Related Fluid Power

Pressure Control.

Pressure Compensating Regulator Valve - Size 16.

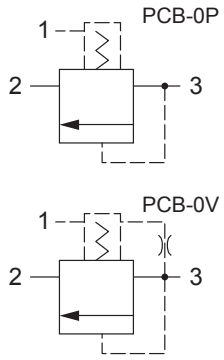
D-SLPCB

Up to 240 bar - 150 lpm

Operation

The D-SLPCB-0P with an orifice between ports (3) and (1) maintains a constant flow rate from (3) regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1).
The valve's spool maintains a constant differential pressure across a internal orifice, thereby regulating the hydraulic flow rate from across this external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurised.
The D-SLPCB-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.

Symbol



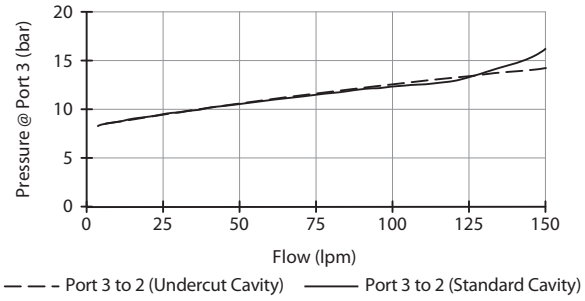
Features

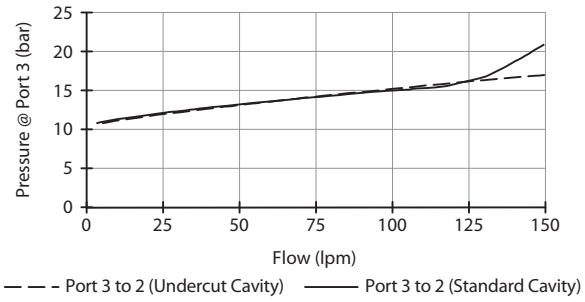
- Hardened parts for long life.
- Industry common cavity.

Can be used as a logic element.
D-SLPCB-0P is commonly used as a bypass flow regulator (7 bar recommended).
D-SLPCB-0V is commonly used as the main stage of a ventable relief valve (3.4 and 7 bar recommended).

Performance

32 cSc / 38°C.





Specifications

Nom. Flow (lpm)	150
Max. Pressure (bar)	240
Hydraulic Oil	General purpose hydraulic fluid
Viscosity Range	3 to 640 cSt
Filtration	ISO 18/16/13
Operating Temp.	-40 to 120˚C
Cartridge Torque	122 Nm
Cavity	SL16-3 (see cavity data page **CAV-SL16-3**)
Spare Seal Kit (Viton)	SK-DSLVHDD
Weight - Valve only	0.32 kg
Weight - Valve + Body	0.99 kg (alum) 2.30 kg (steel)

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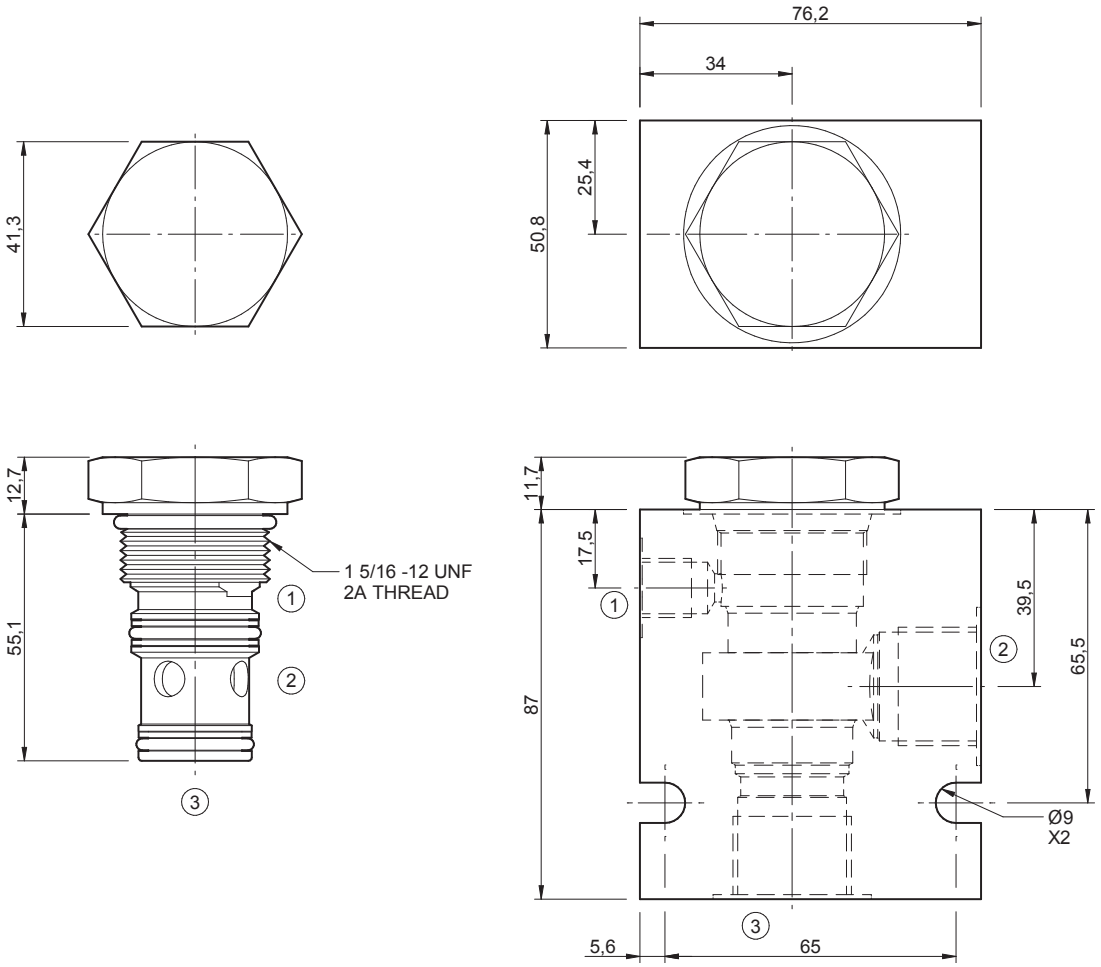
Dimensions

[mm]



Ordering Code

D-SLPCB ** **** * * *

Options
0P - Nitrile, Pilot to Close
0V - Nitrile, Vent to Open
VP - Viton, Pilot to Close
VV - Viton, Vent to Open
0B - Nitrile, Pilot to Close with seals
0C - Nitrile, Vent to Open with seals
VB - Viton, Pilot to Close with seals
VC - Viton, Vent to Open with seals

ΔP Setting
@ 3.8 LPM With Pilot Vented
0020 - 1.4 bar
0050 - 3.5 bar
0100 - 7 bar
0150 - 10.3 bar

Port size (BSP)
C - 1/2”
D - 3/4”
Port 1 1/4” BSP
Options - See page **B-DSL**

No. of ports
3 - 3 ports
Options - See page **B-DSL**

Body material
A - Aluminium
S - Steel
For pressures over 210 bar use steel.

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