

# Four-In-One Hand Pump and Kit



68447-48

## High-quality, field-proven pressure and vacuum hand pump

The PV411A provides functionality never before seen in a handheld pressure source. It can replace four conventional hand pumps.

- Vacuum priming function to remove air during hydraulic operation
- High pressure generation accomplished with volume adjuster rather than physical effort
- Tamper-proof adjustable overpressure protection valve
- 240° swivel head for optimum viewing of reference indicators
- Pressure/vacuum selector provides fine control in both pneumatic and hydraulic modes
- High-sensitivity volume adjuster for hydraulic, pneumatic, vacuum and low pressure operation
- Built-in stroke adjuster controls pressure/vacuum generated per stroke
- PTFE anodized internal moving parts for reduced friction and wear
- Removable hydraulic reservoir can be disconnected from pump without draining
- Purchase a kit with or without a gauge

SPECIFICATIONS	
Pressure ranges	Pneumatic 0 to 600 psi
Hydraulic	0 to 10,000 psi
Vacuum	0 to 28.5" Hg
Hydraulic media	Distilled water (no alcohol) or mineral oil
Pressure connection	1/4" NPT female
Reservoir connection	1/4" BSP female
Reservoir volume	100 cc
Optional large reservoir	200 cc



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### Kits without Gauge

Hand pump kit includes: Heavy-duty transport case with closed foam insert, 10,000 psi high pressure hose assembly 3 ft length, 2 ea. 1/4" male NPT adapters, 1 ea. 1/4" female NPT adapter, 1 ea. 1/8" male NPT adapter, 1 ea. 1/8" female NPT adapter and 1 ea. 1/4" male to 1/8" female adapter.

Catalog No.	Model No.	Description
TS-68984-38	PV411A-HA	Hand pump kit
TS-68447-48	PV411A	Hand pump and 100 cc reservoir
TS-68447-49	PV411A-116	200 cc reservoir for hand pump

### Kits with Gauge

Pneumatic and hydraulic test kit includes: reservoir DPI 104 series gauge, hose, adapters, seal kit and carrying case.

Catalog No.	Model No.	Description
TS-68447-26	PV411A-104-HP-10G	Test kit, 0/100 psig, NPT
MC-68437-28	PV411A-104-HP-13G	Test kit, 0/300 psig, NPT
TS-68447-28	PV411A-104-HP-16G	Test kit, 0/1000 psig, NPT
TS-68447-29	PV411A-104-HP-18G	Test kit, 0/3000 psig, NPT
TS-68447-31	PV411A-104-HP-20G	Test kit, 0/5000 psig, NPT
TS-68447-32	PV411A-104-HP-22G	Test kit, 0/10,000 psig, NPT
Accessories		
TS-17050-12	—	NIST-traceable calibration with data