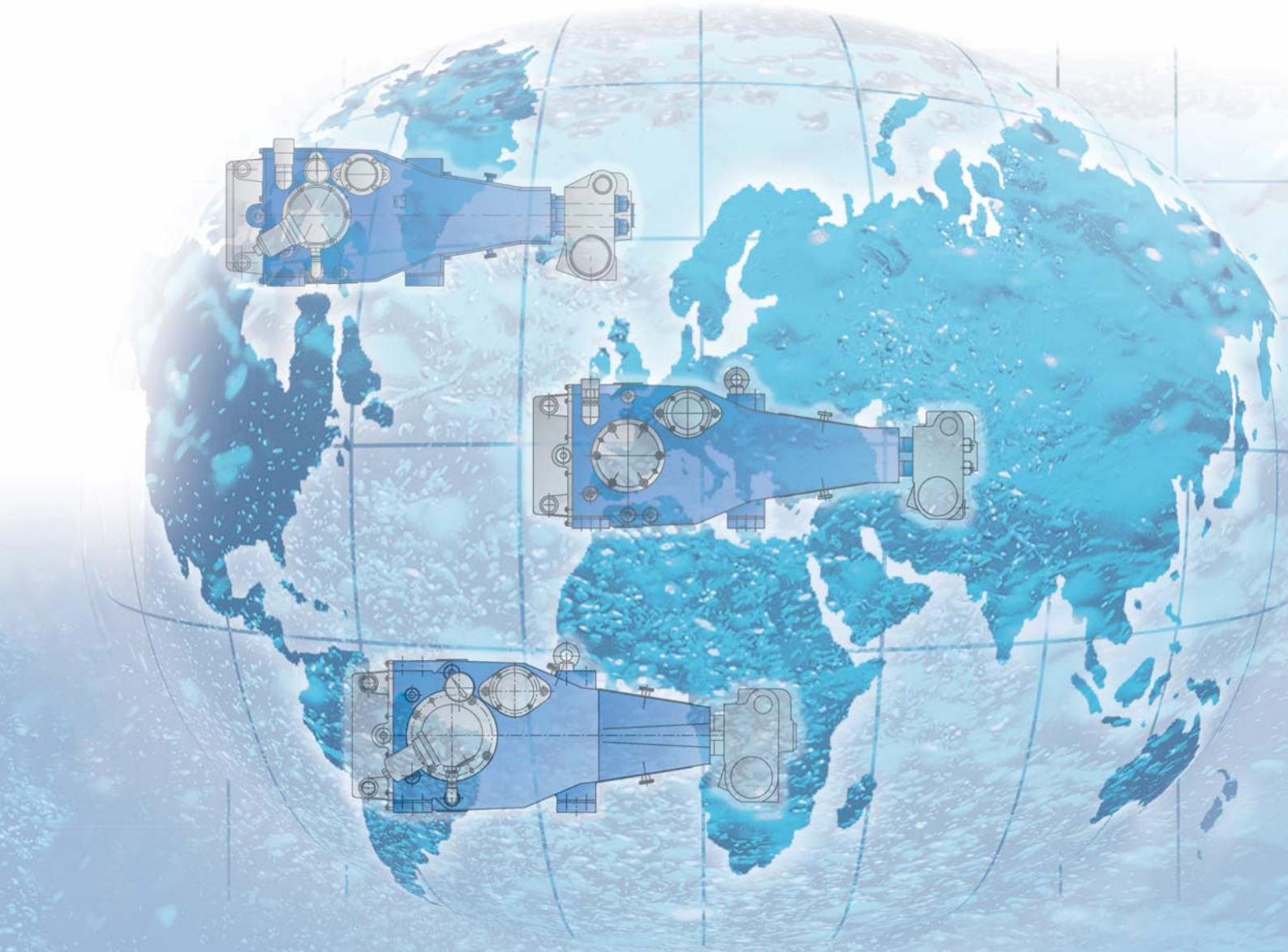
WOMA®

Water as a tool
for a clean environment

High-Pressure Plunger Pumps

03-Line (up to 250 bar)

