

PV212 Druck Hydraulic Hand Pump

The PV212 is a high quality hand pump designed to quickly and easily generate hydraulic pressures. The materials of construction make it compatible with most fluid media and an optional seal kit can be supplied for many applications. The built-in vernier provides excellent control and is easy to adjust even at high pressures.

The dual stage pump includes a selector valve which increases the priming speed and greatly reduces the effort required to generate high pressures. An optional pressure relief valve can be supplied to provide protection to connected instruments (Included in 104 and 104S Test Kits).

Features

- Pressures to 700 bar (10,000 psi) or 1,000 bar (15,000 psi)
- Compatible with distilled water or mineral oil
- Quick priming and pressure generation
- Hydraulic pressure sources for pressures up to 1,000 bar (15,000 psi)



- 100 CC transparent reservoir which can be filled during operation
- Vernier adjust for fine control
- Optional pressure release valves offers outstanding control for decreasing pressures

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PV212 Specifications (See Page 4 for ordering information)

General

Pressure Ranges

- PV212-22: 0 to 700 bar (0 to 10,000 psi)
- PV212-23: 0 to 1000 bar (0 to 15,000 psi)

Materials

Series 300 stainless steel, brass, nickel plated brass, Polyester, Nitrile, polyurethane and PTFE

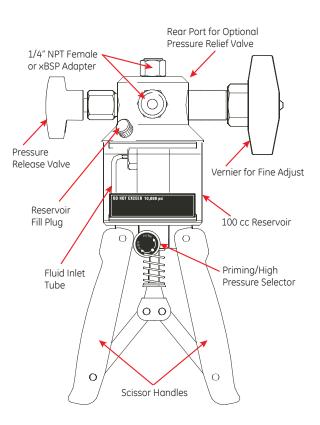
Fluid Media Mineral oil, distilled water

Dimensions (L x W x D)

23 cm x 16 cm x 7 cm (9 in. x 6.25 in. x 2.75 in.)

Weight

Approximately 1.6 kg (3.5 lb).



PV212-X Components

PV212 Accessories Specifications

HK212 High Pressure Hose Kit Specifications

The HK212 are high quality pressure hose kits designed to operate with the PV212. The standard stainless steel/ nylon construction is suitable for use with oil, alcohol or water.

- Self-sealing fittings-finger tight connections
- Low volumetric expansion—negligible pressure drop
- Heavy duty construction

Working Pressure 1000 bar (15,000 psi)

Minimum Burst Pressure 2500 bar (36,200 psi)

Pressure Connections B:BSP N:NPT

Minimum Bend Radius 5.7 cm (2.25 in.)

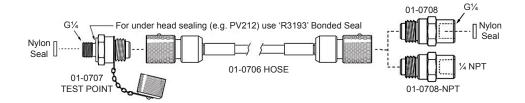
Working Temperature -30°C to 80°C (-22°F to 176°F)

Construction Nylon, stainless steel, brass, PTFE, nitrile

Outer Diameter 6.4 mm (0.25 in.)

Bore 3.3 mm (0.13 in.)

Fluids Water, alcohol and oil standard



PRV212 Adjustable Pressure Relief Valve Specifications

The PRV212 is a pressure relief valve designed for use with the PV212 Series of hydraulic hand pumps to provide overpressure protection to instruments under test. The PRV212 mounts directly on to the PV212 and is supplied in factory preset configurations which can be user adjusted.

Material

303 stainless steel

Inlet Connection

G 1/4" male

Seals

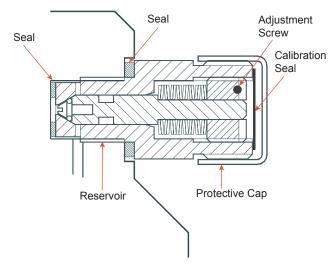
Polyurethane, PTFE, nitrile, nylon

Maximum Working Pressure 1000 bar (15,000 psi)

Dimensions 4 cm x 2.2 cm diameter (1.6 in. x .87 in.)

