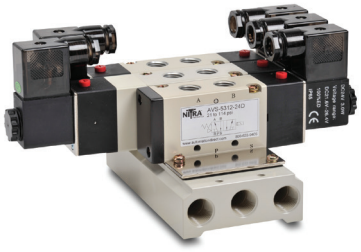
NITRA PNEUMATICS

Pneumatic Directional Control Solenoid Valves – AVS-5 Series



NITRA™ pneumatic AVS-5 series directional control solenoid 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 0.50 to 2.79. Models are available with single solenoid, spring return or double solenoid 2-position operation. In addition, double solenoid models are available with 3-position, center closed or center exhaust operation. Solenoid coils are available in either 24 VDC or 120 VAC control voltages. The AVS-5 series can be used in individual valve applications or multiple valves can be field assembled on AM-5 series manifolds simplifying piping connections. AM-5 series manifolds are available in 2, 4, 6 or 8 stations. The DIN style wiring connector includes LED indication of the solenoid coil status.



Stacked solenoids shown mounted on optional manifold

Features

- Body ported, 5-port (4-way) spool valves
- 1/8", 1/4", 3/8" or 1/2" NPT ports
- 2-position, single solenoid normally closed, spring return; 2-position, double solenoid, energize open/energize closed; 3-position, double solenoid center closed or center exhaust
- 24 VDC or 120 VAC solenoid coils
- DIN style wiring connector with LED indication
- Single valve or multiple manifold mounted valve applications
- Locking manual operator
- 2-year warranty





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



CE

AVS-5 Series Specifications

Model	AVS-513C1-24D	AVS-513C1-120A	AVS-5221-120A	AVS-5212-24D
Price				
Weight (lb)	0.5	0.5	0.8	0.5
Valve Type	5 port 3 position		5 port 2 position	
Acting	Internally Piloted			
Diagram	C		B	A
Port Size	In/Out/Exhaust=1/8"		In/Out/Exhaust=1/8"	In/Out=1/4", Exhaust=1/8"
Orifice Size	9 mm² (Cv=0.50)		14 mm² (Cv=0.78)	16 mm² (Cv=0.89)
Fluid	Air (to be filtered by 40µ filter element)			
Pressure	**Working:** 20~115 psi, (0.15~0.8 MPa), (1.5~8.0 bar); **Proof:** 215 psi, (1.48 MPa), (14.8 bar)			
Voltage (VAC @ 50/60 Hz)	24 VDC center closed double solenoid	120 VAC center closed double solenoid	120 VAC double solenoid	24 VDC single solenoid
Power Consumption	DC: 2.5 W | AC: 3.5 VA; continuous duty (100% ED)		DC: 3.0 W | AC: 4.5 VA; continuous duty (100% ED)	
Max Freqency	3 cycles/sec		5 cycles/sec	
Operating Life	50,000,000 cycles			
Insulation	B class			
Min Response	0.05 sec			
Temperature	-5 to +60 °C (23 to 140 °F)			
Lubrication	Not Required			
Protection	IP65 (DIN40050)			
Connection	9.4 mm DIN Terminal		11 mm DIN Terminal	
Body	Aluminum Alloy			
Agency Approvals	Solenoid CE marked; RoHS			

Pneumatic AVS Directional Control Solenoid Valves – AVS-5 Series



Diagram "A"



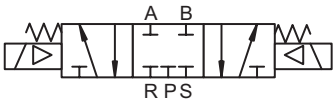
2-Pos, Spring Return

Diagram "B"



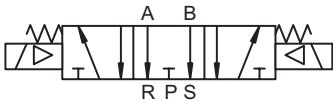
2-Pos, Double Solenoid

Diagram "C"



3-Pos, Closed Center

Diagram "D"



