

**Spandau
pumpen**

by EBARA

PRG - Centrifugal pumps

Data Book 50/60Hz



Quality Management
ISO 9001: 2015

Environmental Management
ISO 14001:2015



www.ebaraeurope.com



PRG – Immersion pumps, sealless

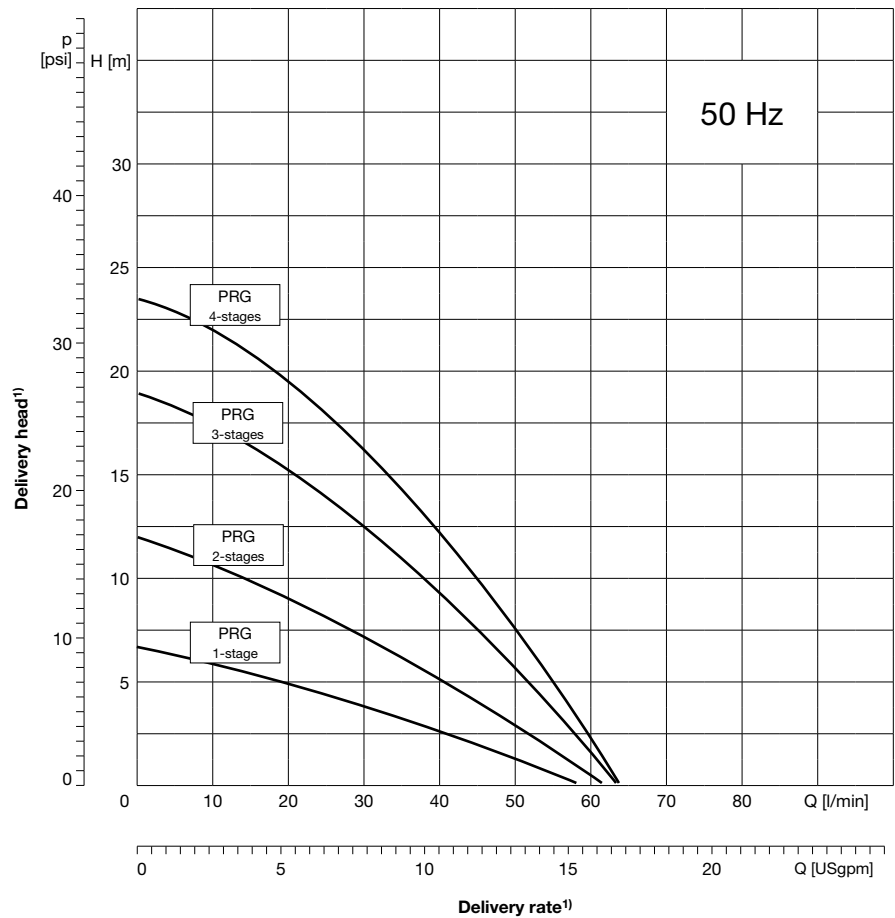
50 Hz, closed impellers

PRG



Features

- One or multi-stages centrifugal pump
- For delivery of slightly contaminated types of fluids
- Installation directly and vertically into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G3/4



Technical Data

Delivery rate Q_{max}	62 l/min
Delivery head H_{max}	23 m
Immersion depth t_{max}	320 mm
Immersion depth	max. 20 mm ² /s
Delivery temperature	-20 °C to +60 °C
Grain size	max. Ø0,3 mm
Contamination	max. 50 g/m ³
Direction of rotation	clockwise (as viewed looking down on the motor's ventilation side)
Fluids delivered	Water, emulsions (synthetic / mineral oil), also with chemical additives, distilled water deionization, ized water, photographic solutions

Mechanical design

Component	Material
Flange	POM / GF
Shaft	1.4122
Impeller	PEI / GF
Intermediate chamber	POM / GF
Pumps bottom	POM / GF
Bushing	PTFE graphite

Variations

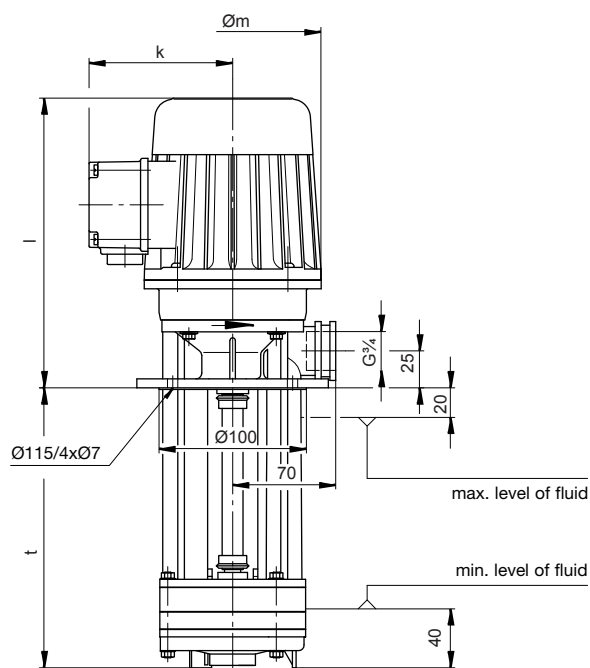
Component	Material
Mixing paddle	plastic

