSR0117	1,5	456	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	38,0	65	G1 ¼
PSR0119	1,5	498	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	38,5	65	G1 ¼
PSR0121	2,2	540	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	39,5	65	G1 ¼
PSR0122	2,2	561	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	39,5	65	G1 ¼
PSR0124	2,2	603	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	40,5	65	G1 ¼
PSR0126	2,2	645	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	41,0	65	G1 ¼
PSR0127	2,2	666	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	41,5	65	G1 ¼
PSR0128	2,2	687	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	41,5	65	G1 ¼

PSR

Vertical centrifugal pump

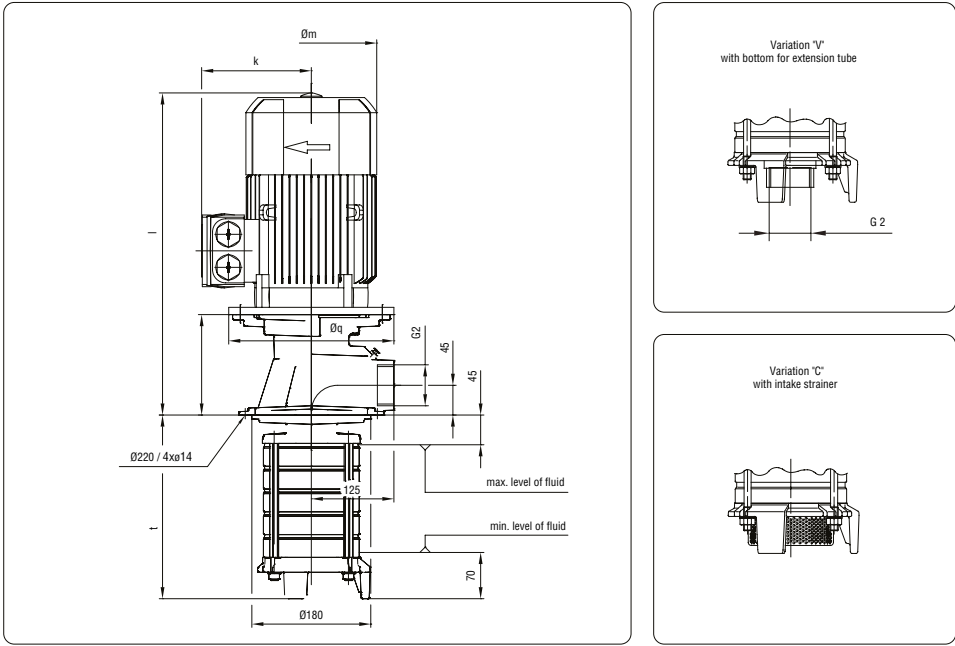
Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	øm	k	l	øq			
PSR0302	0,37	141	265/460	E	1,7/1,0	3485	141,1	104	251,5	139,8	13,9	57	G1 ¼
PSR0303	0,55	162	265/460	F	2,1/1,2	3430	141,1	104	251,5	139,8	14,3	57	G1 ¼
PSR0304	0,75	183	265/460	G	2,6/1,5	3460	141,1	104	251,5	139,8	16,9	57	G1 ¼
PSR0305	0,75	204	265/460	G	2,6/1,5	3460	141,1	104	251,5	139,8	17,3	57	G1 ¼
PSR0306	1,1	225	265/460	H	3,8/2,2	3455	141,1	104	251,5	139,8	19,1	57	G1 ¼
PSR0307	1,1	246	265/460	H	3,8/2,2	3455	141,1	104	251,5	139,8	19,4	57	G1 ¼
PSR0308	1,5	267	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	35,0	65	G1 ¼
PSR0309	1,5	288	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	35,5	65	G1 ¼
PSR0310	1,5	309	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	35,5	65	G1 ¼
PSR0311	2,2	330	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	36,0	65	G1 ¼
PSR0312	2,2	351	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	36,5	65	G1 ¼
PSR0313	2,2	372	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	37,0	65	G1 ¼
PSR0314	2,2	393	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	37,0	65	G1 ¼
PSR0315	3	414	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	50,0	67	G1 ¼
PSR0317	3	456	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	50,5	67	G1 ¼
PSR0319	3	498	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	51,5	67	G1 ¼
PSR0320	3	519	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	51,5	67	G1 ¼
PSR0321	4	540	265/460	M	12,5/7,2	3555	220	150,1	481	139,8	61,5	71	G1 ¼
PSR0323	4	582	265/460	M	12,5/7,2	3555	220	150,1	481	139,8	62,5	71	G1 ¼
PSR0502	0,75	162	265/460	G	2,6/1,5	3460	141,4	104	251,5	139,8	16,5	57	G1 ¼
PSR0503	1,1	190	265/460	H	3,8/2,2	3455	141,4	104	251,5	139,8	18,4	57	G1 ¼
PSR0504	1,5	218	265/460	J	6,1/3,5	3555	176	128,1	439	139,8	34,0	65	G1 ¼
PSR0505	2,2	246	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	34,5	65	G1 ¼
PSR0506	2,2	274	265/460	K	7,8/4,5	3515	176	128,1	439	139,8	35,0	65	G1 ¼
PSR0507	3	302	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	48,0	67	G1 ¼
PSR0508	3	330	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	48,0	67	G1 ¼
PSR0509	3	358	265/460	L	11,3/6,5	3550	193	143,1	472	139,8	48,5	67	G1 ¼
PSR0510	4	386	265/460	M	12,5/7,2	3555	220	150,1	481	139,8	58,5	71	G1 ¼
PSR0511	4	414	265/460	M	12,5/7,2	3555	220	150,1	481	139,8	59,0	71	G1 ¼
PSR0512	4	442	265/460	M	12,5/7,2	3555	220	150,1	481	139,8	59,5	71	G1 ¼
PSR0513	5,5	470	Δ 460	N	9,2	3550	259	178,1	556	139,8	73,5	73	G1 ¼
PSR0514	5,5	498	Δ 460	N	9,2	3550	259	178,1	556	139,8	74,0	73	G1 ¼
PSR0515	5,5	526	Δ 460	N	9,2	3550	259	178,1	556	139,8	74,5	73	G1 ¼
PSR0516	5,5	554	Δ 460	N	9,2	3550	259	178,1	556	139,8	75,0	73	G1 ¼
PSR0519	7,5	638	Δ 460	O	12,4	3555	259	178,1	556	139,8	83,0	73	G1 ¼

PSR

Vertical centrifugal pump

Dimensions PSR10 - PSR15



Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y [V]	Motor index	Current I_N [A]	Speed n_N [min ⁻¹]	$\varnothing m$	k	l	$\varnothing q$			
PSR1001	0,75	196	265/460	G	2,6/1,5	3520	160	128	364	200	28,5	57	G2
PSR1002	1,5	196	265/460	J	4,7/2,7	3490	180	148	364	200	34,0	65	G2
PSR1003	2,2	226	265/460	K	6,8/3,9	3500	180	148	409	200	37,0	65	G2
PSR1004	3	256	265/460	L	8,3/4,8	3505	196	144	480	250	45,0	67	G2
PSR1005	4	286	265/460	M	12,5/7,2	3520	225	160	480	250	50,5	71	G2
PSR1006	4	316	265/460	M	12,5/7,2	3520	225	160	480	250	51,0	71	G2
PSR1007	5,5	346	Δ 460	N	8,9	3530	220	152	600	300	69,0	73	G2
PSR1008	5,5	376	Δ 460	N	8,9	3530	220	152	600	300	70,0	73	G2
PSR1009	5,5	406	Δ 460	N	8,9	3530	220	152	600	300	71,0	73	G2
PSR1010	7,5	436	Δ 460	O	11,9	3515	220	152	620	300	78,5	73	G2
PSR1011	7,5	466	Δ 460	O	11,9	3515	220	152	620	300	79,5	73	G2
PSR1012	7,5	496	Δ 460	O	11,9	3515	220	152	620	300	80,0	73	G2
PSR1014	11	556	Δ 460	P	18,5	3535	259	178	673	350	102,0	78	G2
PSR1015	11	586	Δ 460	P	18,5	3535	259	178	673	350	103,0	78	G2
PSR1016	11	616	Δ 460	P	18,5	3535	259	178	673	350	104,0	78	G2

PSR

Vertical centrifugal pump

Dimensional table PSR

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	ϕm	k	l	ϕq			
PSR1501	1,5	226	265/460	J	4,7/2,7	3490	180	148	409	200	34,0	65	G2
PSR1502	3	226	265/460	L	8,3/4,8	3505	196	144	458	250	44,0	67	G2
PSR1503	5,5	266	Δ 460	N	8,9	3530	220	152	600	300	67,0	73	G2
PSR1504	7,5	306	Δ 460	O	11,9	3515	220	152	620	300	75,0	73	G2
PSR1505	7,5	346	Δ 460	O	11,9	3515	220	152	620	300	76,0	73	G2
PSR1506	11	386	Δ 460	P	18,5	3535	259	178	673	350	97,5	78	G2
PSR1507	11	426	Δ 460	P	18,5	3535	259	178	673	350	98,5	78	G2
PSR1508	15	466	Δ 460	Q	23,2	3545	310,8	240	728	350	138	75	G2
PSR1509	15	506	Δ 460	Q	23,2	3545	310,8	240	728	350	139	75	G2
PSR1510	15	546	Δ 460	Q	23,2	3545	310,8	240	728	350	140,5	75	G2
PSR1511	18,5	586	Δ 460	R	28,7	3555	310,8	240	728	350	149,5	75	G2
PSR1512	18,5	626	Δ 460	R	28,7	3555	310,8	240	728	350	150,5	75	G2

Empty stages availability

PSR01(.)		N°IMPELLERS																												ID
		2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	22	24	26	27	28	[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																

PSR

Vertical centrifugal pump

Empty stages availability

PSR03(.)		N°IMPELLERS																				ID
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	19	20	21	23	[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	
	14							•	•	•	•	•	•	•							393	
	15							•	•	•	•	•	•	•	•						435	
	17							•	•	•	•	•	•	•	•	•					456	
	19							•	•	•	•	•	•	•	•	•	•				498	
20							•	•	•	•	•	•	•	•	•	•	•	•		519		
21							•	•	•	•	•	•	•	•	•	•	•	•	•	540		
23							•	•	•	•	•	•	•	•	•	•	•	•	•	582		
25							•	•	•	•	•	•	•	•	•	•	•	•	•	624		
27							•	•	•	•	•	•	•	•	•	•	•	•	•	666		
30							•	•	•	•	•	•	•	•	•	•	•	•	•	729		
31							•	•	•	•	•	•	•	•	•	•	•	•	•	750		
33							•	•	•	•	•	•	•	•	•	•	•	•	•	792		
POWER		0,37	0,55	0,75	1,1		1,5					2.2				3			4			

PSR05(.)		N°IMPELLERS															ID	
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	19	[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	
19			•	•	•	•	•	•	•	•	•	•	•	•	•	•	638	
20			•	•	•	•	•	•	•	•	•	•	•	•	•	•	666	
23			•	•	•	•	•	•	•	•	•	•	•	•	•	•	750	
25			•	•	•	•	•	•	•	•	•	•	•	•	•	•	806	
27			•	•	•	•	•	•	•	•	•	•	•	•	•	•	862	
POWER		0,75	1,1	1,5	2,2		3			12				5,5		7,5		

PSR

Vertical centrifugal pump

Empty stages availability

PSR10(.)		N°IMPELLERS																ID
		1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	[mm]	
N°STAGES	1																196	
	2	•	•														226	
	3	•	•	•													256	
	4	•	•	•	•												286	
	5	•	•	•	•	•											316	
	6	•	•	•	•	•	•										346	
	7	•	•	•	•	•	•	•									376	
	8	•	•	•	•	•	•	•	•								406	
	9	•	•	•	•	•	•	•	•	•							436	
	10	•	•	•	•	•	•	•	•	•	•						466	
	11	•	•	•	•	•	•	•	•	•	•	•					496	
	12	•	•	•	•	•	•	•	•	•	•	•	•				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									

PSR15(.)		N°IMPELLERS												ID
		1	2	3	4	5	6	7	8	9	10	11	12	[mm]
N°STAGES	1													
	2	•	•											226
	3	•	•	•										266
	4	•	•		•									306
	5	•	•	•	•	•								346
	6	•	•	•	•	•	•							386
	7	•	•	•	•	•	•	•						426
	8	•	•	•	•	•	•	•	•					466
	9	•	•	•	•	•	•	•	•	•				506
	10	•	•	•	•	•	•	•	•	•	•			546
	11	•	•	•	•	•	•	•	•	•	•	•		586
	12	•	•	•	•	•	•	•	•	•	•	•	•	626
	13	•	•	•	•	•	•	•	•	•	•	•	•	666
	15	•	•	•	•	•	•	•	•	•	•	•	•	746
	17	•	•	•	•	•	•	•	•	•	•	•	•	826
POWER		1,5	3	5,5	7,5	11		15		18,5				

PR4

Vertical centrifugal pump

PR4 is a sealless, lightweight pump for clean, turbid or dirty fluids. It is a single stage model with an open impeller. The installation is directly into the reservoir and the pressure port is located above the reservoir plate with an external thread G 1/2.



Machine
tools / Filter
systems



Temperature
control units



Optical
machine
tools



Technical data

Flow rate $Q_{\max}$	37 l/min
Total head $H_{\max}$	4 m
Immersion depth $t_{\max}$	120 mm
Liquid temperature range	0°C to +60°C
Pipe connection	G 1/2
Insulation class	F (B for high temperature)
Protection degree	IP54
Voltage	Three phase 3~230/400V ±10%
Fluids type	Various industrial use fluids, emulsions, also with chemical additives, low viscosity oils, various qualities of water

Versions A901:

Shaft	Stainless steel 1.4122
Splash ring	Additional splash ring underneath flange for higher protection against water rising from the shaft
V-ring	Additional V-ring underneath lower ball bearing for higher bearing protection

Materials

Upper flange	PPN
Shaft	1.0762 tempered (ETG)
Impeller	POM GF
Pump bottom	PPN
Splash ring	NBR
Bearings	Radial deep groove ball bearing with two side plates (2RS); with permanent lubrication

PR4

Vertical centrifugal pump

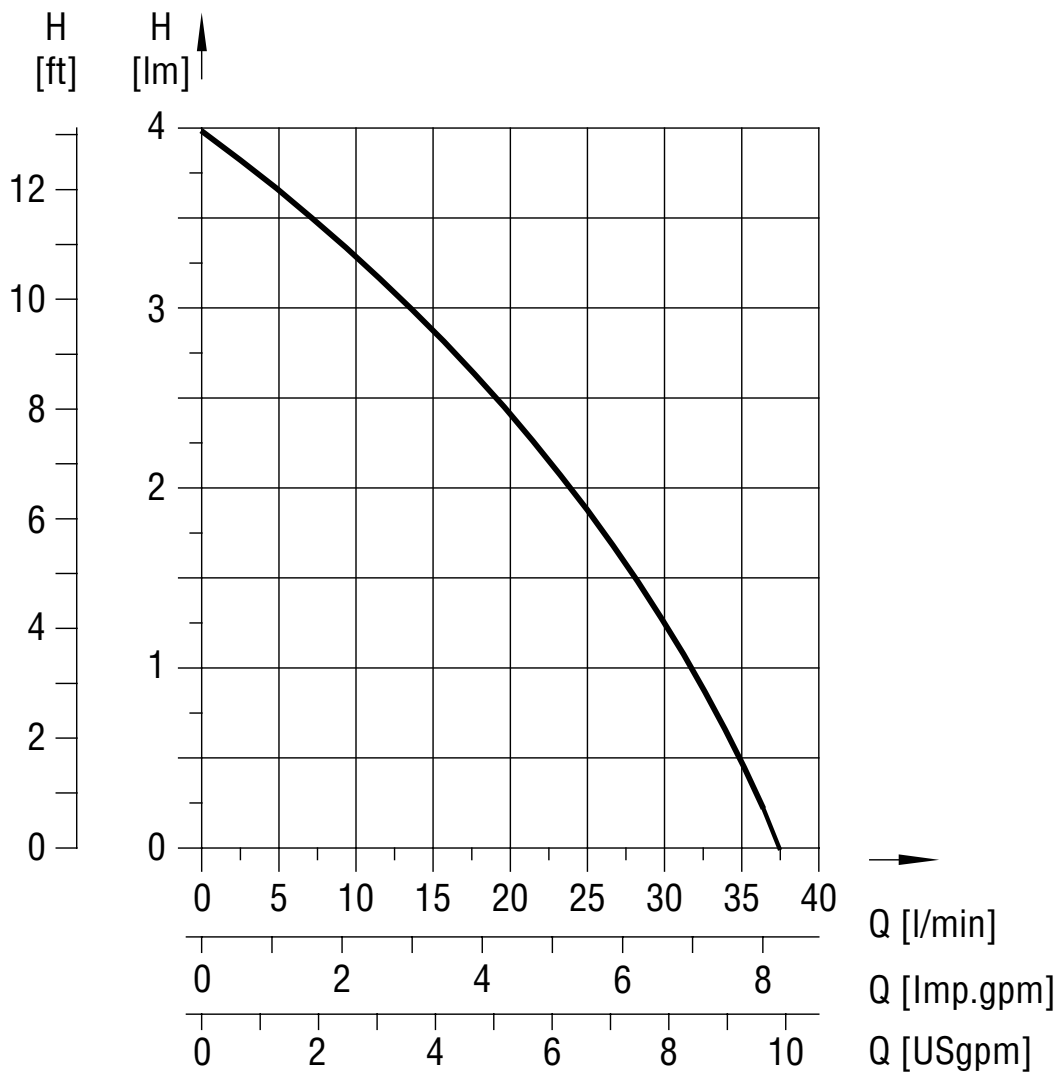
Identification code

PR4	90	A901	140		
			Power Supply	140	230/400V at 50 Hz
				640	230/400V at 60 Hz
			Shaft material	/	Standard
				A901	Shaft material EN1.4122
			Immersion depth in mm	90	
				120	
Pump name					

PR4

Vertical centrifugal pump

Performance curves PR4

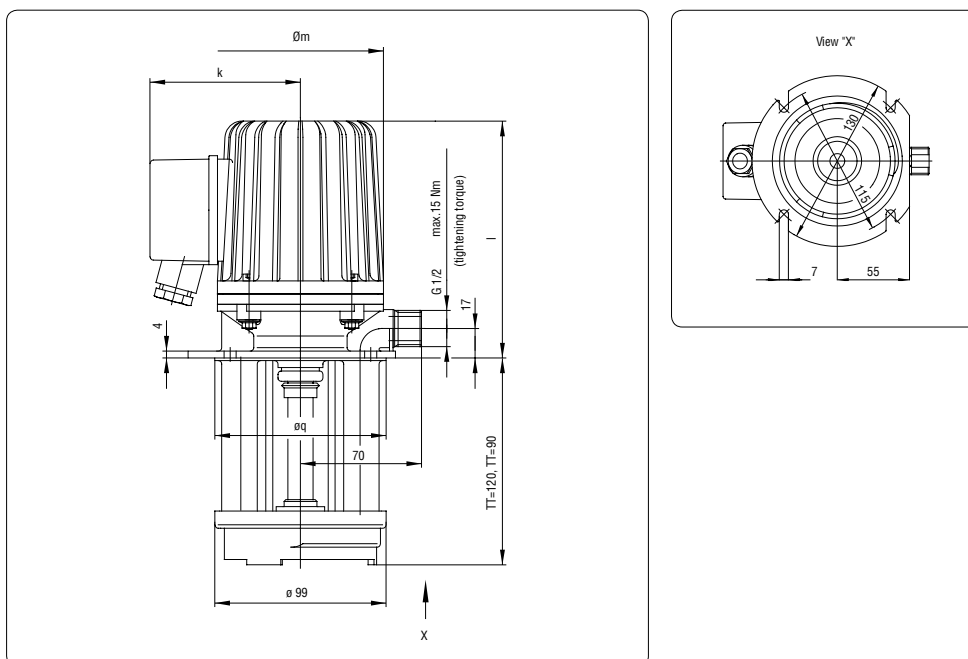


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PR4

Vertical centrifugal pump

Dimensions PR4



Dimensional table PR4

50Hz

Model	kW	Immersion depth t [mm]	Rated motor values			Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	Øm	k	l	Øq			
PR4	0,05	90	230/400	0,33/0,19	2730	96	88	137	100	2,5	46	G½"
PR4	0,05	120	230/400	0,33/0,19	2730	96	88	137	100	2,5	46	G½"

Dimensional table PR4

60Hz

Model	kW	Immersion depth t [mm]	Rated motor values			Dimensions [mm]				Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	Øm	k	l	Øq			
PR4	0,05	90	230/400	0,33/0,19	3300	96	88	137	100	2,5	46	G½"
PR4	0,05	120	230/400	0,33/0,19	3300	96	88	137	100	2,5	46	G½"

PMS

Vertical centrifugal pump

PMS is a sealless, single-stage or multi-stage pump for delivery of highly contaminated types of fluids. The installation is directly into the reservoir and the pressure port is located above the reservoir plate.



