

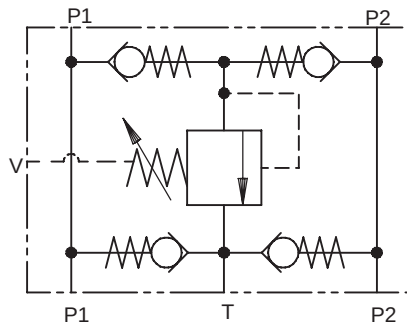


1VRC SERIES VENTABLE CROSSLINE RELIEF VALVE

WITH ANTI-CAVITATION CHECKS - PILOT OPERATED

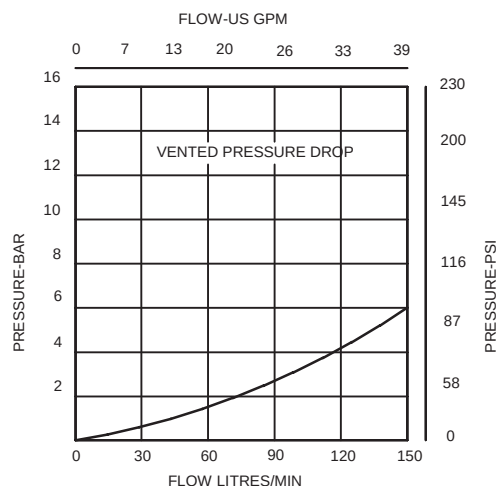
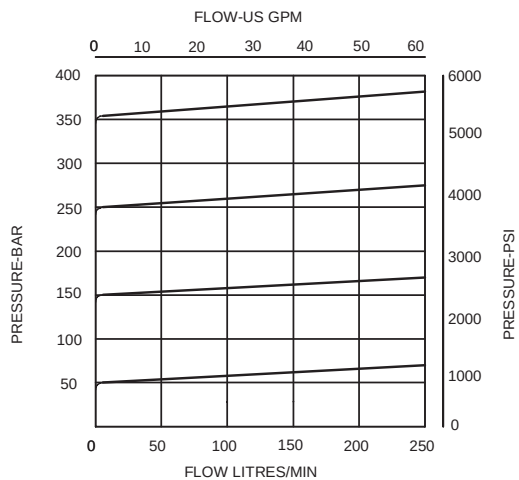
1VRC250

SLIDING SPOOL TYPE



3

PRESSURE DROP



APPLICATION - OPERATION

To relieve shock pressures at control valves and actuators when controls are suddenly centred or reversed. Also relieves shock when external loads are applied to the motor or actuators. The make up feature allows any oil deficiency to be drawn from the tank or any excess oil to be relieved to tank, with the cross over function helping to prevent cavitation. The vent feature can be used with a remote pilot section for a two pressure system and also allows manual or remote 'unloading' of the pump, or low pressure bypass of the motor.

FEATURES

High accuracy of pilot operated design. Hardened working parts give reliable, long life for protected expensive components.

SPECIFICATIONS

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

Rated Flow	200 litres/min (52 US GPM)
Max Setting	350 bar (5000 psi)
Cartridge Material	Working parts hardened and ground steel. External steel surfaces zinc plated
Body Material	Standard aluminium (up to 210 bar*) Add Suffix '377' for steel option
Mounting Position	Line mounted
Weight	3.9 kg (8.6 lbs)
Seal Kit Number	SK617 (Nitrile) SK617V (Viton)
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	35 millilitres/min @ 280 bar
Nominal Viscosity Range	5 to 500 cSt

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

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COMPLETE VALVE 1" PORTS

BASIC CODE: 1VRC250

Sub-assembly part numbers

BSP, aluminium

1" CXP22496-8W-S

SAE, aluminium

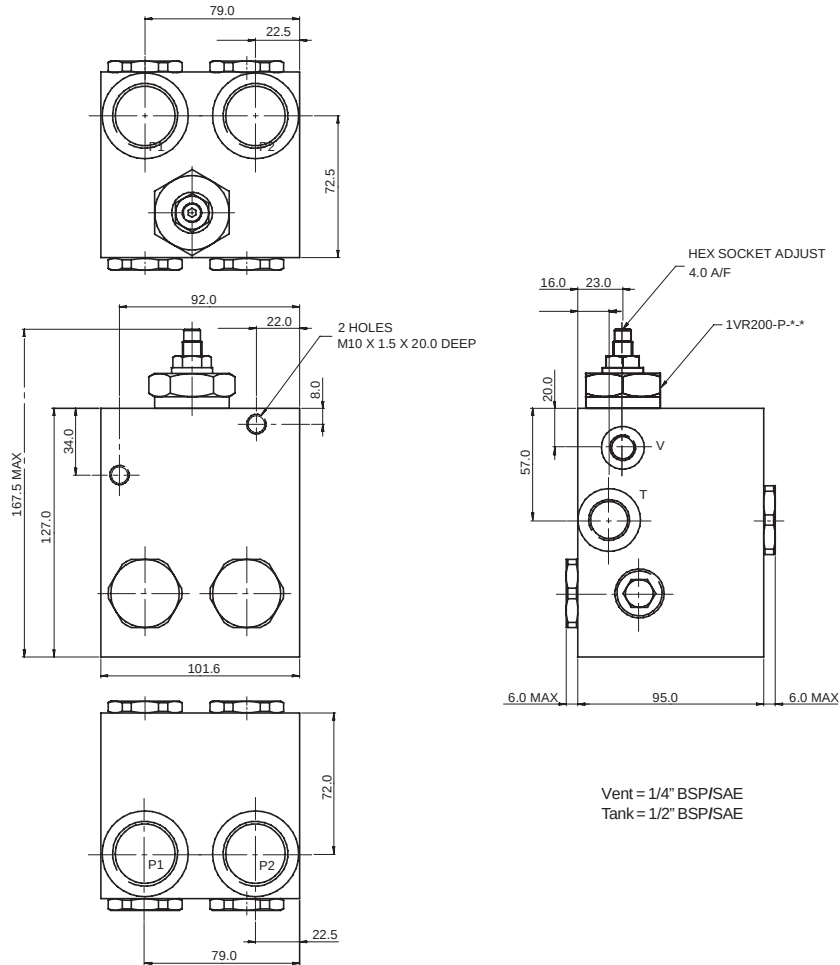
1" CXP22496-16T-S

BSP, steel

1" CXP22496-8W-S-377

SAE, steel

1" CXP22496-16T-S-377



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

1VRC250 P 8W 35 S

Basic Code

1VRC250 = Cartridge and Body

Adjustment Means

P = Leakproof Screw Adjustment

Port Sizes - Bodied Valves Only

8W = 1" BSP 16T = 1" SAE

Seals

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

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

Pressure Range @ 14 l/min

20 = 10-210 bar. Std setting 100 bar
35 = 30-350 bar. Std setting 210 bar
Std setting made at 14 litres/min

We reserve the right to change specifications without notice