PRV Centrifugal pumps

Technical Data

- Delivery rate
  Q_{max} = 65 l/min
- Delivery head
  H_{max} = 50 m
- Delivery temperature
  T = 0 °C to +60 °C
- Kinematic viscosity
  ν_{max} = 15 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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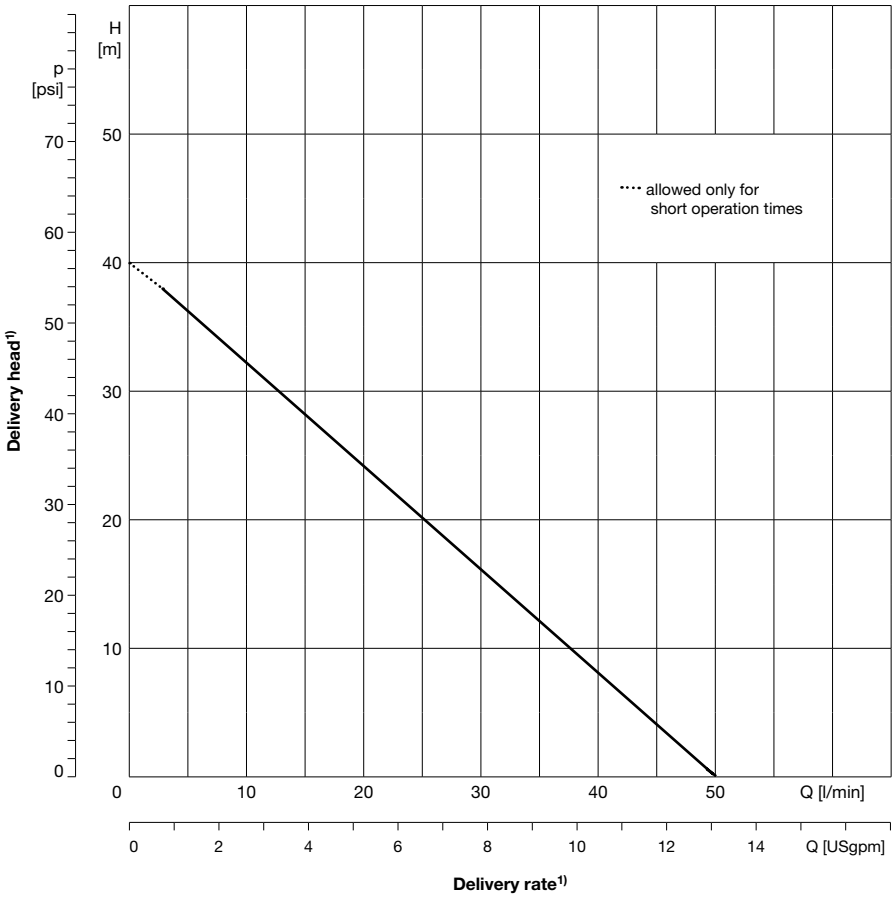
Laugkfeld 21 . 01968 Senftenberg, Tel.: 03573 1480-0
info@vogel-gruppe.de . www.vogel-gruppe.de

PRV – Immersion pumps, sealless

50 Hz, peripherale impellers



Features

- Vertical singlestage centrifugal pump
- Connection dimensions according to DIN 12157
- For delivery of clean fluids
- Installation direcly into the reservoir
- Pressure port is located above the reservoir plate
- Pressure port is designed with internal thread G¾

Technical Data

Delivery rate Q_{max}	50 l/min
Delivery head H_{max}	40 m
Immersion depth t_{max}	270 mm
Kinematic viscosity	max. 15 mm^2/s
Delivery temperature	0 °C to +60 °C
Direction of rotation	anticlockwise (as viewed looking down on the motor's ventilation side)
Fluids delivered	Water-glycol mixture, water (distilled / deionized), water with chemical additives, mild lyes and acids, water emulsions, silicone oils

