

PSR Centrifugal pumps

Technical data

- Delivery rate
 $Q_{\max} = 180 \text{ l/min}$
- Delivery head
 $H_{\max} = 255 \text{ m}$
- Temperature range
 $T = -10^{\circ}\text{C to } +80^{\circ}\text{C}$
- Kinematic viscosity
 $\nu_{\max} = 20 \text{ mm}^2/\text{s}$



PSR 02 – Immersion pumps, sealless

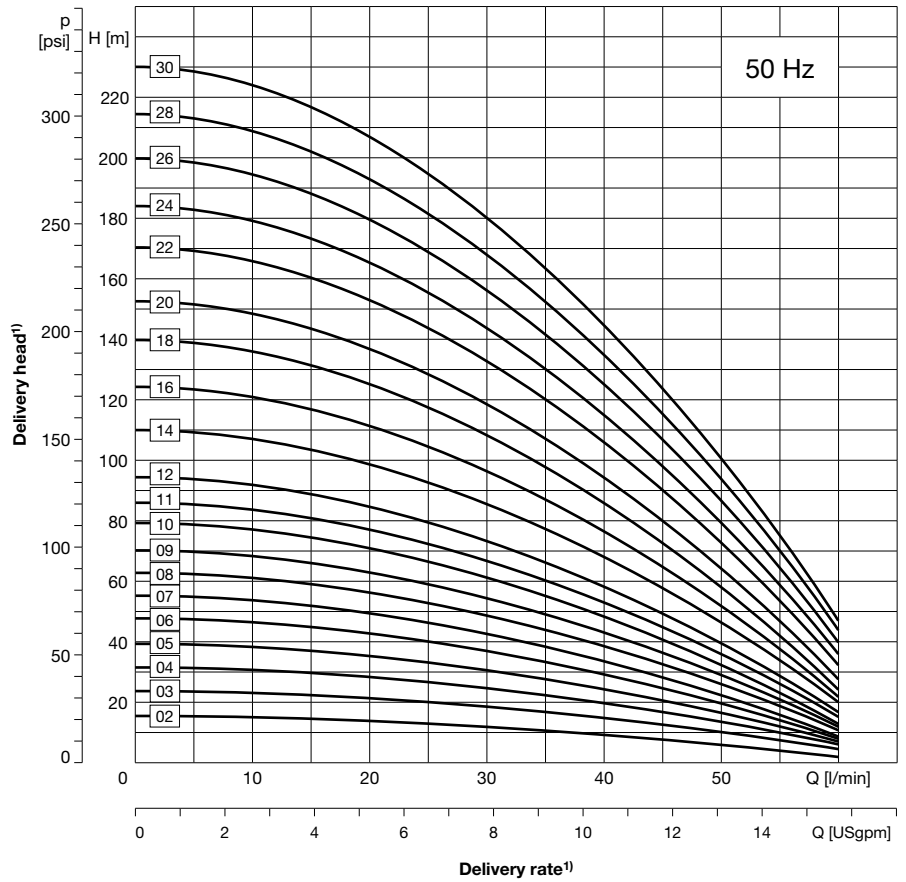
50 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 60 l/min |
| Delivery head H_{max} | 230 m |
| Immersion depth t_{max} | 739 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

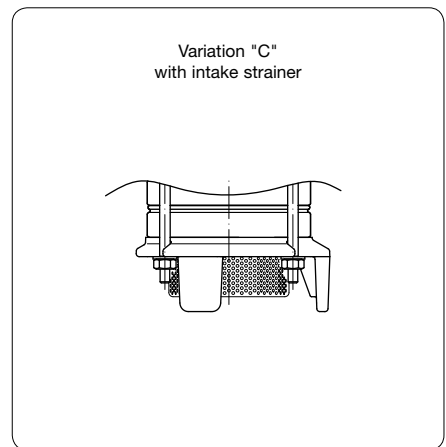
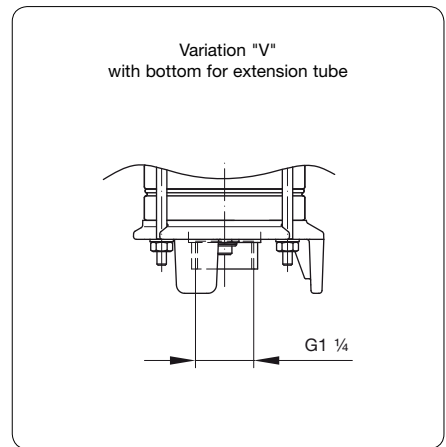
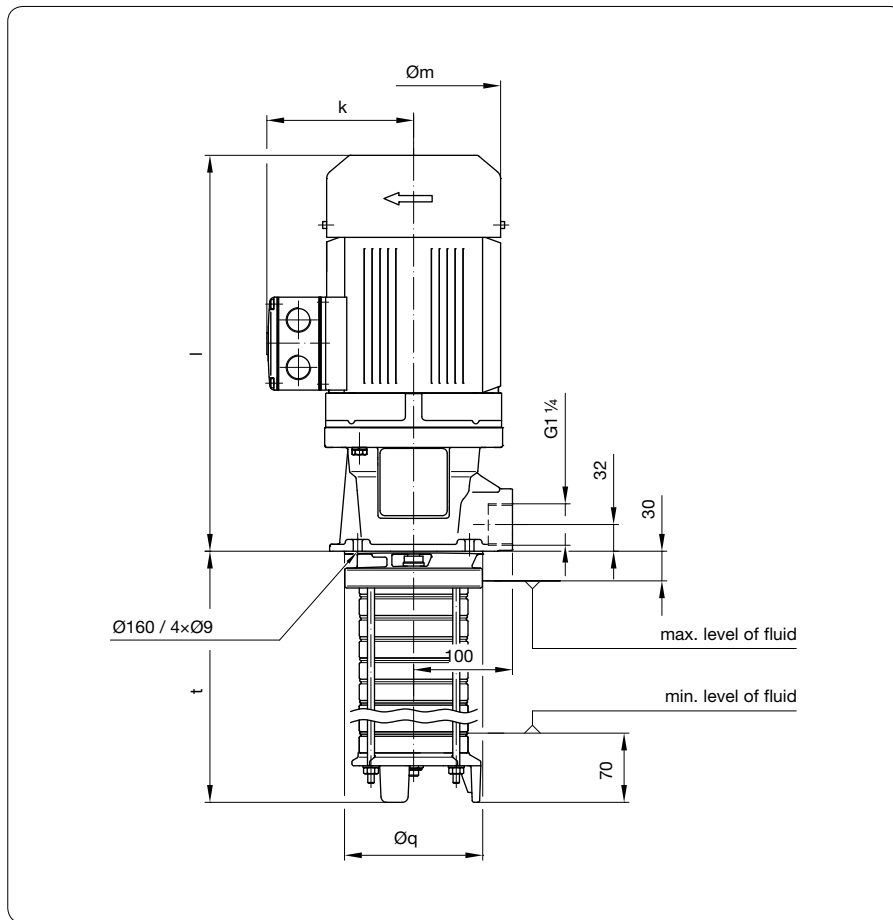
Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 02 – 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 | | | | Øq |
| PSR | 02 | 02 | 137 | 230/400 | E | 0,37 | 1,57/0,91 | 2902 | 140 | 114 | 223 | 140 | 13,1 | 58 | G1 1/4 |
| | | 03 | 158 | | | | | | | | | | 13,4 | | |
| | | 04 | 180 | | | | | | | | | | 13,7 | | |
| | | 05 | 201 | | | | | | | | | | 14,0 | | |
| | | 06 | 223 | | | | | | | | | | 14,4 | | |
| | | 07 | 244 | | | | | | | | | | 14,8 | | |
| | | 08 | 266 | | 15,1 | | | | | | | | | | |
| | | 09 | 287 | | 15,3 | F | 0,55 | 2,06/1,19 | 2836 | 140 | 114 | 223 | 140 | 15,7 | |
| | | 10 | 309 | | 15,7 | | | | | | | | | | |
| | | 11 | 330 | | 16,0 | | | | | | | | | | |
| | | 12 | 352 | | 16,3 | H | 1,1 | 4,07/2,35 | 2730 | 140 | 114 | 223 | 140 | 16,6 | |
| | | 14 | 395 | | 16,6 | | | | | | | | | | |
| | | 16 | 438 | | 28,2 | | | | | | | | | | |
| | | 18 | 481 | | 28,5 | | | | | | | | | | |
| | | 20 | 524 | | 28,8 | J | 1,5 | 4,95/2,86 | 2850 | 176 | 149 | 406 | 140 | 28,8 | |
| | | 22 | 567 | | 35,4 | | | | | | | | | | |
| | | 24 | 610 | | 36,2 | | | | | | | | | | |
| 26 | 653 | 36,8 | | | | | | | | | | | | | |
| 28 | 696 | 37,3 | | | | | | | | | | | | | |
| 30 | 739 | 37,7 | K | 2,2 | 7,15/4,13 | 2840 | 176 | 149 | 406 | 140 | 36,8 | | | | |
| 30 | 739 | 37,7 | | | | | | | | | | | | | |