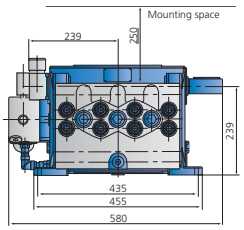
1003
1503
2503

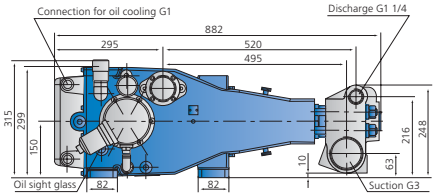


Technical Data

High-Pressure Plunger Pump Type 1003 / 1503

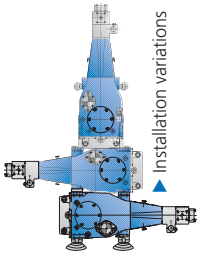
All dimensions in mm
Thread "M" as per DIN 13/ISO 261
Thread "G" as per DIN ISO 228/1

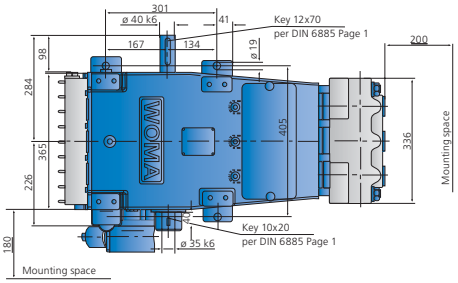




Technical Data:

- Oil capacity: approx. 6 l
- Weight: approx. 219 kg net
- Stroke: 95 mm/3.74 inch
- Inlet pressure required: 2 bar/30 psi
- Rod force: 29.7 kN



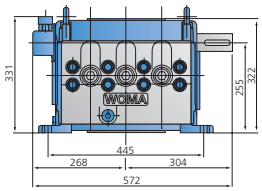


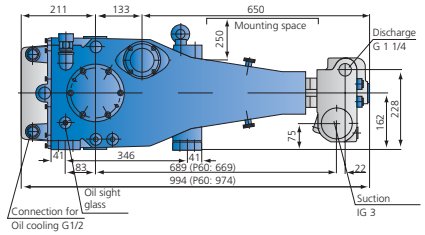
Performance Chart Pump Type 1003

Plunger-diameter (mm)	Gear Ratio Pinion shaft (Rpm) 1,500	1,800	Crank shaft (Rpm)	Required drive (kW)	Nominal flow rate USG pm	IMPG pm	(l/min)	Maximum permissible operating pressure (psi/bar)
		3.63	495	58	55.5	46.2	210	
P 50	3.00		500	59	56.0	46.6	212	2,175/150
	3.63		413	49	46.2	38.5	175	

* For plunger diameters P 50 and P 55 this dimension is 20 mm longer

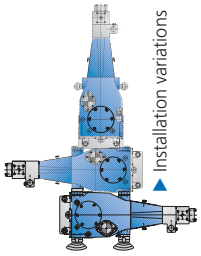
All dimensions in mm
Thread "M" as per DIN 13/ISO 261
Thread "G" as per DIN ISO 228/1

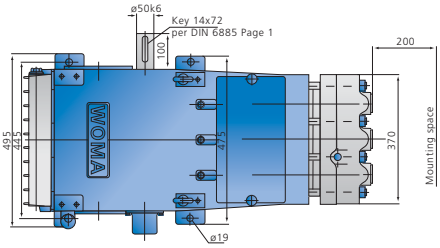




Technical Data:

- Oil capacity: approx. 10 l
- Weight: approx. 285 kg net
- Stroke: 95 mm/3.74 inch
- Rod force: 40 kN



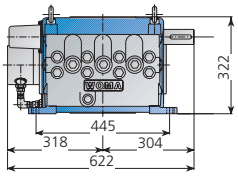


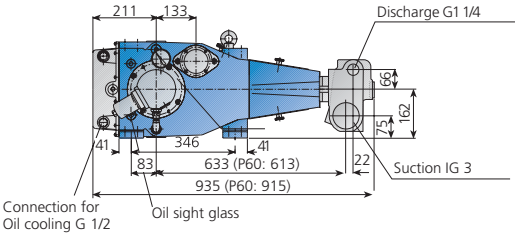
Performance Chart Pump Type 1503

Plunger diameter (mm)	Gear ratio Pinion shaft (Rpm) 1,500	1,800	Crank shaft (Rpm)	Required drive (kW)	Nominal flow rate USG pm	IMPG pm	l/min	Max. permissible operating pressure (psi/bar)
		3.69	488	99	70.53	58.73	267	
P 50	2.96		507	102	73.44	61.15	278	2,900/200
	3.69		406	82	58.91	49.05	223	
		3.69	488	102	85.86	71.49	325	
P 55	2.96		507	106	89.03	74.13	337	2,500/170
	3.69		406	85	71.33	59.39	270	
		3.69	488	100	102.23	85.13	387	
P 60	2.96		507	104	106.20	88.43	402	2,000/140
	3.69		406	83	85.33	71.05	323	

