

# Logic Elements

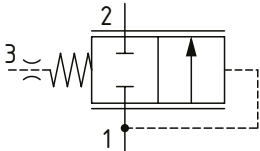
## DPS2-16-P

Logic Element, Normally Closed, Spool Type, Pilot to Close  
**290 bar [4200 psi] • 189 l/min [50 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

<b>Rated pressure</b>	<b>290 bar [4200 psi]</b>
<b>Rated flow</b>	<b>189 l/min [50 US gpm]</b>
<b>Leakage</b>	82 ml/min [5 in <sup>3</sup> /min] @ 290 bar [4200 psi]
<b>Weight</b>	0.35 kg [0.78 lb]
<b>Cavity</b>	SDC16-35

### MODEL CODE

**DPS2 - 16 - V - P - A - 4G - F - 005**

#### Seal Option

Code	Seal kit
Omit-Buna - N	889659
V-Viton	02-165871

#### Housing Material

Omit - No Housing  
 A - Aluminum  
 S - Steel

#### Housing

Code	Ports 1 & 2	Port 3	Aluminum Heavy Duty	Steel
0	No Housing			
4G	1/2" BSP	3/8" BSP	02-160676	02-175118
6G	3/4" BSP	3/8" BSP	876726	02-175119
10H	#10 SAE	#6 SAE	876725	
12H	#12 SAE	#6 SAE	786727	
10T	#10 SAE	#6 SAE		02-175116
12T	#12 SAE	#6 SAE		02-175117

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

#### Differential Pressure

Code	Bar	Psi
005	0.35	[5]*
020	1.40	[20]*
040	2.80	[40]
080	5.5	[80]
160	11.0	[160]

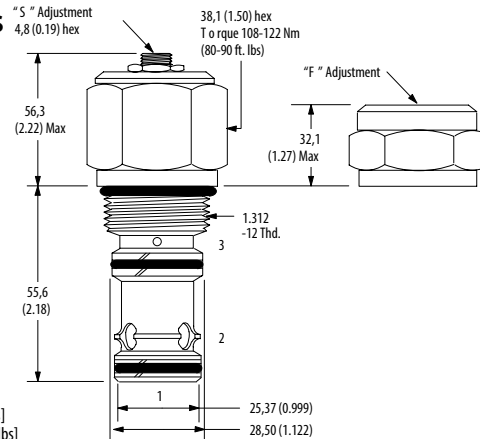
\* The operating back pressure at port 3 should never be less than 1.3 times the spring set pressure.

#### Adjustment Option

F - Fixed  
 S - Stroke Adjustment

### DIMENSIONS

mm [in]



#### Installation torque

A-108-122 Nm [80-90 ft. lbs]  
 S-136-149 Nm [100-110 ft. lbs]

### PERFORMANCE CURVES

