

PGS series

Handheld pressure test pump



PGS-700/PGS-1000



PGS-40



PGS-7

The PGS pump series are a remarkable new range of hand pumps for generating vacuum, gas and hydraulic pressure from a few mbar up to 1000 bar. The pumps are the ideal tool for applying test pressures to sensors, gauges, pressure switches and any pressure device. They are a low cost solution for field and workshop use and can be supplied with the wide range of Eurotron digital pressure indicators or for OEM applications.

- calibrate pressure device
- 4 separate models
- range from Vacuum to 1000 bar
- extended kit solutions to suits different needs

The pneumatic pumps allow pressures in excess of 600 psi to be generated with just a few strokes of the pump. By changing the push-in switching valve to vacuum, the pump will generate vacuum down to nearly 96%.

The PGS 700 and PGS 1000 hydraulic test pumps work with a variety of different fluids, including water and oil to easily generate pressures up to 1000 bar (14500 psi). The pump uses an unique "switch" which allows for fast priming or filling of the test system and then switching as needed to a smaller stroke for easier generation at high pressure.

The desired pressure point can be easy tuned by using the vernier control and a precision needle vent valve allows for controlled venting.

All 4 pumps can be supplied as a bare pump or in kit form with a hard transit case, set of adaptors, seals and hose.

SELECTION GUIDE

| Features | PGS-7 | PGS-40 | PGS-700 | PGS-1000 |
|--|-------|--------|---------|----------|
| Pneumatic pressure capability | • | • | | |
| Vacuum capability | • | • | | |
| Hydraulic capability | | | • | • |
| Integral fine control for accurate set point | • | • | • | • |
| adjustable stroke for over pressure safety | | • | | |
| Controlled pressure relief valve | • | • | • | • |
| Priming operation | | | • | • |
| Fluid compatible (not distilled water) | | | • | • |
| Scissor action pump | | • | • | • |

TECHNICAL SPECIFICATION

| Parameter | PGS-7-OEM | PGS-40-OEM | PGS-700-OEM | PGS-1000-OEM |
|--------------------------------|--------------------|---------------------|----------------|----------------|
| Operating pressure range | -850 mbar to 7 bar | -960 mbar to 40 bar | 0 to 700 bar | 0 to 1000 bar |
| Pressure media | air | air | liquid | liquid |
| Fine adjustment | 1 mbar | 1 mbar | 10 to 100 mbar | 10 to 100 mbar |
| Ref port pressure connection | 1/8" NPT (F) | 3/8" BSP (F) | 3/8" BSP (F) | 3/8" BSP (F) |
| Ref port standard adaptor | 1/4 BSP (F) | 1/2 BSP (F) | 3/8" BSP (F) | 1/2" BSP (F) |
| Test point pressure connection | 1/4 BSP (F) | 1/4 BSP (F) | 1/4 BSP (F) | 1/4 BSP (F) |
| Hose extension | 2 x 1 meter | 1 x 1 meter | option | option |
| Weight | 250 g | 510 g | 1.6 Kg | 1.6 Kg |

Specification are based on minimum volume

G10 series

Reference pressure gauge

A range of analogue reference gauges for the PGS pump series. All gauges are dual scale reading bar/psi and fit on the top of the PGS40/700/1000 pump by using the supplied swivel adaptor, hand tight no adaptor or spanner required.



TECHNICAL SPECIFICATION

Over pressure: 30% FS

Connection: 1/2" BSP (M)

G10-0060 through G10-1000 -Wetted part: AISI 316 and AISI 316L
-Case: AISI 304, glass tempered

G10-0000 through G10-0040 -Wetted part: brass
-Case: AISI 304, glass normal

PRESSURE RANGES

| Model | Range | Accuracy | Diameter |
|----------|------------------------------|----------|----------|
| G10-0000 | -1 to 0 bar/-30 to 0 inHG | 1% FS | 63 mm |
| G10-0002 | 0 to 2 bar/0 to 30 psi | 1% FS | 63 mm |
| G10-0011 | 0 to 11 bar/0 to 160 psi | 1% FS | 63 mm |
| G10-0025 | 0 to 25 bar/0 to 365 psi | 1% FS | 63 mm |
| G10-0040 | 0 to 40 bar/0 to 600 psi | 1% FS | 63 mm |
| G10-0060 | 0 to 60 bar/0 to 800 psi | 0.6% FS | 100 mm |
| G10-0100 | 0 to 100 bar/0 to 1400 psi | 0.6% FS | 100 mm |
| G10-0160 | 0 to 160 bar/0 to 2000 psi | 0.6% FS | 100 mm |
| G10-0250 | 0 to 250 bar/0 to 3000 psi | 0.6% FS | 100 mm |
| G10-0400 | 0 to 400 bar/0 to 5000 psi | 0.6% FS | 100 mm |
| G10-0600 | 0 to 600 bar/0 to 8000 psi | 0.6% FS | 100 mm |
| G10-1000 | 0 to 1000 bar/0 to 15000 psi | 0.6% FS | 100 mm |

