



Pneumatic Directional Control Valves – AVS Air Pilot Valves



Single Pilot Valve



Double Pilot Valve

NITRA™ pneumatic AVS-5 series directional control air valves are body ported 5-port (4-way) spool valves. Available port sizes are 1/8", 1/4", 3/8" or 1/2" NPT with flow coefficients (Cv) from 0.67 to 2.79. Models are available with single pilot spring return or double pilot 2-position operation. In addition, double pilot models are available with 3-position center closed operation. The AVS series can be used in individual valve applications, or multiple valves can be field assembled on AM-5 series manifolds for simplifying piping connections (AVS-52 & AVS-53 series only). AM-5 series manifolds are available in 2, 4, 6 or 8 stations.

Features

- Body ported, 5-port (4-way) spool valves
- 1/8", 1/4", 3/8" or 1/2" NPT ports
- 2-position, single pilot normally closed, spring return; 2-position, double pilot; 3-position, double pilot center closed
- Single valve or multiple manifold mounted valve applications
- 2-year warranty



See www.AutomationDirect.com for a wide variety of fitting options

Diagram "A"



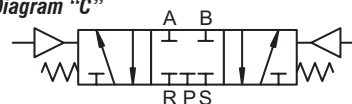
Single Pilot, Spring Return

Diagram "B"



Double Pilot, 2-Position

Diagram "C"



Double Pilot, 3-Position, Center Closed



AVS Series Air Pilot Valve Specifications				
Models	<u>AVS-526C1</u>	<u>AVS-526C2</u>	<u>AVS-5454</u>	<u>AVS-546C4</u>
Price				
Weight (lbs)	0.5	0.5	1.2	1.4
Valve Type	5-port 3-position closed center	5-port 3-position closed	5-port 2-position	5-port 3-position closed center
Acting	double air pilot	double air pilot	double air pilot	
Diagram	C	C	B	C
Port Size	1/8" NPT	Inlet port 1/4" NPT - Exhaust 1/8" NPT	1/2" NPT	
Pilot Port Size				
Flow Cv	0.67	0.67	2.79	1.68
Fluid	Air (to be filtered by 40 μ filter element)			
Min. / Max. Pressure	20 to 115 psi (Pilot must be at least 50% of inlet pressure)			
Max Activate Rate	3 cycles/sec	3 cycles/sec	3 cycles/sec	
Temperature	-5 to +60 °C (23 to 140 °F)			
Lubrication	Not Required			
Body	Aluminum Alloy			
Drawing Figure	3	3	8	9

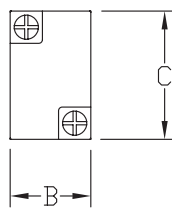
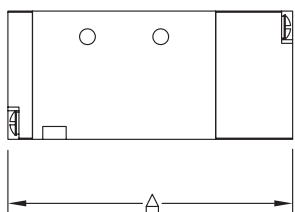
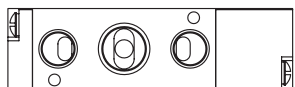


Pneumatic Directional Control – Manual Valve Dimensions

Dimensions

mm [inches]

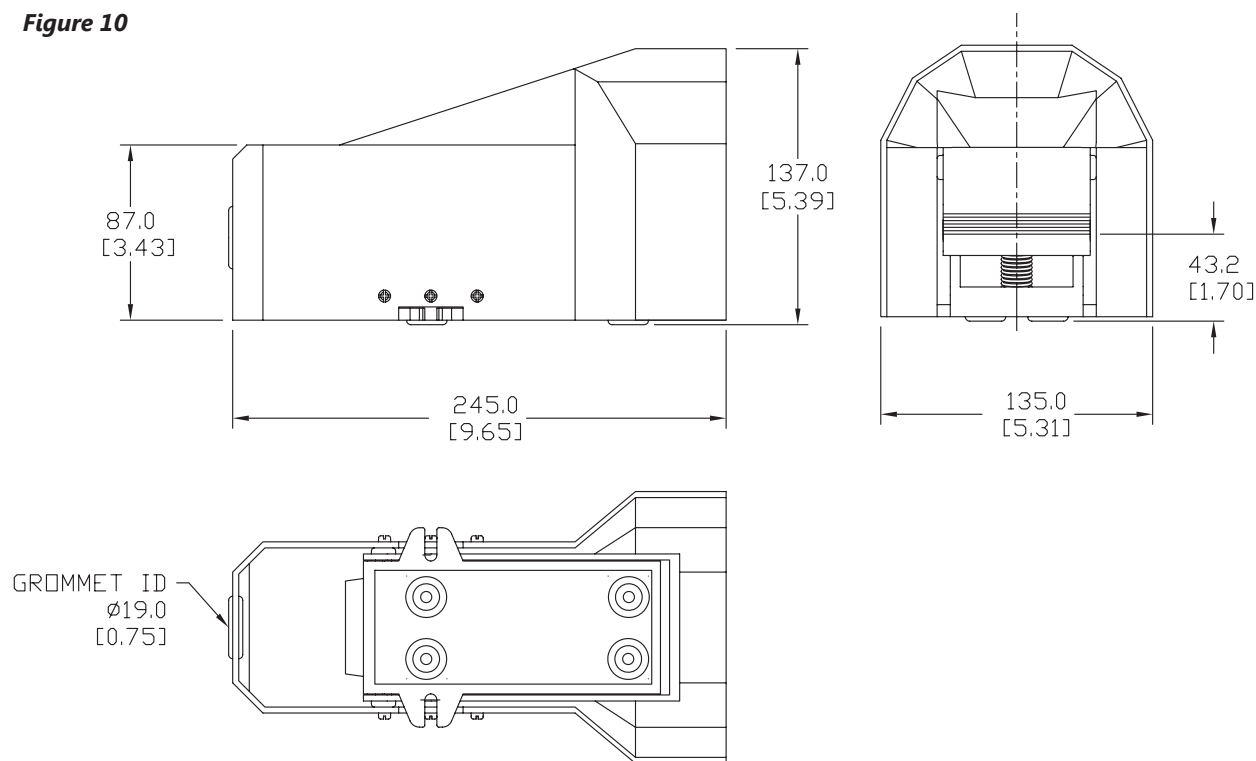
Figures 1-9



PILOT VALVE DIMENSIONS									
DWG FIGURE	1	2	3	4	5	6	7	8	9
DIM. A	77.7 [3.06]	92.0 [3.62]	111.0 [4.37]	95.5 [3.76]	111.0 [4.37]	130.0 [5.12]	128.0 [5.04]	142.0 [5.51]	163.0 [6.42]
DIM. B	22.0 [0.87]	22.0 [0.87]	22.0 [0.87]	27.0 [1.06]	27.0 [1.06]	27.0 [1.06]	34.0 [1.34]	34.0 [1.34]	34.0 [1.34]
DIM. C	35.0 [1.38]	35.0 [1.38]	35.0 [1.38]	40.0 [1.57]	40.0 [1.57]	40.0 [1.57]	50.0 [1.97]	50.0 [1.97]	50.0 [1.97]

See our website www.AutomationDirect.com for complete Engineering drawings

Figure 10



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