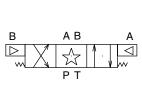
General Description

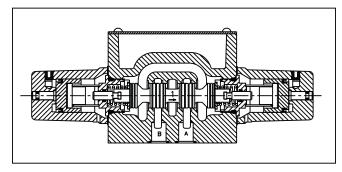
Series D3A directional control valves are high performance, 4-chamber, direct operated, air pilot controlled, 4-way valves. They are available in 2 or 3-position and conform to NFPA's D05/CETOP 5 mounting patterns.

Features

- Low pilot pressure required 4.1 Bar (60 PSI) minimum.
- High flow, low pressure drop design.







Response Time* (ms)

Signal to 95% spool stroke measured at 172 Bar (2500 PSI) and 75 LPM (20 GPM)

Pilot Pressure	Pull-In	Drop-Out	
60 PSI	23.0 ms	23.0 ms	
100 PSI	19.0 ms	38.0 ms	

Chart is for reference only. Response time will vary with pilot line size, length, air pressure and air valve flow capacity (Cv).

Specifications

Mounting Pattern	NFPA D05, CETOP 5, NG 10		
Maximum	Operating: 345 Bar (5000 PSI)		
Pressure	Tank Line: 34 Bar (500 PSI)		
Maximum Flow	See Spool Reference Chart		
Pilot Pressure	Air Minimum 4.1 Bar (60 PSI)		
	Air Maximum 6.9 Bar (100 PSI)		

Air Operated

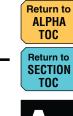
Shift Volume. The air pilot chamber requires a volume of $1.8 \text{ cc} (.106 \text{ in.}^3)$ for complete shift from center to end.

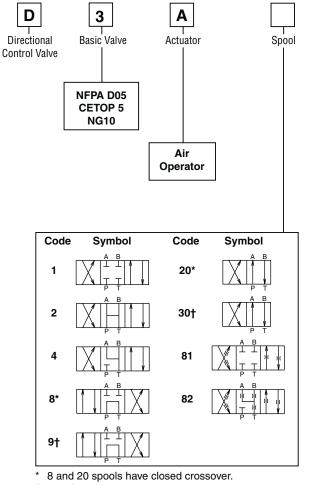
Pilot Piston. The pilot piston area is 506 mm² (.785 in.²). Pilot piston stroke is 3.4 mm (.135 in.).

D3.indd, dd



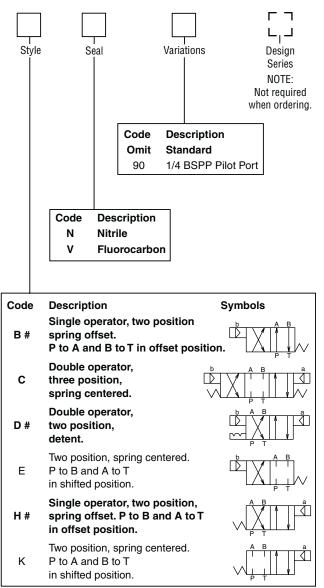






† 9 and 30 are open crossover.

Valve schematic symbols are per NFPA/ANSI standards, providing flow P to A when energizing operator A. Note operators reverse sides for #8 and #9 spools. See installation information for details.



B, D & H styles available with 20 and 30 spools only.

- Indicates air pilot.
 - This condition varies with spool code.

Mounting Bolt Kits

UNC Bolt Kits for use with D3A Directional Control Valves & Sandwich Valves							
		Number of Sandwich Valves @ 2.00" (50mm) thickness					
		0	1	2	3		
D3A	Standard:	BK98 1.62"	BK141 3.50"	BK142 5.50"	BK143 7.50"		
	Metric:	BKM98 40mm	BKM141 90mm	BKM142 140mm	BKM143 190mm		

NOTE: All bolts are SAE grade 8, 1/4-20 UNC-2A thread, torque to 16 Nm (12 ft-lbs).

Bold: Designates Tier I products and options.

Non-Bold: Designates Tier II products and options. These products will have longer lead times.

D3.indd, dd



4.1 kg (9 lbs.)

SKD3A

SKD3AV

Valve Weight:

Fluorocarbon

Seal Kit:

Nitrile