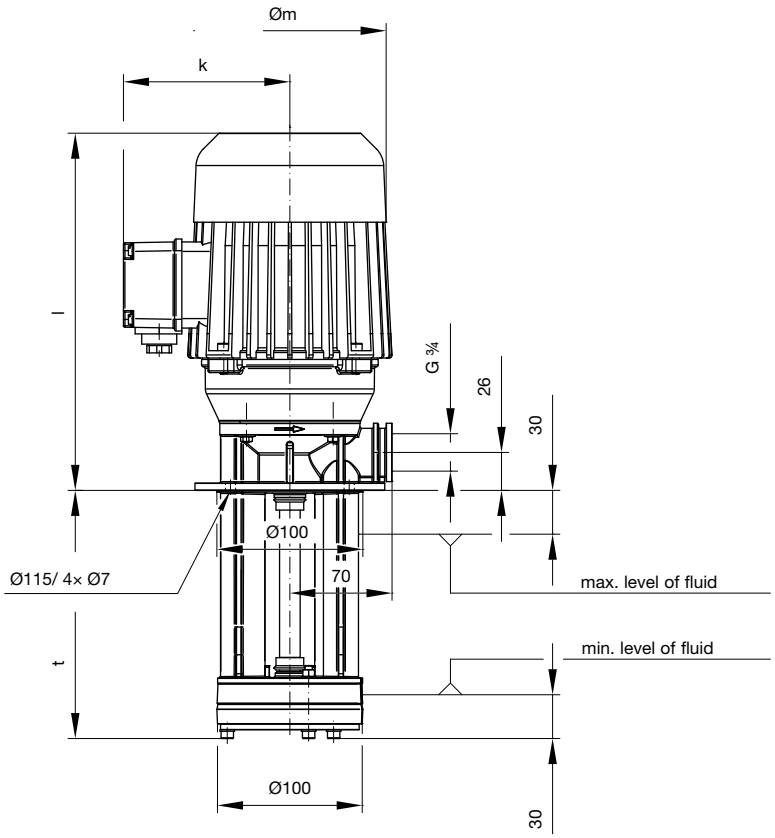
Mechanical design

Component	Material
Flange	POM
Shaft	stainless steel 1.4122
Impeller	PEI
Intermediate chamber	POM
Pumps bottom	POM
Gap bush	POM
Bearings	Deep groove ball bearing with covering disk

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.

PRV – Immersion pumps, sealless

50 Hz, peripherale impellers

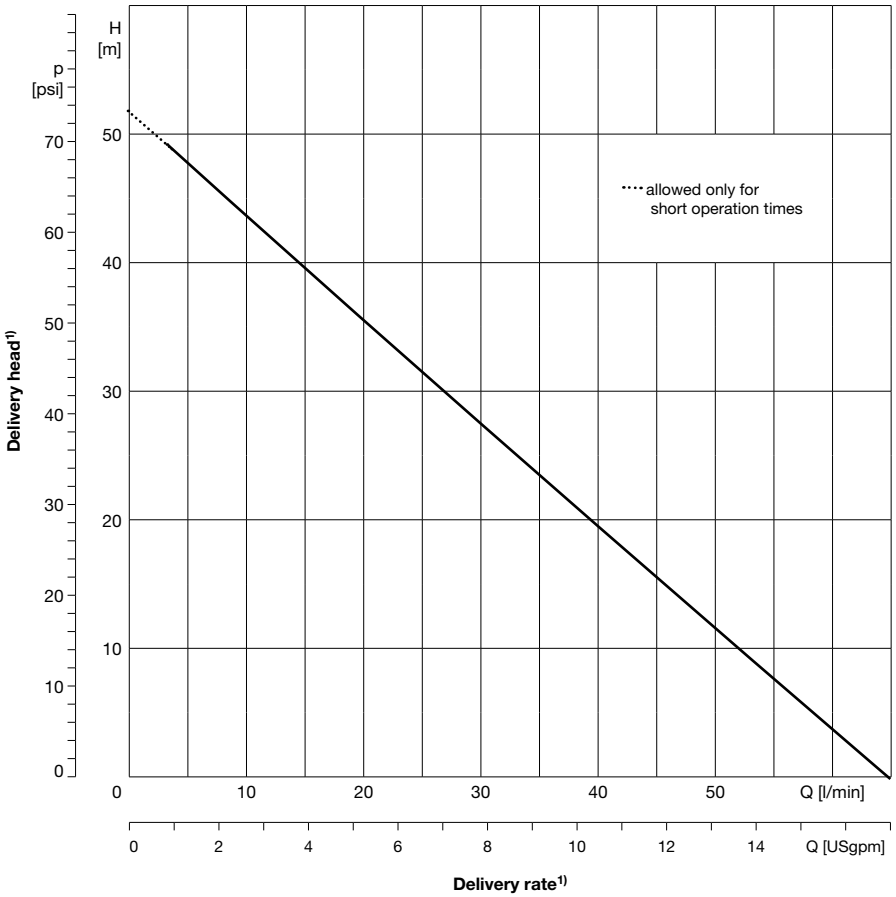


Electrical data, dimensions and weights at 50 Hz

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			
PRV	40	01	120	230/400	G	0,75	2,56/1,48	2870	140	114	245	7,2	70	G¾
			140									7,4		
			170									7,6		
			220									7,8		
			270									8,0		

