

Fluke-700PRV-1 Pressure Relief Valve Kit

Instruction Sheet

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Introduction

The Fluke-700PRV-1 Pressure Relief Valve is an adjustable pressure relief valve for the Fluke-700HTP-1 Hydraulic Test Pump. The valve provides a pressure relief setting range of 50 to 400 bar (725 to 5,800 psi).

The 700HTP-1 pump can develop pressures up to 690 bar (10,000 psi). Application of too much pressure can damage some pressure instruments. The pressure relief valves in this kit provides a method to protect pressure instruments from accidental overpressure. When the applied pressure reaches the relief setting of the valve, the valve opens and releases hydraulic fluid pressure.

Specifications

Preset Value ($\pm 10\%$)	Relief Setting Range
2900 psi	725 to 5800 psi
200 bar	50 to 400 bar

Pressure Connection: 1/8-in NPT male thread. This mates with the pressure relief valve port on the 700HTP-1 pump.

Pressure Relief Adjustment Method: Multiturn adjustment screw to set preload on disc springs.

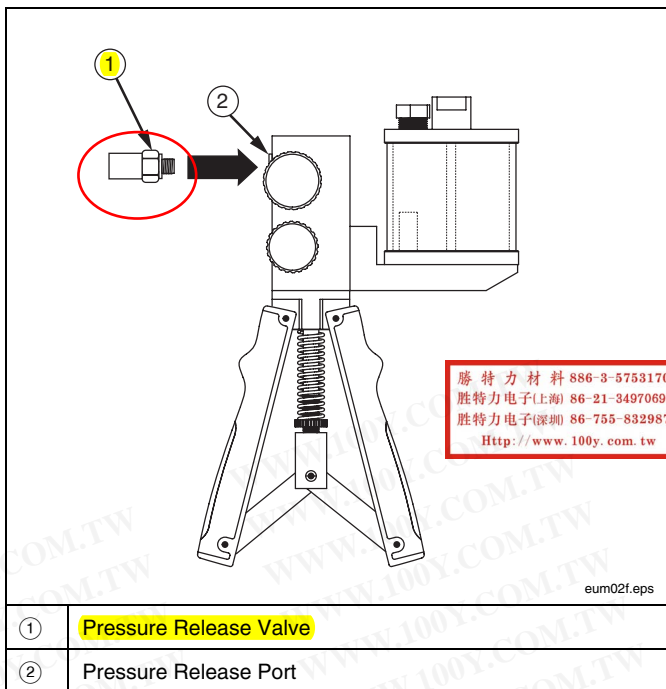
Repeatability of relief setting: $\pm 10\%$ of nominal setting

Material: 303 stainless steel

Dimensions (each): 1.52 in by 0.62 in diameter (38 mm by 16 mm diameter)

Weight (each): 1.6 oz (46 g)

Installing a Pressure Relief Valve



Adjusting the Pressure Relief Setting

Set the pressure relief by trial and error. The table under Specifications shows the preset pressure relief settings at time of shipment. To set the pressure relief lower, turn the adjustment screw counter-clockwise ↺ (loosen it). To set the pressure relief higher, turn the adjustment screw clockwise ↻ (tighten it).