Machine
tools / Filter
systems

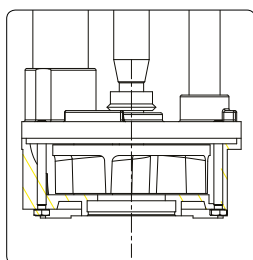


Technical data

Flow rate $Q_{\max}$	400 l/min
Total head $H_{\max}$	45 m
Immersion depth $t_{\max}$	560 mm
Kinematic viscosity	max. 20 mm ² /s
Liquid temperature range	0°C to +60°C 0°C to +80°C (G version)
Max grain size	max. ø5 mm
Pipe connection	G ¾ - for PMS 05-06-08-10 G 1 ¼ - for PMS 25-30-40
Insulation class	F
Protection degree	IP54
Voltage	Three phase 3~230/400V ±5% at 50Hz Three phase 3~265/460V ±5% at 60Hz
Fluids type	Various industrial use fluids, emulsions, also with chemical additives, oils, water with corrosion protection additive, water colors, heat transfer oils

Version

Bottom for extension tube "V"	EN-GJL-200
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Version V:
with bottom for extension tube.

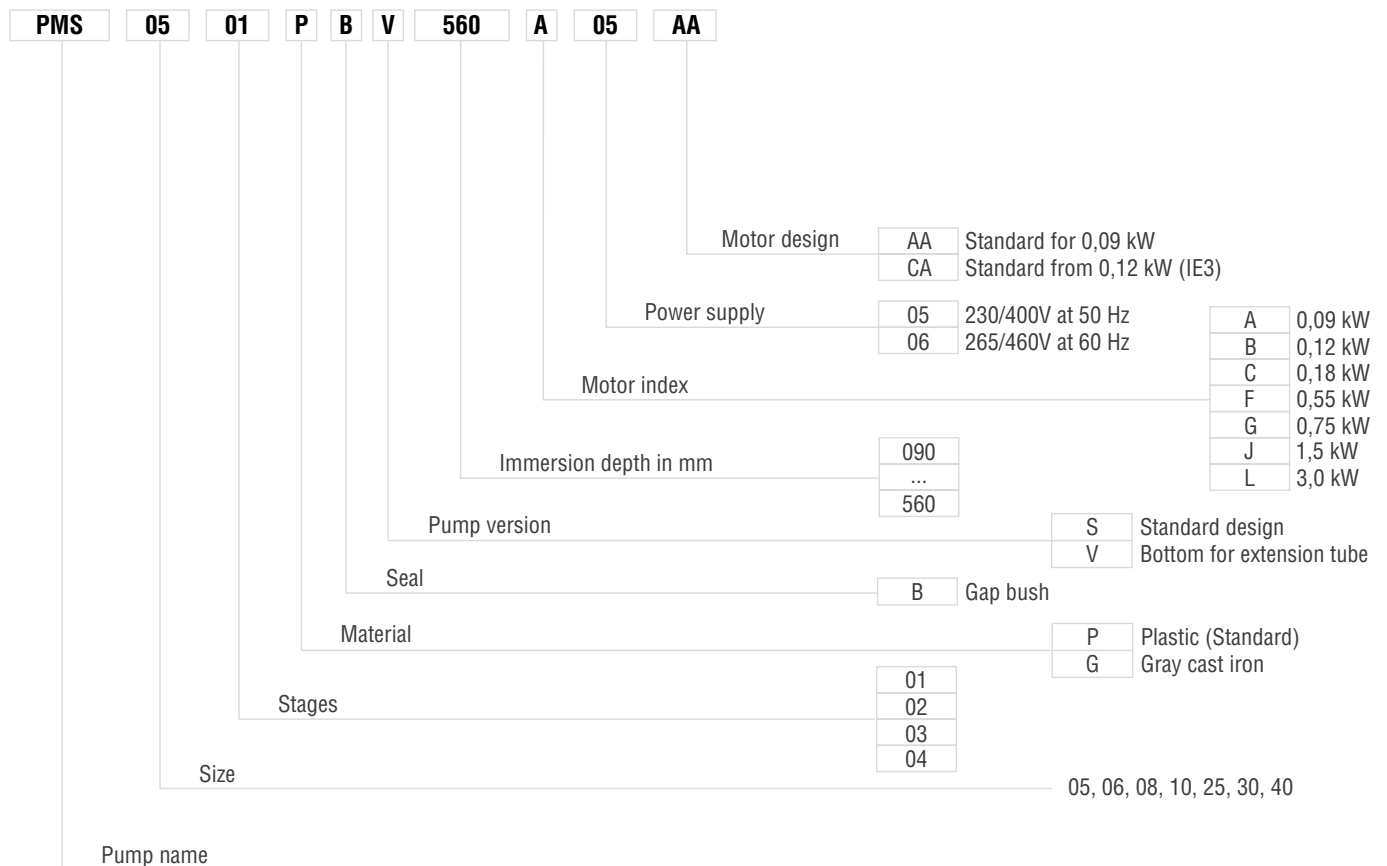
Materials

Upper flange	EN-GJL-200 and steel
Shaft	1.0762
Impeller	POM EN-GJL-200 for G Material
Intermediate chamber	EN-GJL-200
Bushes	PTFE graphite
Pump bottom	POM EN-GJL-200 for G Material
Splash ring	NBR 1.0718 for G Material

PMS

Vertical centrifugal pump

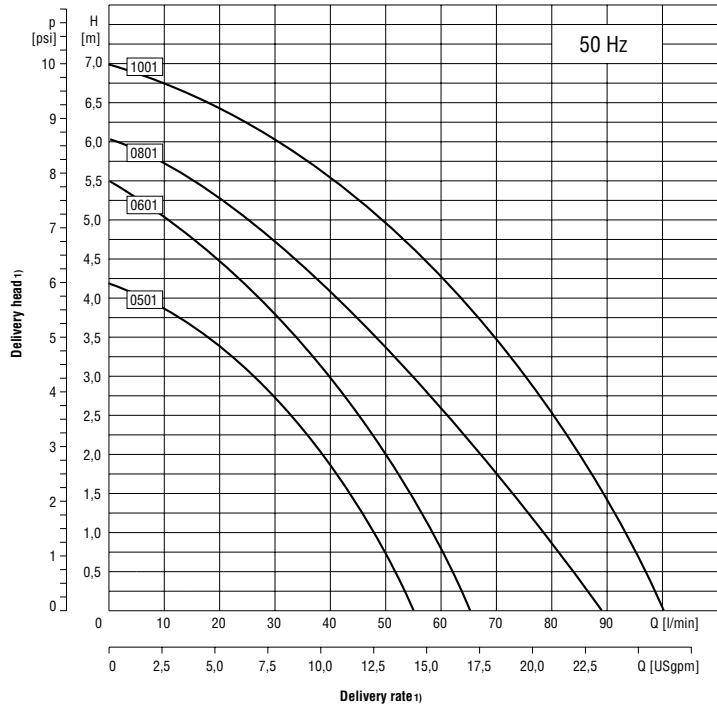
Identification code



PMS

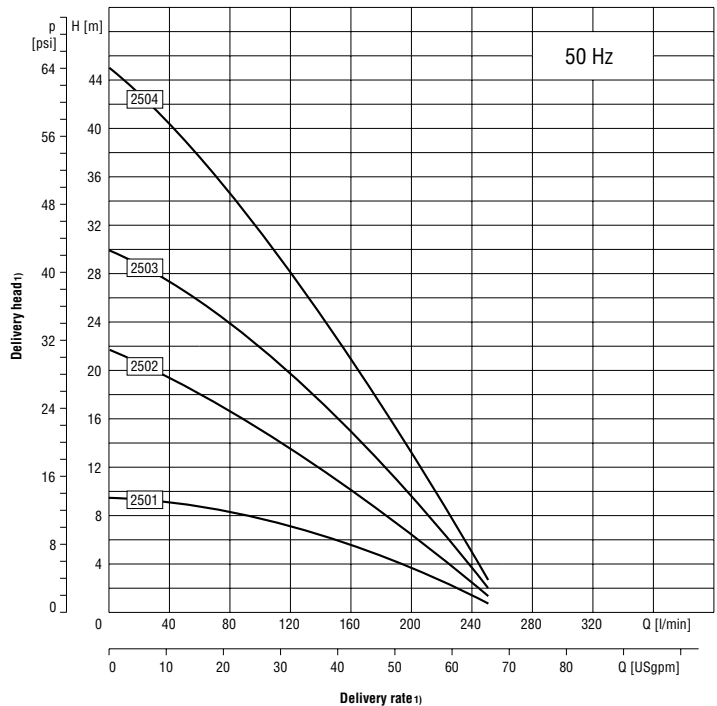
Vertical centrifugal pump

Performance curves PMS05 - PMS06 - PMS08 - PMS10



1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Performance curves PMS25

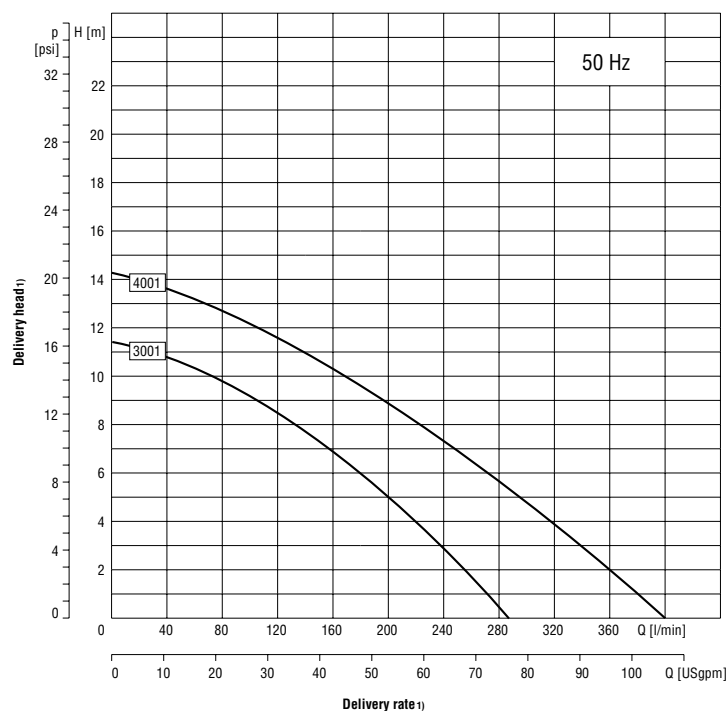


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PMS

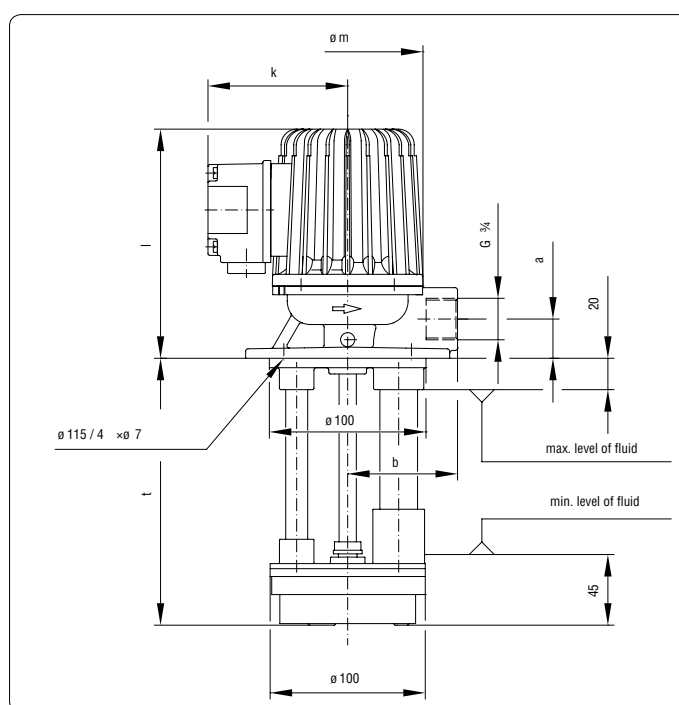
Vertical centrifugal pump

Performance curves PMS30 - PMS40



1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg}/\text{dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Dimensions PMS05 - PMS06 - PMS08 - PMS10





PMS

Vertical centrifugal pump

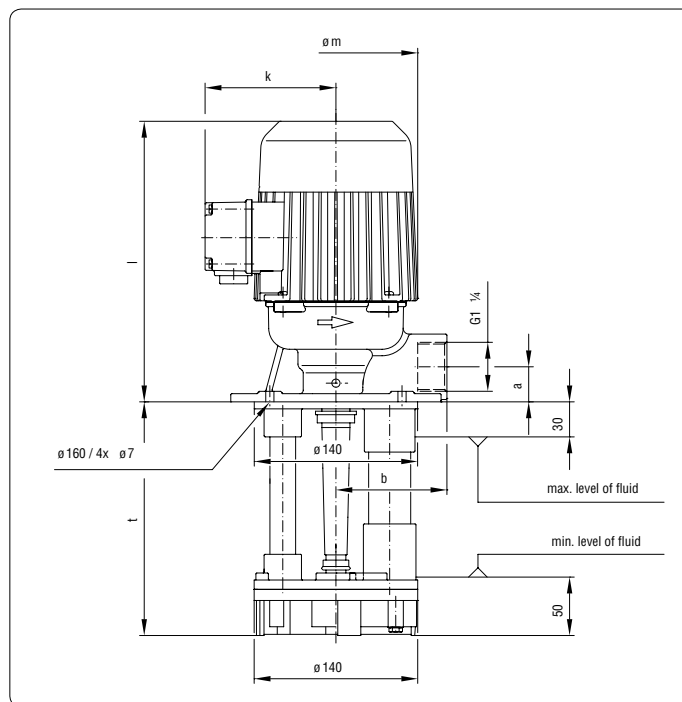
Dimensional table PMS

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	øm	k	l	øa	b			
PMS0501	0,09	90	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	120	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	140	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,6	46	G ¾
PMS0501	0,09	170	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	200	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,6	46	G ¾
PMS0501	0,09	220	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,9	46	G ¾
PMS0501	0,09	250	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	270	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	350	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	90	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,3	46	G ¾
PMS0601	0,09	120	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	140	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	170	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,8	46	G ¾
PMS0601	0,09	200	230/400	A	0,46/0,26	2618	96	89	146	25	70	4,8	46	G ¾
PMS0601	0,09	220	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	250	230/400	A	0,46/0,26	2618	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	270	230/400	A	0,46/0,26	2618	96	89	146	25	70	4	46	G ¾
PMS0601	0,09	350	230/400	A	0,46/0,26	2618	96	89	146	25	70	5,6	46	G ¾
PMS0801	0,12	120	230/400	B	1,0/0,6	2890	120	99	181	25	70	7,5	55	G ¾
PMS0801	0,12	170	230/400	B	1,0/0,6	2890	120	99	181	25	70	7,5	55	G ¾
PMS0801	0,12	220	230/400	B	1,0/0,6	2890	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	250	230/400	B	1,0/0,6	2890	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	270	230/400	B	1,0/0,6	2890	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	350	230/400	B	1,0/0,6	2890	120	99	181	25	70	8,5	55	G ¾
PMS1001	0,18	90	230/400	C	1,1/0,6	2825	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,18	120	230/400	C	1,1/0,6	2825	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,18	140	230/400	C	1,1/0,6	2825	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,18	170	230/400	C	1,1/0,6	2825	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,18	200	230/400	C	1,1/0,6	2825	120	99	181	25	70	8	55	G ¾
PMS1001	0,18	220	230/400	C	1,1/0,6	2825	120	99	181	25	70	8	55	G ¾
PMS1001	0,18	250	230/400	C	1,1/0,6	2825	120	99	181	25	70	8	55	G ¾
PMS1001	0,18	270	230/400	C	1,1/0,6	2825	120	99	181	25	70	8	55	G ¾
PMS1001	0,18	350	230/400	C	1,1/0,6	2825	120	99	181	25	70	8,5	55	G ¾

