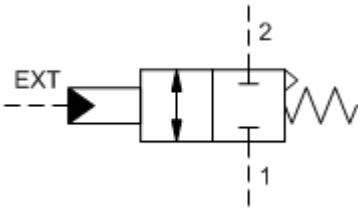
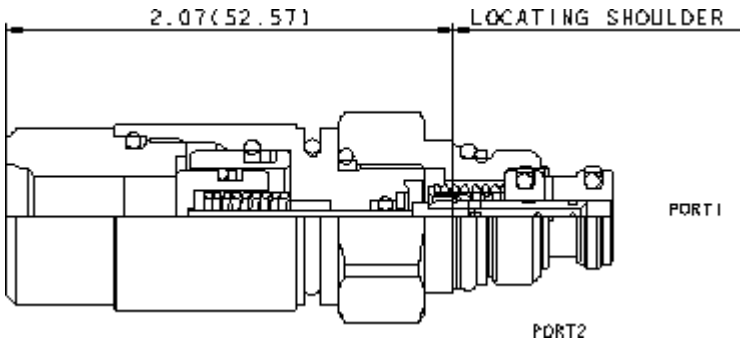
2-way, hydraulically operated, spool directional valve - pilot capacity

CAPACITY: .25 gpm / CAVITY: T-8A



C-Spool



CONFIGURATION

B	Control	External 4-SAE Port
C	Spool Configuration	Normally Closed
N	Seal Material	Buna-N
	Material/Coating	

These pilot-stage, directional, 2-position, 2-way valves are hydraulically operated, spring-return cartridges and are available in either a normally open or normally closed configuration. These cartridges are designed for pilot flow applications and utilize Sun's T-8A cavity so they can be used in conjunction with Sun's pilot-operated, main-stage valves.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-8A
Series	P
Capacity	.25 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.
Minimum Pilot Pressure to Operate	See Technical Features
Pilot Control Port	See Control Options
Valve Hex Size	7/8 in.
Valve Installation Torque	20 - 25 lbf ft
Seal kit - Cartridge	Buna: 990-508-007
Seal kit - Cartridge	Viton: 990-508-006

OPTION SELECTION EXAMPLE: DAAHBCN

CONTROL	(B)
B	External 4-SAE Port
A	External 1/8 NPTF Port
D	External 1/8 BSPP Port

SPOOL CONFIGURATION	(C)
C	Normally Closed
H	Normally Open

SEAL MATERIAL	(N)
N	Buna-N
V	Viton

MATERIAL/COATING	
	Standard Material/Coating
/AP	Stainless Steel, Passivated

TECHNICAL FEATURES

- Utilizes the Sun T-8A 2-port cavity making it the ideal choice to use in conjunction with Sun's main stage pilot or vent-to-operate cartridges. Separate pilot lines are eliminated and only one cavity needs to be machined to accommodate both the control and primary function. Note: All 2-position, 2-way pilot stage control cartridges utilize the same cavity and are physically interchangeable. Functionality is the only consideration.
- Note: The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.
- The preferred flow path through the valve is port 2 to port 1.
- Different pilot control port options are available. See Option Selection for details.
- All ports will accept 5000 psi (350 bar) including the pilot control port.
- Hardened spool and sleeve provide consistent operation, low spool leakage rates and superior wear characteristics.
- The minimum pilot pressure required to operate the valve is determined by the following formula: pilot pressure = 85 psi + pressure @ Port 1 times .023. This results in a pilot pressure range of 85 to 200 psi. In metric; pilot pressure = 6 bar + pressure @ Port 1 times 0,023. This results in a pilot pressure of 6 to 14 bar.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES