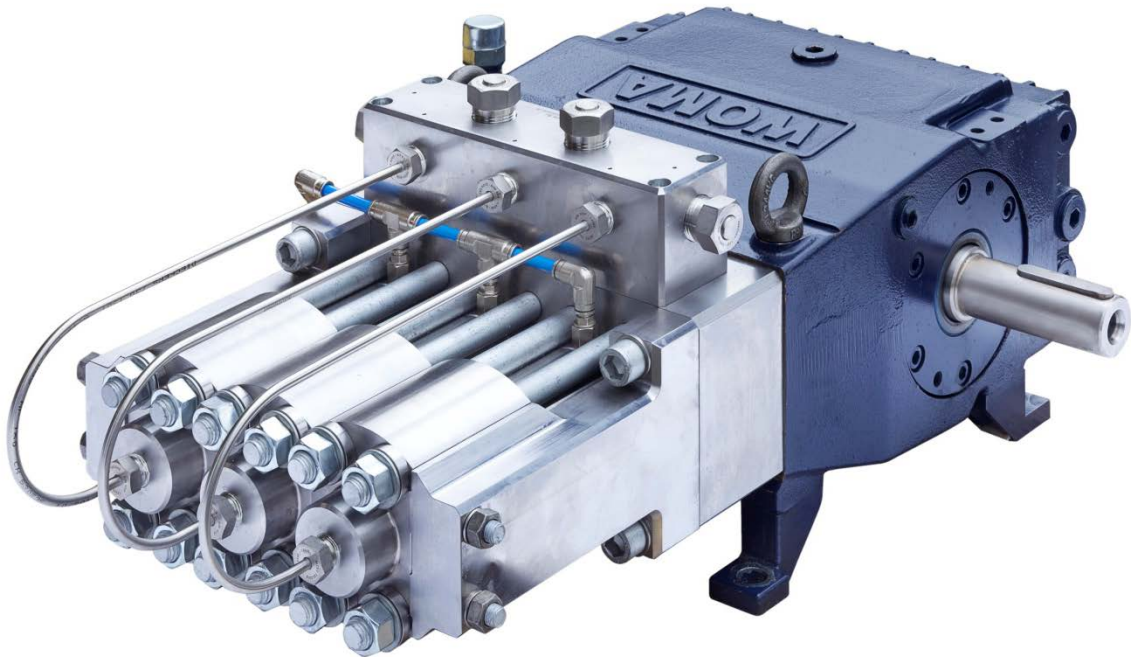


High-pressure pump 70C

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 1/2"
Pressure connection with flange		1 1/8"-12 UNF
Cooling water connection		IG 3/4"
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