PMS

Vertical centrifugal pump

Dimensions PMS25



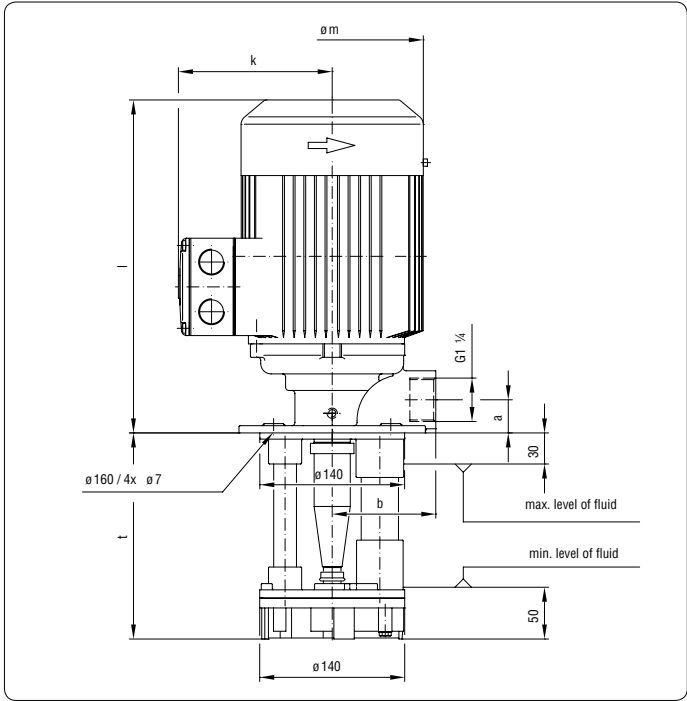
Dimensional table PMS

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	ø m	k	l	ø a	b			
PMS2501	0,55	170	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	15	59	G1 ¼
PMS2501	0,55	200	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	15	59	G1 ¼
PMS2501	0,55	270	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	15,5	59	G1 ¼
PMS2501	0,55	350	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	16	59	G1 ¼
PMS2501	0,55	440	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	17	59	G1 ¼
PMS2501	0,55	550	230/400	F	2,4/1,4	2818	141,4	104	267	30	95	18	59	G1 ¼
PMS2502	1,5	270	230/400	J	7,1/4,1	2945	176	128	364	32	100	33	59	G1 ¼
PMS2502	1,5	310	230/400	J	7,1/4,1	2945	176	128	364	32	100	33,5	59	G1 ¼
PMS2502	1,5	350	230/400	J	7,1/4,1	2945	176	128	364	32	100	34	59	G1 ¼
PMS2502	1,5	390	230/400	J	7,1/4,1	2945	176	128	364	32	100	34	59	G1 ¼
PMS2502	1,5	480	230/400	J	7,1/4,1	2945	176	128	364	32	100	35	59	G1 ¼
PMS2503	1,5	310	230/400	J	7,1/4,1	2945	176	128	364	32	100	35,5	65	G1 ¼
PMS2503	1,5	350	230/400	J	7,1/4,1	2945	176	128	364	32	100	36	65	G1 ¼
PMS2503	1,5	390	230/400	J	7,1/4,1	2945	176	128	364	32	100	36,5	65	G1 ¼
PMS2503	1,5	430	230/400	J	7,1/4,1	2945	176	128	364	32	100	36,5	65	G1 ¼
PMS2504	3,0	350	230/400	L	11,1/6,4	2890	176	128	364	32	100	41	65	G1 ¼

PMS

Vertical centrifugal pump

Dimensions PMS30 - PMS40



Dimensional table PMS

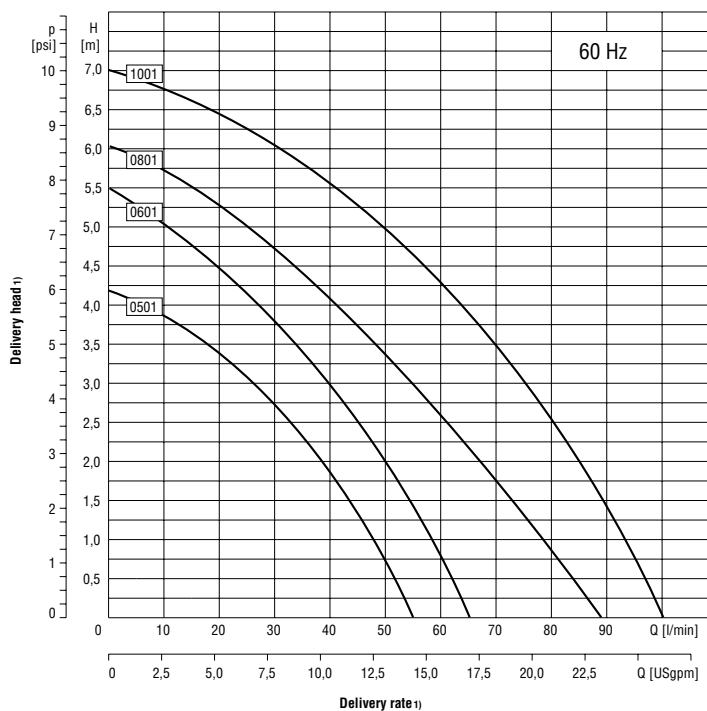
Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_n [min ⁻¹]	ϕm	k	l	ϕa	b			
PMS3001	0,75	170	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	17,5	59	G1 1/4
PMS3001	0,75	200	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	17,5	59	G1 1/4
PMS3001	0,75	270	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	18	59	G1 1/4
PMS3001	0,75	350	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	18,5	59	G1 1/4
PMS3001	0,75	440	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	19,5	59	G1 1/4
PMS3001	0,75	550	230/400	G	3,0/1,7	2845	141,4	104	267	30	95	20,5	59	G1 1/4
PMS4001*	1,5	210	230/400	J	7,1/4,1	2945	176	128	364	32	100	35	65	G1 1/4
PMS4001*	1,5	240	230/400	J	7,1/4,1	2945	176	128	364	32	100	35	65	G1 1/4
PMS4001*	1,5	280	230/400	J	7,1/4,1	2945	176	128	364	32	100	36	65	G1 1/4
PMS4001*	1,5	320	230/400	J	7,1/4,1	2945	176	128	364	32	100	37	65	G1 1/4
PMS4001*	1,5	360	230/400	J	7,1/4,1	2945	176	128	364	32	100	37	65	G1 1/4
PMS4001*	1,5	560	230/400	J	7,1/4,1	2945	176	128	364	32	100	39	65	G1 1/4

* G version in gray cast iron

PMS

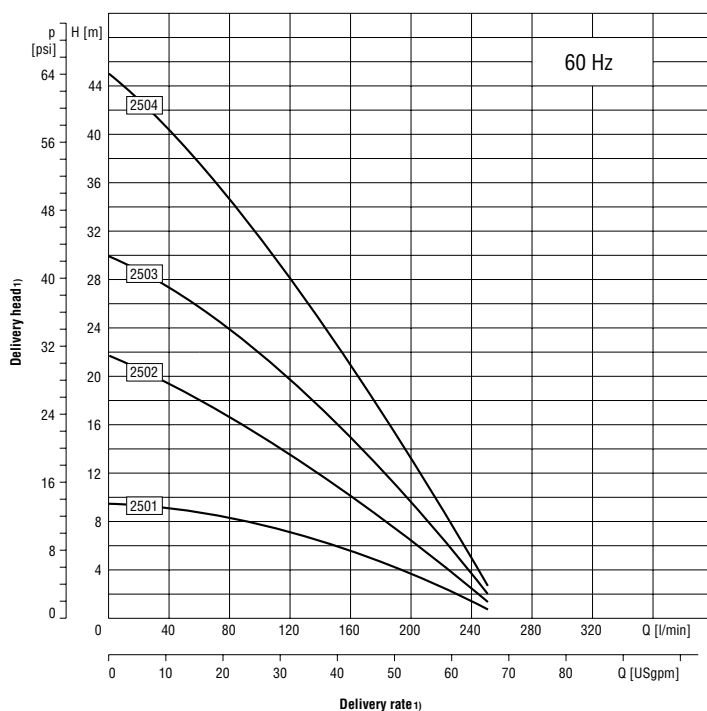
Vertical centrifugal pump

Performance curves PMS05 - PMS06 - PMS08 - PMS10



1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg/dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Performance curves PMS25

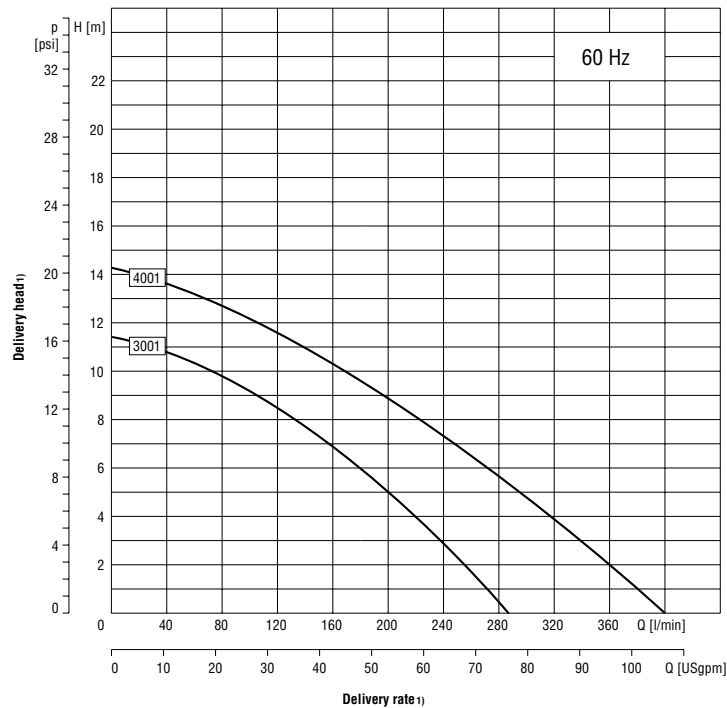


1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg/dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PMS

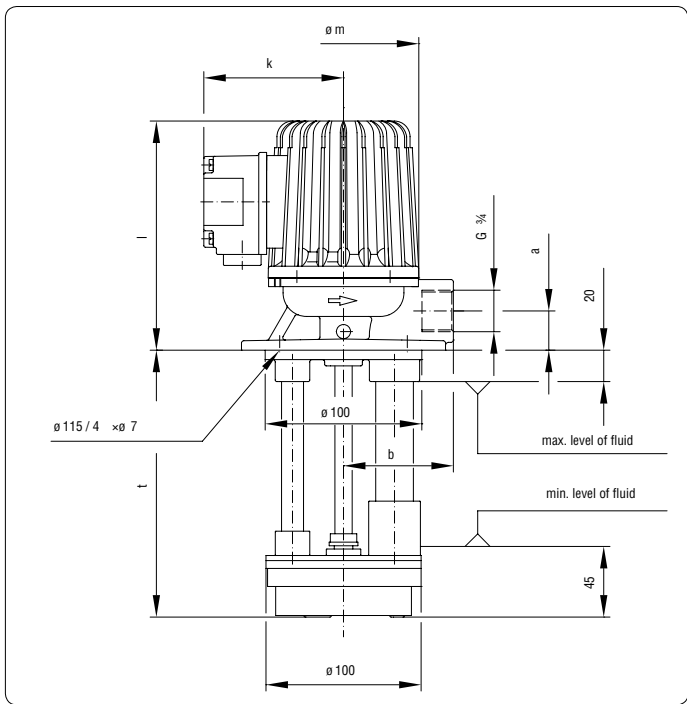
Vertical centrifugal pump

Performance curves PMS30 - PMS40



1) Data for viscosity of $\sim 1 \text{ mm}^2/\text{s}$ at a density of $\sim 1 \text{ kg}/\text{dm}^3$. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Dimensions PMS05 - PMS06 - PMS08 - PMS10



PMS

Vertical centrifugal pump

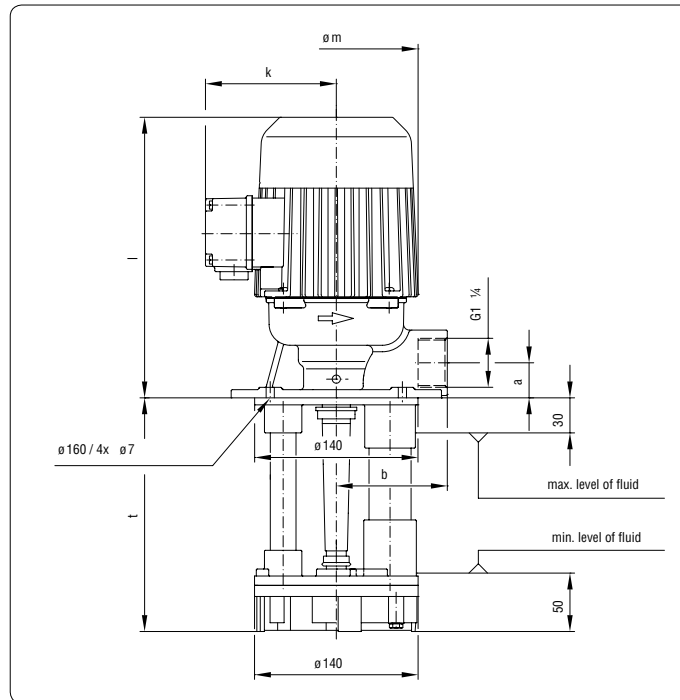
Dimensional table PMS

Model	kW	Immersion depth t [mm]	Rated motor values			Speed n_N [min ⁻¹]	Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]		øm	k	l	øa	b			
PMS0501	0,09	90	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	120	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	140	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,6	46	G ¾
PMS0501	0,09	170	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	200	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,6	46	G ¾
PMS0501	0,09	220	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,9	46	G ¾
PMS0501	0,09	250	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	270	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0501	0,09	350	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	90	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,3	46	G ¾
PMS0601	0,09	120	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	140	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	170	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,8	46	G ¾
PMS0601	0,09	200	265/460	A	0,46/0,26	3257	96	89	146	25	70	4,8	46	G ¾
PMS0601	0,09	220	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	250	265/460	A	0,46/0,26	3257	96	89	146	25	70	5	46	G ¾
PMS0601	0,09	270	265/460	A	0,46/0,26	3257	96	89	146	25	70	4	46	G ¾
PMS0601	0,09	350	265/460	A	0,46/0,26	3257	96	89	146	25	70	5,6	46	G ¾
PMS0801	0,12	120	265/460	B	0,9/0,5	3505	120	99	181	25	70	7,5	55	G ¾
PMS0801	0,12	170	265/460	B	0,9/0,5	3505	120	99	181	25	70	7,5	55	G ¾
PMS0801	0,12	220	265/460	B	0,9/0,5	3505	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	250	265/460	B	0,9/0,5	3505	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	270	265/460	B	0,9/0,5	3505	120	99	181	25	70	8	55	G ¾
PMS0801	0,12	350	265/460	B	0,9/0,5	3505	120	99	181	25	70	8,5	55	G ¾
PMS1001	0,21	90	265/460	C	1,0/0,6	3455	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,21	120	265/460	C	1,0/0,6	3455	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,21	140	265/460	C	1,0/0,6	3455	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,21	170	265/460	C	1,0/0,6	3455	120	99	181	25	70	7,5	55	G ¾
PMS1001	0,21	200	265/460	C	1,0/0,6	3455	120	99	181	25	70	8	55	G ¾
PMS1001	0,21	220	265/460	C	1,0/0,6	3455	120	99	181	25	70	8	55	G ¾
PMS1001	0,21	250	265/460	C	1,0/0,6	3455	120	99	181	25	70	8	55	G ¾
PMS1001	0,21	270	265/460	C	1,0/0,6	3455	120	99	181	25	70	8	55	G ¾
PMS1001	0,21	350	265/460	C	1,0/0,6	3455	120	99	181	25	70	8,5	55	G ¾

PMS

Vertical centrifugal pump

Dimensions PMS25



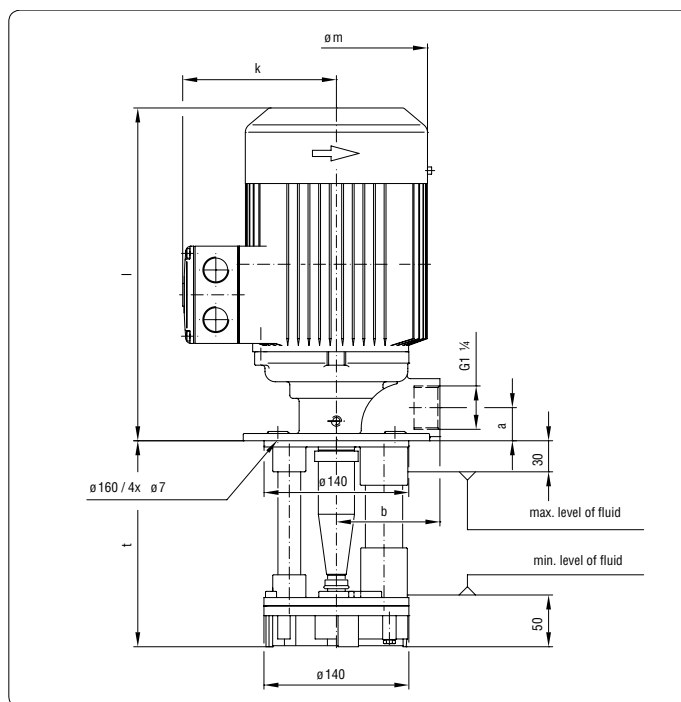
Dimensional table PMS

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n _N [min ⁻¹]	øm	k	l	øa	b			
PMS2501	0,55	170	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	15	59	G1 ¼
PMS2501	0,55	200	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	15	59	G1 ¼
PMS2501	0,55	220	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	15,5	59	G1 ¼
PMS2501	0,55	350	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	16	59	G1 ¼
PMS2501	0,55	440	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	17	59	G1 ¼
PMS2501	0,55	550	265/460	F	2,1/1,12	3430	141,4	104	267	30	95	18	59	G1 ¼
PMS2502	1,5	270	265/460	J	6,1/3,5	3555	176	128	364	32	100	33	59	G1 ¼
PMS2502	1,5	310	265/460	J	6,1/3,5	3555	176	128	364	32	100	33,5	59	G1 ¼
PMS2502	1,5	350	265/460	J	6,1/3,5	3555	176	128	364	32	100	34	59	G1 ¼
PMS2502	1,5	390	265/460	J	6,1/3,5	3555	176	128	364	32	100	34	59	G1 ¼
PMS2502	1,5	480	265/460	J	6,1/3,5	3555	176	128	364	32	100	35	59	G1 ¼
PMS2503	1,5	310	265/460	J	6,1/3,5	3555	176	128	364	32	100	35,5	65	G1 ¼
PMS2503	1,5	350	265/460	J	6,1/3,5	3555	176	128	364	32	100	36	65	G1 ¼
PMS2503	1,5	390	265/460	J	6,1/3,5	3555	176	128	364	32	100	36,5	65	G1 ¼
PMS2503	1,5	430	265/460	J	6,1/3,5	3555	176	128	364	32	100	36,5	65	G1 ¼
PMS2504	3,0	350	265/460	L	9,7/5,6	3500	176	128	364	32	100	41	65	G1 ¼

PMS

Vertical centrifugal pump

Dimensions PMS30 - PMS40



Dimensional table PMS

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]					Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	ø m	k	l	ø a	b			
PMS3001	0,75	170	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	17,5	59	G1 ¼
PMS3001	0,75	200	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	17,5	59	G1 ¼
PMS3001	0,75	270	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	18	59	G1 ¼
PMS3001	0,75	350	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	18,5	59	G1 ¼
PMS3001	0,75	440	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	19,5	59	G1 ¼
PMS3001	0,75	550	265/460	G	2,6/1,5	3460	141,4	104	267	30	95	20,5	59	G1 ¼
PMS4001*	1,5	210	265/460	J	6,1/3,5	3555	176	128	364	32	100	32	65	G1 ¼
PMS4001*	1,5	240	265/460	J	6,1/3,5	3555	176	128	364	32	100	32	65	G1 ¼
PMS4001*	1,5	280	265/460	J	6,1/3,5	3555	176	128	364	32	100	32,5	65	G1 ¼
PMS4001*	1,5	320	265/460	J	6,1/3,5	3555	176	128	364	32	100	33	65	G1 ¼
PMS4001*	1,5	360	265/460	J	6,1/3,5	3555	176	128	364	32	100	33,5	65	G1 ¼
PMS4001*	1,5	560	265/460	J	6,1/3,5	3555	176	128	364	32	100	35	65	G1 ¼

* G version in gray cast iron

PS-PSL

Vertical centrifugal pump

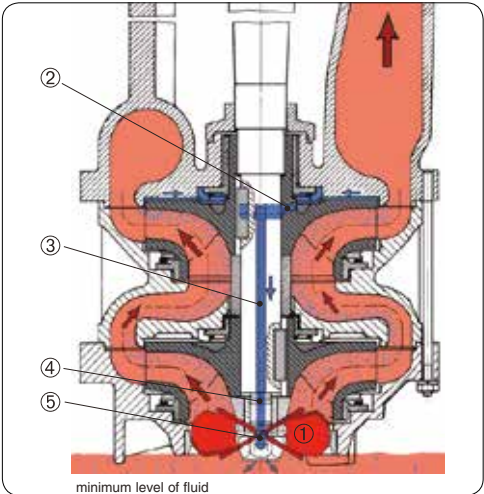
PS-PSL are a sealless, single-stage or multi-stage pump for delivery of clean, polluted and viscous types of fluids. The installation is directly into the reservoir, the pressure port is located above the reservoir plate and designed with internal thread G2.



Technical data

Flow rate Q_{max}	1250 l/min
Total head H_{max}	105 m
Immersion depth t_{max}	670 mm
Kinematic viscosity	max. 30 mm ² /s
Liquid temperature range	0°C to +80°C
Max grain size	ø4 mm
Insulation class	F (B for high temperature)
Protection degree	IP54
Voltage	Three phase 3~230/400V ±10% at 50Hz Three phase 3~400/690V ±10% at 50Hz Three phase 3~265/460V ±10% at 60Hz Three phase 3~Δ 460 ±10% at 60Hz
Fluids type	Emulsions, cooling and cutting oils, water with rustproofing additives, heat carrier oil

Model PSL centrifugal slurr pumps for fluids containing large amounts of trapped air



- ① Suction impeller
- ② Bore connecting to shaft through the impeller
- ③ Two axial grooves along the shaft to serve as guide courses
- ④ Radial bores leading inside the shaft at the end of the grooves
- ⑤ Bottom end of shaft with axial bore and banjo bolt

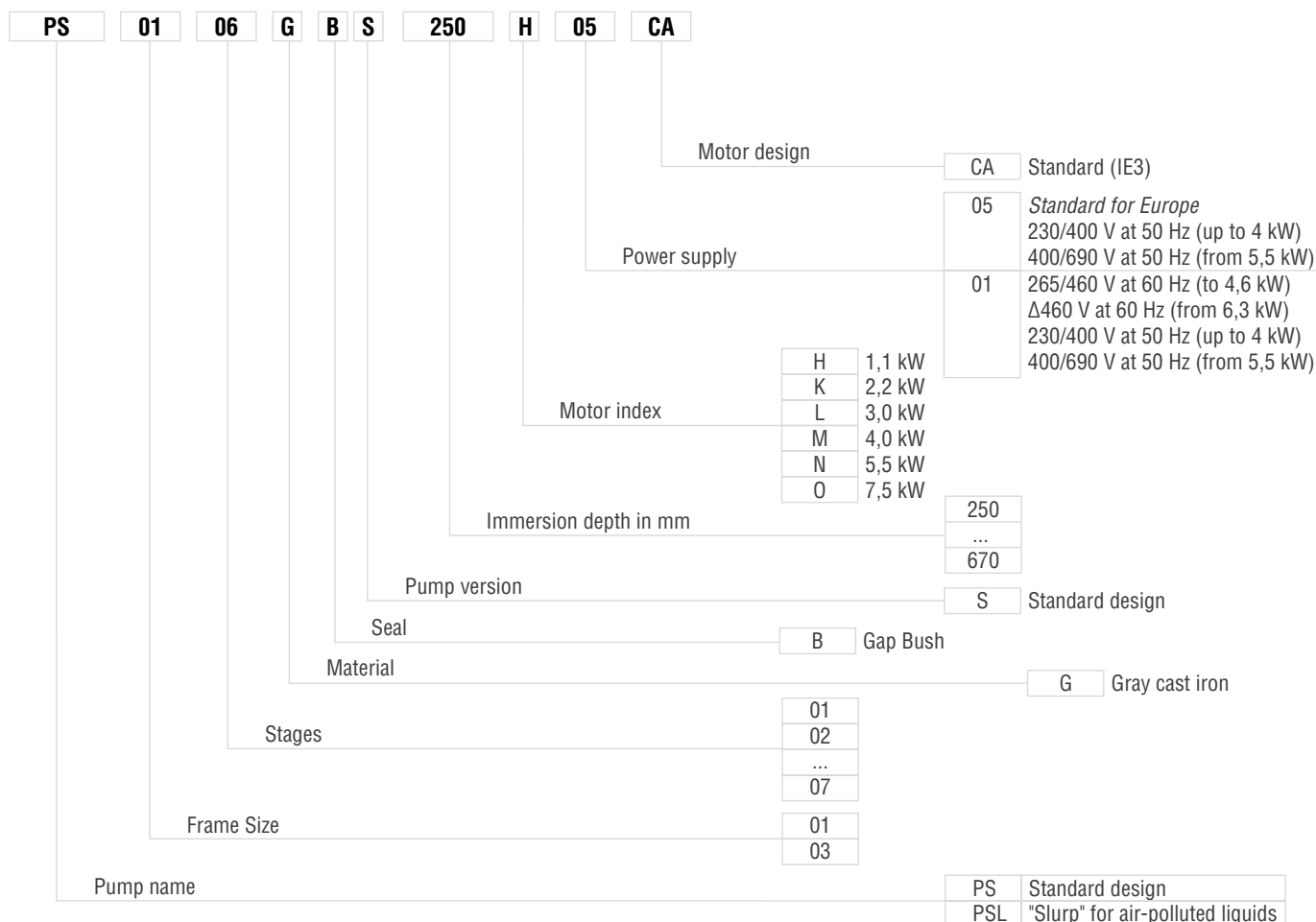
Materials

Upper flange	EN-GJL-200
Shaft	1.0762
Impeller	EN-GJL-200
Intermediate chamber	EN-GJL-200
Bearings	Deep groove ballbearing with covering disk
Bushing	Sintered iron
Pump bottom	EN-GJL-200

PS-PSL

Vertical centrifugal pump

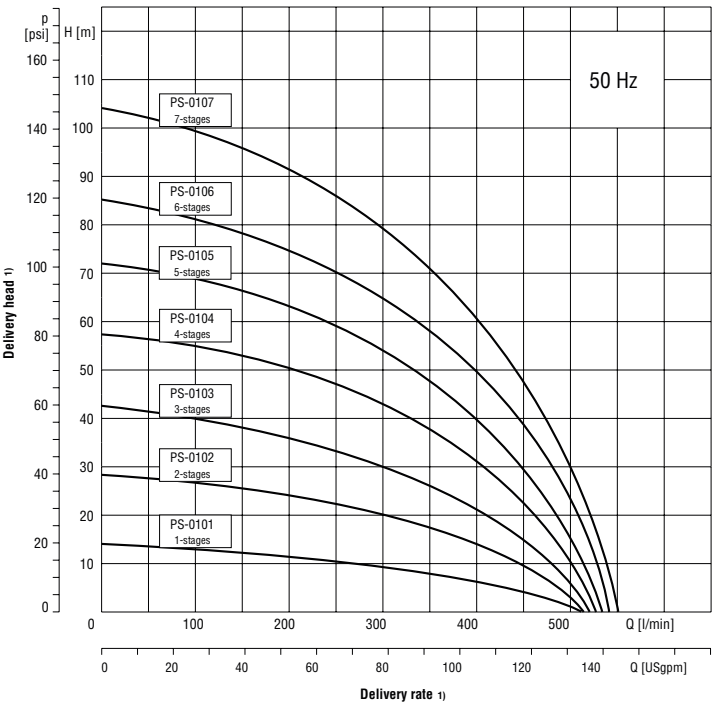
Identification code



PS-PSL

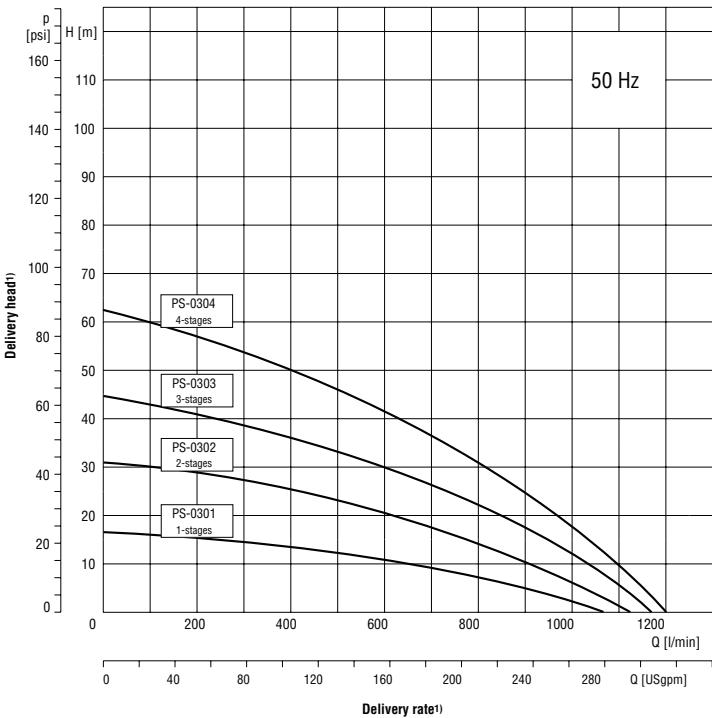
Vertical centrifugal pump

Performance curves PS(L)01



1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Performance curves PS(L)03

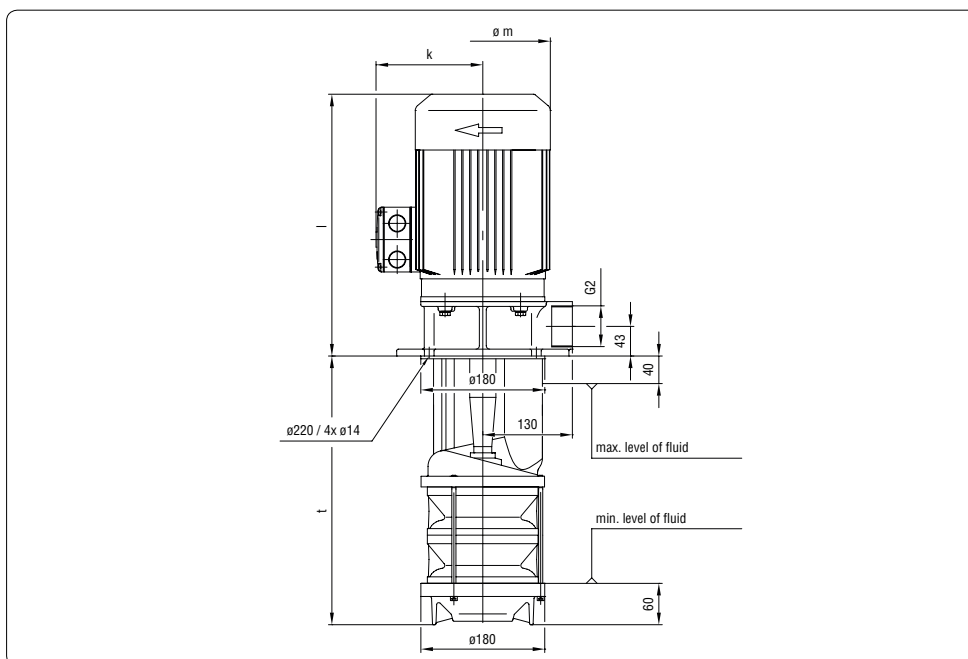


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PS-PSL

Vertical centrifugal pump

Dimensions PS(L)01



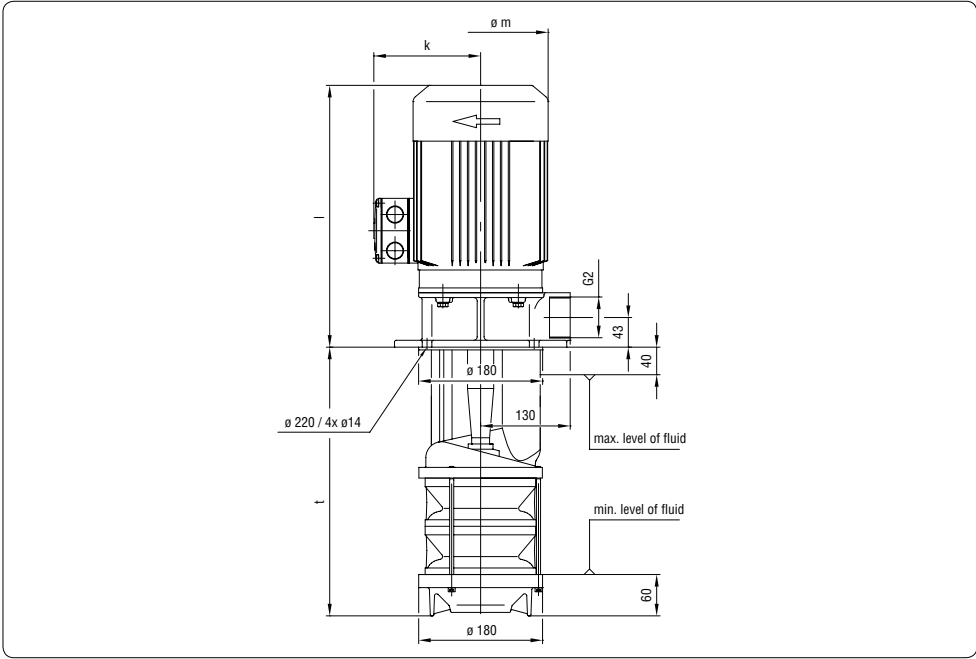
Dimensional table PS(L)

Model	kW	Immersion depth t [mm]	Voltage Δ / Y U [V]	Rated motor values			Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
				Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	ø m	k	l			
PS(L)0101	1,1	250	230/400	H	4,3/2,5	2830	141,4	103	324	32	62-64	G2
PS(L)0101	1,1	320	230/400	H	4,3/2,5	2830	141,4	103	324	34	62-64	G2
PS(L)0101	1,1	450	230/400	H	4,3/2,5	2830	141,4	103	324	36	62-64	G2
PS(L)0101	1,1	550	230/400	H	4,3/2,5	2830	141,4	103	324	38	62-64	G2
PS(L)0102	2,2	320	230/400	K	8,7/5	2915	259	180	512	50	65-77	G2
PS(L)0102	2,2	390	230/400	K	8,7/5	2915	259	180	512	51	65-77	G2
PS(L)0102	2,2	520	230/400	K	8,7/5	2915	259	180	512	53	65-77	G2
PS(L)0102	2,2	620	230/400	K	8,7/5	2915	259	180	512	54	65-77	G2
PS(L)0103	3	390	230/400	L	13/7,5	2945	193	142	430	67	68-74	G2
PS(L)0103	3	460	230/400	L	13/7,5	2945	193	142	430	68	68-74	G2
PS(L)0103	3	590	230/400	L	13/7,5	2945	193	142	430	70	68-74	G2
PS(L)0104	4	460	230/400	M	14/8,1	2950	220	152	439	82	69-75	G2
PS(L)0104	4	530	230/400	M	14/8,1	2950	220	152	439	83	69-75	G2
PS(L)0104	4	660	230/400	M	14/8,1	2950	220	152	439	85	69-75	G2
PS(L)0105	5,5	530	400/690	N	10,6/6,1	2945	259	180	512	102	68-75	G2
PS(L)0105	5,5	600	400/690	N	10,6/6,1	2945	259	180	512	103	68-75	G2
PS(L)0106	5,5	600	400/690	N	10,6/6,1	2945	259	180	512	107	69-75	G2
PS(L)0107	7,5	670	400/690	O	14,3/8,3	2945	259	180	512	120	72-75	G2

PS-PSL

Vertical centrifugal pump

Dimensions PS(L)03



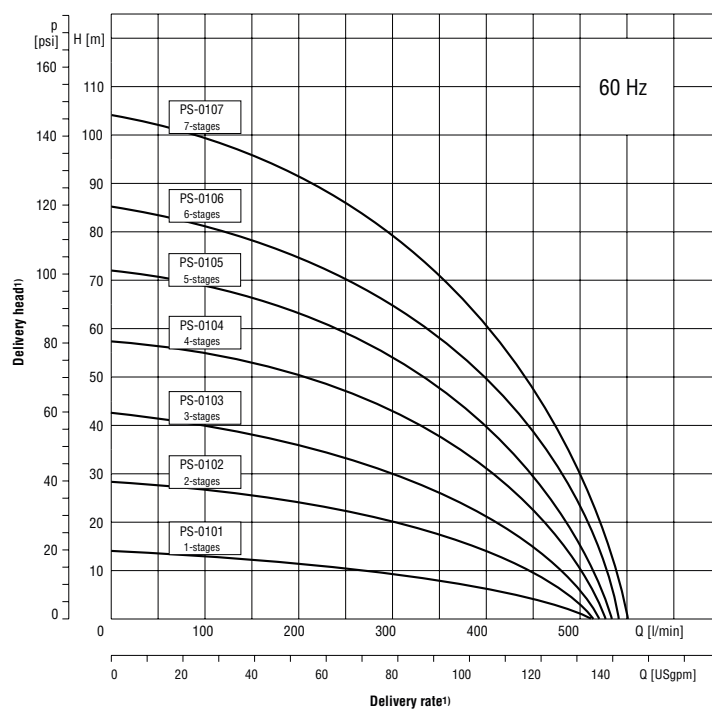
Dimensional table PS(L)

