

DPS2-12 - Logic element

Differential pressure sense valves
114 L/min (30 USgpm) • 350 bar (5000 psi)

Functional symbols

See pages I-142 & I-143

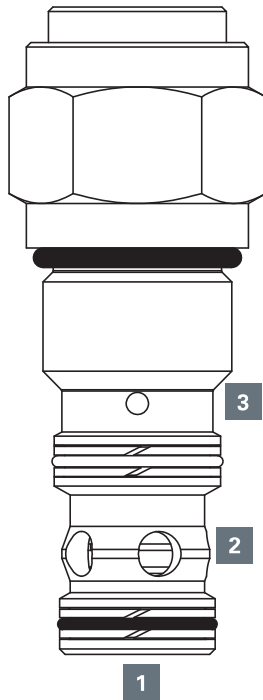
Operation

This valve is used as a main section of a pilot controlled valve assembly. This valve has multiple uses when used with either directional control, flow control or pressure control cartridges. Refer to application examples.

Features

Hardened and ground and honed working components.
Cartridge construction for maximum mounting flexibility.
Low leakage with poppet valves and 350 bar pressure rating

Sectional view



Performance data

Ratings and specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49° C (120° F)

Typical application pressure	Spool and Poppet type: 350 bar (5000 psi)
Rated flow	114 L/min (30 USgpm)
Pilot ratio	Spool type P, V, R, F: 1:1 Poppet type B, S, T: 2:1
Internal leakage	Spool type: 82 cm ³ /min, (5 in ³ /min) max @ 350 bar (5000 psi) Poppet type: 5 drops/min @ 5000 psi
Temperature range	-40° to 120° C (-40° to 248° F)
Cavity	C-12-3S
Standard housing materials	Aluminium or steel
Fluids	All general purpose hydraulics fluids such as: MIL-H-5606, SAE 10, SAE 20 etc
Filtration	Cleanliness code 18/16/13
Weight cartridge only	0,31 kg (0.68 lbs)

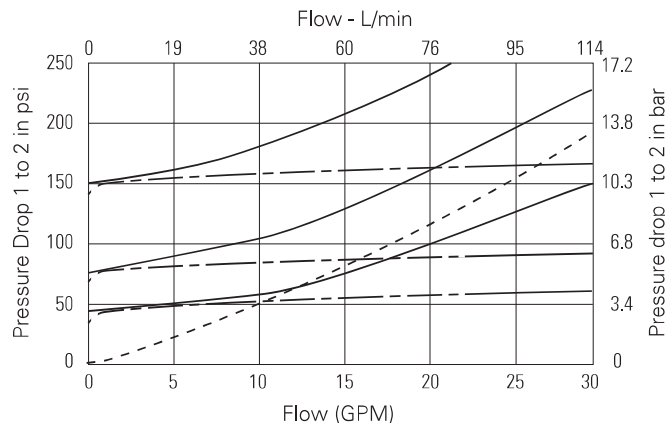
Description

These are normally open or closed logic elements with or without a control orifice. They can be used as main valves for the control of high flows using small pilot cartridges, as compensators or load sense elements.

Pressure drop curve

Cartridge only

————— B/S/T models
————— P/V models
- - - - - F/R models



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

