Pneumatic Directional Control Valves – **AVS Air Pilot Valves** NEUMATICS



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

applications 2 year warranty

- 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



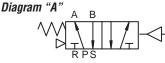
Diagram "C"

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RPS Double Pilot, 3-Position, Center Closed



FITTINGS



Single Pilot, Spring Return



Double Pilot, 2-Position

AVS Series Air Pilot Valve Specifications												
Models	AVS-5241	AVS-5251	AVS-526C1	AVS-5242	AVS-5252	AVS-526C2	AVS-5343	AVS-5353	AVS-536C3	AVS-5444	AVS-5454	AVS-546C4
Price	\$18.50	\$24.00	\$39.50	\$20.00	\$28.00	\$40.50	\$28.00	\$33.50	\$43.50	\$36.00	\$43.50	\$56.00
Weight (lbs)	0.3	0.4	0.5	0.3	0.4	0.5	0.5	0.6	0.7	1.1	1.2	1.4
Valve Type		5-port 2-position		5-port 2-position		5-port 3-position closed	5-p 2-pos		5-port 3-position closed	3-position 3-positi		5-port 3-position closed center
Acting	single air pilot	doubl	e air pilot	single air pilot double		e air pilot	single air pilot			single air pilot double air p		le air pilot
Diagram	А	В	С	A	В	С	A	В	С	А	В	С
Port Size	1/8" NPT Inlet port 1/4" NPT - Exhaust 1/8" NPT Inlet port 3/8" NPT - Exhaust 1/4" NPT 1/2" NPT											
Pilot Port Size	1/8 NPT											
Flow Cv	0.78		0.67	0.89		0.67	1.67		1.00	2.79		1.68
Fluid		Air (to be filtered by 40µ filter element)										
Min. / Max. Pressure	20-115Psi (Pilot must be at least 50% of inlet pressure)											
Max Activate Rate	5 cycles/sec 3 cycles/sec			5 cycles/sec		3 cycles/sec	5 cycles/sec		3 cycles/sec			
Temperature		-5~60°C (23~140°F)										
Lubrication	Not Required											
Body	Aluminum Alloy											
Drawing Figure	1	2	3	1	2	3	4	5	6	7	8	9

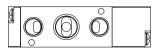


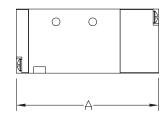
Pneumatic Directional Control – Manual Valve Dimensions

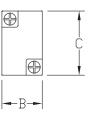
Dimensions

mm [inches]

Figures 1-9

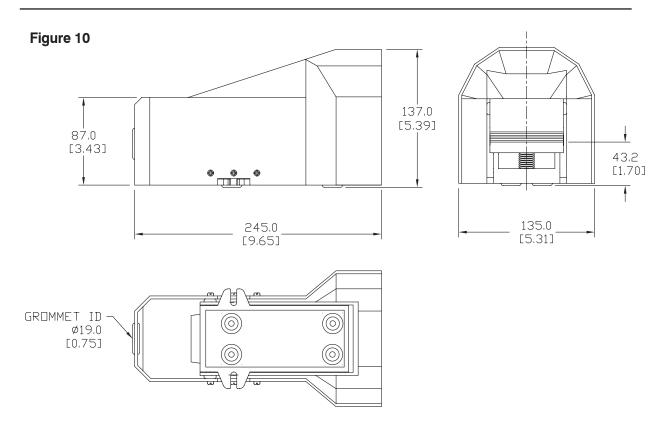






PILOT VALVE DIMENSIONS											
DWG FIGURE	1	2	3	4	5	6	7	8	9		
DIM. A	77.7 [3.06]	92.0 [3.62]	111.0 [4.37]	95.5 [3.76]	111.0 [4.37]	130.0 [5.12]	128.0 [5.04]	142.0 [5.51]	163.0 [6.42]		
DIM. B	22.0 [0.87]	22.0 [0.87]	22.0 [0.87]	27.0 [1.06]	27.0 [1.06]	27.0 [1.06]	34.0 [1.34]	34.0 [1.34]	34.0 [1.34]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

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