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	$\varnothing m$	k	l			
PS(L)0301	2,2	250	230/400	K	8,7/5	2915	259	180	512	43	63-65	G2
PS(L)0301	2,2	320	230/400	K	8,7/5	2915	259	180	512	45	63-65	G2
PS(L)0301	2,2	450	230/400	K	8,7/5	2915	259	180	512	44	63-65	G2
PS(L)0301	2,2	550	230/400	K	8,7/5	2915	259	180	512	45	63-65	G2
PS(L)0302	4	320	230/400	M	14/8,1	2950	220	152	439	70	67-75	G2
PS(L)0302	4	390	230/400	M	14/8,1	2950	220	152	439	71	67-75	G2
PS(L)0302	4	520	230/400	M	14/8,1	2950	220	152	439	71	67-75	G2
PS(L)0302	4	620	230/400	M	14/8,1	2950	220	152	439	72	67-75	G2
PS(L)0303	5,5	390	400/690	N	10,6/6,1	2945	259	180	512	88	70-77	G2
PS(L)0303	5,5	460	400/690	N	10,6/6,1	2945	259	180	512	89	70-77	G2
PS(L)0303	5,5	590	400/690	N	10,6/6,1	2945	259	180	512	89	70-77	G2
PS(L)0304	7,5	460	400/690	O	14.3/8.3	2945	259	180	512	99	70-77	G2
PS(L)0304	7,5	530	400/690	O	14.3/8.3	2945	259	180	512	101	70-77	G2

PS-PSL

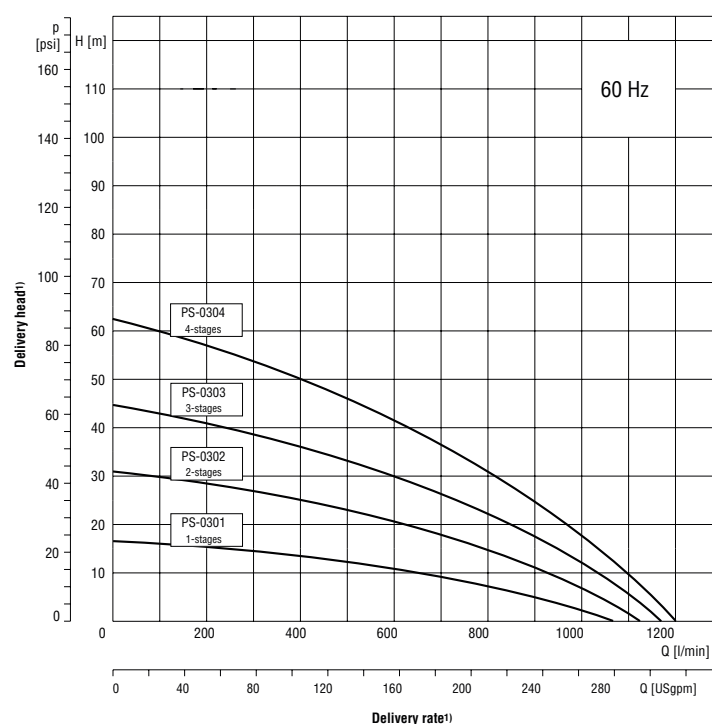
Vertical centrifugal pump

Performance curves PS(L)01



1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

Performance curves PS(L)03

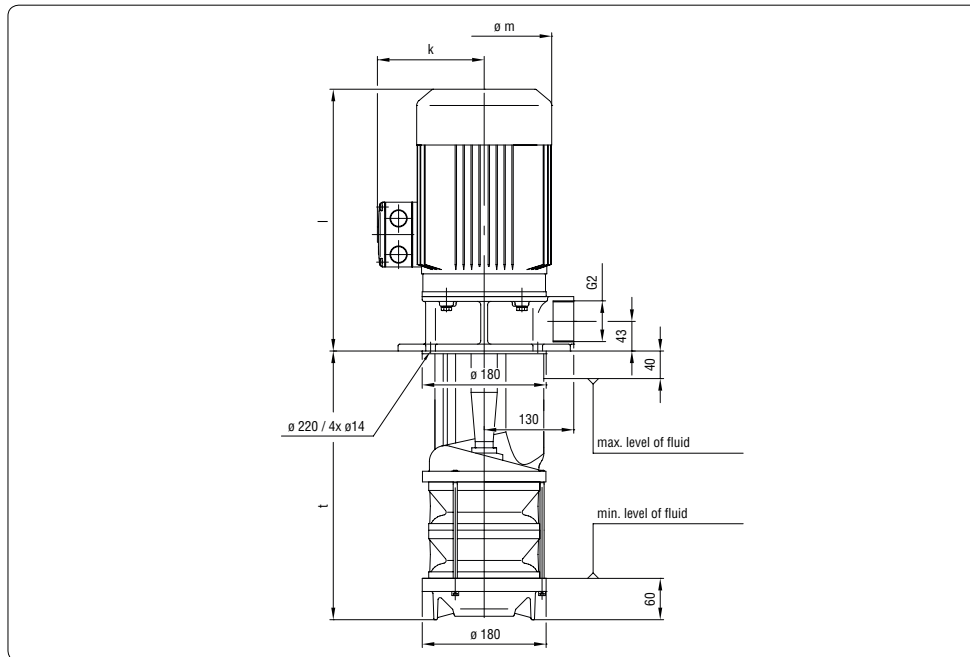


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PS-PSL

Vertical centrifugal pump

Dimensions PS(L)01



Dimensional table PS(L)

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]			Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current Δ / Y I _N [A]	Speed n_N [min ⁻¹]	$\varnothing m$	k	l			
PS(L)0101	1,26	250	265/460	H	4,1/2,4	3440	141,4	103	324	32	62-64	G2
PS(L)0101	1,26	320	265/460	H	4,1/2,4	3440	141,4	103	324	34	62-64	G2
PS(L)0101	1,26	450	265/460	H	4,1/2,4	3440	141,4	103	324	36	62-64	G2
PS(L)0101	1,26	550	265/460	H	4,1/2,4	3440	141,4	103	324	38	62-64	G2
PS(L)0102	2,6	320	265/460	K	8,3/4,8	3505	259	180	512	50	65-77	G2
PS(L)0102	2,6	390	265/460	K	8,3/4,8	3505	259	180	512	51	65-77	G2
PS(L)0102	2,6	520	265/460	K	8,3/4,8	3505	259	180	512	53	65-77	G2
PS(L)0102	2,6	620	265/460	K	8,3/4,8	3505	259	180	512	54	65-77	G2
PS(L)0103	3,6	390	265/460	L	12,3/7,1	3540	193	142	430	67	68-74	G2
PS(L)0103	3,6	460	265/460	L	12,3/7,1	3540	193	142	430	68	68-74	G2
PS(L)0103	3,6	590	265/460	L	12,3/7,1	3540	193	142	430	70	68-74	G2
PS(L)0104	4,5	460	265/460	M	13,5/7,8	3550	220	152	439	82	69-75	G2
PS(L)0104	4,5	530	265/460	M	13,5/7,8	3550	220	152	439	83	69-75	G2
PS(L)0104	4,5	660	265/460	M	13,5/7,8	3550	220	152	439	85	69-75	G2
PS(L)0105	6,2	530	Δ 460	N	Δ 10,1	3540	259	180	512	102	68-75	G2
PS(L)0105	6,2	600	Δ 460	N	Δ 10,1	3540	259	180	512	103	68-75	G2
PS(L)0106	6,2	600	Δ 460	N	Δ 10,1	3540	259	180	512	107	69-75	G2
PS(L)0107	8,6	670	Δ 460	O	Δ 13,8	3545	259	180	512	120	72-75	G2

PAB

Vertical centrifugal pump

PAB is a pulsation-free delivery of fluid pump well suited to pumping ink. Its open impeller design allows for small particles in the return flow. Adjustable drive power also makes it suitable for high viscosities. Its main applications are printing machines, packagin machines, surface coating, washing/degreasing installations, impregnation and electroplating baths.



Printing
machines /
Packaging
machines



ATEX classification

Pump version in compliance with the 2014/34/EU Directive on ATEX products (Group II, Category 2)

Special design

The pump unit – consisting of the pump housing and flange-type end shield – is connected to the drive only by quick-release locks. This allows the drive to be removed from the pump component without having to disconnect the electrical leads. Cleaning is simpler and faster as a result. All hydraulic parts of the PAB group are compatible with most cleaning methods.

Configuration

Pump and motor have to be considered separately.

Technical data

Flow rate $Q_{\max}$	305 l/min
Total head $H_{\max}$	20 m
Immersion depth $t_{\max}$	440 mm
Kinematic viscosity	1 to 20 mm ² /s
Liquid temperature range	0°C to +60°C
Fluids type	Inks containing solvents, varnishes and oil-based paints, cleaning fluids, etc

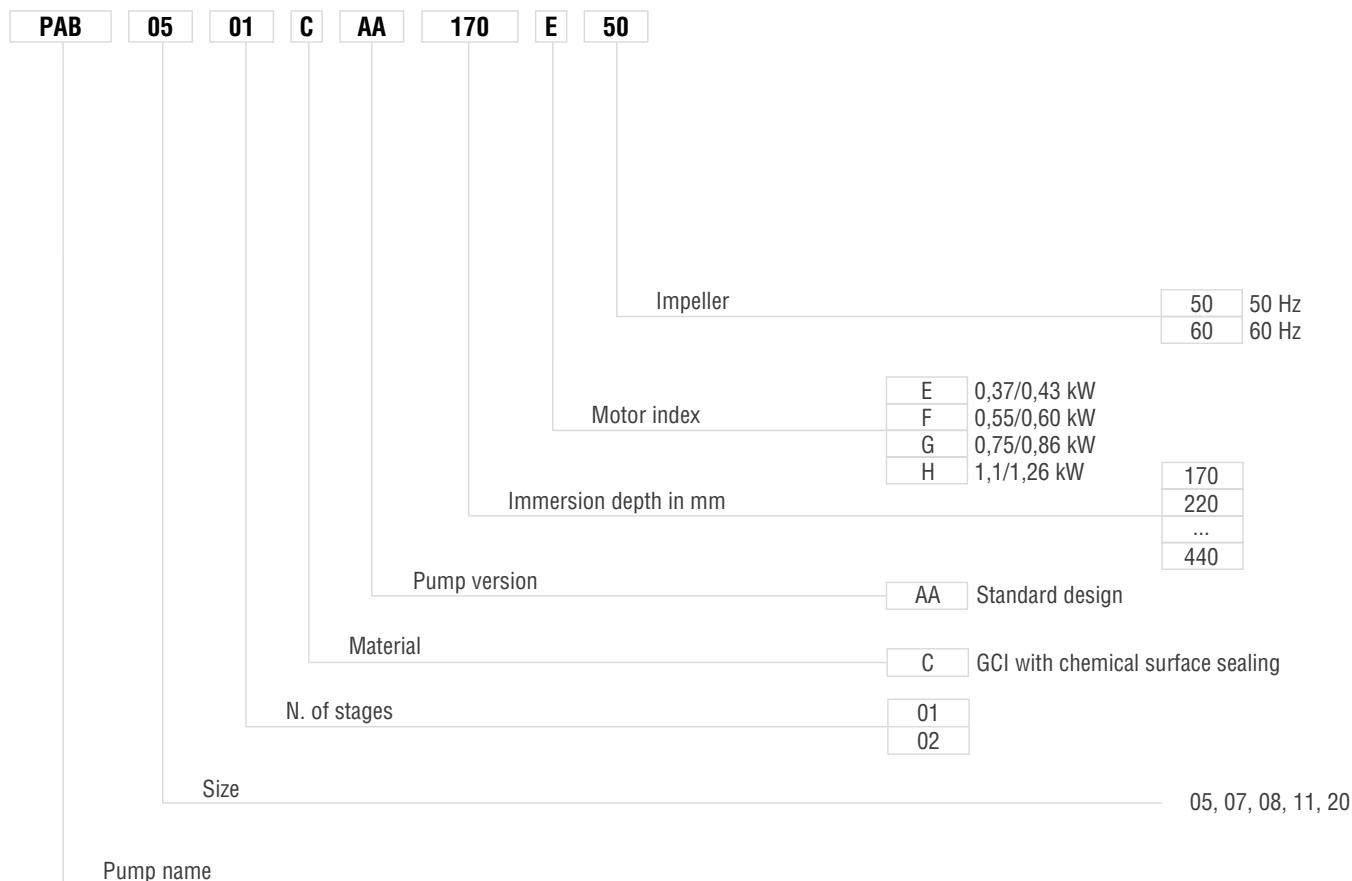
Materials

Motor housing	Aluminium
Upper flange	EN-GJL-175 with chemical surface sealing
Shaft	Stainless steel 1.4122
Impeller	Bronze
Pump bottom	EN-GJL-175 with chemical surface sealing
Rotary shaft seal	PTFE in the - Pump flange - Flange-type end shield under the lower ball bearing - Flange-type end shield over the upper ball bearing

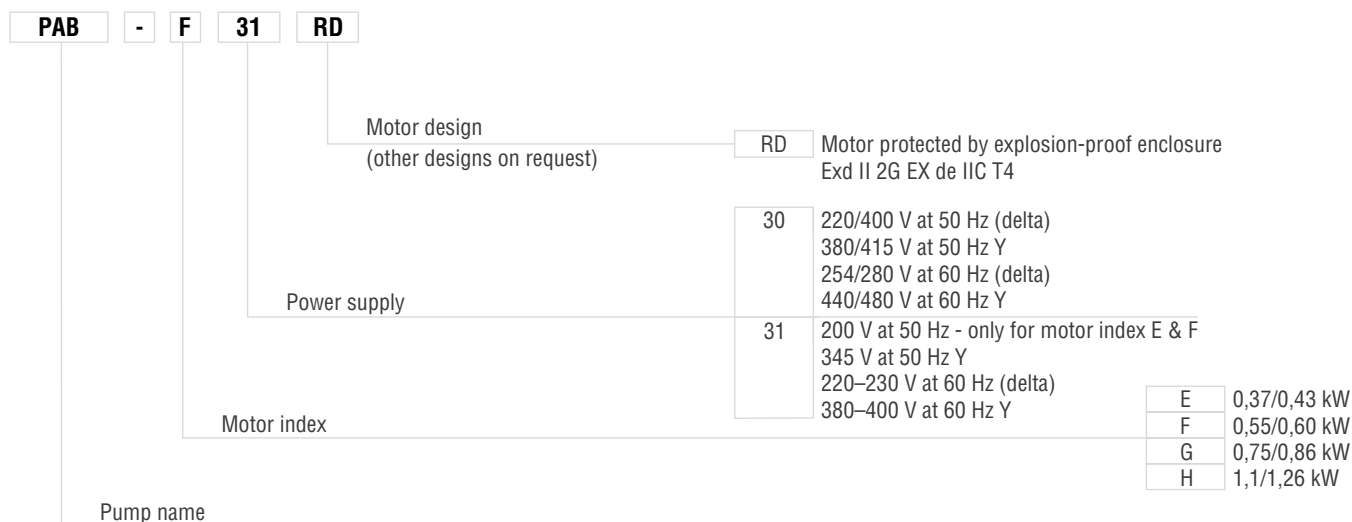
PAB

Vertical centrifugal pump

Identification code - pump



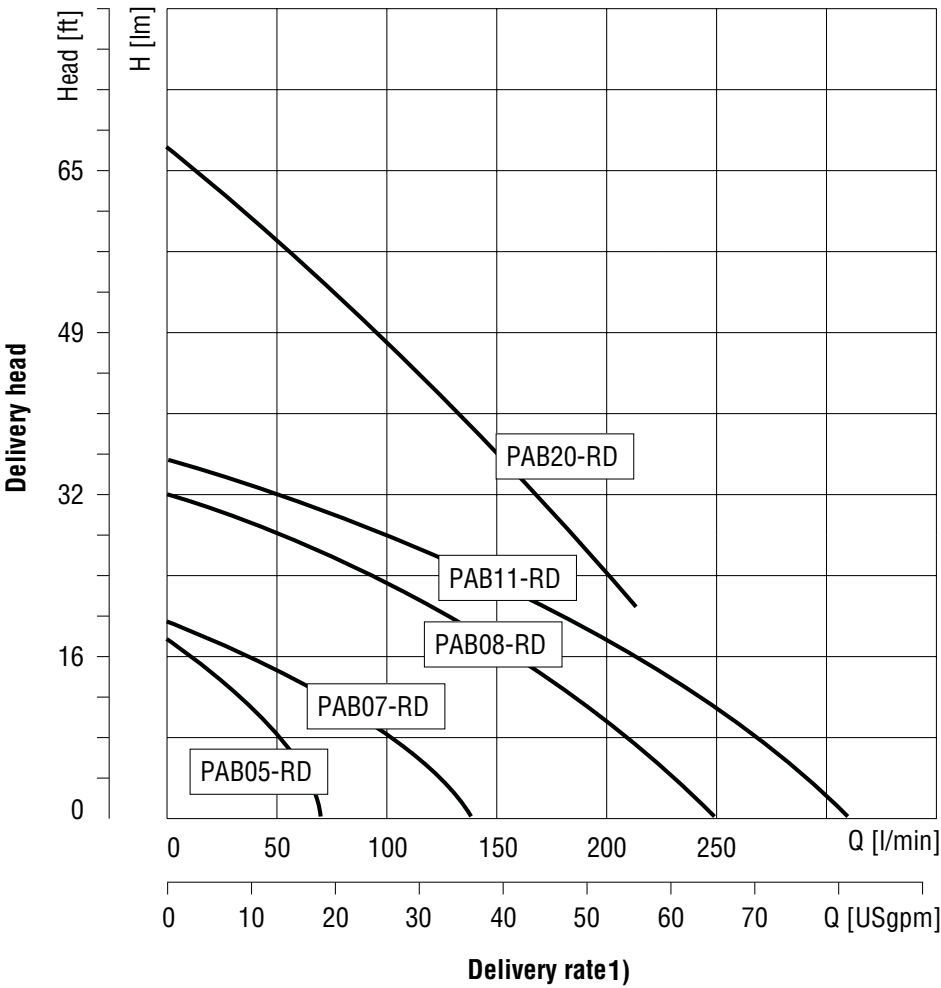
Identification code - motor



PAB

Vertical centrifugal pump

Performance curves PAB

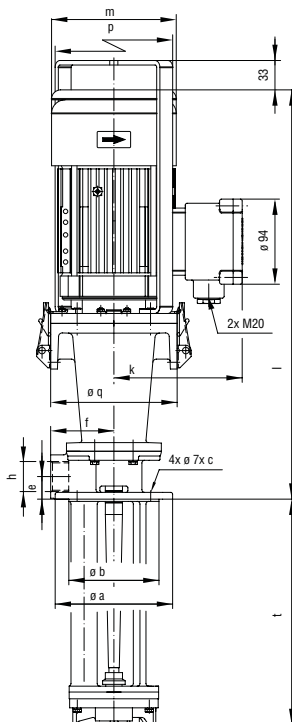


1) Data for viscosity of ~1 mm²/s at a density of ~1 kg/dm³. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PAB

Vertical centrifugal pump

Dimensions PAB



Dimensional tablez PAB(.)

