## **PGS** series

# Handheld pressure test pump





PGS-700/PGS-1000



PGS-40

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 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-1000-0EM
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 resolution	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

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.



gauge

#### **TECHNICAL SPECIFICATION**

Over pressure: 30% FS Connection: 1/2" BSP (M) Fine graduation Knife pointer

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, chrome plated -Case: AISI 304, glass normal

#### **PRESSURE RANGES**

**Reference** pressure

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	1% FS	100 mm
G10-1000	0 to 1000 bar/0 to 15000 psi	1% FS	100 mm

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#### 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
	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-40-0EM 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
	Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M)
	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-700-0EM or PGS-1000-0EM 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



Pump Model PGS-7-OEM: PGS-40-OEM: PGS-700-OEM: PGS-1000-OEM:

**Pump Kits** 

#### PGS-7-P-BSP: Low pressure pump kit, BSP adaptors PGS-7-P-NPT: Low pressure pump kit, NPT adaptors Medium pressure pump kit, BSP adaptors PGS-40-P-BSP: Medium pressure pump kit, NPT adaptors PGS-40-P-NPT: 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

Low pressure pump, -850 mbar to 7 bar

High pressure pump, 0 to 700 bar

High pressure pump, 0 to 1000 bar

Medium pressure pump, -960 mbar to 40 bar

**Pressure Gauges** See table for part number

#### Adaptors

PGS-BSP adaptor set: 1/4" BSP (M) to 1/8", 3/8" (F) and 1/2" BSP (M) PGS-NPT adaptor set: 1/4" BSP (M) to 1/8", 3/8", 1/2" and 1/4" NPT (F) 3/8" BSP (M) to 1/4" NPT (F) adaptor for ref port PGS-A-N14I-G38A: 3/8" BSP (M)) to 1/4" BSP (F) swivel connector for PGS-A-G14I-G38A: Ref port



**Carrying cases** PGS7-TC:

High Pressure hose (PGS 700/PGS 1000 only)

PGS40-TC:

PGS700-TC:

### SPECIFICATION

Model	Description
	Pressure test kit, BSP adaptor 1/4" BSP male to 1/8", 3/8" (F) and 1/2" BSP (M)
PGS-700-H-NP1	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)

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

Robust transit case with customised cells and foam

Robust transit case with customised cells and foam

Robust transit case with customised cells and foam

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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