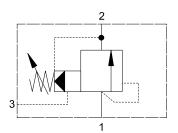
www.salushydraulics.pl pl@salushydraulics.pl shop/sklep: www.sklep.salushydraulics.pl

Eaton 1VR100, Eaton 1VR150



Operation

When inlet pressure exceeds the setting of the valve, the pilot section opens. The pilot flow causes a pressure imbalance across the main section spool causing it to open, allowing relief flow to tank.

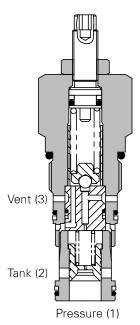
When 'vented', pilot flow is referenced directly to tank, bypassing the pilot section. This flow through the vent causes a pressure imbalance, opening the main section and dumping the pump at minimum pressure drop.

Features

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

Sectional view

Ε



Performance data

Ratings and specifications

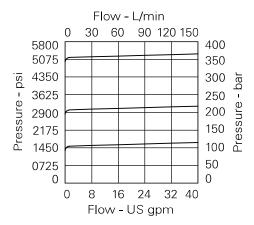
100 L/min (26 USgpm)		
350 bar (5000 psi)		
Working parts hardened and ground steel.		
External surfaces zinc plated.		
Standard aluminium (up to 210 bar).		
Add suffix "377" for steel option.		
Unrestricted		
A3146 (See Section M)		
75 Nm (55 lbs ft)		
1VR100 0.46 kg (1.0 lbs)		
1VR150 1.13 kg (2.5 lbs)		
SK275 (Nitrile) SK275V (Viton®)		
BS5540/4 Class 18/13 (25 micron nominal)		
-20° to +90°C (-22° to +194°F)		
35 milliliters/min @ 280 bar		
5 to 500 cSt		

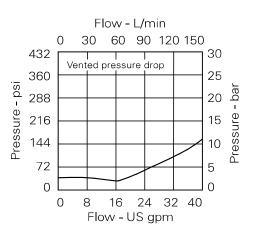
Viton® is a registered trademark of E.I. DuPont®

Description

This is a ventable, internally pilot operated relief valve designed to limit pressure in a system. Good for continuous duty and accurate pressure control with constant or varying flows. The vent feature can be used with remote pilot section for a two-pressure system or to allow manual or remote 'unloading' of the pump.

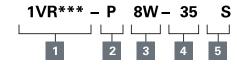
Pressure drop curves





Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Model code



1 Function

1VR100 - Cartridge Only **1VR150 -** Cartridge and Body

2 Adjustment means

P - Leakproof Screw Adjustment

G - Tamperproof Cap (See page E-7 for dimensions)

3 Port size

Code	Port size	Port size Housing number - body only		er - body only
		Aluminium	Steel	
6W	3/4'' BSP	B4377	B4378	
12T	3/4" SAE	B10785	B11554	

4 Pressure range @ 14 I/min

Note: Code based on pressure in bar.

20 - 10-210 bar.

Std setting 100 bar

35 - 30-350 bar. Std setting 210 bar Std setting made at 14 L/min

5 Seals

S - Nitrile (For use with most industrial hydraulic oils)

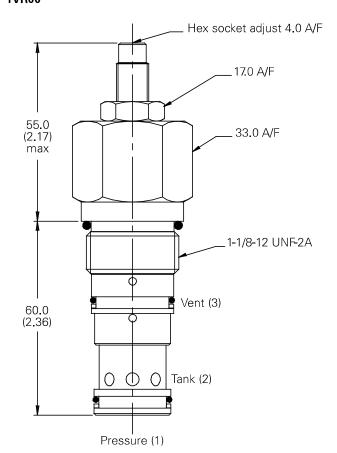
SV - Viton (For high temperature and most special fluid applications)

Dimensions

mm (inch)

Cartridge only

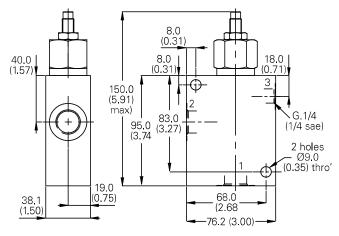
Basic Code 1VR00



Complete valve

3/4" Ports Basic Code

1VR150



Note: For applications above 210 bar, please consult our technical department or use the steel body option.

Note: Tightening torque of "F" adjuster locknut - 20 to 25 Nm