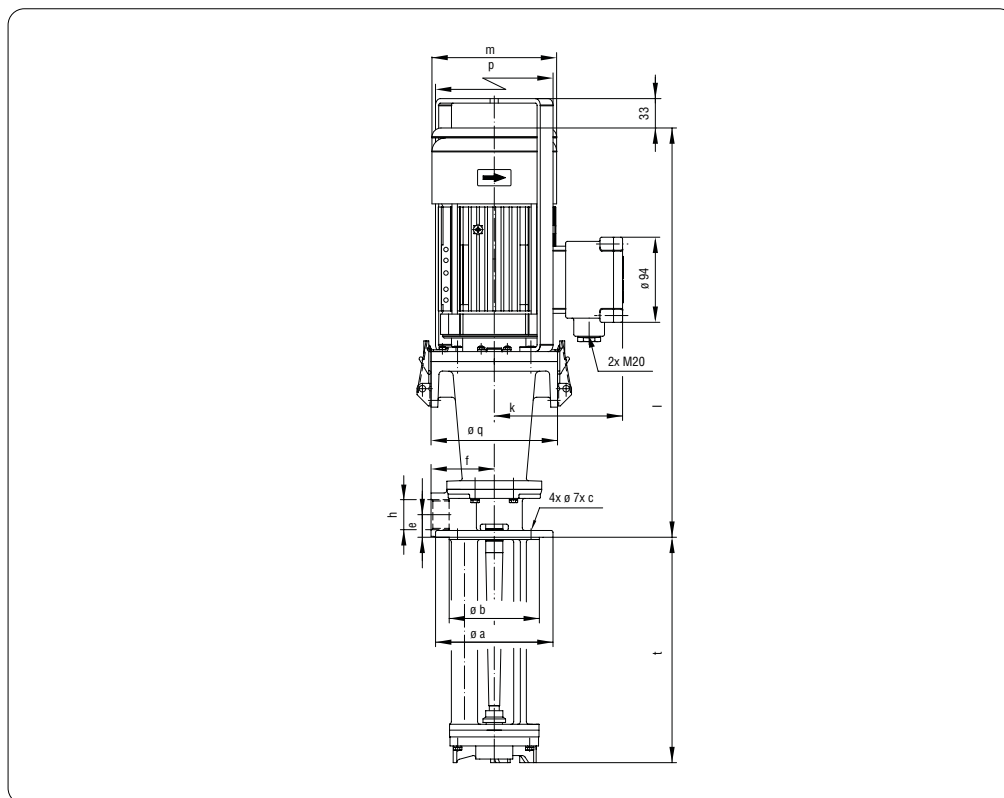
Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]										Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current ΔY_N [A]	Speed n_N [min ⁻¹]	Øm	k	l	Øq	Øa	Øb	Øc	e	f	p			
PAB05	0,37	170	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,37	220	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,37	250	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,37	350	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,37	170	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,37	220	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,37	250	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,37	350	230/400	E	1,6/0,9	2850	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB08	0,55	230	230/400	F	2,6/1,5	2810	138	142	480	160	180	140	160	32	100	164	21-23	63	G1 ¼
PAB08	0,55	270	230/400	F	2,6/1,5	2810	138	142	480	160	180	140	160	32	100	164	21-23	63	G1 ¼
PAB08	0,55	350	230/400	F	2,6/1,5	2810	138	142	480	160	180	140	160	32	100	164	21-23	63	G1 ¼
PAB08	0,55	440	230/400	F	2,6/1,5	2810	138	142	480	160	180	140	160	32	100	164	21-23	63	G1 ¼
PAB11	0,75	230	230/400	G	3,1/1,8	2820	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,75	270	230/400	G	3,1/1,8	2820	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,75	350	230/400	G	3,1/1,8	2820	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,75	440	230/400	G	3,1/1,8	2820	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB20	1,1	270	230/400	H	4,2/2,4	2850	156	151	496	160	180	140	160	32	100	183	29	65	G1 ¼

Pump and motor have to be considered separately.

PAB

Vertical centrifugal pump

Dimensions PAB



Dimensions PAB(.)

Model	kW	Immersion depth t [mm]	Rated motor values				Dimensions [mm]										Weight [kg]	Noise data [dBA]	DNM
			Voltage Δ / Y U [V]	Motor index	Current ΔY_N [A]	Speed n_N [min ⁻¹]	ø m	k	l	ø q	ø a	ø b	ø c	e	f	p			
PAB05	0,43	170	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,43	220	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,43	250	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB05	0,43	350	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,43	170	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,43	220	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,43	250	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB07	0,43	350	265/460	E	1,6/0,9	3280	138	142	450	140	130	100	115	25	70	164	13-14	62,5	G1
PAB08	0,60	230	265/460	F	2,6/1,5	3280	138	142	480	160	180	140	160	32	100	183	21-23	63	G1 ¼
PAB08	0,60	270	265/460	F	2,6/1,5	3280	138	142	480	160	180	140	160	32	100	183	21-23	63	G1 ¼
PAB08	0,60	350	265/460	F	2,6/1,5	3280	138	142	480	160	180	140	160	32	100	183	21-23	63	G1 ¼
PAB08	0,60	440	265/460	F	2,6/1,5	3280	138	142	480	160	180	140	160	32	100	183	21-23	63	G1 ¼
PAB11	0,86	230	265/460	G	3,1/1,8	3280	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,86	270	265/460	G	3,1/1,8	3280	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,86	350	265/460	G	3,1/1,8	3280	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB11	0,86	440	265/460	G	3,1/1,8	3280	156	151	496	160	180	140	160	32	100	183	23-25	63,7	G1 ¼
PAB20	1,26	270	265/460	H	4,2/2,4	3280	156	151	496	160	180	140	160	32	100	183	29	65	G1 ¼

Pump and motor have to be considered separately.

HDZ

Hydrocyclones

HDZ are a centrifugal separators that are used to clean low-viscosity fluids like water and emulsions. They are highly suitable for use in filter-free cleaning installations.



Machine
tools / Filter
systems



Versions

All cyclone parts are made of corrosion-resistant, abrasion-resistant plastic. All the parts can be easily installed/dismantled – without special tools. The working range of the cyclones lies between 1,5 and 2,5 bar of pressure.

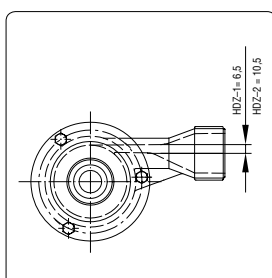
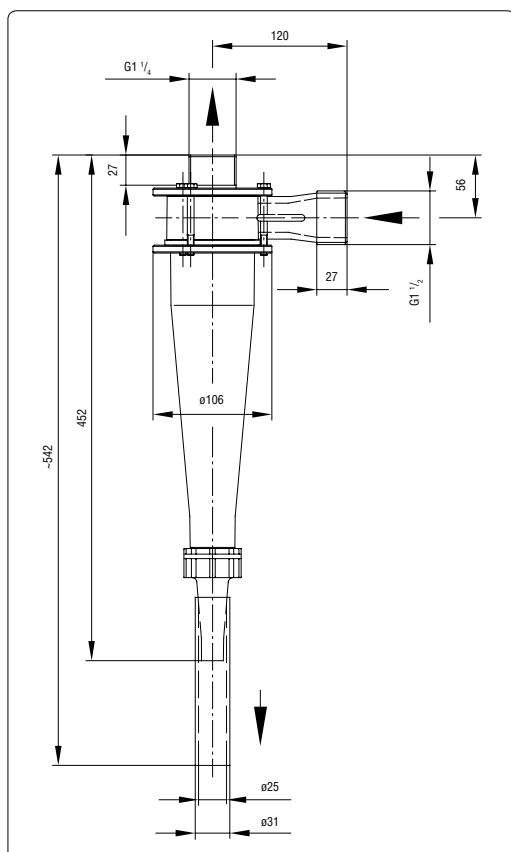
Cyclones come in two grades with respect to their output of clean water:

- *HDZ-1* for rates of 70 l/min and a high degree of purity
- *HDZ-2* for rates of 90 l/min and a lower degree of purity

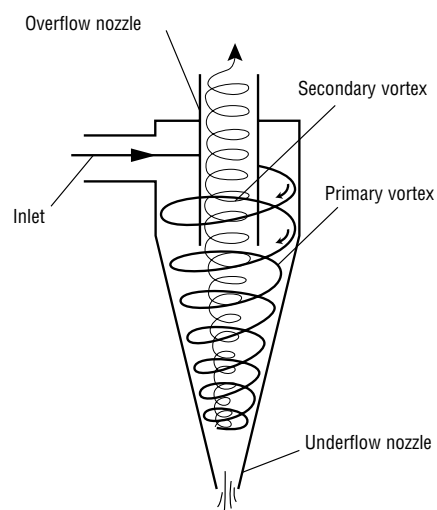
Use-condition

The particles must be of little grain size with greater density than the liquid. The pre condition: the particles have to have a small grain size with a greater density than that of the fluid.

Dimensions HDZ



Operation



Technical Information

Electrical specifications

Introduction

Protection class (DIN EN 60034-5)	IP 54
Temperature class	F (B for high temperature)
Pole pairs	2-pole
Ambient temperature (DIN EN 60034-1)	Max. 40°C At max 1000 above sea level

Electrical parameters

	50 Hz	60 Hz
≤ 4 kW	Δ/Y 230/400 V	Δ/Y 265/460 V
> 4 kW	Δ/Y 400/690 V	Δ 460 V

For 60 Hz frequency, in addition to selection of the corresponding motor winding, the hydraulic properties are adjusted at the factory, for example using smaller impellers.

Except PAB and PR4 pumps, see each product page.

Switching-on frequency

Motors kW	Max duty cycles per hour
≤ 0,55	100
0,75 ÷ 3,0	30
4,0 ÷ 7,5	20
11	15
15 ÷ 45	6

Spandau pumps are designed for continuous duty. If this is not possible due to the process, the pump's constant flow rate can be attained using a regulating valve, for example.

Technical Information

Electrical specifications

Efficiency classification as per DIN EN 60034-30

Motors above 0,12kW clear IE3 and are in accordance with the regulation.

Sound pressure specifications

Sound pressure values can be found in each product section

Frequency converters

Pumps with frequency converters achieve up to 70% energy savings in practice. The controlled speed regulation ensures an effective delivery rate and utilization with lower heat input into the overall system. This reduces the required cooling effort. A pump with an integrated frequency converter improves the process flows of machines and systems:

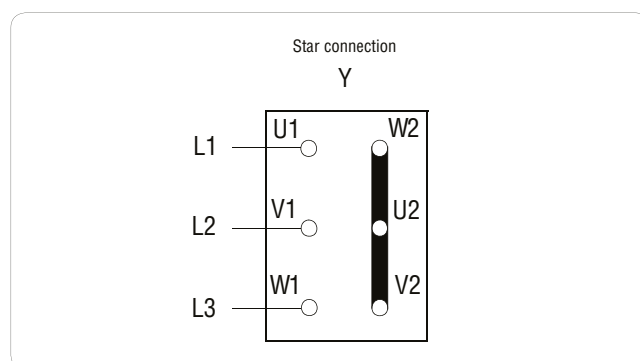
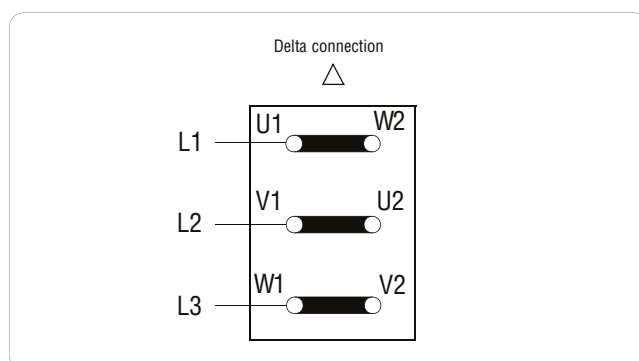
- Optimized adaptation to the respective machining process due to speed regulation
- Gentle start-up due to programmable ramp-up time
- Low level of wear on rotating components
- Low-noise operation

Keep the entire machining process under control with a single frequency-controlled pump:

- Delivery rate can be adjusted precisely to the respective power requirements
- Universal controllability of pump speeds through all pressure ranges

Please contact our sales channels to verify products availability.

Star-delta connection

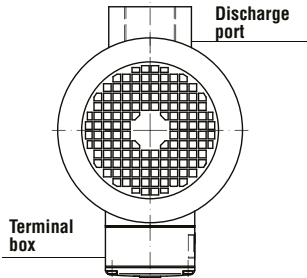
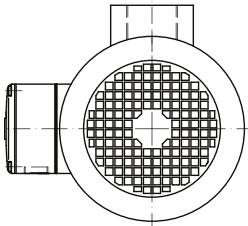
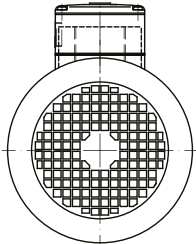
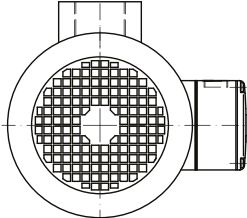


Technical Information

Electrical specifications

Terminal box positions

The position of the terminal box can be selected from the four layouts below.

Pos.	Layout	Note
1		Terminal box position 1: Standard design Terminal box opposite the discharge port
2		Terminal box position 2: Terminal box left of discharge port
3		Terminal box position 3: Terminal box above discharge port
4		Terminal box position 4: Terminal box right of discharge port

Varnishing

Standard: Black RAL 9005

Technical Information

Installation and operation

Centrifugal pumps

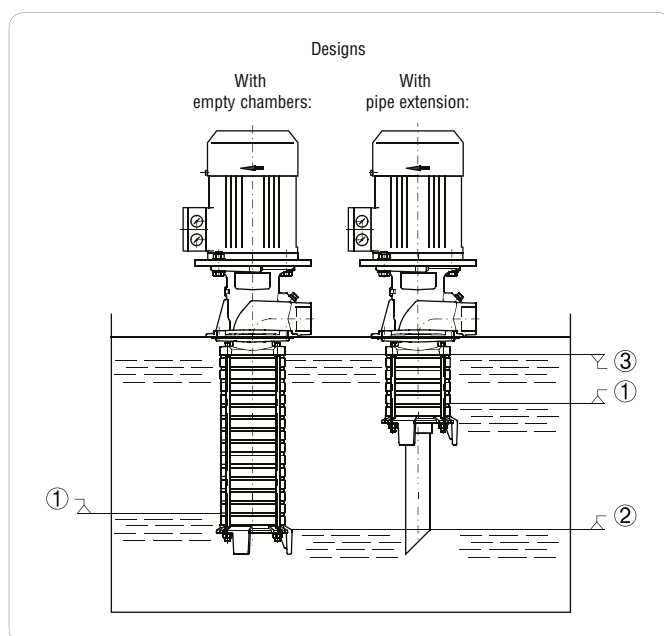
The standard design is suitable for vertical installation in the reservoir.

Spandau immersion pumps can be adapted to various installation conditions by incorporating blind chambers or by adding a pipe extension. When switching on the pump, the minimum fluid level must be above the lowest pump chamber (1).

The pump then feeds up to the intake opening in the chamber or pipe (2).

See the type-specific pump drawings in manuals for the highest permissible fluid level (3).

Note: all devices are only to be installed or mounted by a qualified person. The existing safety measures are to be taken into consideration. Please refer to our operating instructions to avoid errors.



Dry running

The pump must not be put into operation without fluid for pumping. An incorrect direction of rotation and/or dry running can damage the pump. When pumping, the unit can operate without fluid for short periods and under certain circumstances.

A minimum volumetric flow of 5 to 10% of the nominal delivery rate must be ensured.



CODE LIST

Codes PRG(.)

PRG06 Models	50 -60 Hz Codes
PRG0601PBS110A01AA/0,09-0,16	1260800073
PRG0601PBS130A01AA/0,09-0,16	1260800074
PRG0601PBS160A01AA/0,09-0,16	1260800005
PRG0601PBS210A01AA/0,09-0,16	1260800075
PRG0601PBS260A01AA/0,09-0,16	1260800008
PRG0602PBS140B01CA/0,12-0,146	1260800076E
PRG0602PBS160B01CA/0,12-0,146	1260800077E
PRG0602PBS190B01CA/0,12-0,146	1260800078E
PRG0602PBS240B01CA/0,12-0,146	1260800079E
PRG0602PBS290B01CA/0,12-0,146	1260800080E
PRG0603PBS170C01CA/0,18-0,216	1260800081E
PRG0603PBS190C01CA/0,18-0,216	1260800082E
PRG0603PBS220C01CA/0,18-0,216	1260800083E
PRG0603PBS270C01CA/0,18-0,216	1260800084E
PRG0603PBS320C01CA/0,18-0,216	1260800085E
PRG0604PBS200E01CA/0,37-0,426	1260800086E
PRG0604PBS220E01CA/0,37-0,426	1260800087E
PRG0604PBS250E01CA/0,37-0,426	1260800088E
PRG0604PBS300E01CA/0,37-0,426	1260800089E

CODE LIST

Codes PRA(.)

