

## High-pressure pump 1902

The type 1902 high-pressure plunger pump provides a max. operating pressure of 750 bar and a max. flow rate of 184 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.



Technical data								
Weight approx.	369 kg							
Inlet pressure connection	G 1 1/2"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 max.	424 1/min							
min.								
Drive shaft	Diameter 50mm k6,							
	feather key DIN 6885 Sheet 1, A14 x 9 x 72							
Torque at drive shaft max								
Moment of inertia J	0.0294 kgm²							
Centrifugal moment GD <sup>2</sup>	1.152 Nm <sup>2</sup>							
Delivery medium inlet pressure								
Pump head type 2 min.	,							
max								
Pump head type 2-V min.								
max.								
Permissible pressure amplitude max								
Flow temperature min.								
Flow inlet requirement max.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
Tow linet requirement   Tilling	dependent on the conversion set							
Emission sound pressure level								
according to DIN EN ISO 11203	>80 dB(A)							
Oil capacity of transmission end approx.	81							
Oil viscosity ISO VG under DIN 51517-2 or -3	320 mm²/s							
Oil temperature max.								
Set value	2.5 - 5.0 bar							
Oil pressure set value overflow valve	5.0 bar							
Oil filter fineness	0.025 mm							
Oil temperature max	80 °C							
Set value								
Heat exchanger cooling water requirement appr.	5 - 10 l/min							
Heat exchanger cooling water temperature min.	+5 °C							
max	_							
Heat exchanger cooling water pressure min.								
max	10 bar							

Performance variants**											
Pinion	shaft	Crank shaft	P	30	P	35	P	40	P	45	
1,500 [1/min]	1,800 [1/min]		750	bar*	ar* 650 bar 500 bar		bar	400 bar			
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	
	4.25	424*	110	78	131	108	134	144	137*	184*	
4.25		353	92	65	109	90	112	120	114	153	

<sup>\*</sup> Maximum values of the pump \*\* Technical changes reserved



## **Overview pump 1902**

