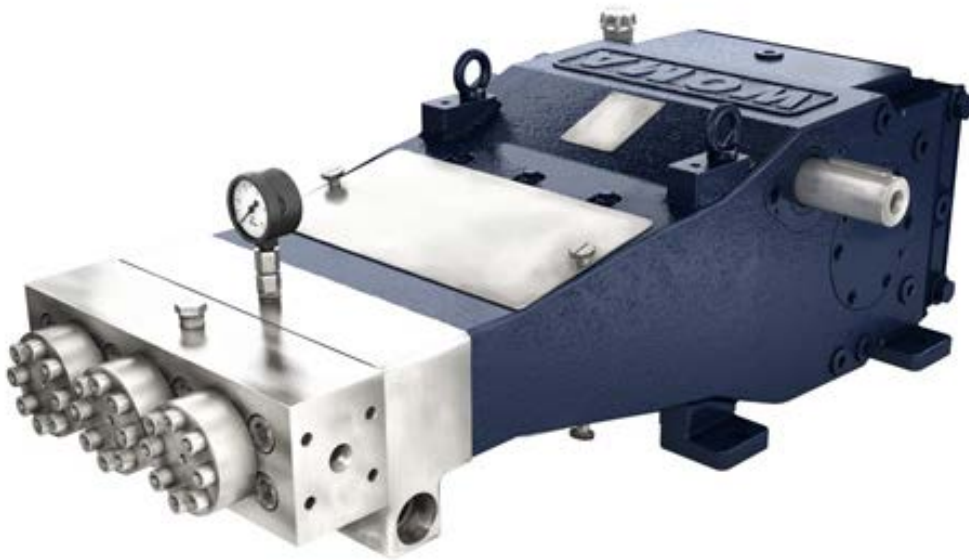


# High-pressure pump 150Z

The type 150Z high-pressure pump provides a max. operating pressure of 1,500 bar and a max. flow rate of 136 l/min.



With operating pressures of up to 1,500 bar and nominal flow rates of up to 744 l/min, the Z-series is the ideal pump for industrial cleaning as well as for paint removal and descaling.

Proper guidance of the plunger ensures a long service life of the sealing system. The used sealing water system prevents leakage, allows for a particularly high durability of the high-pressure seals and counteracts the intrusion of air. The central valve design of the pump results in a high volumetric efficiency. Pumps with an operating pressure of 1,000 bar or more are equipped with carbide plungers, which ensure a long service life and thus low maintenance costs.

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

Technical data		
Weight approx.		316 kg
Inlet pressure connection		IG 1 1/2"
Pressure connection with flange		M22x1.5 M36x2 G 1/2"
Cooling water connection		IG 1"
Crankshaft	max. min.	507 1/min Depends on operation parameters
Drive shaft		Diameter 50mm k6, feather key DIN 6885 Sheet 1, A14 x 9 x 72
Torque at drive shaft	max.	655 Nm
Moment of inertia J	i = 2.96 i = 3.69 i = 4.57	0.042 kgm <sup>2</sup> 0.030 kgm <sup>2</sup> 0.022 kgm <sup>2</sup>
Centrifugal moment GD <sup>2</sup>	i = 2.96 i = 3.69 i = 4.57	1.66 Nm <sup>2</sup> 1.17 Nm <sup>2</sup> 0.86 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.	1.5x 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	approx.	9 l
Oil viscosity ISO VG under DIN 51517-2 or -3		320 mm <sup>2</sup> /s
Oil pressure lubrication		2,5 - 5,0 bar (optional / performance related)
Oil pressure set value overflow valve		5,0 bar (optional / performance related)
Oil filter fineness		0,025 mm (optional / performance related)
Oil temperature	max. Set value	80 °C 60 - 70 °C
Heat exchanger cooling water requirement appr.		5 - 10 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	P19		P20		P22		P26		P30		P35	
1,500 [1/min]	1,800 [1/min]		1,500 bar*		1,250 bar		1,000 bar		750 bar		570 bar		420 bar	
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
2.96		507*	103	37	97	42	95	52	101	73	103	99	104*	136*
	3.69	488	100	36	93	40	91	50	97	71	99	95	100	130
3.69		407	83	30	78	34	76	41	81	59	83	79	83	109
	4.57	394	80	29	75	33	74	40	78	57	80	77	81	105
4.57		328	67	24	63	27	62	33	65	47	67	64	67	88

\* Maximum values of the pump  
 \*\* Technical changes reserved

## Overview pump 150Z