3-Pos, Exhaust Center

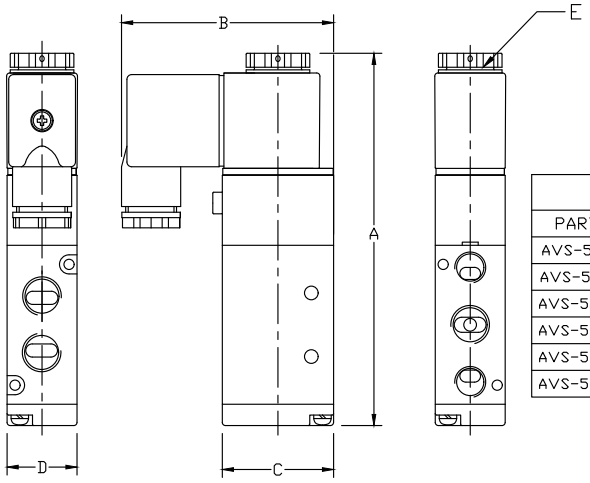
AVS-5 Series Specifications	
Model	***AVS-523C1-120A***
Price	
Weight (lb)	0.8
Valve Type	5 port 3 position
Acting	Internally Piloted
Diagram	C
Port Size	In/Out/Exhaust=1/8"
Orifice Size	12 mm² (Cv=0.67)
Fluid	Air (to be filtered by 40µ filter element)
Pressure	**Working:** 20~115 psi, (0.15~0.8 MPa), (1.5~8.0 bar); **Proof:** 215 psi, (1.48 MPa), (14.8 bar)
Voltage (VAC @ 50/60 Hz)	120 VAC center closed double solenoid
Power Consumption	DC: 3.0 W | AC: 4.5 VA; continuous duty (100% ED)
Max Frequency	3 cycles/sec
Operating Life	50,000,000 cycles
Insulation	B class
Min Response	0.05 sec
Temperature	-5 to +60 °C (23 to 140 °F)
Lubrication	Not Required
Protection	IP65 (DIN40050)
Connection	11 mm DIN Terminal
Body	Aluminum Alloy
Agency Approvals	Solenoid CE marked; RoHS

Pneumatic AVS Directional Control Solenoid Valves – AVS-5 Series

AVS-5 Series Specifications	
Model	***AVS-543E4-120A***
Price	
Weight (lb)	1.7
Valve Type	5 port 3 position
Acting	Internally Piloted
Diagram	D
Port Size	In/Out/Exhaust=1/2"
Orifice Size	30 mm² (Cv=1.68)
Fluid	Air (to be filtered by 40µ filter element)
Pressure	**Working:** 20~115 psi, (0.15~0.8 MPa), (1.5~8.0 bar); **Proof:** 215 psi, (1.48 MPa), (14.8 bar)
Voltage (VAC @ 50/60 Hz)	120 VAC center exhaust double solenoid
Power Consumption	DC: 3.0 W | AC: 4.5 VA; continuous duty (100% ED)
Max Frequency	3 cycles/sec
Operating Life	50,000,000 cycles
Insulation	B class
Min Response	0.05 sec
Temperature	-5 to +60 °C (23 to 140 °F)
Lubrication	Not Required
Protection	IP65 (DIN40050)
Connection	11 mm DIN Terminal
Body	Aluminum Alloy
Agency Approvals	Solenoid CE marked; RoHS

Dimensions

mm [inches]



DIMENSION TABLE					
PART NO.	A	B	C	D	E
AVS-5111-XXX	99.4 [3.91]	55.0 [2.17]	27.0 [1.06]	18.0 [0.71]	M7 - 0.5
AVS-5211-XXX	117.1 [4.61]	66.7 [2.63]	35.0 [1.38]	22.0 [0.87]	M8 - 0.75
AVS-5212-XXX	117.1 [4.61]	66.7 [2.63]	35.0 [1.38]	22.0 [0.87]	M8 - 0.75
AVS-5312-XXX	134.9 [5.31]	69.2 [2.72]	40.0 [1.57]	27.0 [1.06]	M8 - 0.75
AVS-5313-XXX	134.9 [5.31]	69.2 [2.72]	40.0 [1.57]	27.0 [1.06]	M8 - 0.75
AVS-5414-XXX	168.4 [6.63]	74.0 [2.91]	50.0 [1.97]	34.0 [1.34]	M8 - 0.75

