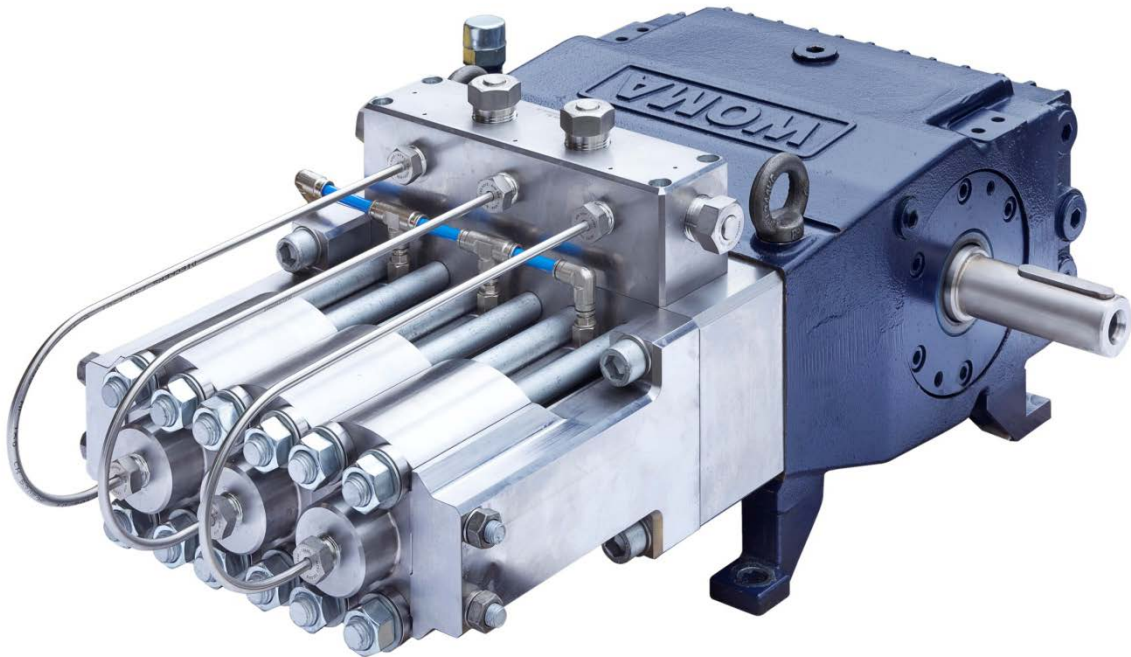


High-pressure pump 70C

The type 70C high-pressure pump provides a max. operating pressure of 4,000 bar and a max. flow rate of 5.3 l/min.



The ultra high-pressure pumps of the C series offer the highest pressure level of the WOMA pump portfolio. This makes the pumps of the C series ideal for application in the cutting area.

Built in centric valve design, these plunger pumps have high volumetric efficiencies even at very high pressures. The hard metal plungers and plunger guidance used are extremely stable to ensure a long service life and thus low maintenance costs at very high pressures up to 4,000 bar. Furthermore, they are insensitive to thermal shocks. The sealing water system prevents leakage, allows higher durability of the high-pressure seals and counteracts the intrusion of air.

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

| Technical data | | |
|---|-------------------|--|
| Weight | approx. | 159 kg |
| Inlet pressure connection | | 3x IG ½" |
| Pressure connection with flange | | 1 1/8"-12 UNF |
| Cooling water connection | | IG ¾" |
| Crankshaft | max. min. | 870 1/min Depends on operation parameters |
| Drive shaft | | Diameter 40mm k6, feather key DIN 6885 Sheet 1, A12 x 8 x 70 |
| Torque at drive shaft | max. | 450 Nm |
| Moment of inertia J | | 0.020 kgm ² |
| Centrifugal moment GD ² | | 0.78 Nm ² |
| Inlet pressure | min. max. | 2.0 bar 5.0 bar |
| Pressure amplitude | max. | ± 2.0 bar |
| Flow temperature | min. max. | +5 °C +30 °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 | ca. | 3.2 l |
| Oil viscosity ISO VG under DIN 51517-2 or -3 | | 320 mm ² /s |
| Oil temperature | max. Set value | 80 °C 60 - 70 °C |
| Heat exchanger cooling water requirement | approx. | 1 - 2 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 | P9 | | P9 | | P9 | |
| 750 [1/min] | 870 [1/min] | | 4,000 bar* | | 3,500 bar | | 3,000 bar | |
| Gear ratio | | [1/min] | [kW] | [l/min] | [kW] | [l/min] | [kW] | [l/min] |
| | 1.00 | 870* | 35* | 4.7 | 32 | 5.0 | 29 | 5.3* |
| 1.00 | | 750 | 30 | 4 | 28 | 4.3 | 25 | 4.5 |

* Maximum values of the pump

** Technical changes reserved

Overview pump 70C

