

Features

- Hydraulic pressures to 700 bar
- Pneumatic pressures to 40 bar
- Vacuum to -950 mbar
- Low pressure fine control

The PV411A is a high quality field proven pressure and vacuum hand pump providing functionality, which has never been seen before in a hand held pressure source. This remarkable product replaces four conventional hand pumps and offers the following additional features:

- Unique vacuum priming function removes trapped air during hydraulic operation
- High pressure generation is accomplished with the volume adjuster, eliminating the physical effort associated with conventional hand pumps

- Pressure/Vacuum selector valve also provides exceptional fine control pressure relief in both pneumatic and hydraulic modes
- Tamper proof adjustable overpressure protection valve which can be set to relieve pressures from 30 to 700 bar
- Removable hydraulic reservoir which can be disconnected from the pump without draining the fluid
- Reservoir safety feature with spring loaded top cover vents if inadvertently pressurized above 550 mbar
- Hydraulic mode designed to operate with distilled water and/or high viscosity mineral oil
- Highly sensitive volume adjuster is used for hydraulic, pneumatic, vacuum and low pressure operation
- Built-in stroke adjuster controls the pressure/vacuum generated per stroke
- 240° swivel head for optimum viewing of reference indicators
- Internal moving parts are PTFE anodized for reduced friction and wear
- Ergonomic, rugged and lightweight design with comfortable hand grip

PV411A

Druck Four-in-One Hand Pump

PV411A is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



PV411A Specifications

General

Pressure ranges

- Pneumatic: 0 to 40 bar
- Hydraulic: 0 to 700 bar
- Vacuum: 0 to -950 mbar

Hydraulic media

Designed for operation with distilled water (no alcohol), mineral oil up to 150 cSt @ 40°C

For combined hydraulic and pneumatic operations it is recommended to use distilled water during hydraulic operation.

Materials

Stainless steel, anodized aluminum, Nitrile rubber, acrylic, PTFE, polyurethane, Delrin and nylon

Pressure connections (2x)

1/4 BSP female

Reservoir connection

1/4 BSP female

Reservoir volume

100 cc

Optional large volume reservoir

200 cc

Total weight

1 kg nominal

Dimensions (l x w x d)

26 cm x 13.5 cm x 9.5 cm

Test Kits

PV411A-P pneumatic test kit includes:

PV411A

Multi-function pressure generator and user manual

PV-411-100

A rigid lightweight transit case for the PV411A and accessories. Size 36 cm x 34 cm x 13 cm.

PV-411-105

A 50 cm length of high pressure flexible hose terminated in 1/4 BSP female, rated to 700 bar

- 1/4 BSP male to 1/4 BSP female swivel
- 1/4 BSP male to 1/8 NPT male adaptor

PV-411-110

1/4 BSP male to 1/4 BSP female swivel

- 1/4 BSP male to 1/8, 3/8 and 1/2 BSP female
- 1/4 BSP male to 1/4 BSP male

PV-411-130

Bonded seals for hose and adaptors. Includes spare o-ring seals for reservoir and swivel adaptors.

PV411A-HP

Hydraulic and pneumatic test kit also includes:

PV-411-115

A 100 cc hydraulic reservoir, which fits directly on the PV411A input port.

Accessories

In addition, the following items can be ordered as accessories/spares:

PV-411-120

Set of stainless steel NPT test point adaptors

- 1/4 BSP male to 1/4 NPT female swivel
- 1/4 BSP male to 1/8, 3/8, 1/4 and 1/2 NPT female
- 1/4 BSP male to 1/4 BSP male
- 1/4 BSP male to 1/4 NPT male

PV-411-125

Set of stainless steel metric test point adaptors

- 1/4 BSP male to M20 female swivel
- 1/4 BSP male to M20 and M14 female
- 1/4 BSP male to 1/4 BSP male

Order Codes

Please state the code numbers in bold type, e.g. **PV411-A-P**.



PV411A hand pump kit



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