

Pneumatic Pressure / Vacuum Hand Pumps (direct acting)

DPPV (100 psi / 7 bar) pressure, (-25" Hg / -635 mm Hg) vacuum

The ideal solution for either differential pressure or vacuum calibration using a precision test gauge or pressure calibrator as the pressure reference.

Features:

Generate either 100 psi (7 bar) pressure or -25" Hg (-635 mm Hg) vacuum with the same pump

Unique design allows the user to convert from pressure to vacuum by simply twisting a knob, even with gloves on

Two outlet ports allow connection to reference pressure gauge or pressure calibrator as well as device under test, thus eliminating a tee

Large volume fine adjustment piston provides precise control, even at very low pressures

Precisely vent pressure with soft seated bleed valve

Low volume Quick-test hose, gauge adapter and process connection can be attached to pump without thread sealant or a wrench

Rugged, all metal construction reduces pressure changes due to temperature fluctuations

Made in U.S.A.



Specifications		
Pump connection type	National Pipe Thread (NPT)	British Parallel Thread (BSPP)*
Maximum pressure	100 psi (7 bar)	100 psi (7 bar)
Maximum vacuum	-25" Hg (-635 mm Hg)	-25" Hg (-635 mm Hg)
Style	Direct acting	Direct acting
Pressure media	Air	Air
Fine adjust resolution	± 0.001 psi (0.07 mbar)	± 0.001 psi (0.07 mbar)
Reference connection (brass)	See below	See below
Outlet port 1 (brass)	Male Quick-test (QTHA-3SB0)	Male Quick-test (QTHA-3SB0)
Outlet port 2 (brass)	Male Quick-test with cap and chain (QTFT-3SB0)	Male Quick-test with cap and chain (QTFT-3SB0)
Calibration hose (brass ends)	(1) 3 ft (92 cm) long (QTQT-HOS-3')	(1) 1 m (3.3 ft) long (QTQT-HOS-1m)
Process connection (brass)	(1) 1/4" male NPT (QTHA-2MB0)	(1) 1/4" female BSPP (QTHA-2FB0-RG)
Construction	Anodized aluminum, brass, plated steel	Anodized aluminum, brass, plated steel
Seal material	Buna-N, Teflon™, Delrin™	Buna-N, Teflon™, Delrin™
Weight	1.9 lb (860 g)	1.9 lb (860 g)

Ordering Information	
DPPV pumps with NPT connections	
Model	Description
DPPV-1MBA	DPPV pump, 1/8" male NPT gauge adapter (QTHA-1MBA), hose, process connection
DPPV-2MBA	DPPV pump, 1/4" female NPT gauge adapter (QTHA-2MBA), hose, process connection
DPPV-2FBA	DPPV pump, 1/4" female NPT gauge adapter (QTHA-2FBA), hose, process connection
DPPV-0000	DPPV pump, no gauge adapter, with hose and process connection
DPPV pumps with BSPP connections*	
Model	Description
DPPV-2FBA-RG	DPPV pump, 1/4" female BSPP gauge adapter (QTHA-2FBA-RG), hose, process connection
DPPV-3FBA-RG	DPPV pump, 3/8" female BSPP gauge adapter (QTHA-3FBA-RG), hose, process connection
DPPV-4FBA-RG	DPPV pump, 1/2" female BSPP gauge adapter (QTHA-4FBA-RG), hose, process connection

* Not for sale in North American market

For accessories, repair kits and hoses see page 17. For a complete list of accessories and parts see product manual or detailed specification sheet. For a list of the most commonly used gauge and process connections see page 18. For a complete list refer to Ralston Instruments *Pressure Connection* catalog. Contact your Ralston Instruments dealer or the factory for information on reference gauges and pressure calibration kits.