PRA 03 Models	50 -60 Hz Codes
PRA0301PBS090C01CA/0,18-0,216	1260700397E
PRA0301PBS120C01CA/0,18-0,216	1260700398E
PRA0301PBS140C01CA/0,18-0,216	1260700399E
PRA0301PBS170C01CA/0,18-0,216	1260700400E
PRA0301PBS220C01CA/0,18-0,216	1260700401E
PRA0301PBS270C01CA/0,18-0,216	1260700402E

PRA 02 Models	50 -60 Hz Codes
PRA0201PBS090D01CA/0,25-0,296	1260700368E
PRA0201PBS120D01CA/0,25-0,296	1260700369E
PRA0201PBS140D01CA/0,25-0,296	1260700370E
PRA0201PBS170D01CA/0,25-0,296	1260700371E
PRA0201PBS220D01CA/0,25-0,296	1260700372E
PRA0201PBS270D01CA/0,25-0,296	1260700373E
PRA0202PBS130E01CA/0,37-0,426	1260700374E
PRA0202PBS160E01CA/0,37-0,426	1260700375E
PRA0202PBS180E01CA/0,37-0,426	1260700376E
PRA0202PBS210E01CA/0,37-0,426	1260700377E
PRA0202PBS260E01CA/0,37-0,426	1260700378E
PRA0202PBS310E01CA/0,37-0,426	1260700379E
PRA0203PBS170E01CA/0,37-0,426	1260700380E
PRA0203PBS200E01CA/0,37-0,426	1260700381E
PRA0203PBS220E01CA/0,37-0,426	1260700382E
PRA0203PBS250E01CA/0,37-0,426	1260700383E
PRA0203PBS300E01CA/0,37-0,426	1260700384E
PRA0203PBS350E01CA/0,37-0,426	1260700385E
PRA0204PBS200G01CA/0,63-0,756	1260700386E
PRA0204PBS230G01CA/0,63-0,756	1260700387E
PRA0204PBS250G01CA/0,63-0,756	1260700388E
PRA0204PBS280G01CA/0,63-0,756	1260700389E
PRA0204PBS330G01CA/0,63-0,756	1260700390E
PRA0204PBS450G01CA/0,63-0,756	1260700391E
PRA0205PBS240H01CA/1,1-1,266	1260700392E
PRA0205PBS270H01CA/1,1-1,266	1260700393E
PRA0205PBS290H01CA/1,1-1,266	1260700394E
PRA0205PBS320H01CA/1,1-1,266	1260700395E
PRA0205PBS450H01CA/1,1-1,266	1260700396E

PRA 01 Models	50 Hz Codes
PRA0101PBS090C05CA/0,18	1260700339E
PRA0101PBS120C05CA/0,18	1260700340E
PRA0101PBS140C05CA/0,18	1260700341E
PRA0101PBS170C05CA/0,18	1260700342E
PRA0101PBS220C05CA/0,18	1260700343E
PRA0101PBS270C05CA/0,18	1260700344E
PRA0102PBS130E05CA/0,37	1260700345E
PRA0102PBS160E05CA/0,37	1260700346E
PRA0102PBS180E05CA/0,37	1260700347E
PRA0102PBS210E05CA/0,37	1260700348E
PRA0102PBS260E05CA/0,37	1260700349E
PRA0102PBS310E05CA/0,37	1260700350E
PRA0103PBS170E05CA/0,37	1260700351E
PRA0103PBS200E05CA/0,37	1260700352E
PRA0103PBS220E05CA/0,37	1260700353E
PRA0103PBS250E05CA/0,37	1260700354E
PRA0103PBS300E05CA/0,37	1260700355E
PRA0103PBS350E05CA/0,37	1260700356E
PRA0104PBS200G05CA/0,63	1260700357E
PRA0104PBS230G05CA/0,63	1260700358E
PRA0104PBS250G05CA/0,63	1260700359E
PRA0104PBS280G05CA/0,63	1260700360E
PRA0104PBS330G05CA/0,63	1260700361E
PRA0104PBS450G05CA/0,63	1260700362E
PRA0105PBS240G05CA/0,75	1260700363E
PRA0105PBS270G05CA/0,75	1260700364E
PRA0105PBS290G05CA/0,75	1260700365E
PRA0105PBS320G05CA/0,75	1260700366E
PRA0105PBS450G05CA/0,75	1260700367E

CODE LIST

Codes PRK(.)

PRK Models	50 Hz Codes
PRK0301PBS090D05CA/0,25	1260900160I
PRK0301PBS120D05CA/0,25	1260900161I
PRK0301PBS150D05CA/0,25	1260900162I
PRK0301PBS180D05CA/0,25	1260900163I
PRK0301PBS210D05CA/0,25	1260900164I
PRK0301PBS240D05CA/0,25	1260900165I
PRK0301PBS270D05CA/0,25	1260900166I
PRK0302PBS125E05CA/0,37	1260900167I
PRK0302PBS155E05CA/0,37	1260900168I
PRK0302PBS185E05CA/0,37	1260900169I
PRK0302PBS215E05CA/0,37	1260900170I
PRK0302PBS245E05CA/0,37	1260900171I
PRK0302PBS275E05CA/0,37	1260900172I
PRK0302PBS305E05CA/0,37	1260900173I
PRK0303PBS160F05CA/0,55	1260900174I
PRK0303PBS190F05CA/0,55	1260900175I
PRK0303PBS220F05CA/0,55	1260900176I
PRK0303PBS250F05CA/0,55	1260900177I
PRK0303PBS280F05CA/0,55	1260900178I
PRK0303PBS310F05CA/0,55	1260900179I
PRK0303PBS340F05CA/0,55	1260900180I

PRK Models	50 Hz Codes
PRK0304PBS195G05CA/0,63	1260900113I
PRK0304PBS225G05CA/0,63	1260900115I
PRK0304PBS255G05CA/0,63	1260900117I
PRK0304PBS285G05CA/0,63	1260900119I
PRK0304PBS315G05CA/0,63	1260900121I
PRK0304PBS345G05CA/0,63	1260900123I
PRK0304PBS375G05CA/0,63	1260900124I
PRK0305PBS230H05CA/1,1	1260900181I
PRK0305PBS260H05CA/1,1	1260900182I
PRK0305PBS290H05CA/1,1	1260900183I
PRK0305PBS320H05CA/1,1	1260900184I
PRK0305PBS350H05CA/1,1	1260900185I
PRK0305PBS380H05CA/1,1	1260900186I
PRK0305PBS410H05CA/1,1	1260900187I

PRK Models	60 Hz Codes
PRK0301PBS090E01CA/0,25-0,426	1260900137I
PRK0301PBS120E01CA/0,25-0,426	1260900138I
PRK0301PBS150E01CA/0,25-0,426	1260900139I
PRK0301PBS180E01CA/0,25-0,426	1260900140I
PRK0301PBS210E01CA/0,25-0,426	1260900141I
PRK0301PBS240E01CA/0,25-0,426	1260900142I
PRK0301PBS270E01CA/0,25-0,426	1260900143I
PRK0302PBS125F01CA/0,37-0,626	1260900144I
PRK0302PBS155F01CA/0,37-0,626	1260900145I
PRK0302PBS185F01CA/0,37-0,626	1260900146I
PRK0302PBS215F01CA/0,37-0,626	1260900147I
PRK0302PBS245F01CA/0,37-0,626	1260900148I
PRK0302PBS275F01CA/0,37-0,626	1260900149I
PRK0302PBS305F01CA/0,37-0,626	1260900150I
PRK0303PBS160G01CA/0,63-1,266	1260900095I
PRK0303PBS190G01CA/0,63-1,266	1260900151I
PRK0303PBS220G01CA/0,63-1,266	1260900100I
PRK0303PBS250G01CA/0,63-1,266	1260900152I
PRK0303PBS280G01CA/0,63-1,266	1260900104I
PRK0303PBS310G01CA/0,63-1,266	1260900107I
PRK0303PBS340G01CA/0,63-1,266	1260900109I

PRK Models	60 Hz Codes
PRK0304PBS195H01CA/0,63-1,266	1260900153I
PRK0304PBS225H01CA/0,63-1,266	1260900154I
PRK0304PBS255H01CA/0,63-1,266	1260900155I
PRK0304PBS285H01CA/0,63-1,266	1260900156I
PRK0304PBS315H01CA/0,63-1,266	1260900157I
PRK0304PBS345H01CA/0,63-1,266	1260900158I
PRK0304PBS375H01CA/0,63-1,266	1260900159I

CODE LIST

Codes PSR(.)

PSR 01		50 Hz		PSR 03		50 Hz	
Models		Codes		Models		Codes	
PSR0102GBS141E05CA/0,37		1260200452E		PSR0302GBS141E05CA/0,37		1260200477E	
PSR0103GBS162E05CA/0,37		1260200453E		PSR0303GBS162E05CA/0,37		1260200478E	
PSR0104GBS183E05CA/0,37		1260200454E		PSR0304GBS183E05CA/0,37		1260200479E	
PSR0105GBS204E05CA/0,37		1260200455E		PSR0305GBS204F05CA/0,55		1260200480E	
PSR0106GBS225E05CA/0,37		1260200456E		PSR0306GBS225F05CA/0,55		1260200481E	
PSR0107GBS246E05CA/0,37		1260200457E		PSR0307GBS246G05CA/0,75		1260200482I	
PSR0108GBS267E05CA/0,37		1260200458E		PSR0308GBS267G05CA/0,75		1260200483I	
PSR0109GBS288F05CA/0,55		1260200459E		PSR0309GBS288H05CA/1,1		1260200484I	
PSR0110GBS309F05CA/0,55		1260200460E		PSR0310GBS309H05CA/1,1		1260200485I	
PSR0111GBS330F05CA/0,55		1260200461E		PSR0311GBS330H05CA/1,1		1260200486I	
PSR0112GBS351F05CA/0,55		1260200462E		PSR0312GBS351H05CA/1,1		1260200487I	
PSR0113GBS372F05CA/0,75		1260200463E		PSR0313GBS372J05CA/1,5		1260200488I	
PSR0115GBS414G05CA/0,75		1260200464I		PSR0314GBS393J05CA/1,5		1260200489I	
PSR0117GBS456H05CA/1,1		1260200465I		PSR0316GBS435J05CA/1,5		1260200490I	
PSR0119GBS498H05CA/1,1		1260200466I		PSR0317GBS456K05CA/2,2		1260200491I	
PSR0121GBS540H05CA/1,1		1260200467I		PSR0319GBS498K05CA/2,2		1260200492I	
PSR0122GBS561H05CA/1,1		1260200468I		PSR0320GBS519K05CA/2,2		1260200493I	
PSR0124GBS603H05CA/1,1		1260200469I		PSR0321GGS540K05CA/2,2		1260200494I	
PSR0126GGS645H05CA/1,1		1260200470I		PSR0323GGS582K05CA/2,2		1260200495I	
PSR0127GGS666J05CA/1,5		1260200471I		PSR0325GGS624L05CA/3		1260200496I	
PSR0128GGS687J05CA/1,5		1260200472I		PSR0327GGS666L05CA/3		1260200497I	
PSR0131GGS750J05CA/1,5		1260200473I		PSR0330GGS729L05CA/3		1260200498I	
PSR0133GGS792J05CA/1,5		1260200474I		PSR0331GGS750L05CA/3		1260200499I	
PSR0134GGS813J05CA/1,5		1260200475I		PSR0333GGS792L05CA/3		1260200500I	
PSR0137GGS876K05CA/2,2		1260200476I					

PSR 05		50 Hz		PSR 10		50 Hz	
Models		Codes		Models		Codes	
PSR0502GBS162E05CA/0,37		1260200501E		PSR1002GBS196G05CA/0,75		1260200522I	
PSR0503GBS190F05CA/0,55		1260200502E		PSR1003GBS226J05CA/1,5		1260200523I	
PSR0504GBS218G05CA/0,75		1260200503I		PSR1004GBS256K05CA/2,2		1260200524I	
PSR0505GBS246H05CA/1,1		1260200504I		PSR1005GBS286K05CA/2,2		1260200525I	
PSR0506GBS274J05CA/1,5		1260200505I		PSR1006GBS316K05CA/2,2		1260200526I	
PSR0507GBS302J05CA/1,5		1260200506I		PSR1007GBS346L05CA/3		1260200527I	
PSR0508GBS330K05CA/2,2		1260200507I		PSR1008GBS376L05CA/3		1260200528I	
PSR0509GBS358K05CA/2,2		1260200508I		PSR1009GBS406M05CA/4		1260200529I	
PSR0510GBS386K05CA/2,2		1260200509I		PSR1010GBS436M05CA/4		1260200530I	
PSR0511GBS414K05CA/2,2		1260200510I		PSR1011GBS466M05CA/4		1260200531I	
PSR0512GBS442L05CA/3		1260200511I		PSR1012GBS496N05CA/5,5		1260200532I	
PSR0513GBS470L05CA/3		1260200512I		PSR1013GBS525N05CA/5,5		1260200533I	
PSR0514GBS498L05CA/3		1260200513I		PSR1014GGS556N05CA/5,5		1260200534I	
PSR0515GBS526L05CA/3		1260200514I		PSR1015GGS586N05CA/5,5		1260200535I	
PSR0516GGS554M05CA/4		1260200515I		PSR1016GGS616O05CA/7,5		1260200536I	
PSR0517GGS582M05CA/4		1260200516I		PSR1018GGS676O05CA/7,5		1260200537I	
PSR0519GGS638M05CA/4		1260200517I		PSR1019GGS706O05CA/7,5		1260200538I	
PSR0520GGS666M05CA/4		1260200518I		PSR1021GGS766O05CA/7,5		1260200539I	
PSR0523GGS750N05CA/5,5		1260200519I		PSR1022GGS796P05CA/11		1260200540I	
PSR0525GGS806N05CA/5,5		1260200520I		PSR1023GGS826P05CA/11		1260200541I	
PSR0527GGS862N05CA/5,5		1260200521I					

CODE LIST

Codes PSR(.)

PSR 15	50 Hz
Models	Codes
PSR1501GBS226H05CA/1,1	1260200542I
PSR1502GBS226K05CA/2,2	1260200543I
PSR1503GBS266L05CA/3	1260200544I
PSR1504GBS306M05CA/4	1260200545I
PSR1505GBS346N05CA/5,5	1260200546I
PSR1506GBS386N05CA/5,5	1260200547I
PSR1507GBS426O05CA/7,5	1260200548I
PSR1508GBS466O05CA/7,5	1260200549I
PSR1509GBS506P05CA/11	1260200550I
PSR1510GBS546P05CA/11	1260200551I
PSR1511GBS586P05CA/11	1260200552I
PSR1513GBS666P05CA/11	1260200553I
PSR1515GBS746Q05CA/15	1260200554I
PSR1517GBS826Q05CA/15	1260200555I

PSR 01	60 Hz
Models	Codes
PSR0102GBS141E06CA/0,376	1260201388E
PSR0103GBS162E06CA/0,376	1260201389E
PSR0104GBS183E06CA/0,376	1260201390E
PSR0105GBS204E06CA/0,376	1260201391E
PSR0106GBS225F06CA/0,556	1260201392E
PSR0107GBS246F06CA/0,556	1260201393E
PSR0108GBS267G06CA/0,756	1260201394I
PSR0109GBS288G06CA/0,756	1260201395I
PSR0110GBS309G06CA/0,756	1260201396I
PSR0111GBS330H06CA/1,16	1260201397I
PSR0112GBS351H06CA/1,16	1260201398I
PSR0113GBS372H06CA/1,16	1260201399I
PSR0115GBS414J06CA/1,56	1260201400I
PSR0117GBS456J06CA/1,56	1260201401I
PSR0119GBS498J06CA/1,56	1260201402I
PSR0121GBS540K06CA/2,26	1260201403I
PSR0122GBS561K06CA/2,26	1260201404I
PSR0124GBS603K06CA/2,26	1260201405I
PSR0126GBS645K06CA/2,26	1260201406I
PSR0127GBS666K06CA/2,26	1260201407I
PSR0128GBS687K06CA/2,26	1260201408I

PSR 03	60 Hz
Models	Codes
PSR0302GBS141E06CA/0,376	1260201409E
PSR0303GBS162F06CA/0,556	1260201410E
PSR0304GBS183G06CA/0,756	1260201411I
PSR0305GBS204G06CA/0,756	1260201412I
PSR0306GBS225H06CA/1,16	1260201413I
PSR0307GBS246H06CA/1,16	1260201414I
PSR0308GBS267J06CA/1,56	1260201415I
PSR0309GBS288J06CA/1,56	1260201416I
PSR0310GBS309J06CA/1,56	1260201417I
PSR0311GBS330K06CA/2,26	1260201418I
PSR0312GBS351K06CA/2,26	1260201419I
PSR0313GBS372K06CA/2,26	1260201420I
PSR0314GBS393K06CA/2,26	1260201421I
PSR0315GBS414L06CA/36	1260201422I
PSR0317GBS456L06CA/36	1260201423I
PSR0319GBS498L06CA/36	1260201424I
PSR0320GBS519L06CA/36	1260201425I
PSR0321GBS540M06CA/46	1260201426I
PSR0323GBS582M06CA/46	1260201427I

CODE LIST

Codes PSR(.)

PSR 05 Models	60 Hz Codes
PSR0502GBS162G06CA/0,756	1260201428I
PSR0503GBS190H06CA/1,16	1260201429I
PSR0504GBS218J06CA/1,56	1260201430I
PSR0505GBS246K06CA/2,26	1260201431I
PSR0506GBS274K06CA/2,26	1260201432I
PSR0507GBS302L06CA/36	1260201433I
PSR0508GBS330L06CA/36	1260201434I
PSR0509GBS358L06CA/36	1260201435I
PSR0510GBS386M06CA/46	1260201436I
PSR0511GBS414M06CA/46	1260201437I
PSR0512GBS442M06CA/46	1260201438I
PSR0513GBS470N06CA/5,56	1260201439I
PSR0514GBS498N06CA/5,56	1260201440I
PSR0515GBS526N06CA/5,56	1260201441I
PSR0516GBS554N06CA/5,56	1260201442I
PSR0519GBS638O06CA/7,56	1260201443I

PSR 10 Models	60 Hz Codes
PSR1001GBS196G06CA/0,756	1260201444I
PSR1002GBS196J06CA/1,56	1260201445I
PSR1003GBS226K06CA/2,26	1260201446I
PSR1004GBS256L06CA/36	1260201447I
PSR1005GBS286M06CA/46	1260201448I
PSR1006GBS316M06CA/46	1260201449I
PSR1007GBS346N06CA/5,56	1260201450I
PSR1008GBS376N06CA/5,56	1260201451I
PSR1009GBS406N06CA/5,56	1260201452I
PSR1010GBS436O06CA/7,56	1260201453I
PSR1011GBS466O06CA/7,56	1260201454I
PSR1012GBS496O06CA/7,56	1260201455I
PSR1014GBS556P06CA/116	1260201456I
PSR1015GBS586P06CA/116	1260201457I
PSR1016GBS616P06CA/116	1260201458I

PSR 15 Models	60 Hz Codes
PSR1501GBS226J06CA/1,56	1260201459I
PSR1502GBS226L06CA/36	1260201460I
PSR1503GBS266N06CA/5,56	1260201461I
PSR1504GBS306O06CA/7,56	1260201462I
PSR1505GBS346O06CA/7,56	1260201463I
PSR1506GBS386P06CA/116	1260201464I
PSR1507GBS426P06CA/116	1260201465I
PSR1508GBS466Q06CA/156	1260201466I
PSR1509GBS506Q06CA/156	1260201467I
PSR1510GBS546Q06CA/156	1260201468I
PSR1511GBS586R06CA/18,56	1260201469I
PSR1512GBS626R06CA/18,56	1260201470I

CODE LIST

Codes PR4(.)

PR4 Models	50 Hz Codes	PR4 Models	60 Hz Codes
PR4-90+140/0,05	1260600021	PR4-90+640/0,056	1260600029
PR4-120+140/0,05	1260600006	PR4-120+640/0,056	1260600008

Codes PMS(.)