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 – Immersion pumps, sealless

50 Hz, closed impellers



Electrical data, dimensions and weights at 50 Hz

Type of pump			Immer- sion depth t [mm]	Rated motor values					Dimensions [mm]			Weight [kg]	Sonic pressure [dBA]	Pressure port (DIN ISO 228)
Series	Frame size	Stages		Voltage Δ/Y U [V]	Motor index	Output P _N [kW]	Current Δ/Y I _N [A]	Speed n _N [min ⁻¹]	Øm	k	l			
PRG	06	01	110	230/400	A	0,09	0,46/0,26	2618	96	89	173	2,8 – 3,1	44	G $\frac{3}{4}$
			130											
			160											
			210											
		02	260	230/400	B	0,12	1,0 / 0,6	2890	120	99	197	5,4 – 5,7	45	G $\frac{3}{4}$
			140											
			160											
			190											
		03	240	230/400	C	0,18	1,1 / 0,6	2825	120	99	197	5,6 – 5,9	48	G $\frac{3}{4}$
			290											
			170											
			190											
		04	220	230/400	E	0,37	1,7 / 0,98	2785	120	99	197	6,7 – 6,9	49	G $\frac{3}{4}$
			270											
			320											
			200											
			220											
			250											
			300											

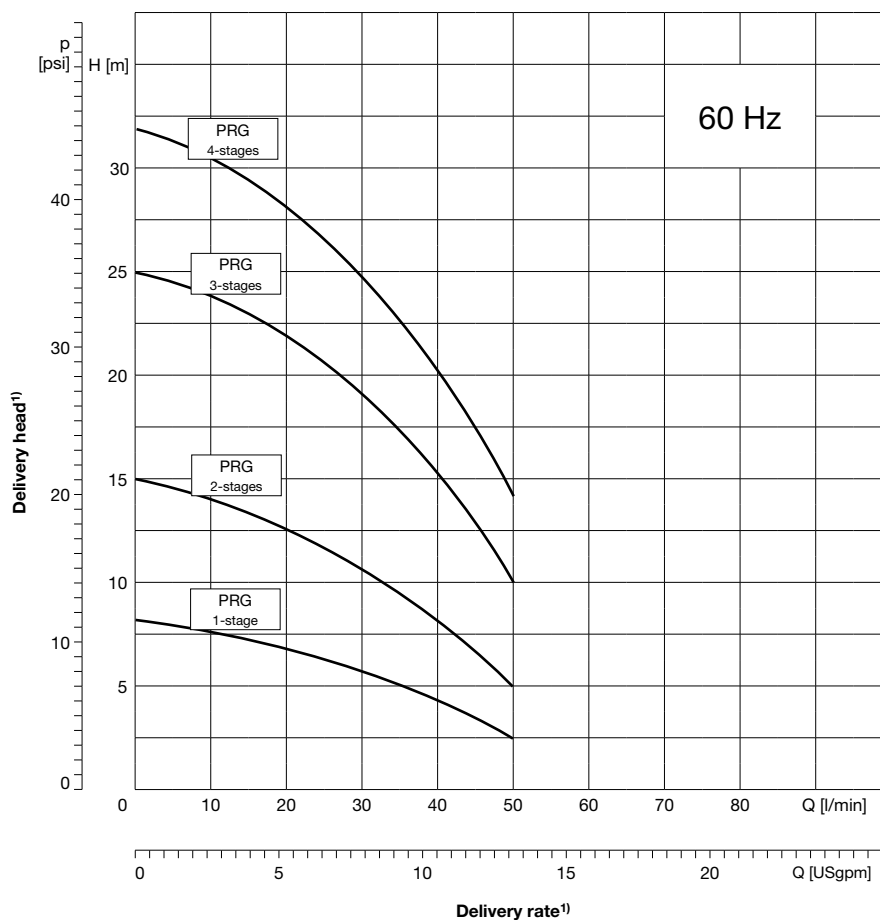
PRG – Immersion pumps, sealless

60 Hz, closed impellers



Features

- One or multi-stages centrifugal pump
- For delivery of slightly contaminated types of fluids
- Installation directly and vertically into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G3/4



