PRG Centrifugal pumps

Technical data

- Delivery rate
  Q_{max} = 62 l/min
- Delivery head
  H_{max} = 32 m
- Temperature range
  -20°C to +60°C
- Kinematic viscosity
  ν_{max} = 20 mm^2/s

Quality Management
DIN EN ISO 9001:2008

Environmental Management
DIN EN ISO 14001

Health and Safety Management
OHSAS 18001

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Spandau pumpen®

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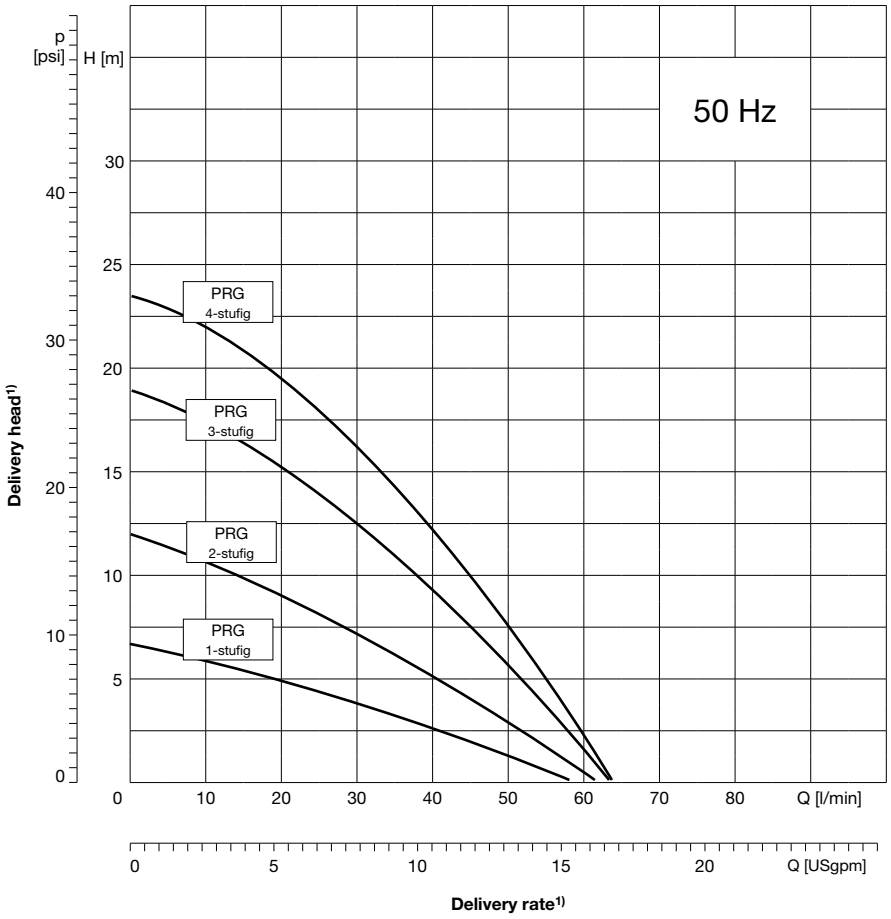
PRG – Immersion pumps, sealless

50 Hz, closed impellers

Features

- One or multi-stages centrifugal pump
- For delivery of slightly contaminated types of fluids
- Installation direcly and vertically into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G1 1/4



