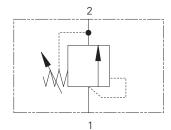
1DR30 - Relief Valve

Poppet, Direct Acting 30 L/min (8 USgpm) • 400 bar (5800 psi)



Sectional View

Ε

Tank (2) Pressure (1)

Description

This is a direct acting, poppet style screw in cartridge relief valve, it is an economical solution for small flow systems where a fast response is required.

Operation

Pressure on the nose of the cartridge acts over the seat area moving the poppet against the spring, allowing relief flow to tank.

Features

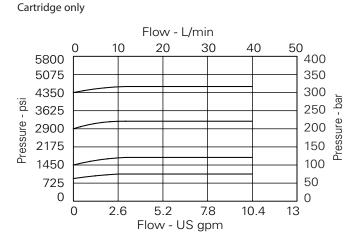
Fast acting, low pressure rise due to flow for a direct acting valve.

Performance Data

Performance data is typical with fluid at 32	2 cSt (150 SUS) and 40° C (120° F)
Typical application pressure	400 bar (5800 psi)
Rated flow	30 L/min (8 USgpm)
Cartridge Material	Working parts hardened and ground steel External sufaces zinc plated
Cavity	C-8-2 (see Section M)
Standard housing materials	Aluminum (up to 210 bar) or Steel (add 377 suffix for steel option)
Torque Cartridge into Cavity	45 Nm (33 lbs ft)
Temperature range	-30° to 90°C (-22° to 194°F)
Fluids	All general purpose hydraulic fluids such as MIL–H–5606, SAE 10, SAE 20, etc
Filtration	Cleanliness Code BS5540-4 18/13 (25 micron nominal)
Weight cartridge only	0,17 kg (0.37)
Internal leakage	0.3 ml/min nominal (5 dpm)
Nominal Viscocity Range	5 to 500 cSt
Seal kits	SK243 Buna–N SK243V Viton

Viton is a registered trademark of E.I. DuPont

Pressure Override Curves



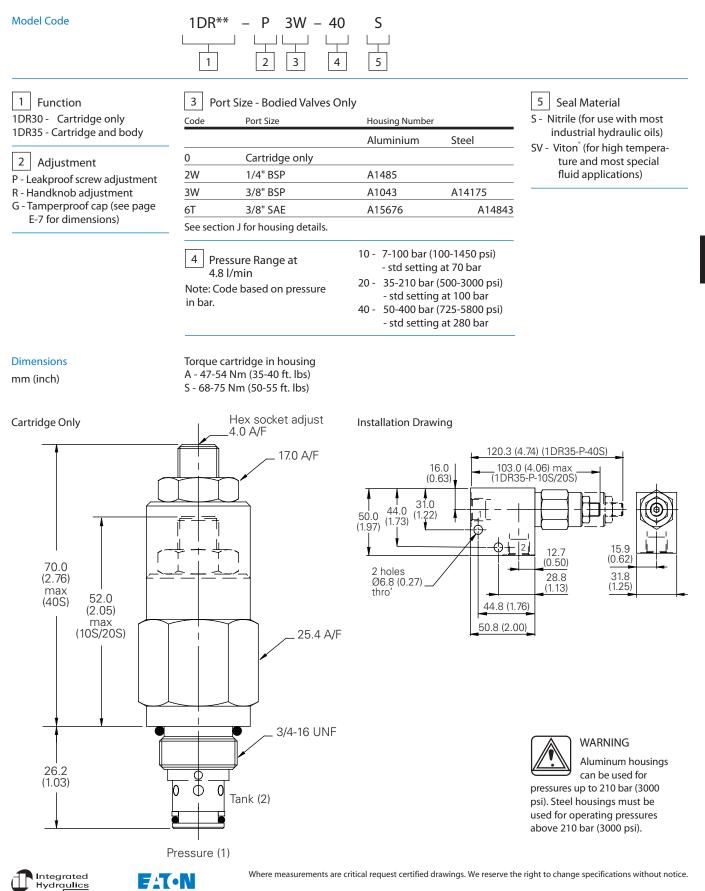
•

1DR30 - Relief Valve

An Eaton Brand

iness Worldwide

Poppet, Direct Acting 30 L/min (8 USgpm) • 400 bar (5800 psi)



Ε