## Pneumatic Directional Control Valves -**AVS Air Pilot Valves** NEUMATICS



Single Pilot Valve



**Double Pilot Valve** 

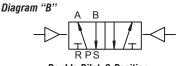
NITRA<sup>™</sup> pneumatic AVS-5 series directional control air valves are body ported 5-port (4-way) spool valves. Available port sizes are 1/8", 1/4", 3/8" or 1/2" NPT with flow coefficients (Cv) from 0.67 to 2.79. Models are available with single pilot spring return or double pilot 2-position operation. 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







Double Pilot, 2-Position

Diagram "C" A B Т RPS Double Pilot, 3-Position, Center Closed

AVS Series Air Pilot Valve Specifications												
Models	<u>AVS-5241</u>	<u>AVS-5251</u>	<u>AVS-526C1</u>	<u>AVS-5242</u>	<u>AVS-5252</u>	<u>AVS-526C2</u>	<u>AVS-5343</u>	<u>AVS-5353</u>	<u>AVS-536C3</u>	<u>AVS-5444</u>	<u>AVS-5454</u>	<u>AVS-546C4</u>
Price	\$28.50	\$37.00	\$59.00	\$29.50	\$41.50	\$60.00	\$42.00	\$51.00	\$66.00	\$46.00	\$66.00	\$74.00
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		oort sition	5-port 3-position closed center	5-p 2-po	oort sition	5-port 3-position closed	5-p 2-pos			5-port 2-position		5-port 3-position closed center
Acting	single air pilot	ir double air pilot single air pilot double air pilot single air pilot		double air pilot		single air pilot double		le air pilot				
Diagram	Α	В	С	А	В	С	А	В	С	А	В	С
Port Size		1/8" NPT	Г	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

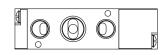


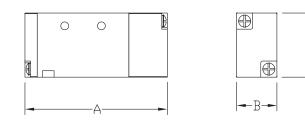
# Pneumatic Directional Control – Manual Valve Dimensions

### Dimensions

mm [inches]

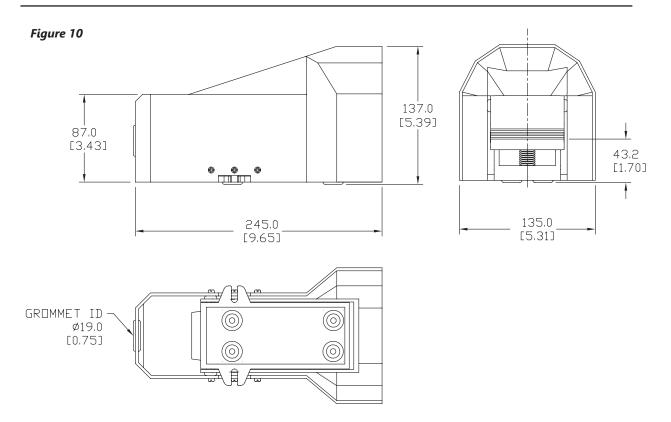
Figures 1-9





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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