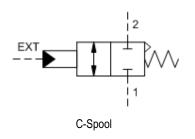




2-way, hydraulically operated, spool directional valve - pilot capacity

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





# sunhydraulics.com/model/DAAi 2.07(52.57) LOCATING SHOULDER PORT1

### CONFIGURATION

В	Control	External 4-SAE Port
С	Spool Configuration	Normally Closed
N	Seal Material	Buna-N
(none) Material/Coating		Standard 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	Р
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: 990508007
Seal kit - Cartridge	Viton: 990508006
Model Weight	0.31 lb.

# **CONFIGURATION OPTIONS**

### Model Code Example: DAAHBCN

CONTROL (B) SPOOL CONFIGURATION (C) SEAL MATERIAL (N) MATERIAL/COATING

B External 4-SAE Port C Normally Closed N Buna-N Standard Material/Coating

B External 4-SAE Port C Normally Closed N Buna-N
A External 1/8 NPTF Port H Normally Open V Viton

V Viton

/AP Stainless Steel, Passivated

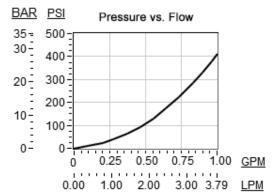
D External 1/8 BSPP Port

## **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.

© 2019 Sun Hydraulics 1 of 2

# **PERFORMANCE CURVES**



© 2019 Sun Hydraulics 2 of 2