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

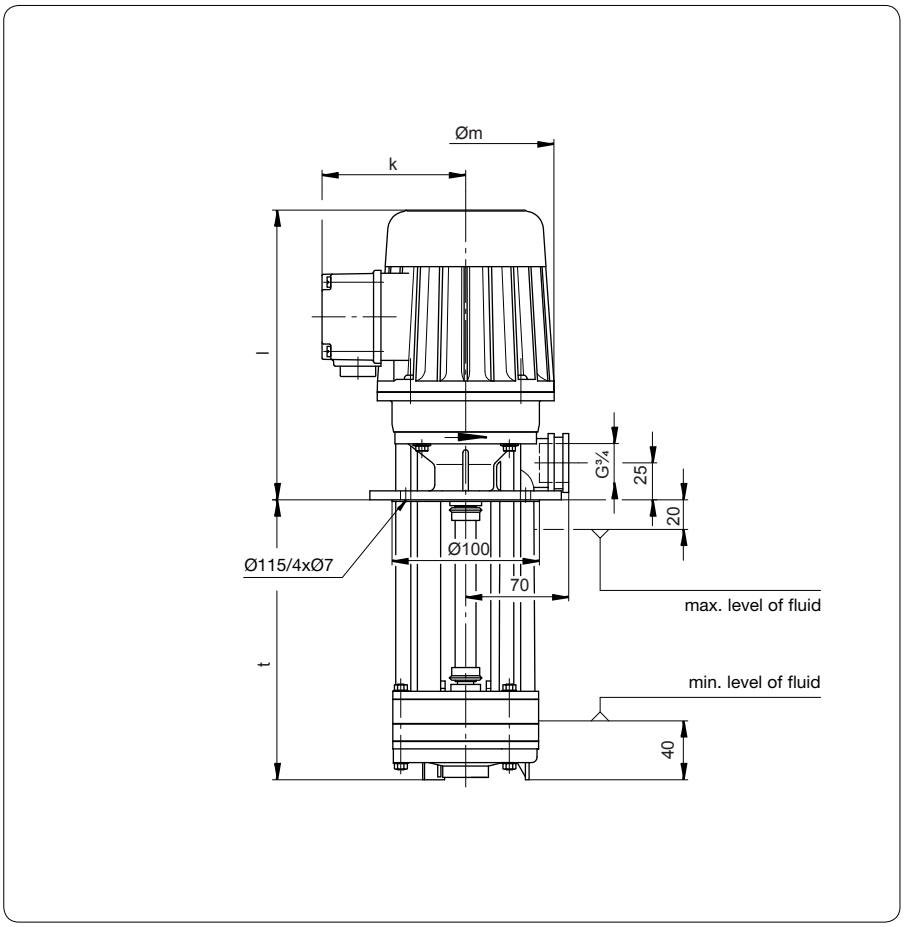
Variations

Component	Material
Mixing paddle	plastic

[1)] Data for viscosity of ~1 mm^2/s at a density of ~1 kg/dm^3. Minimum volumetric flow: 5 to 10 % of nominal delivery rate.

PRG – Immersion pumps, sealless

50 Hz, closed impellers

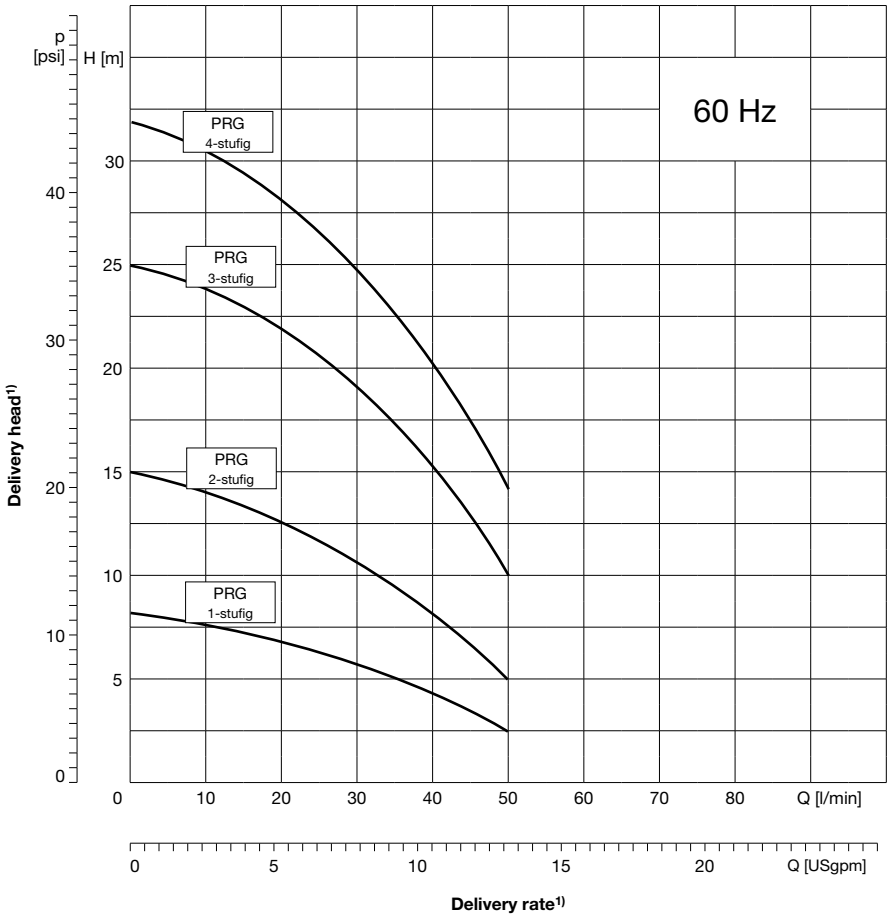


Electrical data, dimensions and weights at 50 Hz

Type of pump			Immersion 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	120 140 170 220 270	230/400	A	0,09	0,46/0,26	2618	96	89	173	2,8 – 3,1	44	G¾
		02	140 160 190 240 290	230/400	B	0,12	0,71/0,41	2637	96	89	173	2,9 – 3,3	45	G¾
		03	170 190 220 270 320	230/400	C	0,18	0,86/0,50	2812	120	99	197	4,5 – 4,9	48	G¾
		04	200 220 250 300	230/400	E	0,37	1,72/1,00	2667	120	99	197	4,8 – 5,0	49	G¾