PRV – Immersion pumps, sealless

60 Hz, peripherale impellers



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- Vertical singlestage centrifugal pump
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- For delivery of clean fluids
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Flange	POM
Shaft	stainless steel 1.4122
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Intermediate chamber	POM
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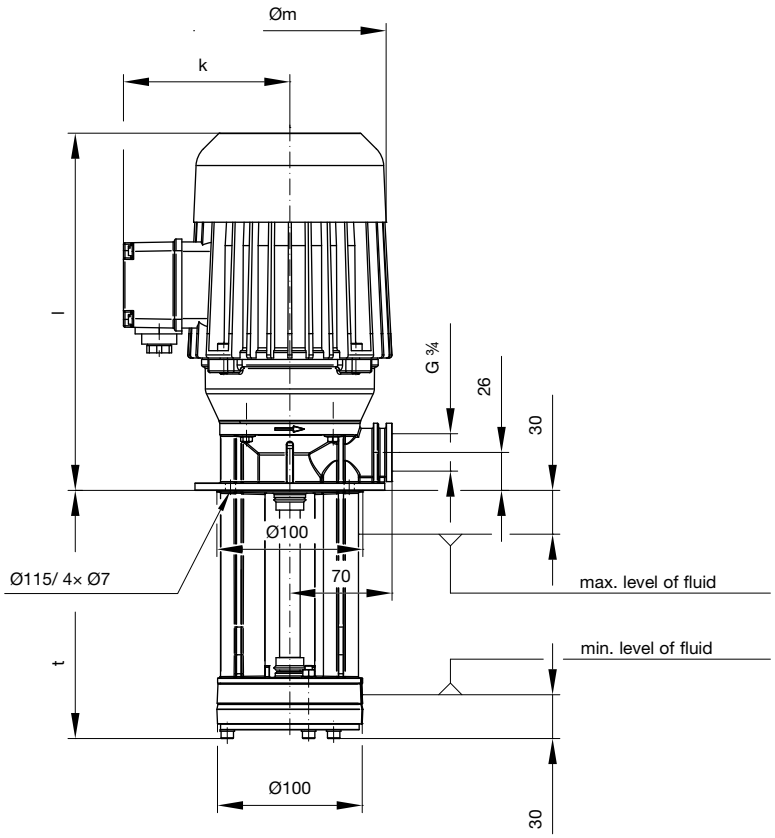
Bearings	Deep groove ball bearing with covering disk

[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.

PRV – Immersion pumps, sealless

60 Hz, peripherale impellers

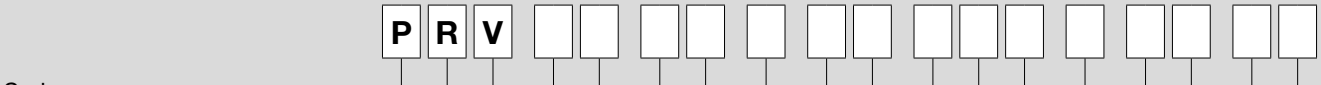


Electrical data, dimensions and weights at 60 Hz

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			
PRV	40	01	120	265/460	G	0,86	2,56/1,48	3410	140	114	245	7,2	73	G¾
			140									7,4		
			170									7,6		
			220									7,8		
			270									8,0		

PRV – Immersion pumps, sealless

Order key



Series

Frame size

40 = 40 m (delivery head)

Stages

01 = 1-stage

Materials

P = plastic (POM)

Seal

B = bush

Pump design

S = standard design

Immersion depth in mm

To determine the desired immersion depth the appropriate table "Electrical data, dimensions and weights" has to be used.
120 = 120 mm
…
270 = 270 mm

Motor index

G = 0,75 kW at 50 Hz; 0,86 kW at 60 Hz

Power supply

01 = 230/400 V at 50 Hz; 265/460 V at 60 Hz
20 = 230V 50/60 Hz, single-phase condenser
Further designs on request.

Motor design

BA = standard IE2 (insulation class F, IP 54, 2-pole)
Further designs on request.

Order example: PRV4001PBS220G01BA
Series: **PRV**, Frame size: **40**, **01**-stage, Material: **P** plastic, Seal: **B** bush, Pump design: **S** standard design, Immersion depth in mm: **220** mm, Motor index: **G** 0,75 kW at 50 Hz; 0,86 kW at 60 Hz, Power supply: **01** 230/400 V at 50 Hz, 265/460 V at 60 Hz, Motor design: **BA** standard (IE2)

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
kontakt@spandaupumpen.de
www.spandaupumpen.com

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