Application

Comparison pumps are suitable to test and calibrate pressure gauges and other pressure instruments with pressure ranges between -1-0 up to 0-2500 bar (also corresponding psi-ranges or others) by comparing the measuring results with those of pressure gauges with higher accuracy (see "Test Gauges", general information leaflet 2000).

Construction

A piston spindle with handwheel (model –P) resp. with star handle (model –G) serves to build up the pressure and to regulate the test pressure. Model PS 2500 G is additionally equipped with a handpump for faster pressure generation.

All our comparison pumps are provided with two stop valves, each delivered with two exchangeable clamping sleeves M20x1.5 and ½" BSP, for the pressure gauge connection.

PH 60–P is the suitable model for gaseous media (e.g. ambient air or compressed air), and for pressure ranges up to 60 bar. It is additionally provided with a double stop valve for external pressure connection respectively vacuum connection, and for bleeding the system.

Plate Versions - P

Model PH 60-P

Medium gaseous, e.g. ambient air

● Pressure ranges -0.5 up to +4 bar ¹) without external

pressure

-1 up to +60 bar 1) with external pressure, e.g. compressed air and/or external

vacuum

Instrument

connections 2 stop valves, each with 2 clamping

sleeves M 20 x 1.5 and 1/2" BSP

•All parts installed on a basic plate from grey en-

amelled cast aluminum

●Piston and

spindle Stainless steel

Model PH 60-P-O₂

As above, but suitable for oxygen service
Wetted parts free of grease and oil
Cylinder blue enamelled

Models PS 60-P PS 600-P

Medium low viscous oil (acid free) or water

• Pressure ranges **PS 60-P**: 0 up to 60 bar 1)

PS 600-P: 0 up to 600 bar 1)

Instrument

connections 2 stop valves, each with 2 clamping

sleeves M 20 x 1.5 and 1/2" BSP

Piston

and spindle stainless steel

•All parts installed on a basic plate from grey en-

amelled cast aluminum

Models PS 60-P-O₂ PS 600-P-O₂

As above, but suitable for oxygen serviceWetted parts free of grease and oilMedium destilled water

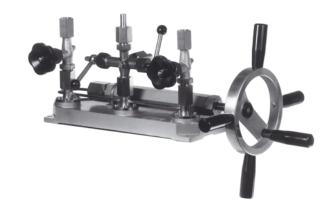
•Cylinder blue enamelled

Our models **PS** are designed for liquid media and available with pressure ranges **60**, **600**, **1000**, and **2500** bar. These versions are equipped with a reservoir for the medium. 1 I special oil, respectively 1 I destilled water for models $P...O_2$ (see below), belongs to our standard supply.

You can choose between models mounted on a basic plate, code letter **-P** (see below) and models installed into a case, similar to the dead weight testers, code letter **-G**. Version - P is not available with pressure ranges 1000 and 2500 bar, and version - G not with pressure range 60 bar (compare reverse side).

Comparison pumps in a case, models PS...-G, are better suitable for continuous operations, e. g. in test shops, than those mounted on a plate. The case versions are provided with filters to avoid contamination of the pump pipe system. We recommend to supply external compressed air up to max. 10 bar for a quick and easy filling of the system.

Special versions for testing pressure gauges to be used for oxygen service are available up to pressure range 0-1000 bar (compare below, model code ...–O₂).





For all plate versions -P:

Dimensions of the plate: 350 x 120 mm (13.78" x 4.72")

Weight (approx.) 7 kg (15.4 lb)

1) also corresponding psi ranges or other pressure units

(... continued on reverse side)



ARMATURENBAU GmbH



Case Versions - G

Models PS 600-G PS 1000-G

• Medium low viscous oil (acid free)

Pressure

ranges **PS 600-G**: 0 up to 600 bar ¹⁾ **PS 1000-G**: 0 up to 1000 bar ¹⁾

External compressed

air supply recommended for easier filling of the

system, but max. up to 10 bar

Instrument connections

2 stop valves, each with 2 clamping

sleeves M 20 x 1.5 and 1/2" BSP

All parts set up in a grey enamelled cast aluminum case 350 x 550 x 270 mm (13.78

x 21.65 x 10.63"), with 3 mounting holes

Ø 8.5 mm (.33")

• Weight approx. 26 kg (57.30 lb)



• As above, but suitable for oxygen service

• Wetted parts free of grease and oil

Medium destilled waterPiston stainless steel



• Medium low viscous oil (acid free)

Pressure

ranges 0 up to 2500 bar 1)

External compressed

air supply recommended for easier filling of the

system, but max. up to 10 bar

Handpump built in;

max. pressure by handpump: 1600 bar

Instrument

connections 2 stop valves, each with 2 clamping

sleeves M 20 x 1,5 and 1/2" BSP

All parts set up in a grey enamelled cast alumi-

num case 700 x 560 x 310 mm (27.56 x

22.05 x 12.21")

• Weight approx. 45 kg (99.20 lb)





¹⁾ or corresponding psi-ranges or other pressure units