PSR

PSR 02 – Immersion pumps, sealless

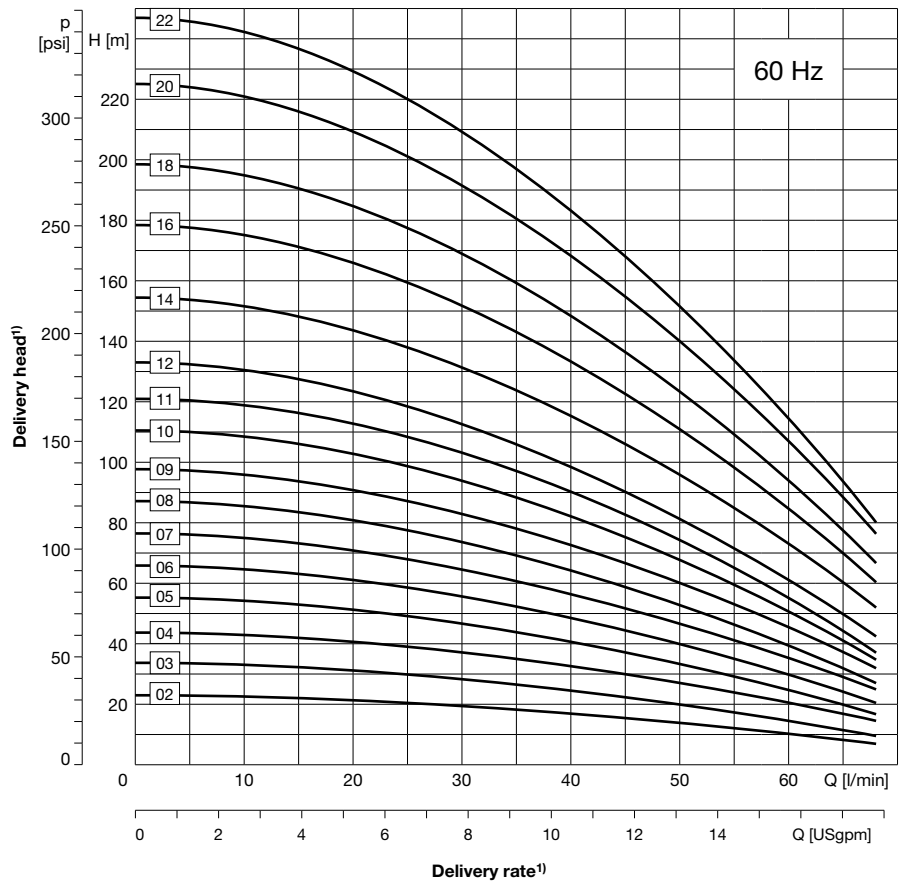
60 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 68 l/min |
| Delivery head H_{max} | 245 m |
| Immersion depth t_{max} | 567 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

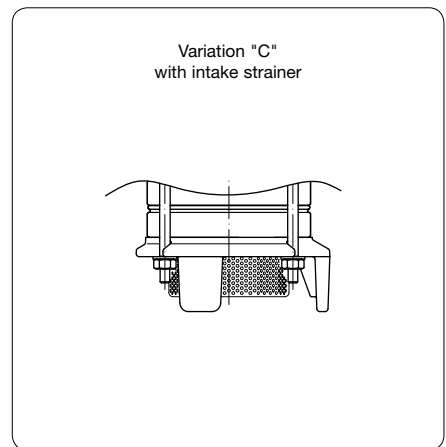
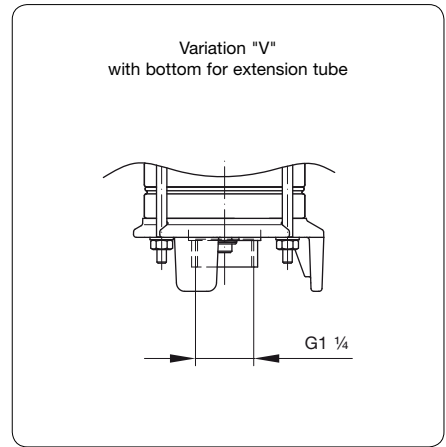
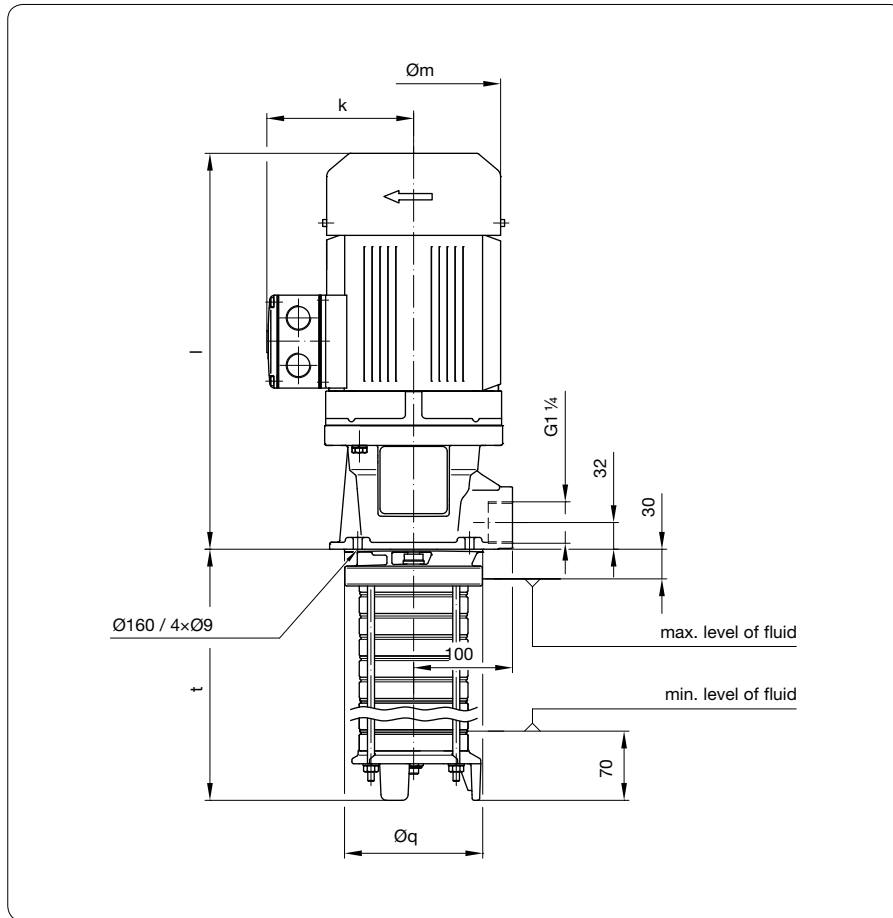
| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 02 – Immersion pumps, sealless 60 Hz, closed impellers



