



Logic Elements Technical Information

Poppet Type, Double-Blocking VLP 12/P2

OPERATION

The VLP 12/P2 is a metric 12-size, normally-closed, vent-to-open, poppet-type, double-blocking, spring biased differential-sensing logic element. It will provide on/off flow control from 1 to 2 based on the spring control pressure, inlet pressure at port 1, and pilot pressure at port 3.

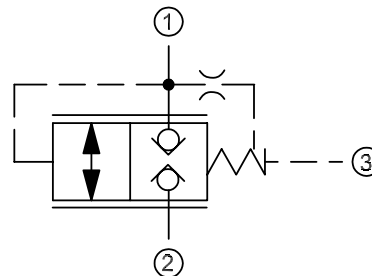
APPLICATION

The valve provides on/off, leakage-free control in both directions, suitable for use as a high flow relief valve when used with a relief valve to pilot. Common applications include: pump unloading, pilot-operated relief valve, sequence valve and selector circuit. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

SPECIFICATION

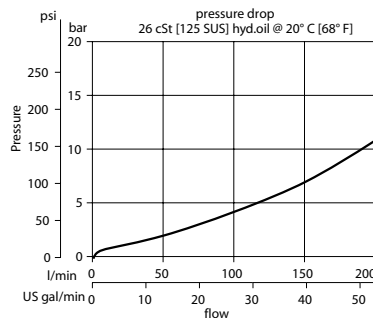
| | |
|-------------------------------|---------------------------|
| Rated pressure | 315 bar [4500 psi] |
| Rated flow at 7 bar [100 psi] | 160 l/min [42 US gal/min] |
| Weight | 0.30 kg [0.66 lb] |
| Cavity | NCS12/3 |
| Bias spring | 2 bar [29 psi] |

SCHEMATIC



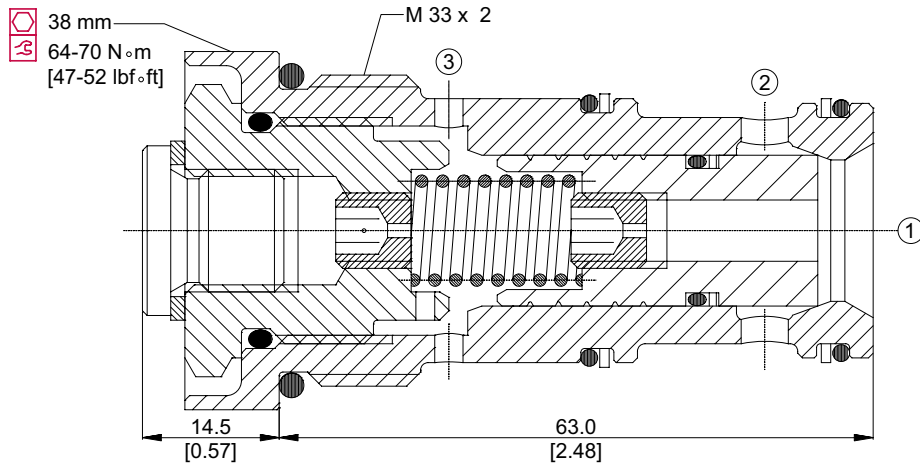
PERFORMANCE CURVE

Theoretical performance

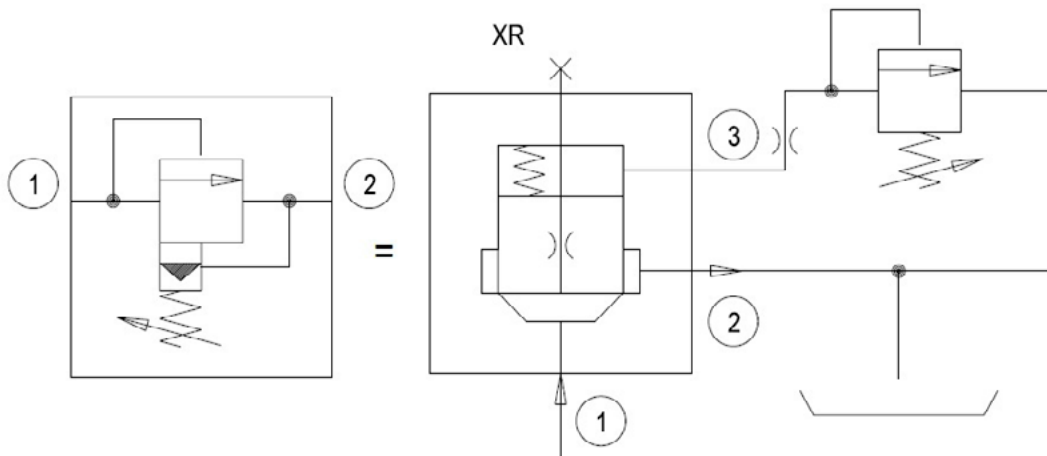


DIMENSION
mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



ORDERING INFORMATION

VLP 12/P2 - B - SE8S - V

Seals

V = Viton
Omit = Buna-N

Seal kit
23000360
230000130

Housing and ports

00 = No Housing
SE1/2 = AL, 1/2 BSP
SE3/4 = AL, 3/4 BSP
SE8S = AL, #8 SAE
SE12S = AL, #12SAE
Other housings available

Housing P/N

No Housing
NCS12/3-SE-1/2
NCS12/3-SE-3/4
NCS12/3-SE-8S
NCS12/3-SE-12S