

LIGHTWEIGHT PORTABLE MINI PUMP type MPS

The MPS is a handy portable air driven mini pump that can be easily carried, even on stairs, because of its weight (less than 17 kg with a filled tank) and size (405x308x365 mm).

Although this mini pump is small in size and low in weight it is very suitable for the pressure testing of objects for pressure ranges up to 1800 bar at 7 bar air drive pressure and 2500 bar at 10 bar air drive pressure.

Through its pressure supply capacity, it is possible to manually drive the pump through a detachable hand lever if you are in a situation when air pressure is not available.

The medium for pressurizing objects with this test system can be a fluid such as water or oil.



KEY FEATURES

- Lightweight, easy to carry
- Suitable for pressurizing oil, water or other fluids
- Completely closed frame
- All operating features panel mounted

KEY SPECIFICATIONS

- Several pressure ranges available
- All parts are made of non-corrosive materials
- Air and hand lever operation

LIGHTWEIGHT PORTABLE MINI PUMP

type MPS

UNIT DESCRIPTION

COMPONENTS

The lightweight mini pump MPS is standard equipped with a Resato mini pump P80, a bleed valve, a high pressure CEJN quick-connect outlet connection, an outlet gauge of stainless steel (Ø 160 mm), a gauge protector, an air gauge of stainless steel (Ø 63 mm), a start/stop valve, an air regulator, a 4 liter reservoir and a detachable hand lever.

MATERIALS

Housing

Housing	PE
Tank	PP natural
Other parts	Stainless steel 304
Bolts and nuts	Stainless steel A2

Instruments

Outlet gauge	Stainless steel
Air gauge	Stainless steel
Manifold valve	Stainless 316
Pneumatic connection	Brass
Hydraulic connection	Hardened, zinc chromate plated steel

Air section

Air piston	Aluminum
Air piston bearings	PTFE-based slydrings
Air cylinder	Anodized aluminum
Cycling valve	POM
Bolt and nuts	Stainless steel A2
Front cap	Anodized aluminum

High pressure section

Pump body	Stainless steel 316
High pressure plunger	Stainless steel 1.4112
Check valves:	
Housing	Stainless steel 316
Balls	Ceramic
Springs	Stainless steel A2
Other internal parts	Copper/SS/aluminum

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UNIT DESCRIPTION

MATERIALS

Sealings	
Check valves	NBR
High pressure plunger	UHMWPE
Air cylinder	NBR

CERTIFICATION

The Resato mini pump unit type MPS is manufactured according to European regulations and will be delivered including an operating manual, a maintenance manual, a spare parts manual, a test certificate, and calibration certificates for the high pressure gauge.

TECHNICAL SPECIFICATIONS

GENERAL

Legislation	Machine Directive 2006/42/EC	
Dimensions	405x308x365 (lwxh)	
Noise level	<80 dBa	
Exhaust	1/4" BSP muffler	
Lifetime (strokes)	Pump	1,000,000
	HP seal	250,000
	Seals cycle valve	1,000,000

COMPRESSED AIR

Consumption	0.8 Nm ³ /min
Maximum pressure	7 bar
Air type*	Dry and filtered air. No lubrication*
Contamination	ISO 8573-1:2010 Compressed air (Part 1: Contaminants and purity classes)

MEDIUM

Type**	Water Oil
Temperature	-10 - 60°C

* The pump has a lifetime lubrication. Once lubricated air is used, lubrication will be needed for the lifetime of the system.

** For any other media please contact Resato for advice.

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TYPE ORDERING SYSTEM

Unit	Type
MPS	100

Order example: MPS-100

TYPE TABLE

MPS type	Pump type	Actual ratio	Max. outlet pressure (bar/psi [†])	Volume per cycle (cc)	Max. flow (l/min)	Tank	Male outlet connection CEJN
65	P80-65-1/U/N	65	455/6,600	1.57	1.10	4 liter	Series 116
100	P80-100-1/U/N	100	700/10,150	1.01	0.70		Series 116
180	P80-180-1/U/N	180	1260/18,275	0.57	0.33		Series 116
260	P80-260-1/U/N	260	1820/26,400	0.39	0.29		Series 125

[†] Pressure at 7 bar air supply (max. pump air supply is 10 bar).