PSR

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] | $\varnothing m$ | k | l | | | | $\varnothing q$ |
| PSR | 02 | 02 | 137 | 265/460 | E | 0,42 | 1,57/0,91 | 3502 | 140 | 114 | 223 | 140 | 13,1 | 60 | G1 1/4 |
| | | 03 | 158 | | | | | | | | | | 13,4 | | |
| | | 04 | 180 | | | | | | | | | | 13,7 | | |
| | | 05 | 201 | | G | 0,86 | 2,56/1,48 | 3410 | 140 | 114 | 223 | 140 | 14,0 | 60 | |
| | | 06 | 223 | | | | | | | | | | 14,4 | | |
| | | 07 | 244 | | H | 1,26 | 4,07/2,35 | 3368 | 140 | 114 | 223 | 140 | 14,8 | 60 | |
| | | 08 | 266 | | | | | | | | | | 15,1 | | |
| | | 09 | 287 | | | | | | | | | | 15,5 | | |
| | | 10 | 309 | | | | | | | | | | 27,1 | | |
| | | 11 | 330 | | J | 1,8 | 5,0/2,9 | 3460 | 176 | 149 | 406 | 140 | 27,4 | 64 | |
| | | 12 | 352 | | | | | | | | | | 27,7 | | |
| | | 14 | 395 | | K | 2,6 | 7,5/4,3 | 3400 | 176 | 149 | 406 | 140 | 34,3 | 64 | |
| | | 16 | 438 | | | | | | | | | | 34,9 | | |
| | | 18 | 481 | | | | | | | | | | 35,1 | | |
| 20 | 524 | L | 3,6 | 10,1/5,82 | 3500 | 196 | 155 | 427 | 140 | 37,7 | 70 | | | | |
| 22 | 567 | | | | | | | | | 38,3 | | | | | |

PSR 04 – Immersion pumps, sealless

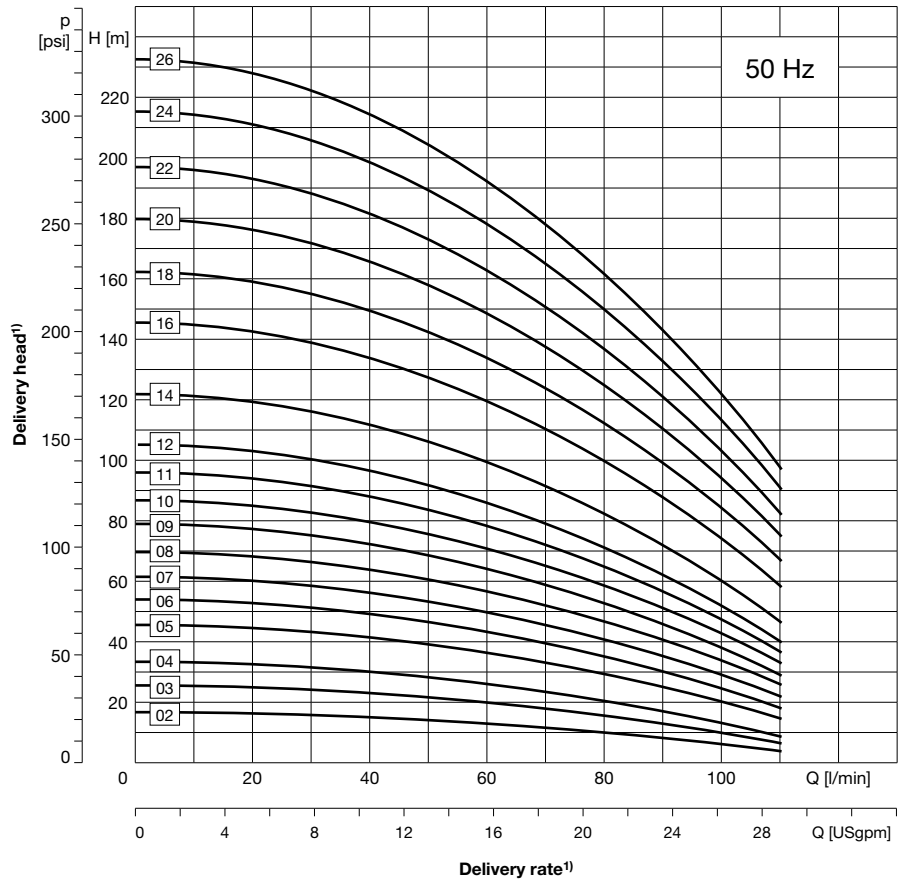
50 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 110 l/min |
| Delivery head H_{max} | 232 m |
| Immersion depth t_{max} | 653 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

