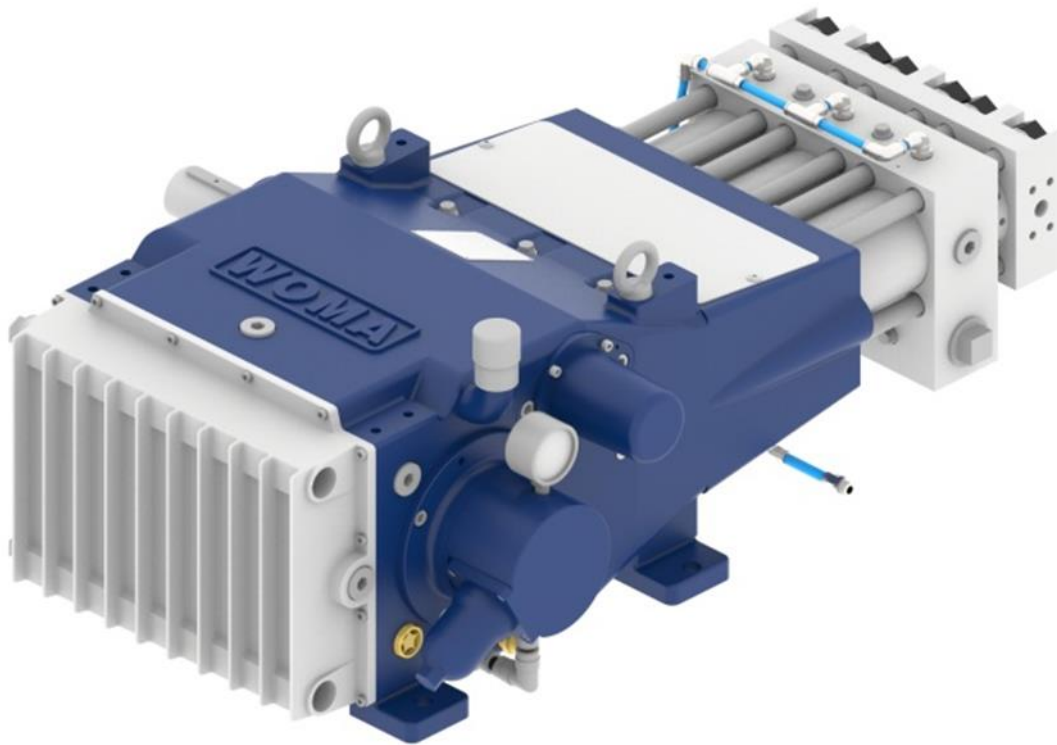


# High-pressure pump 190M

The type 190M high-pressure pump provides a max. operating pressure of 3,000 bar and a max. flow rate of 34 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.	370 kg
Inlet pressure connection		G 1 ½"
pressure connection with flange		9/16" UNF-LH
Cooling water connection		G 1"

Crankshaft	max. min.	424 1/min Depends on operation parameters
Drive shaft		Diameter 50 mm k6, feather key DIN 6885 Sheet 1, A14 x 9 x 72
Torque at drive shaft	max.	656 Nm
Moment of inertia J		0.0294 kgm <sup>2</sup>
Centrifugal moment GD <sup>2</sup>		1.152 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 +30 °C (higher temperatures on request)
Flow inlet requirement	min.	2x nominal feed rate of the pump, depending on the interchangeable conversion set (1.5x nominal feed rate of the pump, depending on the interchangeable conversion set, if no internal gearbox cooling is installed)
Emission sound pressure level according to DIN EN ISO 11200		>80 dB(A)
Oil capacity of transmission end	approx.	8 l
Oil viscosity ISO VG under DIN 51517-2 or -3		320 mm <sup>2</sup> /s
Oil pressure lubrication		1.5 - 5.0 bar
Oil pressure set value overflow valve		5.0 bar
Oil filter fineness		0.025 mm
Oil temperature	max. Set value	80 °C 60 - 70 °C
Heat exchanger cooling water requirement	approx.	2.5 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	
1,500 [1/min]	1,800 [1/min]		3,000 bar*		2,800 bar		2,500 bar		2,000 bar	
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
	4.25	424*	99	18	106	20	122	26	124*	34*
4.25		353	83	15	89	17	102	22	103	28

\* Maximum values of the pump

\*\* Technical changes reserved

## Overview pump 190M

