Logic Elements

DPS2-8-P

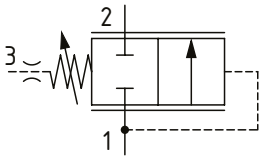
Logic Element, Normally Closed, Spool Type, Pilot to Close

350 bar [5000 psi] • 30 l/min [8 US gpm]

DESCRIPTION AND OPERATION

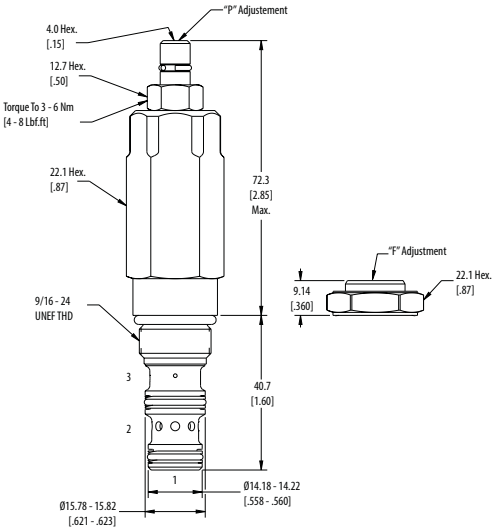
This is a 3-ported, normally closed, pilot to close spool type logic element. By opening port 3 to tank, flow can pass from port 1 to port 2. Flow is blocked from port 1 to port 2 unless the pressure is high enough in port 1 to overcome the spring set pressure. Applying pressure to port 3 will increase 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



DIMENSIONS

mm [in]

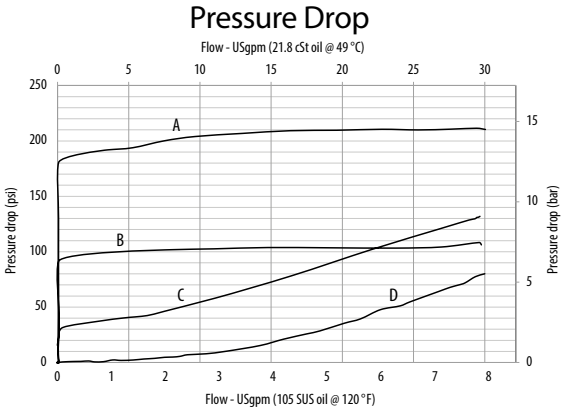


Installation torque
34-41 Nm [25-30 ft lbs]

PERFORMANCE DATA

Rated pressure	**350 bar [5000 psi]**
Rated flow	**30 l/min [8 US gpm]**
Leakage	82 ml/min [5 in³/min] @ 350 bar [5000 psi]
Weight	0.07 kg [0.16 lb]
Cavity	SDC08-3

PERFORMANCE CURVES



A - 160 PSI • **B** - 80 PSI • **C** - 40 PSI • **D** - Without Spring

MODEL CODE

DPS2 - 8 - V - P - A - 4T - F - 040

Seal Option

Code	Seal kit
Omit-Buna - N	02-160755
V-Viton	02-160756

Housing Material

Omit - No housing
A - Aluminum
S - Steel

Housing

Code	Port size	Aluminum	Steel
0	No housing		
4T	#4 SAE	02-160741	02-160745
6T	#6 SAE	02-160742	02-160746
2G	1/4" BSP	02-160739	02-160743
3G	3/8" BSP	02-160740	02-160744

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

Differential Pressure

Code	Bar	Psi
040	2.80	[40]
080	5.50	[80]
160	11.0	[160]
300	5.5-20.7	[80-300]*

* Only for "P" Adjustment pressure setting, factory set at Max pressure.

Adjustment Option

F- Fixed
P- Pressure Adjustment