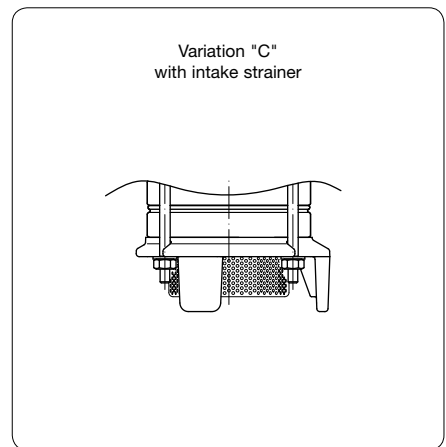
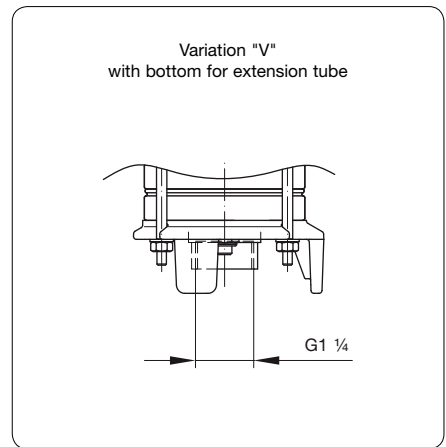
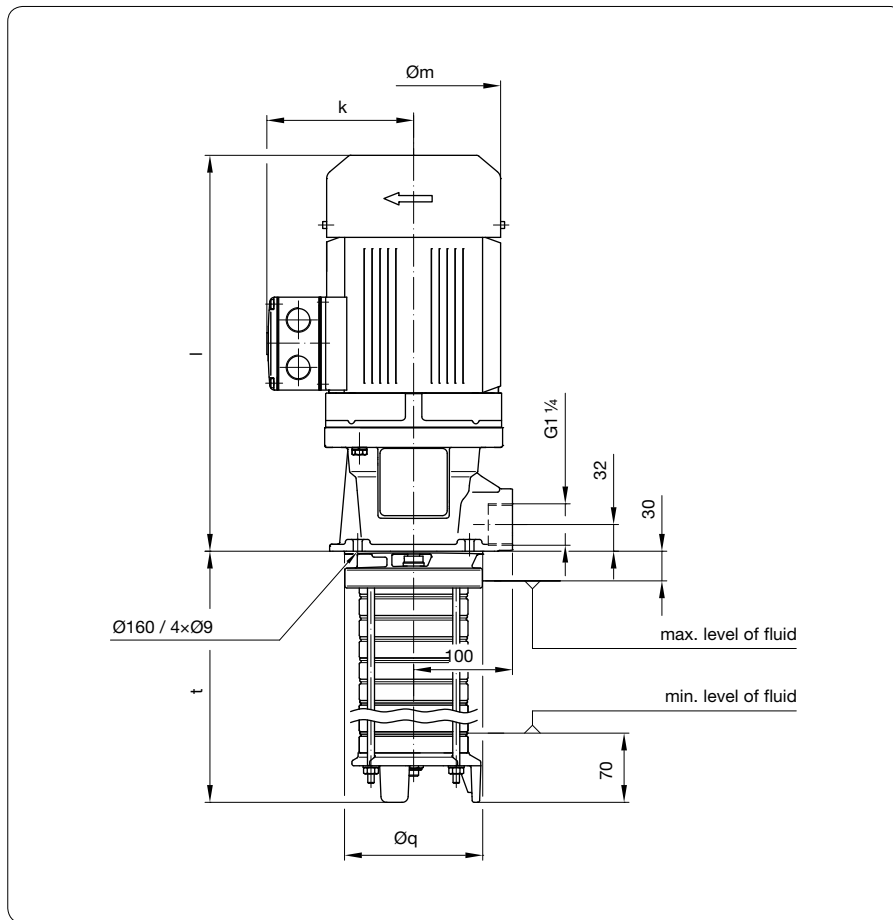
| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 04 – Immersion pumps, sealless 50 Hz, closed impellers



PSR

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 $\Delta/Y I_N$ [A] | Speed n_N [min ⁻¹] | $\varnothing m$ | k | l | | | | $\varnothing q$ |
| PSR | 04 | 02 | 137 | 230/400 | E | 0,37 | 1,57/0,91 | 2902 | 140 | 114 | 223 | 140 | 13,1 | G1 1/4 | |
| | | 03 | 158 | | F | 0,55 | 2,06/1,19 | 2836 | 140 | 114 | 223 | 140 | 13,4 | | |
| | | 04 | 180 | | G | 0,75 | 2,56/1,48 | 2870 | 140 | 114 | 223 | 140 | 13,7 | | |
| | | 05 | 201 | | H | 1,1 | 4,07/2,35 | 2730 | 140 | 114 | 223 | 140 | 14,0 | | |
| | | 06 | 223 | | | 14,7 | | | | | | | | | |
| | | 07 | 244 | | | 15,0 | | | | | | | | | |
| | | 08 | 266 | | | 15,3 | | | | | | | | | |
| | | 09 | 287 | | J | 1,5 | 4,95/2,86 | 2850 | 176 | 149 | 406 | 140 | 28,5 | | 60 |
| | | 10 | 309 | | | 28,8 | | | | | | | | | |
| | | 11 | 330 | | K | 2,2 | 7,15/4,13 | 2840 | 176 | 149 | 406 | 140 | 32,7 | | 60 |
| | | 12 | 352 | | | | | | | | | | 33,0 | | |
| | | 14 | 395 | | | | | | | | | | 33,6 | | |
| | | 16 | 438 | | | | | | | | | | 36,2 | | |
| | | 18 | 481 | | L | 3,0 | 10,0/5,75 | 2885 | 196 | 155 | 427 | 140 | 36,8 | | 67 |
| 20 | 524 | 37,4 | | | | | | | | | | | | | |
| 22 | 567 | M | 4,0 | 13,0/7,5 | 2880 | 196 | 155 | 447 | 140 | 44,0 | 69 | | | | |
| 24 | 610 | | | | | | | | | 44,6 | | | | | |
| 26 | 653 | | | | | | | | | 45,2 | | | | | |

PSR 04 – Immersion pumps, sealless

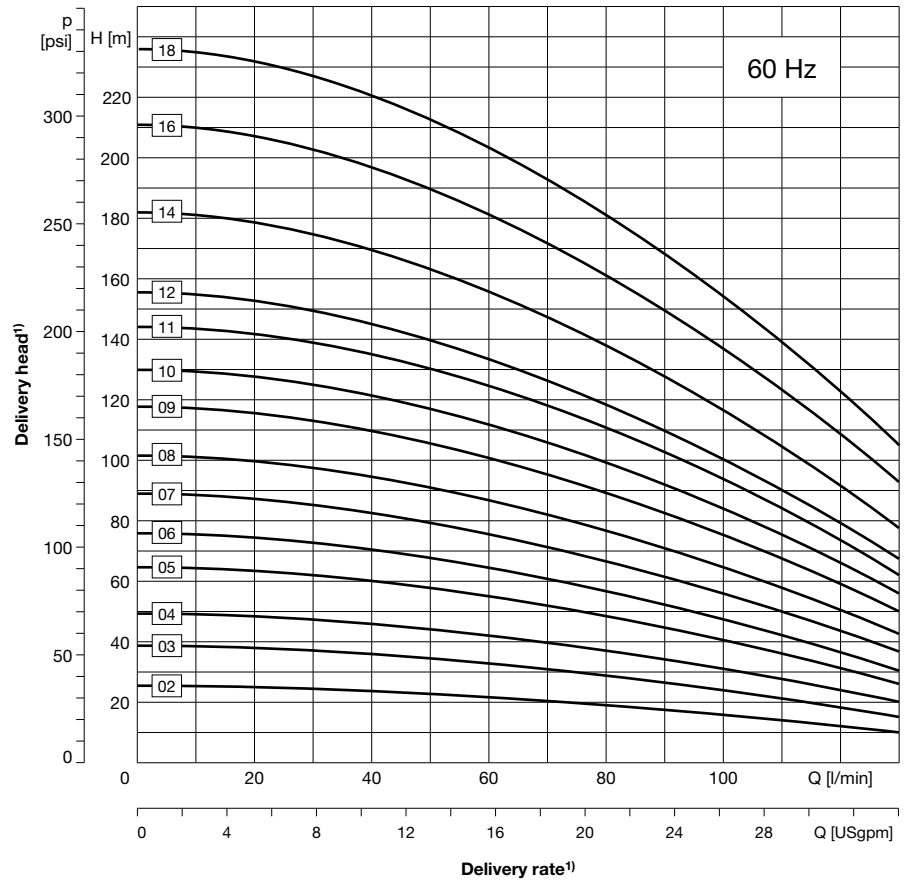
60 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 130 l/min |
| Delivery head H_{max} | 238 m |
| Immersion depth t_{max} | 481 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

