



# PV411A

## Druck four-in-one hand pump

### Features

- Hydraulic pressures to 10,000 psi
- Pneumatic pressures to 600 psi
- Vacuum to 28.5 in Hg
- 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 300 to 10,000 psi

- 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 8 psi
- 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 specifications

## General

### Pressure ranges

- Pneumatic: 0 to 600 psi
- Hydraulic: 0 to 10,000 psi
- Vacuum: 0 to 28.5 in Hg

### Hydraulic media

Designed for operation with distilled water (no alcohol), mineral oil equal to 40 wt.

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

1/4 in NPT female

### Reservoir connection

1/4 BSP female

### Reservoir volume

100 cc

### Optional large volume reservoir

200 cc



PV411A-HA hand pump kit (shown with DPI 104 digital test gauge, not included)

### Total weight

2.5 lb

### Dimensions (l x w x d)

10.2 in x 5.3 in x 3.7 in

### PV411A-HA hand pump kit includes:

- Heavy duty transport case with closed foam insert 10,000 psi (689 bar) high pressure hose assembly, 3 ft length
- 2 pieces. 1/4 in NPT male adapters
- 1 piece 1/4 in NPT female adapter
- 1 piece 1/8 in NPT male adapter
- 1 piece 1/8 in NPT female adapter
- 1 piece 1/4 in male to 1/8 in female adapter

## Order codes

- PV411A hand pump only
- PV411A-HA hand pump with accessory kit