

## High-pressure pump 70M

The type 70M high-pressure pump provides a max. operating pressure of 3,000 bar and a max. flow rate of 9.8 l/min.



The high-pressure plunger pumps of the M-series provide working pressures of up to 3,000 bar. This makes the pumps of the M-series ideal for work such as cutting, fragmenting, stripping and de-rusting.

Built in central valve design, these plunger pumps have high volumetric efficiencies even at high pressures. The hard metal plungers used are extremely stable and ensure a long service life and therefore low maintenance costs. Furthermore, they are insensitive to temperature shocks. The guide of the plunger as well as the sealing water system ensures a long service life of the sealing system and counteracts the intrusion of air.

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



Technical data						
Weight approx.	117 kg					
Inlet pressure connection	IG ¾"					
Pressure connection with flange	9/16" UNF-LH					
Cooling water connection	IG ¾"					
Crankshaft max.	825 1/min					
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.	572 Nm					
Moment of inertia J	0.020 kgm²					
Centrifugal moment GD <sup>2</sup>	0.78 Nm²					
Inlet pressure min.	1.5 bar					
max.	5.0 bar					
Pressure amplitude max.	± 2.0 bar					
Flow temperature min.	+5 °C					
max.	+30 °C (higher temperatures on request)					
Flow inlet requirement min.	2x nominal feed rate of the pump, depending on					
	the interchangeable conversion set					
	(1.75x nominal feed rate of the pump, depending					
	on the interchangeable conversion set, if no					
Emission sound processes level	internal gearbox cooling is installed)					
Emission sound pressure level according to DIN EN ISO 11200	>80 dB(A)					
Oil capacity of transmission end approx.	3.2					
Oil viscosity ISO VG under DIN 51517-2 or -3	320 mm <sup>2</sup> /s					
Oil temperature max.	80 °C					
Set value	60 - 70 °C					
Heat exchanger cooling water requirement approx.	1 - 2 l/min					
Heat exchanger cooling water temperature min.	+5 °C					
max.	+45 °C					
Heat exchanger cooling water pressure min.	1.5 bar					
max.	10 bar					

Performance variants**							
Pinion shaft			P10		P12		
750 [1/min]	825 [1/min]	Crank shaft	3,000	) bar*	2,500 bar		
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	
	1.00	825*	33	6.0	45*	9.8*	
1.00		750	30	5.5	41	8.9	

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



## **Overview pump 70M**