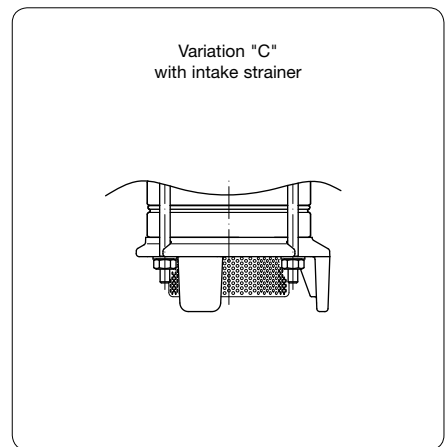
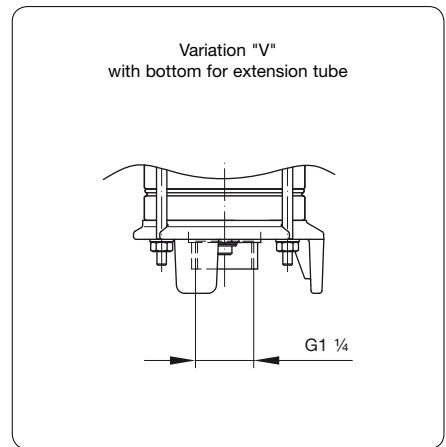
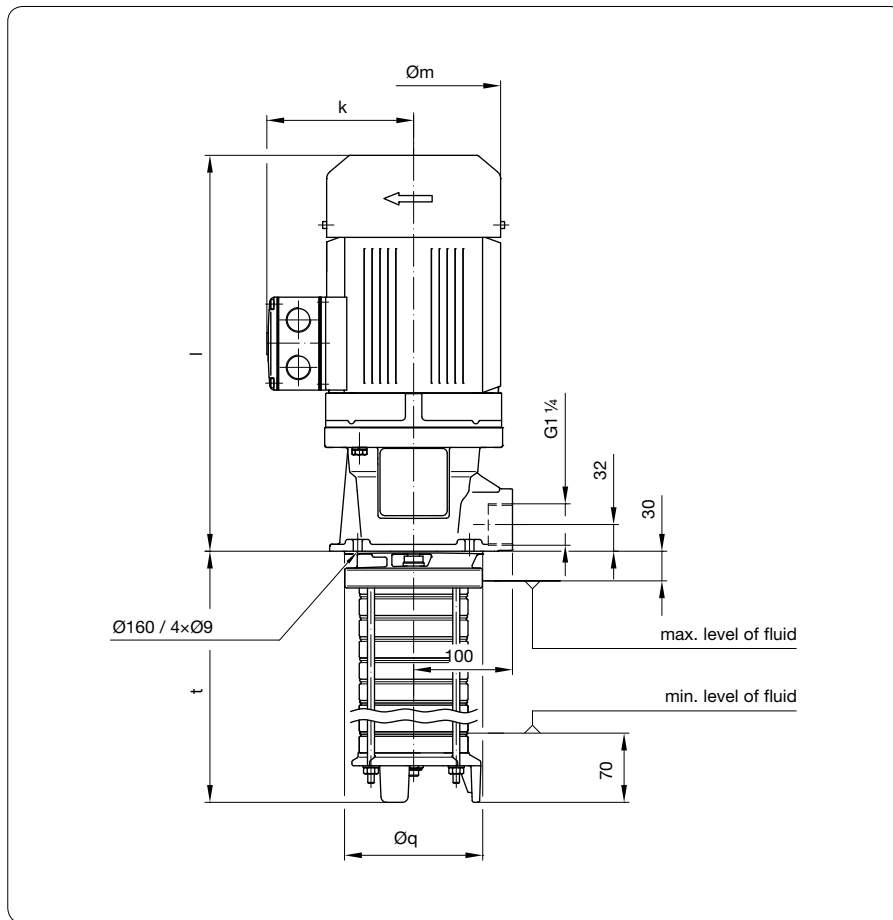
| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 04 – Immersion pumps, sealless 60 Hz, closed impellers



PSR

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 [A] | Speed n_N [min ⁻¹] | $\varnothing m$ | k | l | | | | $\varnothing q$ |
| PSR | 04 | 02 | 137 | 265/460 | F | 0,62 | 2,06/1,19 | 3446 | 140 | 114 | 223 | 140 | 13,1 | 60 | G1 $\frac{1}{4}$ |
| | | 03 | 158 | | G | 0,86 | 2,56/1,48 | 3410 | 140 | 114 | 223 | 140 | 13,4 | 60 | |
| | | 04 | 180 | | H | 1,26 | 4,07/2,35 | 3368 | 140 | 114 | 223 | 140 | 14,1 | 60 | |
| | | 05 | 201 | | J | 1,8 | 5,0/2,9 | 3460 | 176 | 149 | 406 | 140 | 26,6 | 64 | |
| | | 06 | 223 | | | 26,9 | | | | | | | | | |
| | | 07 | 244 | | | 30,8 | | | | | | | | | |
| | | 08 | 266 | | K | 2,6 | 7,5/4,3 | 3400 | 176 | 149 | 406 | 140 | 31,1 | 64 | |
| | | 09 | 287 | | | 33,8 | | | | | | | | | |
| | | 10 | 309 | | L | 3,6 | 10,1/5,82 | 3500 | 196 | 155 | 427 | 140 | 34,1 | 70 | |
| | | 11 | 330 | | | 34,4 | | | | | | | | | |
| | | 12 | 352 | | | 41,0 | | | | | | | | | |
| | | 14 | 395 | | M | 4,5 | 12,7/7,3 | 3480 | 196 | 155 | 447 | 140 | 41,6 | 72 | |
| | | 16 | 438 | 54,2 | | | | | | | | | | | |
| | | 18 | 481 | Δ 460 | N | 6,2 | Δ 11,5 | 3490 | 257 | 182 | 530 | 140 | 54,8 | 72 | |