High-Pressure Plunger Pump Type 2503

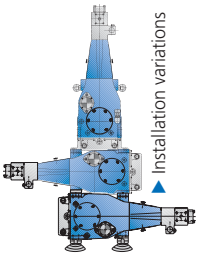
All dimensions in mm
Thread "M" as per DIN 13/ISO 261
Thread "G" as per DIN ISO 228/1

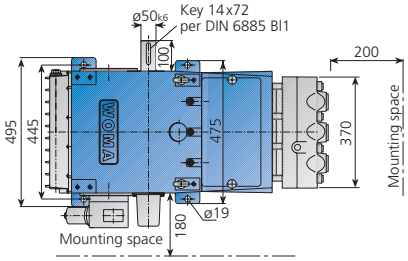




Technical Data:

- Oil capacity: approx. 8 l
- Weight: approx. 325 kg net
- Stroke: 95 mm/3.74 inch
- Rod force: 70 kN





Performance Chart Pump Type 2503

Plunger diameter (mm)	Gear ratio Pinion shaft (Rpm) 1,500	1,800	2,100	Crank shaft (Rpm)	Required drive (kW)	Nominal flow rate USG pm	IMPG pm	l/min	Max. permissible operating pressure (psi/bar)
P 50			4.52	464	118	68.4	57.0	259	3,625/250
		3.57		504	128	74.2	61.8	281	
		4.52		398	101	58.6	48.8	222	
	3.04			493	125	72.6	60.5	275	
	3.57			420	106	61.8	51.5	234	
	4.52			331	84	48.9	40.7	185	
P 55			4.52	464	141	83.0	69.1	314	3,625/250
		3.57		504	154	90.1	75.0	341	
		4.52		398	121	71.1	59.2	269	
	3.04			493	150	88.0	73.3	333	
	3.57			420	128	75.0	62.5	284	
	4.52			331	101	59.2	49.3	224	

Technical Advantages

Pump gear

- Proven pump gear with variable gear ratio

Pump head

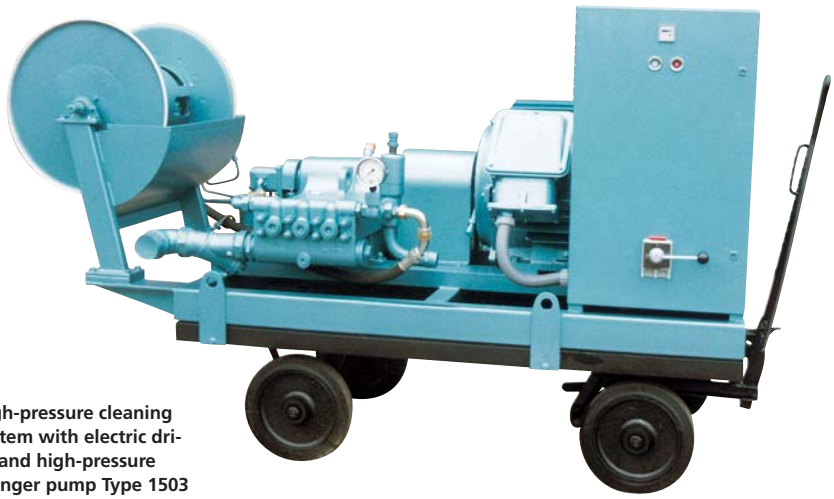
- Fluid-mechanically optimised valve design
- Maintenance-free plunger seal with lamellar packing
- Plungers made of ceramics
- High service life

Additional equipment

- Pressure regulating valve with manual or pneumatic control
- Full-lift savety valve

Options

- Pump head, cylinders and valves made from special materials for aggressive media, e.g. sea water



High-pressure cleaning system with electric drive and high-pressure plunger pump Type 1503

Cleaning vehicle with high-pressure plunger pump Type 1503 for municipal applications

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Delivery Programme

High-pressure plunger pumps
High-pressure water jet systems
High-pressure water tools
and accessories

Fields of Application

Agriculture
Automotive and aviation industry
Beverage industry
Cement industry
Chemical industry
Construction and concrete industry
Engineering industry
Food industry
Glass, porcelaine, ceramic industry
Iron, steel and metal industry
Mining
Municipal services
Offshore industry
Power industry
Public transport
Pulp and paper industry
Ship building
Wood working industry

HP-P-03-Line – 12/05-E · Subject to technical modification