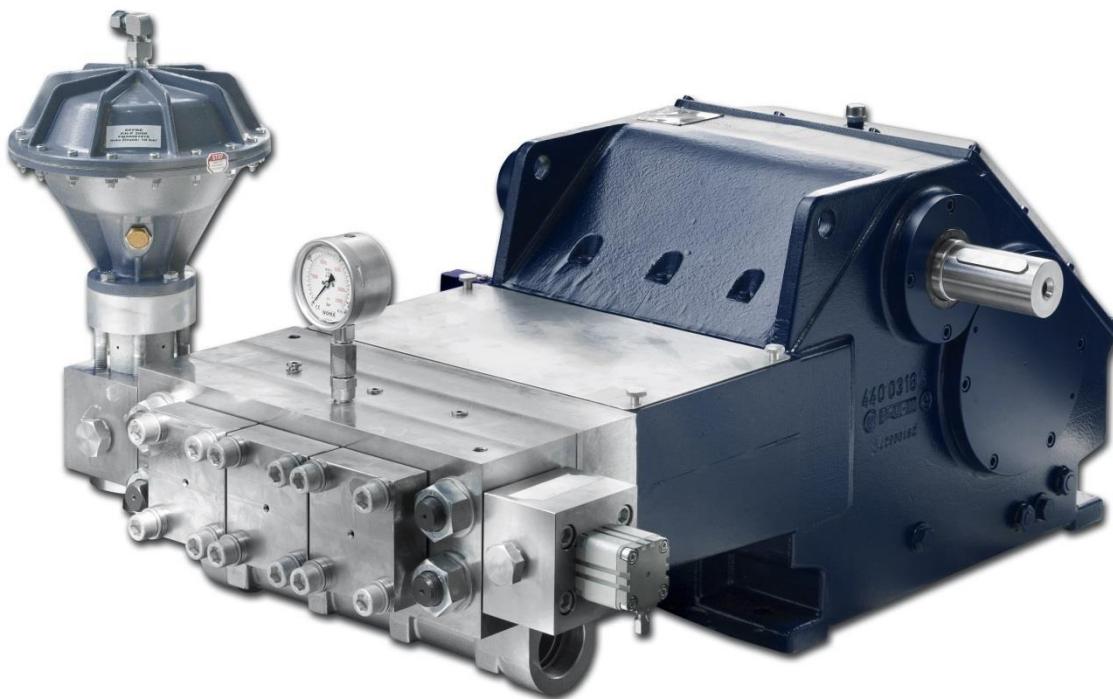


High-pressure pump 400Z

The type 400Z high-pressure pump provides a max. operating pressure of 1,500 bar and a max. flow rate of 380 l/min.



With operating pressures of up to 1,500 bar and nominal flow rates of up to 744 l/min, the Z-series is the ideal pump for industrial cleaning as well as for paint removal and descaling.

Proper guidance of the plunger ensures a long service life of the sealing system. The used sealing water system prevents leakage, allows for a particularly high durability of the high-pressure seals and counteracts the intrusion of air. The central valve design of the pump results in a high volumetric efficiency. Pumps with an operating pressure of 1,000 bar or more are equipped with carbide plungers, which ensure a long service life and thus low maintenance costs.

On request, the availability of an ATEX version can be checked.



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| Technical data | | |
|--|----------------------|--|
| Weight | approx. | 980 kg |
| Inlet pressure connection | | IG 2 ½" |
| Pressure connection | | M24x1.5 M36x2 M42x2 |
| Cooling water connection | | G ½" |
| Crankshaft | max. min. | 507 1/min Depends on operation parameters |
| Drive shaft | | Diameter 70mm k6, feather key DIN 6885 Sheet 1, A20 x 12 x 100 |
| Torque at drive shaft | max. | 1,802 Nm |
| Moment of inertia J | i = 2.96 i = 3.60 | 0.167 kgm² 0.135 kgm² |
| Centrifugal moment GD² | i = 2.96 i = 3.60 | 6.54 Nm² 5.29 Nm² |
| Inlet pressure | min. max. | 1.5 bar 5.0 bar |
| Pressure amplitude | max. | ± 2.0 bar |
| Flow temperature | min. max. | +5 °C +45 °C (higher temperatures on request) |
| Flow inlet requirement | min. | 1.5x nominal feed rate of the pump, dependent on the conversion set |
| Emission sound pressure level according to DIN EN ISO 11200 | | >80 dB(A) |
| Oil capacity of transmission end | approx. | 30 l |
| Oil viscosity ISO VG under DIN 51517-2 or -3 | | 320 mm²/s |
| Oil pressure lubrication | | 2.5 - 5.0 bar |
| Oil pressure set value overflow valve | | 5.0 bar |
| Oil filter fineness | | 0.025 mm |
| Oil temperature | max. Set value | 80 °C 60 - 70 °C |
| Heat exchanger cooling water requirement | appr. | 10 - 20 l/min |
| Heat exchanger cooling water temperature | min. max. | +5 °C +45 °C |
| Heat exchanger cooling water pressure | min. max. | 1.5 bar 10 bar |

| Performance variants** | | | | | | | | | | | | | | |
|------------------------|------------------|----------------|------------|-----------|-----------|---------|---------|---------|------|-----|-----|-----|-----|------|
| Pinion shaft | | Crank shaft | P26 | | P28 | | P30 | | P35 | | P45 | | P50 | |
| 1,500 [1/min] | 1,800 [1/min] | | 1,500 bar* | 1,300 bar | 1,150 bar | 850 bar | 500 bar | 400 bar | | | | | | |
| 2.96 | | 507* | 264 | 97 | 268 | 113 | 275 | 131 | 281* | 182 | 278 | 306 | 276 | 380* |
| | 3.60 | 500 | 261 | 95 | 265 | 112 | 271 | 129 | 277 | 179 | 274 | 302 | 272 | 375 |
| 3.60 | | 417 | 217 | 79 | 221 | 93 | 226 | 108 | 231 | 149 | 229 | 252 | 227 | 312 |

* Maximum values of the pump

** Technical changes reserved

Overview pump 400Z