PSR 06 – Immersion pumps, sealless

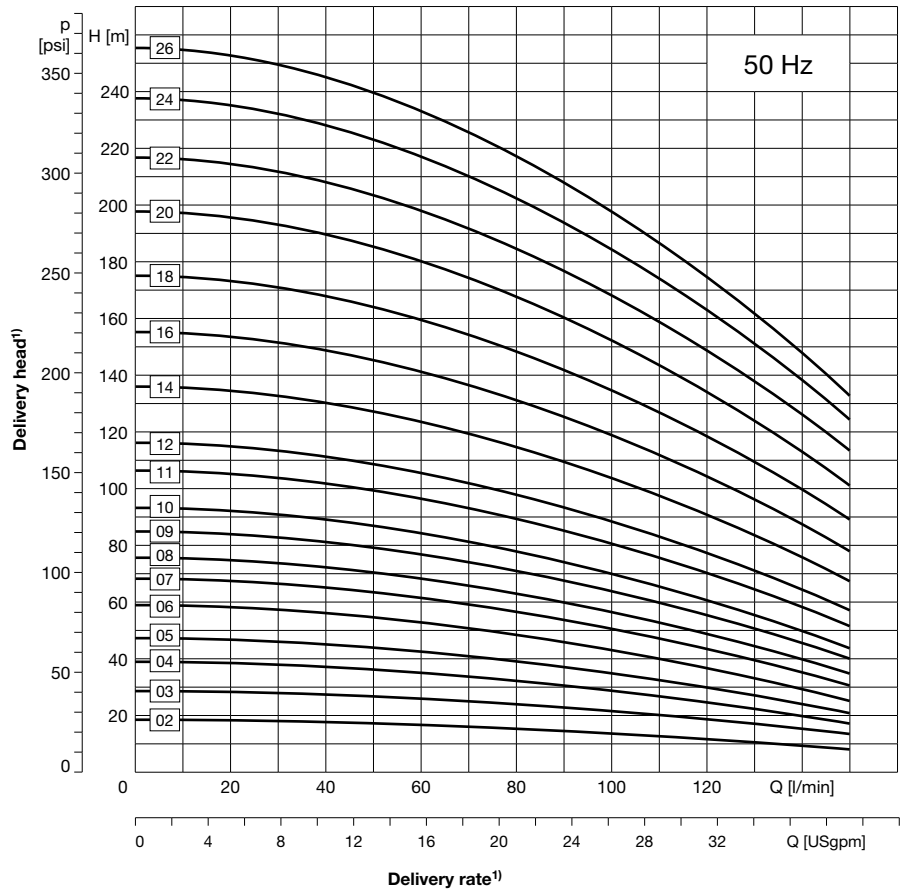
50 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 150 l/min |
| Delivery head H_{max} | 255 m |
| Immersion depth t_{max} | 747 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

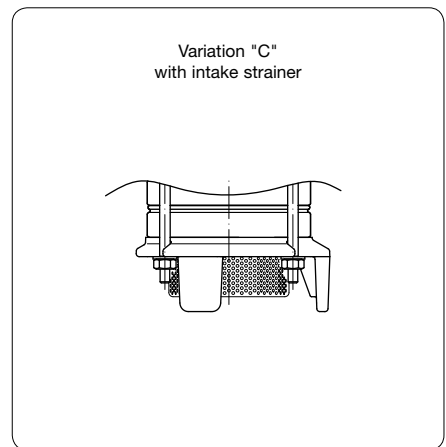
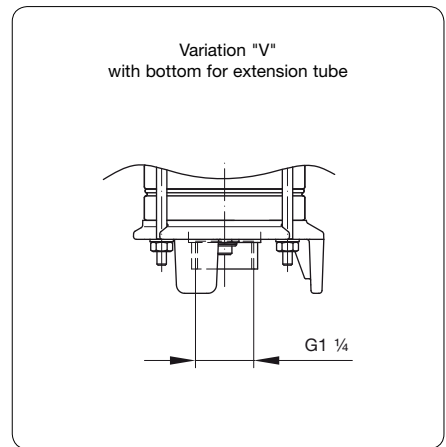
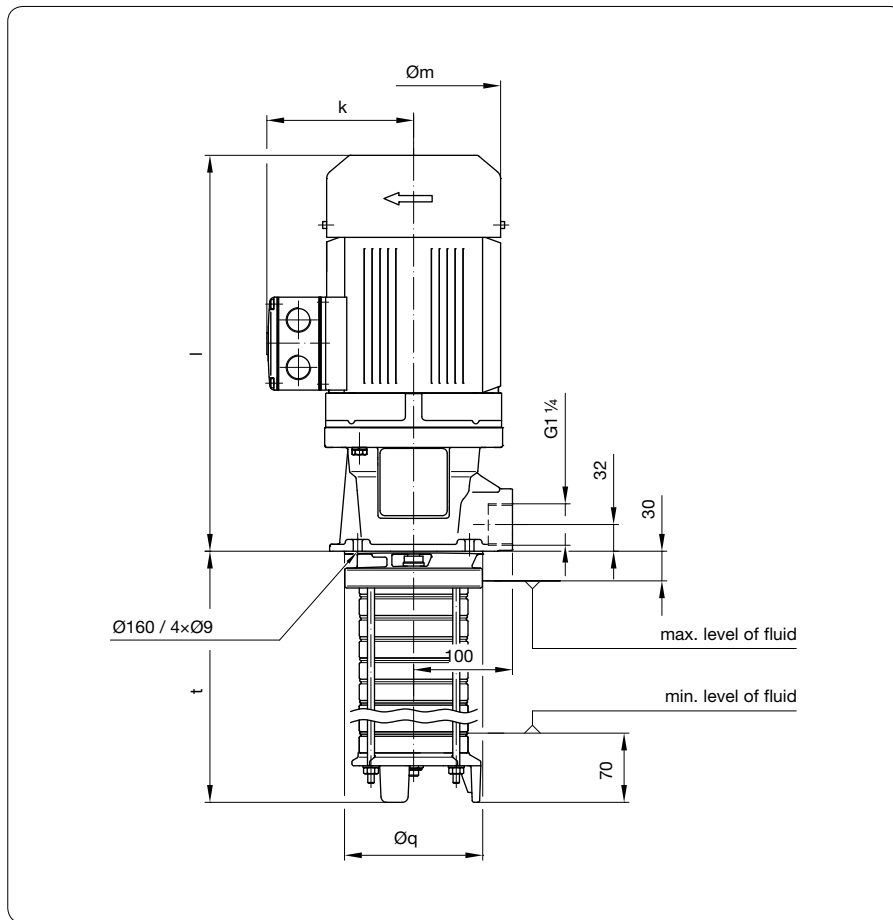
| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 06 – Immersion pumps, sealless 50 Hz, closed impellers



