

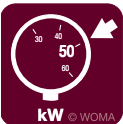
Ultra-high pressure pumps
Y-Baureihe (14 000 psi / 1 000 bar)
70 Y

WOMA®Pumps

The high-pressure plunger pump of the Y-series is especially compact. With operating pressures up to 14 500 psi/1 000 bar, this type is the most powerful in its class; it has been developed for concrete removal projects, stripping of coatings or cleaning of tube bundles.

These pumps have an auxiliary shaft end that can be used to connect a second pump, so that you can double the output in no time at all. The modular design gives you additional flexibility, because all you have to do to vary the output characteristics is to change the interchangeable plunger set. The pump, which can be delivered in keeping with the ATEX and API standards* has gear box cooling and being a slowspeed pump, is low wear and offers long life between maintenance cycles. In contrast to other, comparable pumps in this class, it can withstand suction flow temperatures up to 65 °C or 90 °C** without any problem.

* pressure-dependent and volume flow-dependent, ** optional



Example of an available model



All illustrations are only examples of available models

WOMA® Ultra-high pressure pump 70 Y

Technical Features

Basics

- Extremely compact construction thanks to the Y-arrangement of intake and pressure channel to the valve area
- Very long life
- Low weight

Gear Box

- Proven industrial gear box with dust and splash protection (WOMA® standard)

Pump head

- Very flat, two-part pump head
- Stress-free pump head
- Made from corrosion-resistant, high-strength stainless steel

Interchangeable plunger set

- Interchangeable plunger set for various rated volumes and operating pressures
- Special valve seat design
- Additional sealing water system
- High volumetric efficiency
- Maintenance-friendly

Additional equipment

- Pressure control valve with manual or pneumatic control
- Pneumatically controlled 2/2-way directional relief valve
- Full-stroke safety valve
- Plunger of special materials


Special model

- Pump head, interchangeable plunger set and valves in special materials for aggressive media being pumped, e.g. sea water
- Water temperature above 65 °C

Directives and standards

- ATEX 94/9/EC
- API 674 (pressure and volume flow-dependent)
- Quality management system according to DIN ISO EN 9001

Features of the Y-series

	Plunger-diameter (mm)	Gear ratio			Crankshaft (rpm)	Required driving power (HP/kW)	Max. flow rate (USG pm/l/min)	Max. operating pressure (psi / bar)
		Pinion shaft (rpm) 1500	Pinion shaft (rpm) 1800	Pinion shaft (rpm) 2100				
 70 Y	15	-	-	-	1000	53.6 / 40	6.1 / 23	14500/1000
	15	-	-	-	750	40.2 / 30	4.5 / 17	14500/1000
	16	-	-	-	1000	61.7 / 46	6.9 / 26	14500/1000
	16	-	-	-	750	45.6 / 34	5.0 / 19	14500/1000
	18	-	-	-	1000	67.1 / 50	8.7 / 33	12325/850
	18	-	-	-	750	49.6 / 37	6.5 / 25	12325/850
	20	-	-	-	1000	68.4 / 51	10.8 / 41	10150/700
	20	-	-	-	750	51.0 / 38	8.0 / 30	10150/700

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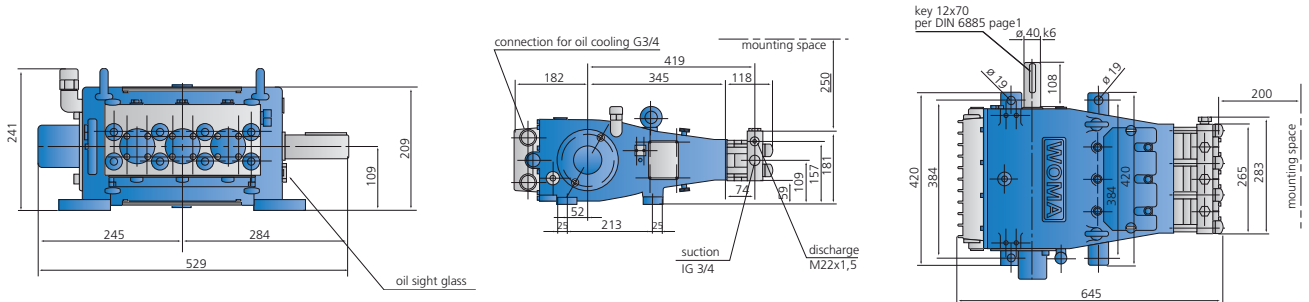


Setup example:
Ultra-high pressure water jet unit
with Ultra-high pressure pump 70 Y

All illustrations are examples
of available models only

1mm = 0.03937 inch • 1kW = 1.341 HP; 1 kW = 1.36 PS • 1 liter = 0.26417 USG pm • 1 USG pm = 0.22 IMPG pm • 1 USG pm = 3.785 liter/s • 1 bar = 14.503 psi

70 Y Oil capacity: approx. 3.2 l ▶ Weight: approx. 110 kg net ▶ Stroke: 44.5 mm/1.77 inch ▶ Inlet pressure required: 3-8 bar/45-115 psi ▶ Rod force: 21.6 kN



All dimensions in mm

Thread "M" as per DIN 13/ISO 261

Thread "G" as per DIN ISO 228/1

1 liter $\hat{=}$ 0.264 US.liq.gal • 1 kW $\hat{=}$ 1.36 PS, 1 kW $\hat{=}$ 1.34 HP • 1 bar = 14.503 psi • 1 mm = 0.03937 inch • 1 l/min. = 0.26417 USGPM = 0.22 IPGPM • 1 USGPM = 3.785 liter/s