PMS 05 Models	50 Hz Codes	PMS 06 Models	50 Hz Codes
PMS0501PBS090A05AA/0,09	1260500028	PMS0601PBS090A05AA/0,09	1260500050
PMS0501PBS120A05AA/0,09	1260500029	PMS0601PBS120A05AA/0,09	1260500053
PMS0501PBS140A05AA/0,09	1260500030	PMS0601PBS140A05AA/0,09	1260500054
PMS0501PBS170A05AA/0,09	1260500032	PMS0601PBS170A05AA/0,09	1260500055
PMS0501PBS200A05AA/0,09	1260500034	PMS0601PBS200A05AA/0,09	1260500056
PMS0501PBS220A05AA/0,09	1260500035	PMS0601PBS220A05AA/0,09	1260500058
PMS0501PBS250A05AA/0,09	1260500036	PMS0601PBS250A05AA/0,09	1260500060
PMS0501PBS270A05AA/0,09	1260500037	PMS0601PBS270A05AA/0,09	1260500061
PMS0501PBS350A05AA/0,09	1260500038	PMS0601PBS350A05AA/0,09	1260500064

PMS 08 Models	50 Hz Codes	PMS 10 Models	50 Hz Codes
PMS0801PBS120B05CA/0,12	1260500580E	PMS1001PBS090C05CA/0,18	1260500586E
PMS0801PBS170B05CA/0,12	1260500581E	PMS1001PBS120C05CA/0,18	1260500587E
PMS0801PBS220B05CA/0,12	1260500582E	PMS1001PBS140C05CA/0,18	1260500588E
PMS0801PBS250B05CA/0,12	1260500583E	PMS1001PBS170C05CA/0,18	1260500589E
PMS0801PBS270B05CA/0,12	1260500584E	PMS1001PBS200C05CA/0,18	1260500590E
PMS0801PBS350B05CA/0,12	1260500585E	PMS1001PBS220C05CA/0,18	1260500591E
		PMS1001PBS250C05CA/0,18	1260500592E
		PMS1001PBS270C05CA/0,18	1260500593E
		PMS1001PBS350C05CA/0,18	1260500594E

PMS 25 Models	50 Hz Codes	PMS 30 Models	50 Hz Codes
PMS2501PBS170F05CA/0,55	1260500595E	PMS3001PBS170G05CA/0,75	1260500301E
PMS2501PBS200F05CA/0,55	1260500596E	PMS3001PBS200G05CA/0,75	1260500302E
PMS2501PBS270F05CA/0,55	1260500597E	PMS3001PBS270G05CA/0,75	1260500305E
PMS2501PBS350F05CA/0,55	1260500598E	PMS3001PBS350G05CA/0,75	1260500306E
PMS2501PBS440F05CA/0,55	1260500599E	PMS3001PBS440G05CA/0,75	1260500308E
PMS2501PBS550F05CA/0,55	1260500600E	PMS3001PBS550G05CA/0,75	1260500309E
PMS2502PBS270J05CA/1,5	1260500265I		
PMS2502PBS310J05CA/1,5	1260500266I		
PMS2502PBS350J05CA/1,5	1260500267I		
PMS2502PBS390J05CA/1,5	1260500269I		
PMS2502PBS480J05CA/1,5	1260500270I		
PMS2503PBS310J05CA/1,5	1260500275I		
PMS2503PBS350J05CA/1,5	1260500277I		
PMS2503PBS390J05CA/1,5	1260500279I		
PMS2503PBS430J05CA/1,5	1260500601I		
PMS2504PBS350L05CA/3	1260500285I		

PMS 40 Models	50 Hz Codes
PMS4001GBS210J05CA/1,5*	1260500336I
PMS4001GBS240J05CA/1,5*	1260500337I
PMS4001GBS280J05CA/1,5*	1260500338I
PMS4001GBS320J05CA/1,5*	1260500705I
PMS4001GBS360J05CA/1,5*	1260500340I
PMS4001GBS560J05CA/1,5*	1260500342I

* G version in gray cast iron

CODE LIST

Codes PMS(.)

PMS 05 Models	60 Hz Codes
PMS0501PBS090A06AA/0,096	1260500766
PMS0501PBS120A06AA/0,096	1260500767
PMS0501PBS140A06AA/0,096	1260500768
PMS0501PBS170A06AA/0,096	1260500769
PMS0501PBS200A06AA/0,096	1260500770
PMS0501PBS220A06AA/0,096	1260500771
PMS0501PBS250A06AA/0,096	1260500772
PMS0501PBS270A06AA/0,096	1260500773
PMS0501PBS350A06AA/0,096	1260500774

PMS 08 Models	60 Hz Codes
PMS0801PBS120B06CA/0,126	1260500784E
PMS0801PBS170B06CA/0,126	1260500785E
PMS0801PBS220B06CA/0,126	1260500786E
PMS0801PBS250B06CA/0,126	1260500787E
PMS0801PBS270B06CA/0,126	1260500788E
PMS0801PBS350B06CA/0,126	1260500789E

PMS 25 Models	60 Hz Codes
PMS2501PBS170F06CA/0,556	1260500799E
PMS2501PBS200F06CA/0,556	1260500800E
PMS2501PBS270F06CA/0,556	1260500801E
PMS2501PBS350F06CA/0,556	1260500802E
PMS2501PBS440F06CA/0,556	1260500803E
PMS2501PBS550F06CA/0,556	1260500804E
PMS2502PBS270J06CA/1,56	1260500805I
PMS2502PBS310J06CA/1,56	1260500806I
PMS2502PBS350J06CA/1,56	1260500807I
PMS2502PBS390J06CA/1,56	1260500808I
PMS2502PBS480J06CA/1,56	1260500809I
PMS2503PBS310J06CA/1,56	1260500810I
PMS2503PBS350J06CA/1,56	1260500811I
PMS2503PBS390J06CA/1,56	1260500812I
PMS2503PBS430J06CA/1,56	1260500813I
PMS2504PBS350L06CA/36	1260500814I

PMS 40 Models	60 Hz Codes
PMS4001GBS210J06CA/1,56*	1260500821I
PMS4001GBS240J06CA/1,56*	1260500822I
PMS4001GBS280J06CA/1,56*	1260500823I
PMS4001GBS320J06CA/1,56*	1260500824I
PMS4001GBS360J06CA/1,56*	1260500825I
PMS4001GBS560J06CA/1,56*	1260500826I

* G version in gray cast iron

PMS 06 Models	60 Hz Codes
PMS0601PBS090A06AA/0,096	1260500775
PMS0601PBS120A06AA/0,096	1260500776
PMS0601PBS140A06AA/0,096	1260500777
PMS0601PBS170A06AA/0,096	1260500778
PMS0601PBS200A06AA/0,096	1260500779
PMS0601PBS220A06AA/0,096	1260500780
PMS0601PBS250A06AA/0,096	1260500781
PMS0601PBS270A06AA/0,096	1260500782
PMS0601PBS350A06AA/0,096	1260500783

PMS 10 Models	60 Hz Codes
PMS1001PBS090C06CA/0,216	1260500790E
PMS1001PBS120C06CA/0,216	1260500791E
PMS1001PBS140C06CA/0,216	1260500792E
PMS1001PBS170C06CA/0,216	1260500793E
PMS1001PBS200C06CA/0,216	1260500794E
PMS1001PBS220C06CA/0,216	1260500795E
PMS1001PBS250C06CA/0,216	1260500796E
PMS1001PBS270C06CA/0,216	1260500797E
PMS1001PBS350C06CA/0,216	1260500798E

PMS 30 Models	60 Hz Codes
PMS3001PBS170G06CA/0,756	1260500815E
PMS3001PBS200G06CA/0,756	1260500816E
PMS3001PBS270G06CA/0,756	1260500817E
PMS3001PBS350G06CA/0,756	1260500818E
PMS3001PBS440G06CA/0,756	1260500819E
PMS3001PBS550G06CA/0,756	1260500820E

CODE LIST

Codes PS(.) - PSL(.)

PS 01	50 Hz
Models	Codes
PS-0101GBS250H05CA/1,1	1260100125I
PS-0101GBS320H05CA/1,1	1260100126I
PS-0101GBS450H05CA/1,1	1260100127I
PS-0101GBS550H05CA/1,1	1260100128I
PS-0102GBS320K05CA/2,2	1260100015I
PS-0102GBS390K05CA/2,2	1260100019I
PS-0102GBS520K05CA/2,2	1260100022I
PS-0102GBS620K05CA/2,2	1260100026I
PS-0103GBS390L05CA/3	1260100030I
PS-0103GBS460L05CA/3	1260100033I
PS-0103GBS590L05CA/3	1260100129I
PS-0104GBS460M05CA/4	1260100130I
PS-0104GBS530M05CA/4	1260100131I
PS-0104GBS660M05CA/4	1260100132I
PS-0105GBS530N05CA/5,5	1260100133I
PS-0105GBS600N05CA/5,5	1260100134I
PS-0106GBS600N05CA/5,5	1260100135I
PS-0107GBS670O05CA/7,5	1260100136I

PS 03	50 Hz
Models	Codes
PS-0301GBS250K05CA/2,2	1260100044I
PS-0301GBS320K05CA/2,2	1260100137I
PS-0301GBS450K05CA/2,2	1260100138I
PS-0301GBS550K05CA/2,2	1260100054I
PS-0302GBS320M05CA/4	1260100057I
PS-0302GBS390M05CA/4	1260100139I
PS-0302GBS520M05CA/4	1260100140I
PS-0302GBS620M05CA/4	1260100061I
PS-0303GBS390N05CA/5,5	1260100141I
PS-0303GBS460N05CA/5,5	1260100142I
PS-0303GBS590N05CA/5,5	1260100143I
PS-0304GBS460O05CA/7,5	1260100144I
PS-0304GBS530O05CA/7,5	1260100145I

PSL 01	50 Hz
Models	Codes
PSL0101GBS250H05CA/1,1	1260100174I
PSL0101GBS320H05CA/1,1	1260100175I
PSL0101GBS450H05CA/1,1	1260100176I
PSL0101GBS550H05CA/1,1	1260100177I
PSL0102GBS320K05CA/2,2	1260100078I
PSL0102GBS390K05CA/2,2	1260100080I
PSL0102GBS520K05CA/2,2	1260100083I
PSL0102GBS620K05CA/2,2	1260100086I
PSL0103GBS390L05CA/3	1260100178I
PSL0103GBS460L05CA/3	1260100179I
PSL0103GBS590L05CA/3	1260100180I
PSL0104GBS460M05CA/4	1260100181I
PSL0104GBS530M05CA/4	1260100182I
PSL0104GBS660M05CA/4	1260100183I
PSL0105GBS530N05CA/5,5	1260100184I
PSL0105GBS600N05CA/5,5	1260100185I
PSL0106GBS600N05CA/5,5	1260100186I
PSL0107GBS670O05CA/7,5	1260100187I

PSL 03	50 Hz
Models	Codes
PSL0301GBS250K05CA/2,2	1260100096I
PSL0301GBS320K05CA/2,2	1260100100I
PSL0301GBS450K05CA/2,2	1260100188I
PSL0301GBS550K05CA/2,2	1260100189I
PSL0302GBS320M05CA/4	1260100190I
PSL0302GBS390M05CA/4	1260100110I
PSL0302GBS520M05CA/4	1260100191I
PSL0302GBS620M05CA/4	1260100192I
PSL0303GBS390N05CA/5,5	1260100193I
PSL0303GBS460N05CA/5,5	1260100194I
PSL0303GBS590N05CA/5,5	1260100118I
PSL0304GBS460O05CA/7,5	1260100195I
PSL0304GBS530O05CA/7,5	1260100196I

CODE LIST

Codes PS(.) - PSL(.)

PS 01 Models	60 Hz Codes
PS-0101GBS250H01CA/1,1-1,266	1260100146I
PS-0101GBS320H01CA/1,1-1,266	1260100147I
PS-0101GBS450H01CA/1,1-1,266	1260100148I
PS-0101GBS550H01CA/1,1-1,266	1260100149I
PS-0102GBS320K01CA/2,2-2,66	1260100150I
PS-0102GBS390K01CA/2,2-2,66	1260100016I
PS-0102GBS520K01CA/2,2-2,66	1260100151I
PS-0102GBS620K01CA/2,2-2,66	1260100024I
PS-0103GBS390L01CA/3-3,66	1260100152I
PS-0103GBS460L01CA/3-3,66	1260100153I
PS-0103GBS590L01CA/3-3,66	1260100154I
PS-0104GBS460M01CA/4-4,56	1260100155I
PS-0104GBS530M01CA/4-4,56	1260100156I
PS-0104GBS660M01CA/4-4,56	1260100157I
PS-0105GBS530N01CA/5,5-6,26	1260100158I
PS-0105GBS600N01CA/5,5-6,26	1260100159I
PS-0106GBS600N01CA/5,5-6,26	1260100160I
PS-0107GBS670O01CA/7,5-8,66	1260100161I

PS 03 Models	60 Hz Codes
PS-0301GBS250K01CA/2,2-2,66	1260100162I
PS-0301GBS320K01CA/2,2-2,66	1260100163I
PS-0301GBS450K01CA/2,2-2,66	1260100164I
PS-0301GBS550K01CA/2,2-2,66	1260100051I
PS-0302GBS320M01CA/4-4,56	1260100165I
PS-0302GBS390M01CA/4-4,56	1260100166I
PS-0302GBS520M01CA/4-4,56	1260100167I
PS-0302GBS620M01CA/4-4,56	1260100168I
PS-0303GBS390N01CA/5,5-6,26	1260100169I
PS-0303GBS460N01CA/5,5-6,26	1260100170I
PS-0303GBS590N01CA/5,5-6,26	1260100171I
PS-0304GBS460O01CA/7,5-8,66	1260100172I
PS-0304GBS530O01CA/7,5-8,66	1260100173I

PSL 01 Models	60 Hz Codes
PSL0101GBS250H01CA/1,1-1,266	1260100197I
PSL0101GBS320H01CA/1,1-1,266	1260100198I
PSL0101GBS450H01CA/1,1-1,266	1260100199I
PSL0101GBS550H01CA/1,1-1,266	1260100200I
PSL0102GBS320K01CA/2,2-2,66	1260100201I
PSL0102GBS390K01CA/2,2-2,66	1260100202I
PSL0102GBS520K01CA/2,2-2,66	1260100203I
PSL0102GBS620K01CA/2,2-2,66	1260100204I
PSL0103GBS390L01CA/3-3,66	1260100205I
PSL0103GBS460L01CA/3-3,66	1260100206I
PSL0103GBS590L01CA/3-3,66	1260100207I
PSL0104GBS460M01CA/4-4,56	1260100208I
PSL0104GBS530M01CA/4-4,56	1260100091I
PSL0104GBS660M01CA/4-4,56	1260100209I
PSL0105GBS530N01CA/5,5-6,26	1260100210I
PSL0105GBS600N01CA/5,5-6,26	1260100211I
PSL0106GBS600N01CA/5,5-6,26	1260100212I
PSL0107GBS670O01CA/7,5-8,66	1260100213I

PSL 03 Models	60 Hz Codes
PSL0301GBS250K01CA/2,2-2,66	1260100214I
PSL0301GBS320K01CA/2,2-2,66	1260100215I
PSL0301GBS450K01CA/2,2-2,66	1260100216I
PSL0301GBS550K01CA/2,2-2,66	1260100217I
PSL0302GBS320M01CA/4-4,56	1260100218I
PSL0302GBS390M01CA/4-4,56	1260100219I
PSL0302GBS520M01CA/4-4,56	1260100220I
PSL0302GBS620M01CA/4-4,56	1260100221I
PSL0303GBS390N01CA/5,5-6,26	1260100222I
PSL0303GBS460N01CA/5,5-6,26	1260100223I
PSL0303GBS590N01CA/5,5-6,26	1260100224I
PSL0304GBS460O01CA/7,5-8,66	1260100225I
PSL0304GBS530O01CA/7,5-8,66	1260100226I

CODE LIST

Codes PAB(.)

PAB 05 - hydraulic only 50 Hz	
Models	Codes
PAB0501CAA170E-50	1261200001
PAB0501CAA220E-50	1261200002
PAB0501CAA250E-50	1261200004
PAB0501CAA350E-50	1261200005

PAB 07 - hydraulic only 50 Hz	
Models	Codes
PAB0701CAA170E-50	1261200007
PAB0701CAA220E-50	1261200008
PAB0701CAA250E-50	1261200010
PAB0701CAA350E-50	1261200012

PAB 08 - hydraulic only 50 Hz	
Models	Codes
PAB0801CAA230F-50	1261200019
PAB0801CAA270F-50	1261200020
PAB0801CAA350F-50	1261200022
PAB0801CAA440F-50	1261200024

PAB 11 - hydraulic only 50 Hz	
Models	Codes
PAB1101CAA230G-50	1261200027
PAB1101CAA270G-50	1261200028
PAB1101CAA350G-50	1261200030
PAB1101CAA440G-50	1261200032

PAB 20 - hydraulic only 50 Hz	
Models	Codes
PAB2002CAA270H-50	1261200033

PAB 05 - hydraulic only 60 Hz	
Models	Codes
PAB0501CAA170E-60	1261200074
PAB0501CAA220E-60	1261200003
PAB0501CAA250E-60	1261200075
PAB0501CAA350E-60	1261200006

PAB 07 - hydraulic only 60 Hz	
Models	Codes
PAB0701CAA170E-60	1261200076
PAB0701CAA220E-60	1261200009
PAB0701CAA250E-60	1261200011
PAB0701CAA350E-60	1261200013

PAB 08 - hydraulic only 60 Hz	
Models	Codes
PAB0801CAA230F-60	1261200077
PAB0801CAA270F-60	1261200021
PAB0801CAA350F-60	1261200023
PAB0801CAA440F-60	1261200025

PAB 11 - hydraulic only 60 Hz	
Models	Codes
PAB1101CAA230G-60	1261200078
PAB1101CAA270G-60	1261200029
PAB1101CAA350G-60	1261200031
PAB1101CAA440G-60	1261200079

PAB 20 - hydraulic only 60 Hz	
Models	Codes
PAB2002CAA270H-60	1261200034

PAB - motors 50 -60 Hz	
Models	Codes
PAB-E30RD	1261200046
PAB-E30RW	1261200049
PAB-E31RD	1261200052
PAB-E31RW	1261200054
PAB-F30RD	1261200057
PAB-F31RD	1261200062
PAB-G30RD	1261200064
PAB-H30RD	1261200070

Codes HDZ(.)

HDZ 50 -60 Hz	
Models	Codes
HDZ-1	1261500001
HDZ-1 M39X2	1261500003
HDZ-2	1261500002
HDZ-2 M39X2	1261500004

Request Form

Application

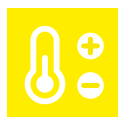
Machine tools/
Filter systems


☐

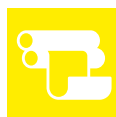
Optical
machine tools


☐

Temperature
control units


☐

Printing machines/
Packaging machines


☐

Operating point

Capacity [l/min]

Head [m]

Pressure [bar]

Immersion depth [mm]

Others (specify):

Fluid specification

Type

Temperature [°C]

Viscosity at operating
temperature [cSt]

Grain size [mm]

Max contamination [ppm]

pH value

Others (specify):

Material used

Upper flange

Shaft

Impeller

Intermediate chamber

Pumps bottom

Others (specify):

Electrical specification

Frequency [Hz]

Voltage [V]

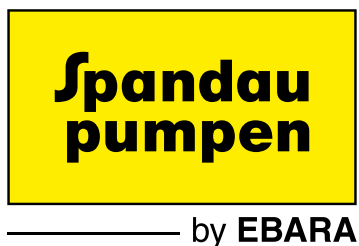
Others (specify)

Others

Annual quantity needed

Additional information

Date _____



479705694 07/25

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