



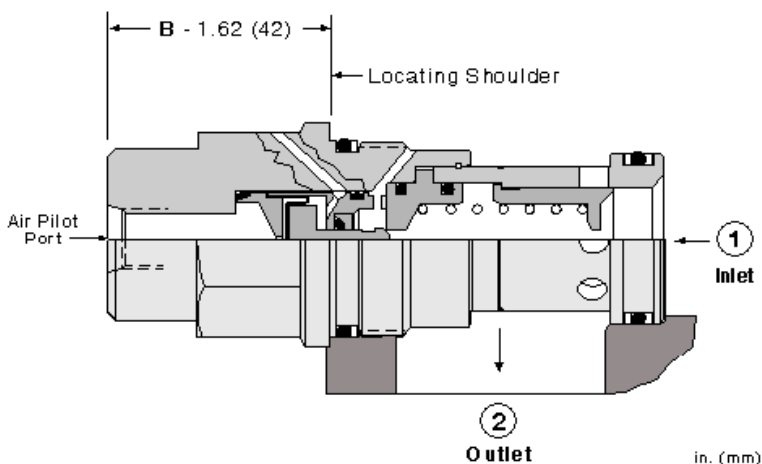
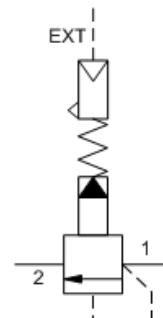
Air-controlled, pilot operated, balanced piston relief valve

Capacity:
100 gpm (380 L/min.)

Model:
RPID

Product Description

Air-controlled, pilot-operated, balanced piston relief cartridges use compressed air over a diaphragm instead of an adjustable spring to control pressure setting. The air signal is supplied through a port in the hex-end of the cartridge. They are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure. These valves are accurate, have low pressure rise vs. flow, they are smooth and quiet, and are moderately fast.



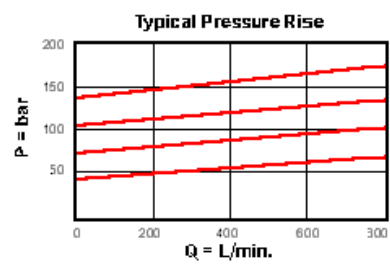
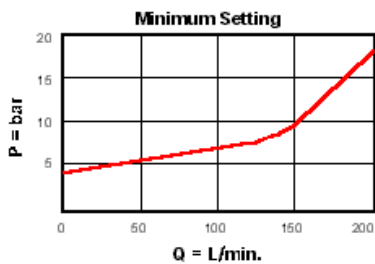
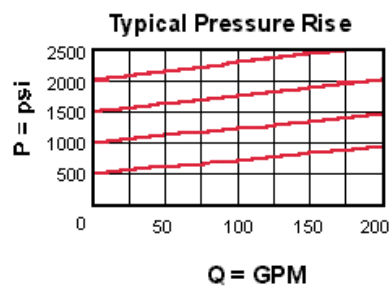
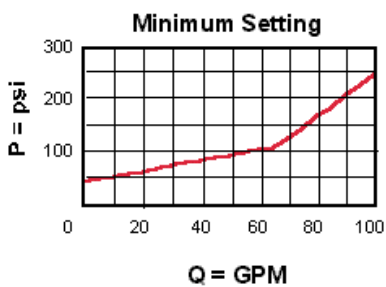
Technical Features

- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Will accept maximum pressure at port 2: suitable for use in cross port relief circuits.
- Maximum air pressure should not exceed 150 psi (10 bar).
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

Technical Data

	U.S. Units	Metric Units
Cavity		T-16A
Capacity	100 gpm	380 L/min.
Pilot Ratio		20:1
Hysteresis (with dither)		< 4%
Maximum Air Pressure	150 psi	10,5 bar
Maximum Operating Pressure	2000 psi	140 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	4 in ³ /min. @1000 psi	65 cc/min. @70 bar
Response Time - Typical		10 ms
Series (from Cavity)		Series 3

Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge	Buna: 990-016-007	
Seal Kits - Cartridge	Viton: 990-016-006	
Model Weight	1.15 lb.	0.52 kg.



RPI D-BBN

Control	Operating Range	Seal Material
Standard Options	Standard Options	Standard Options
B External 4-SAE Port	B 50 - 1500 psi (3,5 - 105 bar)	N Buna-N V Viton