PRG – Immersion pumps, sealless

60 Hz, closed impellers



Features

- One or multi-stages centrifugal pump
- For delivery of slightly contaminated types of fluids
- Installation direcly and vertically into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G1 1/4

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

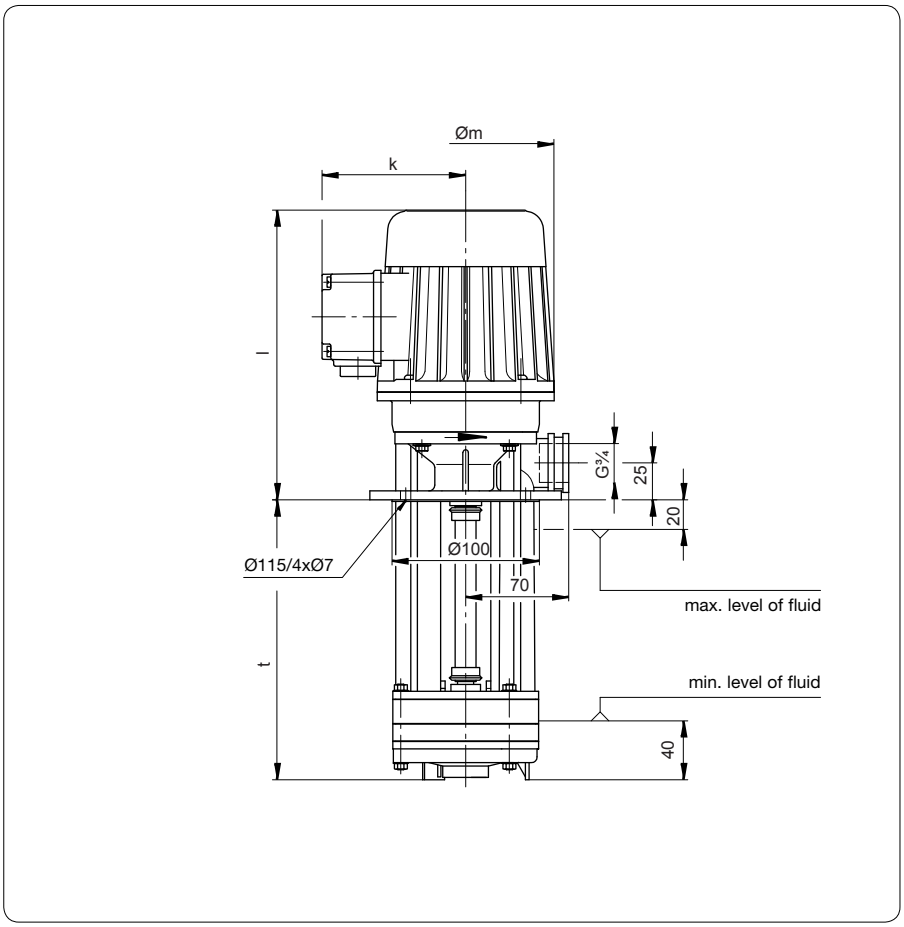
Variations

Component	Material
Mixing paddle	plastic

[1)] Data for viscosity of ~1 mm^2/s at a density of ~1 kg/dm^3. 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			Immersion 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	120	265/460	A	0,10	0,46/0,26	3257	96	89	173	2,8 – 3,1	45	G¾
			140											
			170											
			220											
			270											
		02	140	265/460	B	0,14	0,71/0,41	3274	96	89	173	2,9 – 3,3	46	G¾
			160											
			190											
			240											
			290											
		03	170	265/460	C	0,21	0,86/0,50	3437	120	99	197	4,5 – 4,9	50	G¾
			190											
			220											
			270											
			320											
		04	200	265/460	E	0,42	1,72/1,00	3329	120	99	197	4,8 – 5,0	51	G¾
			220											
			250											
			300											

PRG – Immersion pumps, sealless

Order key

P R G

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
I = intruder

Immersion depth in

To determine the desired immersion depth the appropriate table
"Electrical data, dimensions and weights" has to be used.
120 = 120 mm
...
320 = 320 mm

Motorindex

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 50 Hz
265/460 V at 60Hz
05 = **standard for Europe**
230/400 V 50 Hz
... further designs on request

Motor index

AA = standard to 0,55 kW (insulation class F, IP 54, 2-pole)
EA = single-phase motor
... further designs on request

Order example: PRG0602PBS160B05AA
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: **05** 230/400 V 50 Hz;
Motor design: **AA** standard

Notes

SKF Lubrication Systems Germany GmbH
Product department Spandau Pumps

Motzener Strasse 35/37 · 12277 Berlin · Germany
PF 970444 · 12704 Berlin · Germany
Tel. +49 (0)30 72002-0 · Fax +49 (0)30 72002-261
SpandauPumpen@skf.com
www.spandaupumpen.com

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