

Comparison Pumps

Hydraulic version in a case

Pressure ranges 0 – 600 bar and 0 – 1000 bar

PS 600-G

PS 1000-G

Application

The comparison pump models PS 600-G and PS 1000-G are pressure generators and used for comparative measurements. They are suitable for testing and adjusting pressure measuring devices.

Model PS 600-G is applicable for pressure ranges from 0 to 600 bar and model PS 1000-G is applicable for pressure ranges from 0 to 1000 bar. For testing, acid-free, thin oil or distilled water (for the special versions) is used as medium.

The spindle pump serves to generate the pressure. The test item is compared to a pressure measuring device with higher accuracy (e.g. Overview 2000 Test Gauges, Overview 10000 Calibration Technology).

Comparison pumps in a case are suited for continuous operations, e.g. in test shops. Additionally, the instrument connections are provided with filters to avoid contamination of the pump pipe system (see schematic drawing, page 2).

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Standard Version

Construction Type

Case version

Medium

Acid-free, thin oil

Pressure Ranges

	PS 600-G	PS 1000-G
p_{\min} (operating volume ≤ 0.1 litre)	0 bar	0 bar
p_{\max} (operating volume ≤ 0.1 litre)	600 bar	1000 bar
Required admission pressure	6 bar	6 bar

Connection

2 connections male G $\frac{1}{2}$ LH, each with 2 clamping sleeves on G $\frac{1}{2}$ right or M20x1.5 right, incl. double sealing

Connection for External Compressed Air Supply

Plug connection (Prestolock) for PA hose N4x1 and an adapter for hose N6x1

Case

All parts mounted in an aluminum case, grey enamelled (self-supporting cover), 3 mounting orifices $\varnothing 8.5$ mm (0.33")

Case Dimensions (L x W x H)

350 x 550 x 270 mm (13.78 x 21.65 x 10.63")

Piston

PS 600-G: brass

PS 1000-G: hardened steel

Cylinder

Brass

Weight

Approx. 26 kg (57.32 lb)

Temperature Range

15 °C to 35 °C (59 °F to 95 °F)

Special Versions and Options

Special Version	PS 600-G	PS 1000-G
Medium	distilled water	
Piston	brass	stainless steel

Special Version for Oxygen (O ₂)	PS 600-G	PS 1000-G
Medium	distilled water	
Wetted parts	free of grease and oil	
Piston	brass	stainless steel

Connections

- Hose N4x1 for Prestolock
- Adapter from hose 4x1 to $\frac{1}{4}$ " NPT male

Scope of Delivery

The delivery includes – in addition to the comparison pump:

- 1 operating instruction
- 1 l special oil or
1 l distilled water (for the special versions)
- 2 special gaskets for connections, with
2 encased O-rings (mounted)
- 4 O-rings as spare parts
- 2 clamping sleeves G $\frac{1}{2}$ (mounted)
- 2 clamping sleeves M20x1.5
- 2 adapters for N6x1 (admission pressure connection)

Ordering Information

Please specify in your order:

Basic model PS 600-G
Options see above

Example: PS 600-G
PS 600-G-O₂

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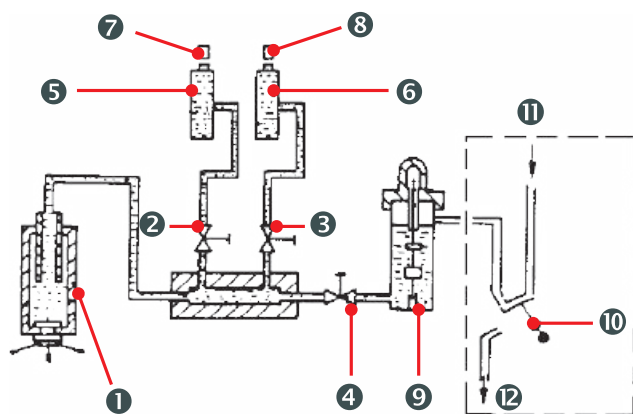
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Schematic Drawing



- ① Spindle pump with cylinder, piston, spindle and star handle
- ② Stop valve "Reference device/Vergleichsgerät"
- ③ Stop valve "Test item/Prüfling"
- ④ Valve "Pressure compensation/Druckausgleich"
- ⑤ Filter
- ⑥ Filter
- ⑦ Connection for reference device
- ⑧ Connection for test item
- ⑨ Reservoir for the medium
- ⑩ Change-over valve for external admission pressure (functions: "Admission pressure/Vordruck", "Closed/Zu", "Vent/Entlüften")
- ⑪ "Connection admission pressure/Anschluss Vordruck"
- ⑫ "Ventilation admission pressure/Entlüftung Vordruck"