

High-pressure pump 1002

The type 1002 high-pressure plunger pump provides a max. operating pressure of 750 bar and a max. flow rate of 171 l/min.



The high-pressure plunger pumps of the 2-series with operating pressures up to 750 bar and flow rates up to approx. 224 l/min, are ideal for the cleaning of pipes and tube bundles, vessels and containers. Variant V of the 2-series has been specially developed for applications with elevated inlet pressure.

The sealing system of this plunger pump is particularly service-friendly due to fewer wearing parts and easy maintenance. The ceramic plungers used are highly resistant to acidic and basic fluids. Alternatively, the pump is available with coated steel plungers for increased wear resistance and resistance to thermal shocks. The sealing water system used prevents leakage, enables a higher durability for the high-pressure seals and counteracts the ingress of air. As a result, the 2-series offers a high price-performance ratio even in rough working conditions.

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| Technical data | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| NA 1. | | 254 kg (with splash lubrication system) | | | | | | | | |
| Weight | approx. | 264 kg (with pressure oil lubrication) | | | | | | | | |
| Inlet pressure connection | G 1 ½"A | | | | | | | | | |
| | | 2 x aM24x1,5 und 1 x aM36x2 | | | | | | | | |
| Pressure connection with flange | | 2 x G1/2"A und 1 x G3/4"A | | | | | | | | |
| | 1 x iM30x1,5 | | | | | | | | | |
| Cooling water connection | | G 1"A | | | | | | | | |
| Crankshaft | 500 1/min | | | | | | | | | |
| | Depends on operation parameters | | | | | | | | | |
| Drive shaft | Diameter 40mm k6, | | | | | | | | | |
| Dive share | feather key DIN 6885 Sheet 1, A12 x 8 x 70 | | | | | | | | | |
| Torque at drive shaft | max. | 365 Nm | | | | | | | | |
| | | 0.015 kgm² | | | | | | | | |
| | | 0.011 kgm² | | | | | | | | |
| 1 | | 0.59 Nm ² | | | | | | | | |
| | = 3.63 | 0.43 Nm ² | | | | | | | | |
| Delivery medium inlet pressure | | 4.51 (0.01 4.470)(1.1 | | | | | | | | |
| Pump head type 2 | | 1.5 bar (2.0 bar at < 170 l/min) | | | | | | | | |
| Decree has allows a O.V. | max. | 5.0 bar | | | | | | | | |
| Pump head type 2-V | min. | 3.0 bar | | | | | | | | |
| Pormissible prossure amplitude | max. max. | 8.0 bar ± 2.0 bar | | | | | | | | |
| Permissible pressure amplitude Flow temperature | +5 °C | | | | | | | | | |
| l low temperature | min. max. | +45 °C (higher temperatures on request) | | | | | | | | |
| Flow inlet requirement | 1.5x nominal feed rate of the pump, | | | | | | | | | |
| i low illiet requirement | dependent on the conversion set | | | | | | | | | |
| Emission sound pressure level | | | | | | | | | | |
| according to DIN EN ISO 11203 | >80 dB(A) | | | | | | | | | |
| Oil capacity of transmission end | 61 | | | | | | | | | |
| Oil viscosity ISO VG under DIN 51517-2 or | 320 mm²/s | | | | | | | | | |
| Oil pressure lubrication | - | 2.5 - 5.0 bar (optional / performance related) | | | | | | | | |
| Oil pressure set value overflow valve | | 5.0 bar (optional / performance related) | | | | | | | | |
| Oil filter fineness | | 0.025 mm (optional / performance related) | | | | | | | | |
| Oil temperature | max. | 80 °C | | | | | | | | |
| • | t value | 60 - 70 °C | | | | | | | | |
| Heat exchanger cooling water requirement | | 5 - 10 l/min | | | | | | | | |
| Heat exchanger cooling water temperature | | +5 °C | | | | | | | | |
| l land the same of | max. | +45 °C | | | | | | | | |
| Heat exchanger cooling water pressure | min. | 1.5 bar | | | | | | | | |
| J 3 3 1 1 2 1 2 3 1 1 2 1 2 3 1 1 2 3 | max. | 10 bar | | | | | | | | |

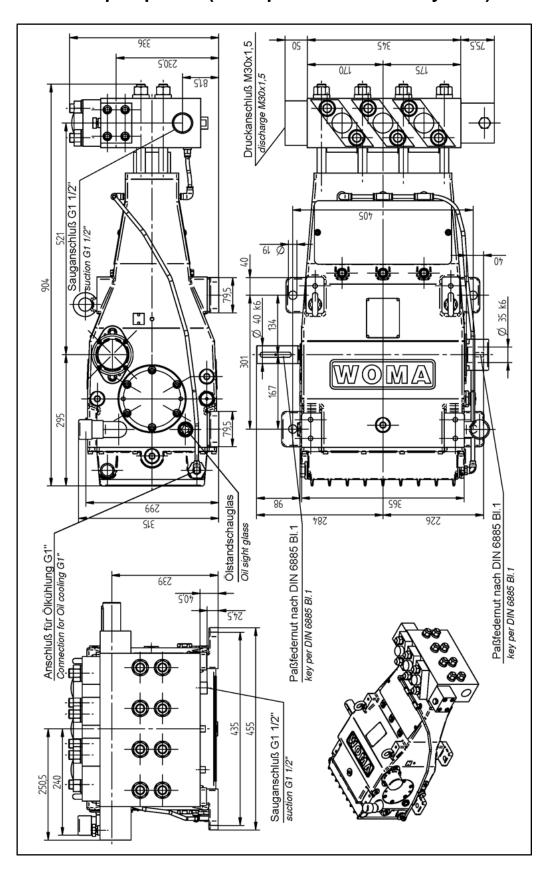


| Performance variants** | | | | | | | | | | | | | |
|------------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Pinion shaft | | Crank | P22 | | P26 | | P35 | | P40 | | P45 | | |
| 1,500 | 1,800 | shaft | 750 bar* | | 550 bar | | 300 bar | | 230 bar | | 180 bar | | |
| [1/min] | [1/min] | Silait | 750 | Dai | Jai 330 | | Juo bai | | 230 Dai | | loo bai | | |
| Gear ratio | | [1/min] | [kW] | [l/min] | [kW] | [l/min] | [kW] | [l/min] | [kW] | [l/min] | [kW] | [l/min] | |
| 3.00 | | 500* | 54 | 38 | 56 | 54 | 57 | 102 | 58* | 134 | 57 | 171* | |
| | 3.63 | 496 | 54 | 38 | 56 | 54 | 57 | 101 | 57 | 133 | 57 | 169 | |
| 3.63 | | 413 | 45 | 31 | 47 | 45 | 47 | 84 | 48 | 111 | 48 | 141 | |

^{*} Maximum values of the pump ** Technical changes reserved



Overview pump 1002 (with splash lubrication system)





Overview pump 1002 (with pressure oil lubrication)

