Directional Control Valves

CP712-11

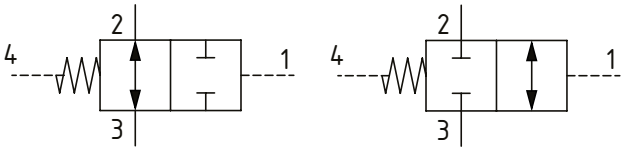
Directional Control Valve, 2-Way, Spool Type, Hydraulic Pilot, External Drain

450 bar [6500 psi] • 130 l/min [34 US gpm]

DESCRIPTION AND OPERATION

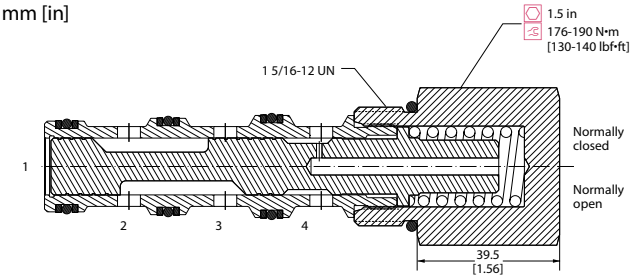
This is a 2-way, spool type, hydraulically piloted directional control valve with external drain. It is available in normally open or normally closed configurations between ports 2 and 3 that shift when pilot pressure is applied to port 1. Due to the external drain, the pilot pressure required shift the valve is dependent on the pressure in port 4, which would normally be connected to tank. Due to the high pressure rating, this valve is ideal for use in transmission circuits to by-pass flow dividers.

SCHEMATIC



DIMENSIONS

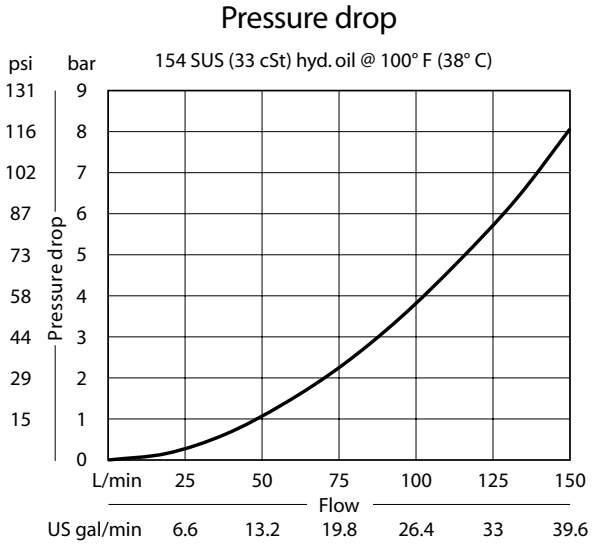
mm [in]



PERFORMANCE DATA

Rated pressure	**450 bar [6500 psi]**
Rated flow @ 7 bar [100 psi]	**130 l/min [34 US gpm]**
Leakage	328 ml/min [20 in³/min] @ 210 bar [3000 psi]
Weight	0.61 kg [1.34 lb]
Cavity	SDC16-4

PERFORMANCE CURVES



MODEL CODE

CP712 - 11 - U - 0 - C - 040

Seal Option

Code	Seal kit
U-Urethane	120677

Housing

Code	Ports & Material	Housing Model Code
0	No Housing	
6B	AL, 3/4 BSP	CP16-4-6B
8B	AL, 1 BSP	CP16-4-8B
12S	AL, #12 SAE	CP16-4-12S
16S	AL, #16 SAE	CP16-4-16S
S16S	Steel, #16SAE	CP16-4-S16S

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

Shift Pressure

Code	Bar	[Psi]
040	2.8	[40]
080	5.5	[80]

Spool Configuration

O-Normally Open
C-Normally Closed