

Logic Elements

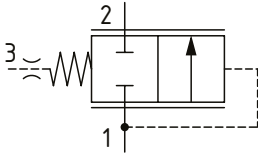
DPS2-10-P

Logic Element, Normally Closed, Spool Type, Pilot to Close
290 bar [4200 psi] • 60 l/min [16 US gpm]

DESCRIPTION AND OPERATION

This is a 3-ported, normally closed, pilot to close spool type logic element. By opening port 3 to tank, flow can pass from port 1 to port 2. Flow is blocked from port 1 to port 2 unless the pressure is high enough in port 1 to overcome the spring set pressure. Applying pressure to port 3 will increase the pressure required in port 1 to open the valve by a factor of 1 to 1. This valve is ideal for use as a pressure compensator, bypass valve, or a pilot to close valve in regenerative circuits.

SCHEMATIC



PERFORMANCE DATA

Rated pressure	290 bar [4200 psi]
Rated flow	60 l/min [16 US gpm]
Leakage	82 ml/min [5 in3/min] @ 290 bar [4200 psi]
Weight	0.14 kg [0.30 lb]
Cavity	SDC10-3S

MODEL CODE

DPS2 - 10 - V - P - F - A - 3G - 005

Seal Option

Code	Seal kit
Omit-Buna - N	889650
V-Viton	889652

Adjustment Option

F- Fixed
S- Stroke Adjustment

Housing Material

Omit - No Housing
A - Aluminum
S - Steel

Differential Pressure

Code	Bar	Psi
005	0.35	[5]*
010	0.7	[10]*
020	1.40	[20]*
040	2.80	[40]
080	5.50	[80]
160	11.0	[160]

* The operating back pressure at port 3 should never be less than 1.3 times the spring set pressure.

Housing

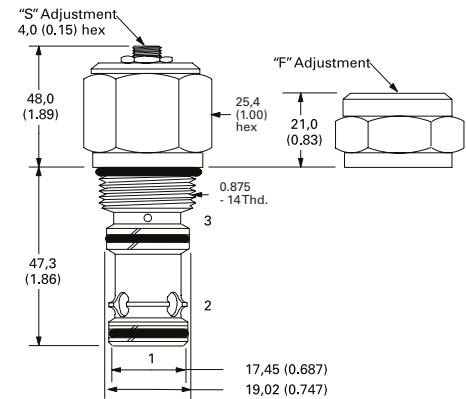
Code	Ports 1 & 2	Port 3	Aluminum Heavy Duty	Steel
0	No Housing			
2G	1/4" BSP	1/4" BSP	876707	
3G	3/8" BSP	1/4" BSP	876710	02-163313
4G	1/2" BSP	1/4" BSP		02-163324
6H	#6 SAE	#6 SAE	876706	
8H	#8 SAE	#6 SAE	876712	
6T	#6 SAE	#6 SAE		02-171961
8T	#8 SAE	#6 SAE		02-163322
10T	#10 SAE	#6 SAE		02-163323

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].

* Additional housings available

DIMENSIONS

mm [in]



Installation torque

A-47-54 Nm [35-40 ft. lbs]
S-68-75 Nm [50-55 ft. lbs]

PERFORMANCE CURVES