Technical Data

Delivery rate Q_{max}	50 l/min
Delivery head H_{max}	32 m
Immersion depth t_{max}	320 mm
Immersion depth	max. 20 mm ² /s
Delivery temperature	-20 °C to +60 °C
Grain size	max. Ø0,3 mm
Contamination	max. 50 g/m ³
Direction of rotation	clockwise (as viewed looking down on the motor's ventilation side)
Fluids delivered	Water, emulsions (synthetic / mineral oil), also with chemical additives, distilled water deionization, ized water, photographic solutions

Mechanical design

Component	Material
Flange	POM / GF
Shaft	1.4122
Impeller	PEI / GF
Intermediate chamber	POM / GF
Pumps bottom	POM / GF
Bushing	PTFE graphite

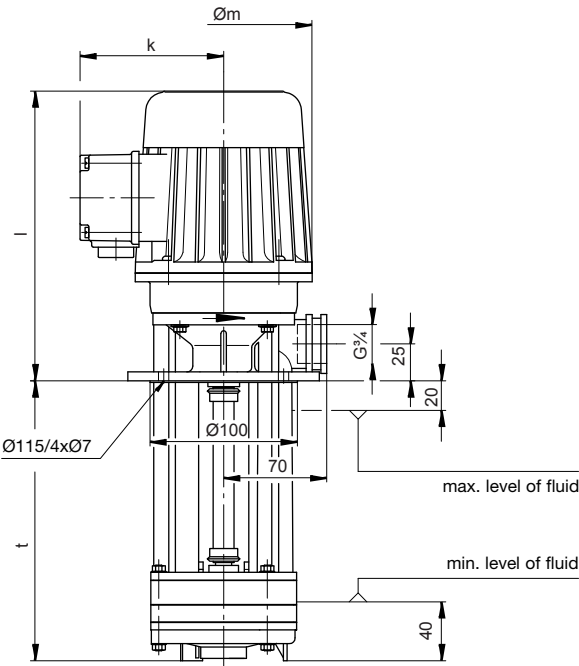
Variations

Component	Material
Mixing paddle	plastic

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 – Immersion pumps, sealless

60 Hz, closed impellers



Electrical data, dimensions and weights at 60 Hz

Type of pump			Immer- sion depth t [mm]	Rated motor values					Dimensions [mm]			Weight [kg]	Sonic pressure [dBA]	Pressure port (DIN ISO 228)
Series	Frame size	Stages		Voltage Δ/Y U [V]	Motor index	Output P _N [kW]	Current Δ/Y I _N [A]	Speed n _N [min ⁻¹]	Øm	k	l			
PRG	06	01	110	265/460	A	0,10	0,46/0,26	3257	96	89	173	2,8 – 3,1	45	G¾
			130											
			160											
			210											
			260											
		02	140	265/460	B	0,14	0,9 / 0,5	3485	120	99	197	5,4 – 5,7	46	G¾
			160											
			190											
			240											
			290											
		03	170	265/460	C	0,21	1,0 / 0,6	3420	120	99	197	5,6 – 5,9	50	G¾
			190											
			220											
			270											
			320											
		04	200	265/460	E	0,42	1,7 / 1,0	3360	120	99	197	6,7 – 6,9	51	G¾
			220											
			250											
			300											



PRG – Immersion pumps, sealless

Order key

PRG

P	R	G																
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Series

Frame size

06

Stages

To determine the desired number of stages the corresponding characteristics has to be used.

01 = 1-stage

...

04 = 4-stages

Materials

P = POM (standard)

Seal

B = gap bush (standard)

Pump design

S = standard design**A** = agitator

Immersion depth in

To determine the desired immersion depth the appropriate table "Electrical data, dimensions and weights" has to be used.

110 = 110 mm

...

320 = 320 mm

Motor index

To determine the desired immersion depth the appropriate table "Electrical data, dimensions and weights" has to be used.

Example:

E = 0,37 kW

Power supply

01 = 230/400 V at 50Hz

265/460 V at 60Hz

Motor design

AA = standard for 0.09kW (insulation class F, IP 54, 2-pole)**CA** = standard from 0.12kW (insulation class F, IP 54, 2-pole, IE3)

Order example: PRG0602PBS160B01CA

Series: **PRG**, frame size: **06**, **02**-stages, material: **P** POM plastic, seal: **B** bush, Pump design: **S** standard design, immersion depth: **160** mm, Motor index: **B** 0.12 kW, Power supply: **01** 230/400V 50Hz and 265/460V 60Hz, Motor design: **CA** standard IE3

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03/25

REV.00
1-6007-EN