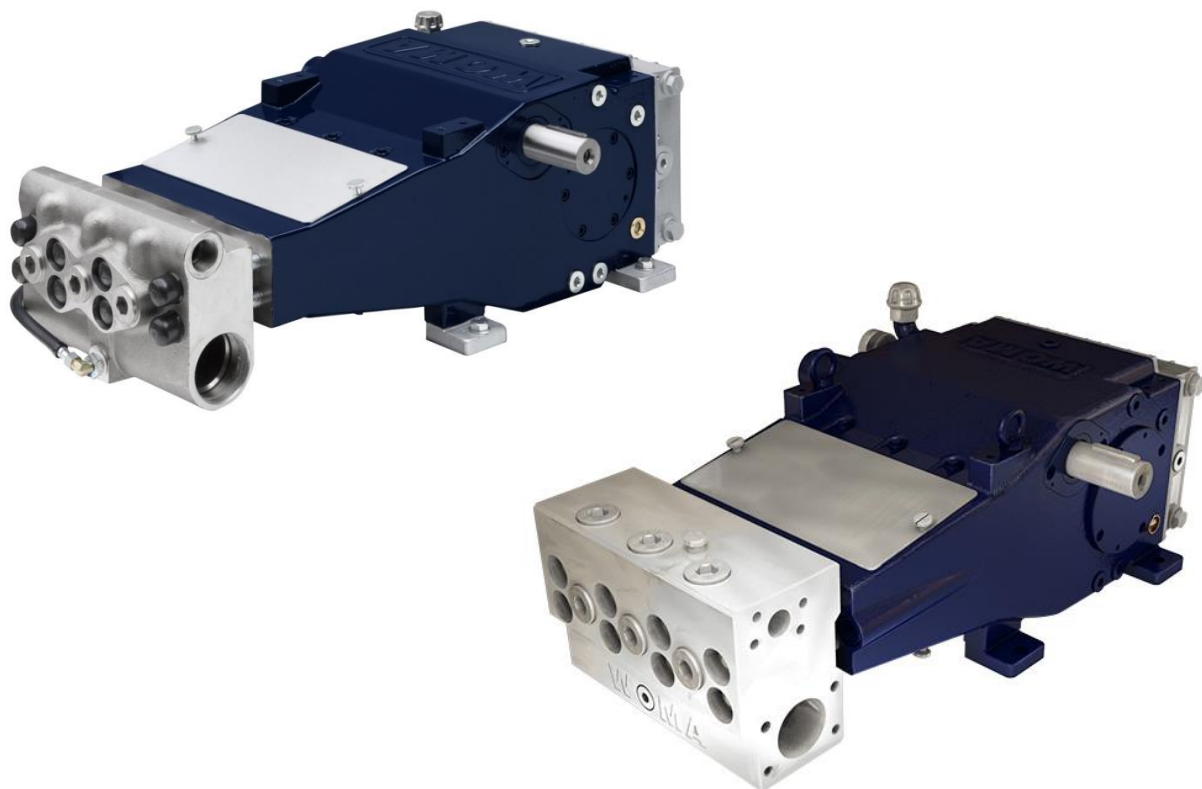


High-pressure pump 2503

The type 2503 high-pressure pump provides a max. operating pressure of 250 bar and a max. flow rate of 332 l/min.



Operating pressures up to 250 bar and nominal flow rates of up to 403 l/min make the high pressure pumps of the 03-series a specialist for descaling as well as for sewer and pipe cleaning.

In addition to the corrosion-resistant stainless steel variant, WOMA offers a cost-effective variant of gray cast iron.

The sealing system of this plunger pump is particularly service-friendly due to fewer wearing parts and easy maintenance. The ceramic plungers used are extremely resistant to acidic and basic fluids. Alternatively, the pump is available with coated steel plungers that offer increased wear resistance and resistance to thermal shocks. These features, together with the favorable price-performance ratio, make the pumps of the 03-series a good choice.

Technical data		
Weight	approx.	352 kg GGG pump head 380 kg NIRO pump head
Inlet pressure connection GGG pump head		IG 3"
Inlet pressure connection NIRO pump head		3,000 psi SAE 3" hole pattern M16; 106.4x61.9
Pressure connection GGG pump head		IG 1 1/4"
Pressure connection NIRO pump head		6,000 psi SAE 1 1/4" hole pattern M14; 66.7x31.8
Cooling water connection		IG 1"
Crankshaft	max. min.	504 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.	955 Nm
Moment of inertia J	i = 3.04 i = 3.57	0.044 kgm ² 0.036 kgm ²
Centrifugal moment GD ²	i = 3.04 i = 3.57	1.74 Nm ² 1.42 Nm ²
Inlet pressure	min. max.	1.5 bar >170 l/min 2.0 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.	8 l
Oil viscosity ISO VG under DIN 51517-2 or -3		320 mm ² /s
Oil pressure lubrication		2.5 - 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.	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	P50		P55	
1,500 [1/min]	1,800 [1/min]		250 bar*		250 bar*	
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]
	3.57	504*	128	275	155*	332*
3.04		493	125	269	151	325
3.57		420	107	229	129	277

* Maximum values of the pump

** Technical changes reserved

Overview pump 2503 NIRO