PSR

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] | $\varnothing m$ | k | l | | | | $\varnothing q$ |
| PSR | 06 | 02 | 147 | 230/400 | F | 0,55 | 2,06/1,19 | 2836 | 140 | 114 | 223 | 140 | 13,2 | 58 | G1 1/4 |
| | | 03 | 172 | | G | 0,75 | 2,56/1,48 | 2807 | 140 | 114 | 223 | 140 | 13,6 | 58 | |
| | | 04 | 197 | | H | 1,1 | 4,07/2,35 | 2730 | 140 | 114 | 223 | 140 | 13,9 | 58 | |
| | | 05 | 222 | | | 14,3 | | | | | | | | | |
| | | 06 | 247 | | J | 1,5 | 4,95/2,86 | 2850 | 176 | 149 | 396 | 140 | 26,8 | 60 | |
| | | 07 | 272 | | | 27,1 | | | | | | | | | |
| | | 08 | 297 | | | 28,5 | | | | | | | | | |
| | | 09 | 322 | | | 28,8 | | | | | | | | | |
| | | 10 | 347 | | K | 2,2 | 7,15/4,13 | 2840 | 176 | 149 | 406 | 140 | 29,2 | 60 | |
| | | 11 | 372 | | | 32,2 | | | | | | | | | |
| | | 12 | 397 | | L | 3,0 | 10,0/5,75 | 2885 | 196 | 155 | 427 | 140 | 32,5 | 67 | |
| | | 14 | 447 | | | 33,1 | | | | | | | | | |
| | | 16 | 497 | M | 4,0 | 13,0/7,5 | 2880 | 196 | 155 | 447 | 140 | 35,1 | 69 | | |
| | | 18 | 547 | | 35,8 | | | | | | | | | | |
| | | 20 | 597 | Δ 400 | N | 5,5 | 11,2 | 2900 | 257 | 182 | 530 | 140 | 47,8 | 71 | |
| | | 22 | 667 | | | | | | | | | | 48,5 | | |
| 24 | 697 | 49,2 | | | | | | | | | | | | | |
| 26 | 747 | 50,0 | | | | | | | | | | | | | |

PSR 06 – Immersion pumps, sealless

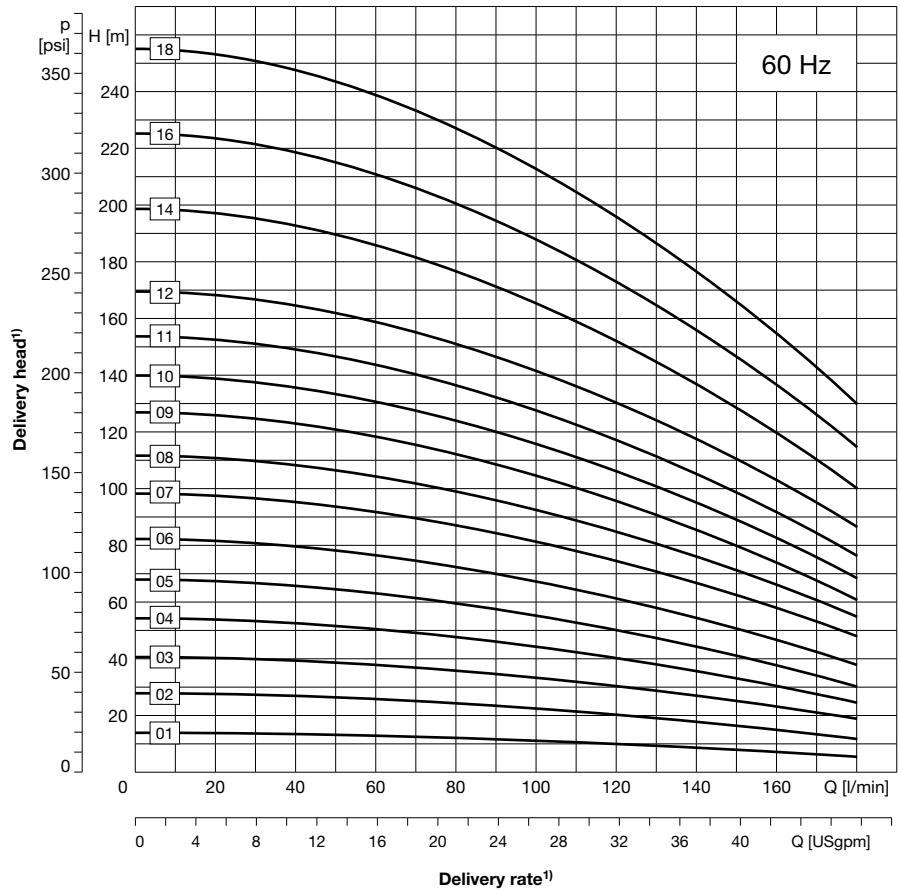
60 Hz, closed impellers



PSR

Features

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



Technical Data

| | |
|---------------------------|--|
| Delivery rate Q_{max} | 180 l/min |
| Delivery head H_{max} | 255 m |
| Immersion depth t_{max} | 547 mm |
| Kinematic viscosity | max. 20 mm ² /s |
| Delivery temperature | -10 °C to +80 °C |
| Grain size | max. Ø2 mm |
| Contamination | max. 50 g/m ³ |
| Direction of rotation | clockwise (as viewed looking down on the motor's ventilation side) |
| Fluids delivered | Emulsions, cooling and cutting oils, cleaning liquids, water, mild acids |

