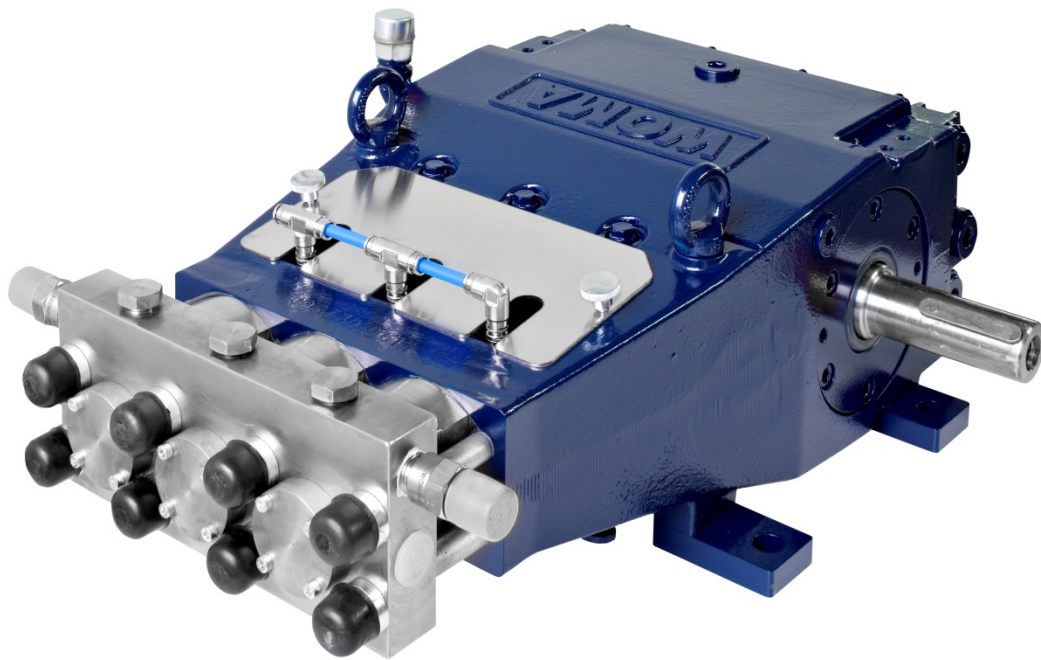


# High-pressure pump 70Y

The type 70Y high-pressure pump provides a max. operating pressure of 1,000 bar and a max. flow rate of 40 l/min.



The ultra high pressure pumps of the Y-series are particularly compact. Due to the small size and low weight, they can be easily installed in units with very small base frames. With operating pressures of up to 1000 bar, the Y-series pumps are ideally suited to a wide variety of cleaning work, e.g. in the chemical industry, oil and gas industries as well as in the area of ship cleaning.

The sealing water system used prevents leakage, enables an especially high durability of the high-pressure seals and counteracts the ingress of air. As an option, pumps of the Y-series are fitted with suction valve lifts. This elegant alternative to a bypass valve allows the water to circulate without pressure in the pump head when the water tool is not actuated. Equipped with coated steel plungers, the pump is highly resistant to wear and thermal shocks. WOMA also provides ceramic plungers for the Y-series, which are highly resistant to acidic and basic liquids.

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

Technical data		
Weight	approx.	110 kg
Inlet pressure connection		IG ¾"
Pressure connection		M22x1.5
Cooling water connection		IG ¾"
Crankshaft	max. min.	1,000 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.	492 Nm
Moment of inertia J		0.020 kgm <sup>2</sup>
Centrifugal moment GD <sup>2</sup>		0.78 Nm <sup>2</sup>
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.	1.75x nominal feed rate of the pump, dependent on the conversion set (2x the nominal flow rate of the pump, depending on interchangeable conversion set, if the optional 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 l
Oil viscosity ISO VG under DIN 51517-2 or -3		320 mm <sup>2</sup> /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	P15		P16		P18		P20	
750 [1/min]	1,000 [1/min]		1,000 bar*		1,000 bar*		850 bar		700 bar	
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
	1.00	1.000*	41	22	47	25	50	32	52*	40*
1.00		750	31	16	35	19	38	24	39	30

\* Maximum values of the pump

\*\* Technical changes reserved

## Overview pump 70Y

