

# Logic Elements

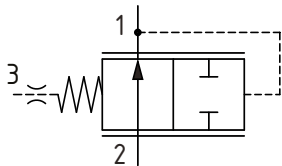
## DPS2-16-F

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

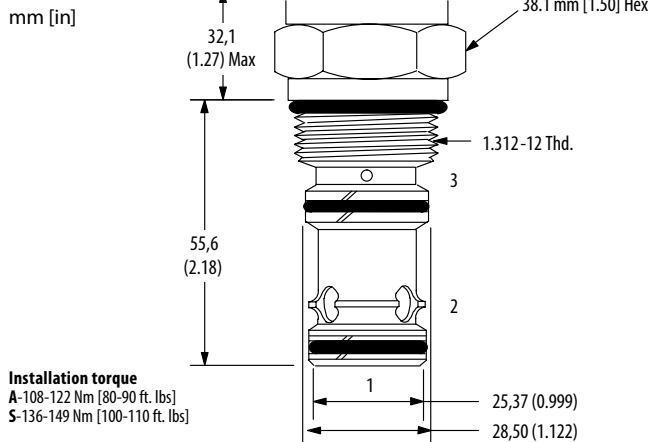
### DESCRIPTION AND OPERATION

This is a 3-ported, normally open, pilot to open, spool type logic element. Flow is open from port 2 to port 1, until pressure in port 1 is sufficient to overcome the spring set pressure plus any pressure in port 3. The pressure in port 3 can be controlled remotely making the valve ideal for use as a normally open on/off element in a pressure reducing function. This valve is most commonly used as a pressure compensator in conjunction with a proportional directional valve.

### SCHEMATIC



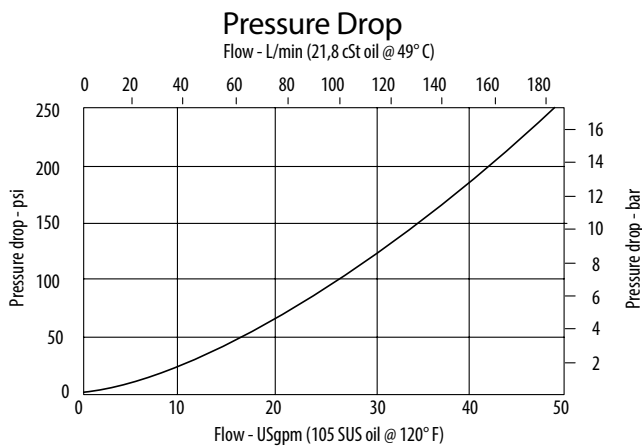
### DIMENSIONS



### 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 in3/min] @ 290 bar [4200 psi]
<b>Weight</b>	0.35 kg [0.78 lb]
<b>Cavity</b>	SDC16-3S

### PERFORMANCE CURVES



### MODEL CODE

**DPS2 - 16 - V - F - 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