



## Logic Elements Technical Information

### Poppet Type VLP 12/C2

#### OPERATION

The VLP 12/C2 is a metric 12-size, normally-closed, vent-to-open, poppet-type, 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.

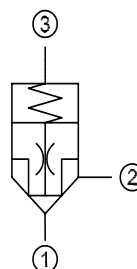
#### APPLICATION

The valve provides on/off, leakage-free control, suitable for use as a high flow relief valve when piloted with a relief valve or a high flow unloading solenoid when piloted with a small solenoid valve. 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

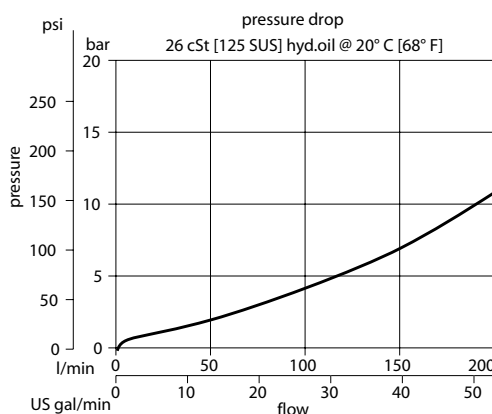
<b>Rated pressure</b>	315 bar [4500 psi]
<b>Rated flow at 7 bar [100 psi]</b>	160 l/min [42 US gal/min]
<b>Weight</b>	0.30 kg [0.66 lb]
<b>Cavity</b>	<b>NCS12/3</b>
<b>Bias spring</b>	2 bar [29 psi]

#### SCHEMATIC



#### PERFORMANCE CURVE

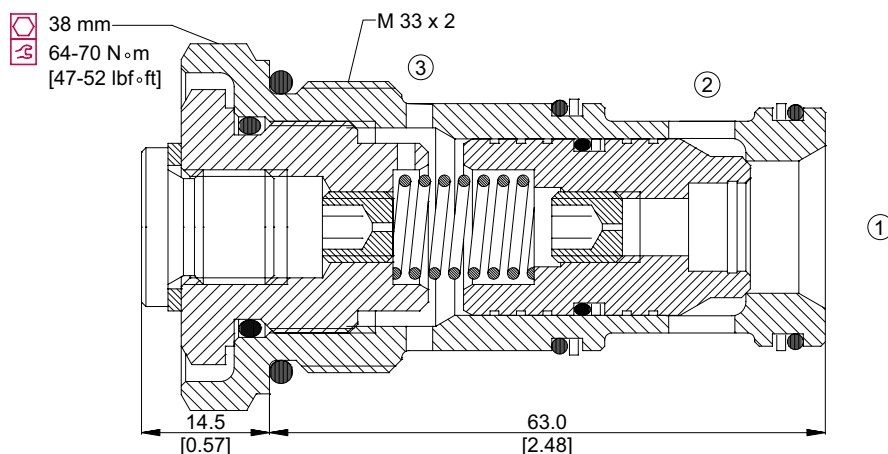
##### Theoretical performance



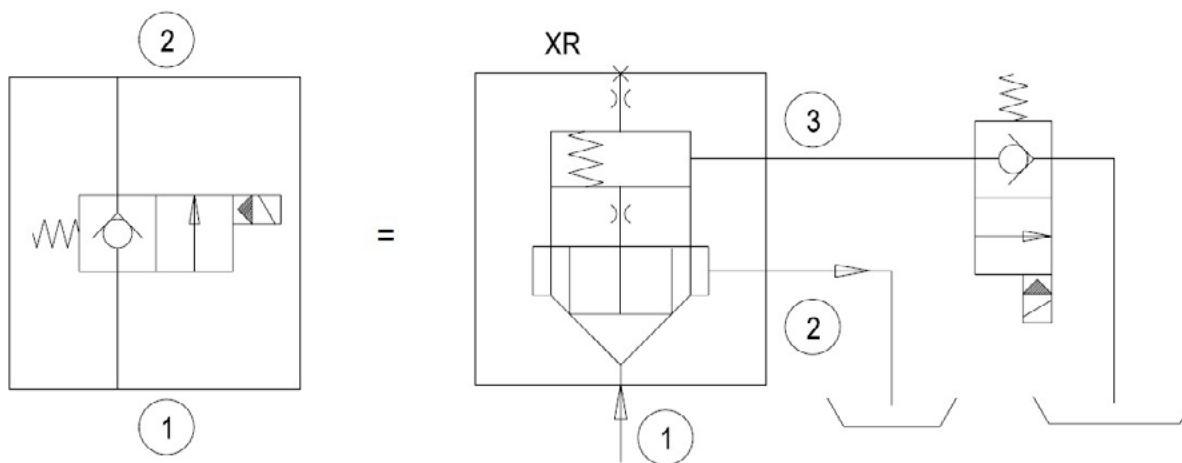
**DIMENSION**

mm [in]

**Cross-sectional view**



**EXAMPLE CIRCUITS**



**ORDERING  
INFORMATION**

VLP 12/C2 - B - SE8S - V

**Seals**

V = Viton  
Omit = Buna-N

Seal kit  
230000360  
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, #12 SAE  
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