

# Directional Control Valves

## CP710-1

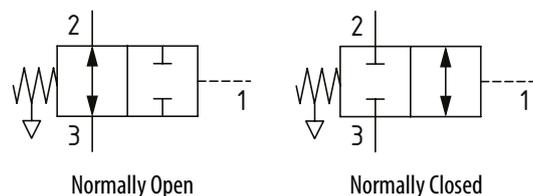
Directional Control Valve, 2-Way, Spool Type, Hydraulic Pilot, Atmospheric Vent

210 bar [3000 psi] • 40 l/min [11 US gpm]

### DESCRIPTION AND OPERATION

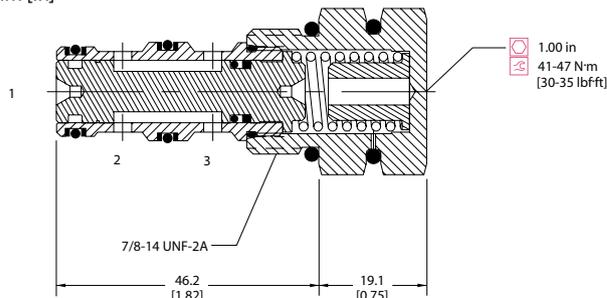
This is a 2-way, spool type, hydraulically piloted directional control valve with an atmospheric vent. It is available in normally open or normally closed configurations between ports 2 and 3, which shift when the pilot pressure at port 1 overcomes the opposing spring. Due to the atmospheric vent, the pilot pressure required to shift the valve is independent of the pressure in the line between port 2 and port 3.

### SCHEMATIC



### DIMENSIONS

mm [in]

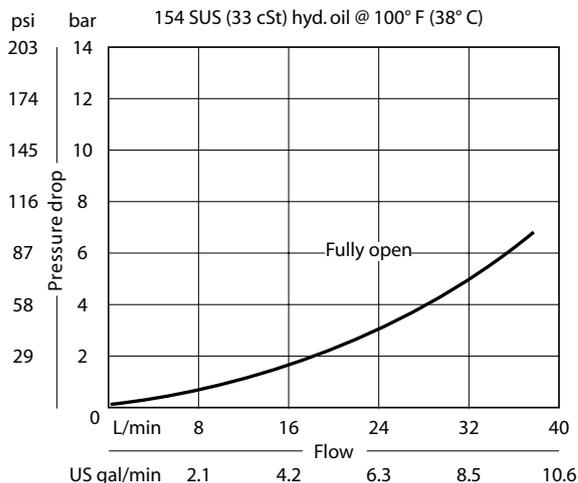


### PERFORMANCE DATA

Rated pressure	210 bar [3000 psi]
Rated flow @ 7 bar [100 psi]	40 l/min [11 US gpm]
Weight	0.13 kg [0.29 lb]
Cavity	SDC10-3

### PERFORMANCE CURVES

#### Pressure drop



### MODEL CODE

**CP710 - 1 - B - 8S - C - 150 - S1**

#### Seal Option

Code	Seal kit
B-Buna-N	120009
V-Viton	120010

#### Housing

Code	Ports & Material	Housing Model Code
0	No Housing	
SE3B	AL, 3/8 BSP	SDC10-3-SE-3B
SE4B	AL, 1/2 BSP	SDC10-3-SE-4B
6S	AL, #6 SAE	CP10-3-6S
8S	AL, #8 SAE	CP10-3-8S

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

#### Spool Seal Option

S1-Seal at top of spool  
S2-Seal at top and bottom of spool

#### Shift Pressure

Code	Bar	[Psi]
050	3.5	[50]
080	5.5	[80]
150	10.3	[150]

#### Spool Configuration

0-Normally open  
C-Normally closed