Weight 62 g (2.1 oz)

Accuracy/Repeatability ±10% nominal setting



PRV212 Schematic

PV212 Adaptor Sets

PV212-Adaptors1 - (PV212 Set of BSP to BSP Adaptors)

- 1/4" BSP Male x 1/8" BSP Male
- 1/4" BSP Male x 1/8" BSP Female
- 1/4" BSP Male x 3/8" BSP Female
- 1/4" BSP Male × 1/2" BSP Female
- 1/4" BSP Male x 1/4" BSP Male

PV212-Adaptors2 - (PV212 Set of BSP to NPT Adaptors)

- 1/4" BSP Male x 1/2" NPT Female
- 1/4" BSP Male x 3/8" NPT Female
- 1/4" BSP Male x 1/8" NPT Female
- 1/4" BSP Male x 1/4" NPT Female
- 1/4" BSP Male x 1/4" BSP Male
- 1/4" BSP Male x 1/4" NPT Male

PV212-Adaptors3 - (PV212 Set of NPT to NPT Adaptors)

- 1/42 NPT Male x 1/4" NPT Male
- 1/4" NPT Male x 1/8" NPT Male
- 1/4" NPT Male x 1/8" NPT Female
- 1/4" NPT Male × 3/8" NPT Female
- 1/4" NPT Male x 1/2" NPT Female
- 1/4" NPT Male X 1/4" BSP Female

Ordering Information									
Use this table to order "PV212-X"									
PV212	PV212 F	lydraulic Har	Hand Pump						
	-22 -23		10000 psi 7/15000 ps	i					
		-P -TK -104 -104S	Pump Only Pump Test Kit Pump Test Kit Pump Test Kit		(Pump supplied in cardboard box, with basic BSP and NPT adaptors) (Pump supplied in Transit case with relevant adaptor kit and hoses) (Pump supplied in Transit case with relevant adaptor kit, hoses, PRV, and DPI104) (Pump supplied in Transit case with relevant adaptor kit, hoses, PRV, and DPI104S)				
			-B -N 	BSP NPT					
				-16A -16G -18S	See tables below See tables below See tables below				
				-20S -22S -23S	See tables below See tables below See tables below				
		V							
PV212	-22	-104S	-В	-16A	(Typical Model Number)				
Other ex	amples mo	iy be:	PV212-22-P (Pump Only) PV212-22-TK-B (Pump Kit with BSP Fittings) PV212-23-104S-B-16A (Pump Kit with BSP Fittings & DPI104-IS)						

DPI104/DPI104	DPI104/DPI104S Pressure Ranges for Fitting B - BSP				
Code	Description				
16A	70 bar absolute				
16G	70 bar gauge				
18S	200 bar sealed gauge				
20S	350 bar sealed gauge				
22S	700 bar sealed gauge				
23S	1000 bar sealed gauge				

DPI104/DPI104S Pressure Ranges for Fitting N - NPT				
Description				
1000 psi absolute				
1000 psi gauge				
3000 psi sealed gauge				
5000 psi sealed gauge				
10000 psi sealed gauge				
15000 psi sealed gauge				

ACCESSORIES					
Part Number	eparately using the below Part Numbers) Description				
PV212-Adaptors1	PV212 Set of BSP to BSP Adaptors				
PV212-Adaptors2	PV212 Set of BSP to NPT Adaptors				
PV212-Adaptors3	PV212 set of NPT to NPT Adaptors				
PV212-TC	PV212 Transit Case				
PV212-SK	PV212 Common Service Kit				
HK212-B-1	High Pressure Hose Kit (1m BSP)				
HK212-B-2	High Pressure Hose Kit (2m BSP)				
HK212-N-1	High Pressure Hose Kit (1m NPT)				
HK212-N-2	High Pressure Hose Kit (2m NPT)				
PRV212-1	Pressure Relief Valve 50 bar				
PRV212-2	Pressure Relief Valve 200 bar				
PRV212-3	Pressure Relief Valve 400 bar				
PRV212-4	Pressure Relief Valve 700 bar				
PRV212-5	Pressure Relief Valve 1000 bar				
1S-PRVSK1	PRV212 Relief Valve Common Seal Kit				
PV212A121M2038-1	PV212-22 Fine Control Assembly 700 bar				
PV212A121M2038-2	PV212-23 Fine Control Assembly 1000 bar				
PV212A121M2038-3	PV212-22 Handle/Piston Assembly 700 bar				
PV212A121M2038-4	PV212-23 Handle/Piston Assembly 1000 bar				
PV212A121M2038-5	PV212 Common Release Valve Assembly				
PV212A121M2038-6	PV212 Pump Labels				
PV212-SK-FULL	PV212 Common Seal Kit				

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