PGS-7 Low Pressure Test Kits

Combined vacuum/pneumatic kit for low pressure testing includes:

- PGS-7-OEM pump
- Set of BSP or NPT adaptors (to be specified)
- Set of seals
- T pressure connection and 2 x 1 meter hose with 1/4 BSP F end
- Robust ABS transit case with customised foam and cells



SPECIFICATION

| Model | Description |
|-------------|--|
| PGS-7-P-BSP | Low pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M) |
| PGS-7-P-NPT | Low pressure test kit, NPT adaptor 1/4" BSP male to 1/8", 3/8", 1/2" and 1/4" NPT (F) |

PGS-40 Pneumatic Test Kits

Combined vacuum/pneumatic kit for pressure testing includes:

- PGS-40-OEM pump
- Set of BSP or NPT adaptors (to be specified)
- Set of seals
- Pressure hose with 1/4" BSP F adaptor (1 meter)
- Robust ABS transit case with customised foam and cells



SPECIFICATION

| Model | Description |
|--------------|--|
| PGS-40-P-BSP | Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M) |
| PGS-40-P-NPT | Pressure test kit, NPT adaptor 1/4" BSP male to 1/8", 3/8", 1/2" and 1/4" NPT (F) |

PGS-700/1000 Hydraulic Test Kit

Hydraulic test kit for high pressure testing includes:

- PGS-700-OEM or PGS-1000-OEM pump
- Set of BSP or NPT adaptors
- HTH-1000-1 high pressure hose, 1 meter
- PGS700-A-G14 adaptor for HTH-1000 hose
- Set of seals
- PGS700-TC Robust ABS transit case with customised foam and cells



SPECIFICATION

| Model | Description |
|----------------|--|
| PGS-700-H-BSP | Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M) |
| PGS-700-H-NPT | Pressure test kit, NPT adaptor 1/4" BSP male to 1/8", 3/8", 1/2" and 1/4" NPT (F) |
| PGS-1000-H-BSP | Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M) |
| PGS-1000-H-NPT | Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8", 1/2" and 1/4" NPT (F) |

Ordering Informations

Pump Model

- PGS-7-OEM:** Low pressure pump, -850 mbar to 7 bar
PGS-40-OEM: Medium pressure pump, -960 mbar to 40 bar
PGS-700-OEM: High pressure pump, 0 to 700 bar
PGS-1000-OEM: High pressure pump, 0 to 1000 bar

Pump Kits

- PGS-7-P-BSP:** Low pressure pump kit, BSP adaptors
PGS-7-P-NPT: Low pressure pump kit, NPT adaptors
PGS-40-P-BSP: Medium pressure pump kit, BSP adaptors
PGS-40-P-NPT: Medium pressure pump kit, NPT adaptors
PGS-700-H-BSP: Hydraulic test kit, BSP adaptors
PGS-700-H-NPT: Hydraulic test kit, NPT adaptors
PGS-1000-H-BSP: Hydraulic test Kit, BSP adaptors
PGS-1000-H-NPT: Hydraulic test kit, NPT adaptors

Pressure Gauges

See table for part number

Adaptors

- PGS-BSP adaptor set:** 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M)
PGS-NPT adaptor set: 1/4" BSP male to 1/8", 3/8", 1/2" and 1/4" NPT (F)
PGS-A-N14I-G38A: 3/8" BSP(M) to 1/4" NPT(F) adaptor for ref port
PGS-A-G14I-G38A: 3/8" BSP(M) to 1/4" BSP(F) adaptor for ref port
PGS-A-N14I-G14A: 1/4" BSP M to 1/4" NPT (F) adaptor for test point
PGS700-A-G14: 1/4" BSP(M) to 1/4" BSP(M) for HTH-1000 fitting

Carrying cases

- PGS7-TC:** Robust transit case with customised cells and foam
PGS40-TC: Robust transit case with customised cells and foam
PGS700-TC: Robust transit case with customised cells and foam

High Pressure hose (PGS 700/PGS 1000 only)

- HTH-1000-1:** High pressure hose 1 meter, 1500 bar, 1/4" BSP (F)
HTH-1000-2: High pressure hose 2 meters, 1500 bar, 1/4" BSP (F)
HTH-1000-3: High pressure hose 3 meters, 1500 bar, 1/4" BSP (F)

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