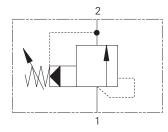
1AR100 - Relief Valve

Spool, pilot operated 150 L/min (40 USgpm) • 400 bar (5800 psi)



Operation

When the inlet pressure exceeds the setting of the valve, the pilot section opens, causing a small flow across the orifice in the main spool.

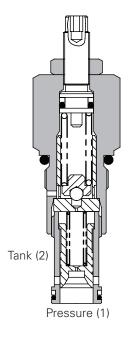
The subsequent pressure drop moves the spool against a light spring opening a ring of radial holes in the sleeve, allowing relief flow to tank.

Features

High accuracy of pilot operated design. Hardened working parts give long, reliable, trouble-free life. Cartridge construction for installation into your own manifold.

Sectional View

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Ratings and Specifications

Performance Data

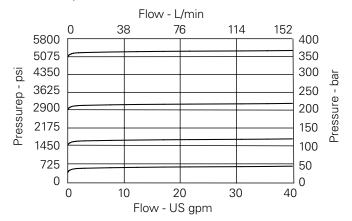
Figures based on: Oil Temp = 40°C Viscosity = 32 cSt (150 SUS))
Rated flow	150 L/min (40 USgpm)
Max setting1AR100	400 bar (5800 psi)
Cartridge material	Working parts hardened and ground steel External surfaces zinc plated
Body material	Standard aluminium (up to 210 bar*) Add suffix "377" for steel option
Mounting position	Unrestricted
Cavity	A881 (See Section M)
Torque cartridge into cavity	60 Nm (44 lbs ft)
Weight1AR100	0.14 kg (0.3 lbs)
1AR150	0.65 kg (1.4 lbs)
1AR155	0.91 kg (2.0 lbs)
Seal kit	SK164 (Nitrile) SK164V (Viton)
Recommended filtration level	BS5540/4 class 18/13 (25 micron nominal)
Operating temp	-30° to +90°C (-22° to +194°F)
Leakage	20 to 65 milliliters/min nomina
Nominal viscosity range	5 to 500 cSt
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Viton is a registered trademark of E.I. DuPont

Description

To limit pressure in a system. Good for continuous duty and accurate pressure control with constant or varying flows.

Pressure Drop Curves



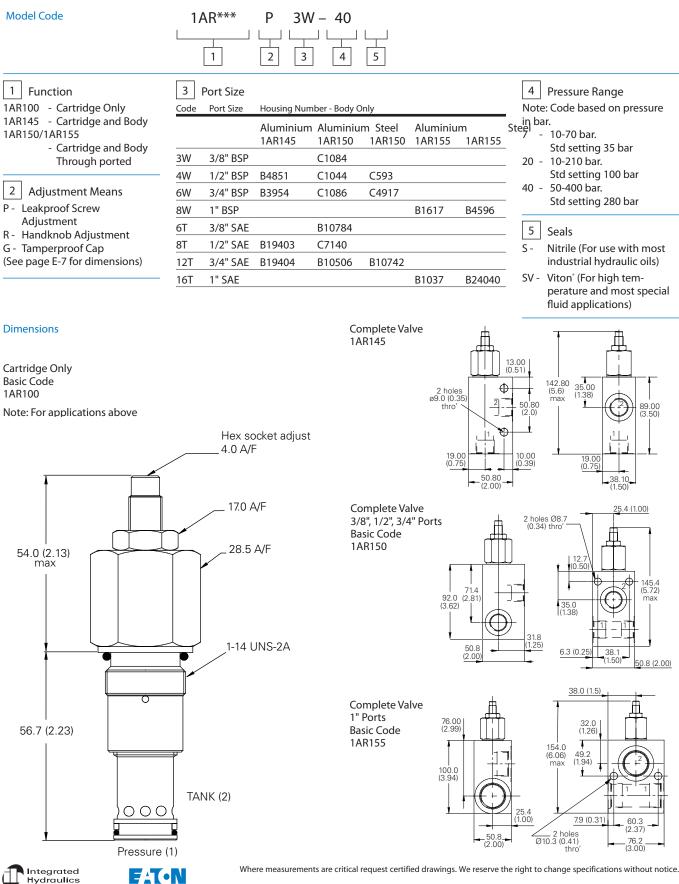




1AR100 - Relief Valve

An Eaton Brand

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