Mechanical design

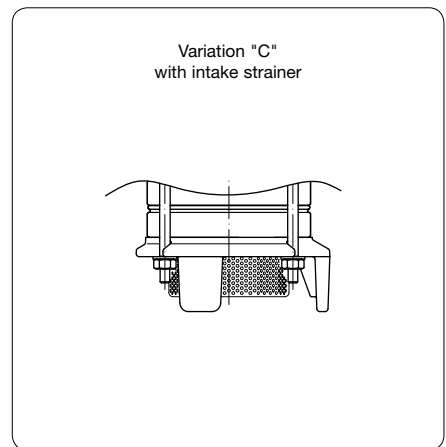
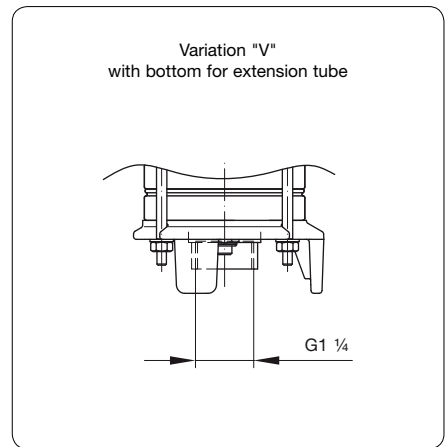
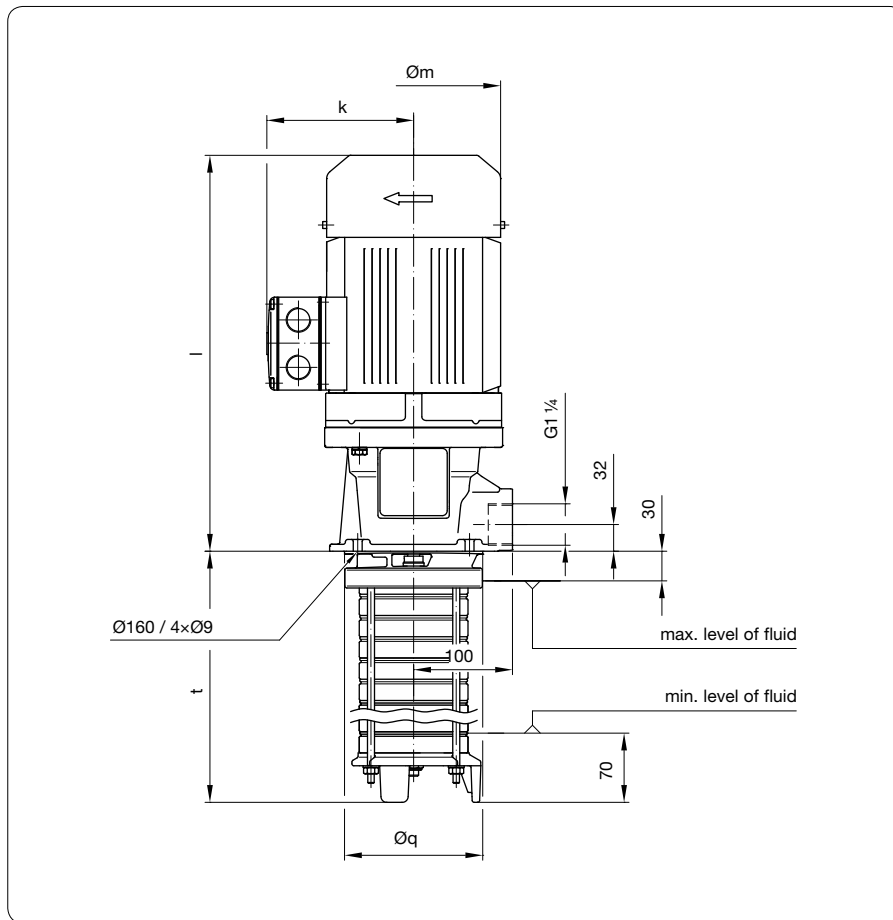
| Component | Material |
|--------------------------------------|---|
| Flange | EN-GJL-200 |
| Shaft | Stainless steel 1.4122 |
| Gap bush ($H_{max} < 150$ m) | POM |
| Mechanical seal ($H_{max} > 150$ m) | WC, carbon, FKM, stainless steel 1.4571 |
| Impeller | Stainless steel 1.4301 |
| Intermediate chamber | Stainless steel 1.4301 |
| Tension anchor | Stainless steel 1.4057 |
| Bushing | Stainless steel 1.4301 |
| Pumps bottom | Stainless steel 1.4308 |
| Elastomers | FPM |

Variations

| Component | Material |
|---------------------------|--|
| Flange | with chemical surface sealing or coated with paint |
| Bottom for extension tube | Stainless steel 1.4301 |
| Intake strainer | Stainless steel 1.4301 |

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.

PSR 06 – Immersion pumps, sealless 60 Hz, closed impellers



PSR

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 | | | | Øq | | |
| PSR | 06 | 01 | 122 | 265/460 | F | 0,62 | 2,06/1,19 | 3446 | 140 | 114 | 223 | 140 | 13,2 | 60 | G1 1/4 | | |
| | | 02 | 147 | | G | 0,86 | 2,56/1,48 | 3410 | 140 | 114 | 223 | 140 | 13,7 | 60 | | | |
| | | 03 | 172 | | H | 1,26 | 4,07/2,35 | 3368 | 140 | 114 | 223 | 140 | 14,1 | 60 | | | |
| | | 04 | 197 | | J | 1,75 | 4,95/2,86 | 3465 | 176 | 149 | 396 | 140 | 26,2 | 64 | | | |
| | | 05 | 222 | | K | 2,55 | 7,15/4,13 | 3460 | 176 | 149 | 406 | 140 | 27,5 | 64 | | | |
| | | 06 | 247 | | | | | | | | | | 27,9 | | | | |
| | | 07 | 272 | | L | 3,45 | 10,0/5,75 | 3505 | 196 | 155 | 427 | 140 | 30,7 | 70 | | | |
| | | 08 | 297 | | | | | | | | | | 31,1 | | | | |
| | | 09 | 322 | | | | | | | | | | 33,2 | | | | |
| | | 10 | 347 | | M | 4,6 | 13,0/7,5 | 3495 | 196 | 155 | 447 | 140 | 33,6 | 72 | | | |
| | | 11 | 372 | | | | | | | | | | 34,0 | | | | |
| | | 12 | 397 | | | | | | | | | | 46,0 | | | | |
| | | 14 | 447 | N | 6,2 | 11,5 | 3490 | 257 | 182 | 530 | 140 | 46,8 | 72 | | | | |
| | | 16 | 497 | | | | | | | | | 52,0 | | | | | |
| | | 18 | 547 | | | | | | | | | 52,8 | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | Δ 460 | O | 8,6 | 14,5 | 3490 | 257 | 182 | 530 | 140 | | 52,8 | 72 |

PSR – Immersion pumps, sealless

Order key

P

S

R

Series

Frame size

- 02 = 2 m³/h (nominal delivery rate)
- 04 = 4 m³/h (nominal delivery rate)
- 06 = 6 m³/h (nominal delivery rate)

Stages

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

- 01 = 1-stage
- ...
- 30 = 30-stages

Materials

- G = gray cast iron (standard)
- C = GG with chemical surface sealing
- T = GG coated with paint

Seal

- B = gap bush ($H_{max} < 150$ m)
- G = machanical seal ($H_{max} > 150$ m)

Pump design

- S = standard design
- V = bottom for extension tube
- C = bottom equipped with intake strainer

Immersion depth in mm

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

- 122 = 122 mm
- ...
- 739 = 739 mm

Motor index

To determine the desired motor index 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 (to 4 kW)
265/460 V at 60 Hz (to 4,6 kW)
- 02 = Δ400 V at 50 Hz (from 5,5 kW)
Δ460 V at 60 Hz (from 6,3 kW)
- 05 = **Standard for Europe**
230/400 V at 50 Hz (from 4 kW)
Δ400 V at 50 Hz (from 4 kW)
- ... further designs on request

Motor design

- AA = standard to 0,55 kW (insulation class F, IP 54, 2-pole)
- BA = standard from 0,75 kW (insulation class F, IP 54, 2-pole, IE2)
- ... further designs on request

Order example: PSR0218GBS481J01BA

Series: **PSR**, Frame size: **02**, **18**-stages, Material: **G** grey cast iron, Seal: **B** gap bush, Pump design: **S** standard design, Immersion depth: **481** mm, Motor index: **J** 1,5 kW, Power supply: **01** 230/400 V 50 Hz; 265/460 V 60Hz, Motor design: **BA** standard form 0,75 kW

PSR

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