



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

Capacity:
.25 gpm (1 L/min.)

Functional Group:

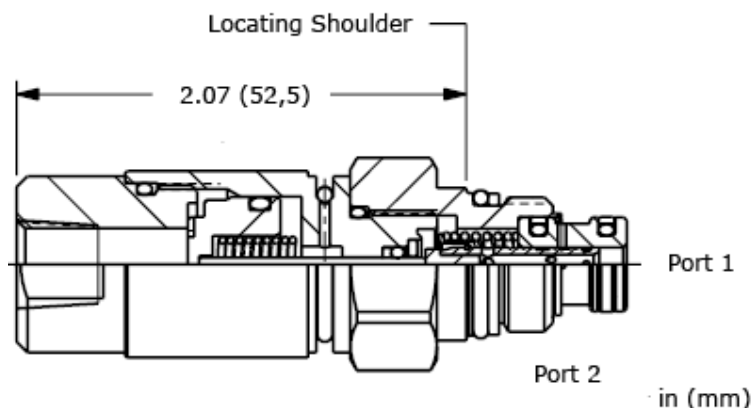
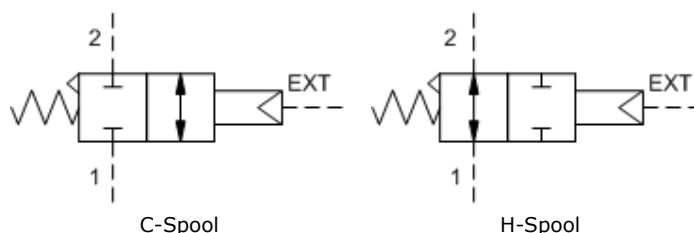
Products : Cartridges : Pilot Control - Directional : 2 way : Spool, Air Operated

Model:

DAAP

Product Description

These pilot-stage, directional, 2-position, 2-way valves are pneumatically operated, spring-return cartridges and are available in either normally open or normally closed configurations. 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.

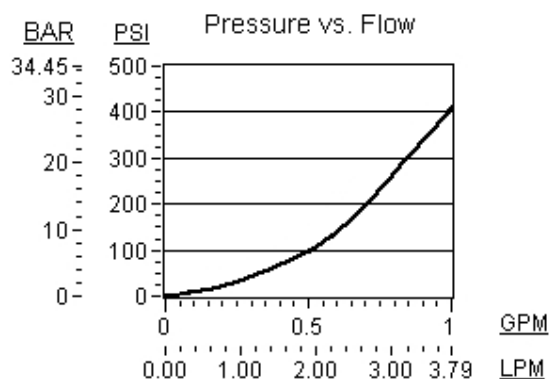


Technical Features

- 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.
- 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 = 20 psi + pressure @ Port 1 divided by 100. This results in a pilot pressure range of 20 to 70 psi. In metric; pilot pressure = 1,4 bar + pressure @ Port 1 divided by 100. This results in a pilot pressure of 1,4 to 5 bar.
- All ports will accept 5000 psi (350 bar) with the exception of the pilot port which accepts 500 psi (35 bar) max.
- 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.

Technical Data

	U.S. Units	Metric Units
Cavity	T-8A	
Capacity	.25 gpm	1 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.@5000 psi	0,7 cc/min.@350 bar
Minimum Pilot Pressure to Operate	See Technical Features	
Pilot Control Port	See Control Options	
Series (from Cavity)	Series P	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	20 - 25 lbf ft	27 - 33 Nm
Seal Kits - Cartridge	Buna: 990-508-007	
Seal Kits - Cartridge	Viton: 990-508-006	
Model Weight	0.31 lb.	0.14 kg.

**DAAP-FCN****Control****Standard Options**

- E** External 4-SAE Port
- F** External 1/8 NPTF Port
- P** External 1/8 BSPP Port

Spool Configuration**Standard Options**

- C** Normally Closed
- H** Normally Open

Seal Material**Standard Options**

- N** Buna-N
- V** Viton

Stainless options not available for this model