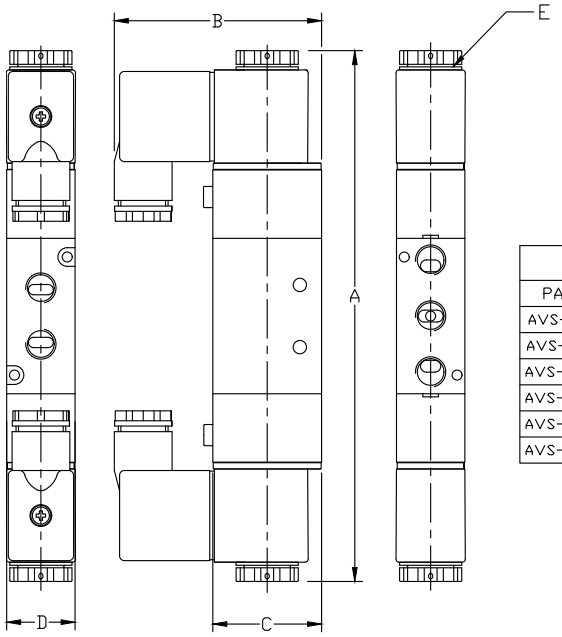
See our website www.AutomationDirect.com for complete Engineering drawings.

Pneumatic Directional Control Solenoid Valves – AVS-5 Series

Dimensions

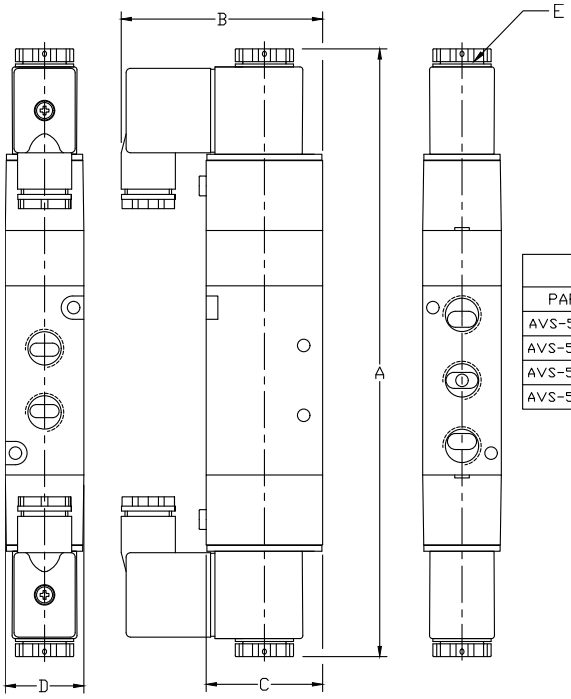
mm [inches]

AVS-5121,
AVS-5221,
AVS-5222,
AVS-5322,
AVS-5323,
AVS-5424



DIMENSION TABLE					
PART NO.	A	B	C	D	E
AVS-5121-XXX	142.4 [5.61]	54.8 [2.16]	27.0 [1.06]	18.0 [0.71]	M7 - 0.5
AVS-5221-XXX	170.8 [6.72]	66.7 [2.63]	35.0 [1.38]	22.0 [0.87]	M8 - 0.75
AVS-5222-XXX	170.8 [6.72]	66.7 [2.63]	35.0 [1.38]	22.0 [0.87]	M8 - 0.75
AVS-5322-XXX	189.8 [7.47]	69.2 [2.72]	40.0 [1.57]	27.0 [1.06]	M8 - 0.75
AVS-5323-XXX	189.8 [7.47]	69.2 [2.72]	40.0 [1.57]	27.0 [1.06]	M8 - 0.75
AVS-5424-XXX	222.8 [8.77]	74.0 [2.91]	50.0 [1.97]	34.0 [1.34]	M8 - 0.75

AVS-513xx,
AVS-523xx,
AVS-533xx,
AVS-543xx



DIMENSION TABLE					
PART NO.	A	B	C	D	E
AVS-513XX-XXX	157.4 [6.20]	54.8 [2.16]	26.6 [1.05]	18.0 [0.71]	M7 - 0.5
AVS-523XX-XXX	189.8 [7.47]	66.7 [2.63]	35.0 [1.38]	22.0 [0.87]	M8 - 0.75
AVS-533XX-XXX	208.8 [8.22]	69.2 [2.72]	40.0 [1.57]	27.0 [1.06]	M8 - 0.75
AVS-543XX-XXX	243.8 [9.60]	74.0 [2.91]	50.0 [1.97]	34.0 [1.34]	M8 - 0.75

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

NITRA PNEUMATICS

Exhaust Silencers

NITRA™ exhaust silencers are available in three styles and nine popular NPT and BSPT sizes. Add these to the exhaust ports of pneumatic directional control valves to reduce noise.

Features

- Inch and metric sizes available
- Bronze cone and flat styles
- Plastic cylindrical
- Maximum pressure = 150 psi (10 bar)



SBC Series

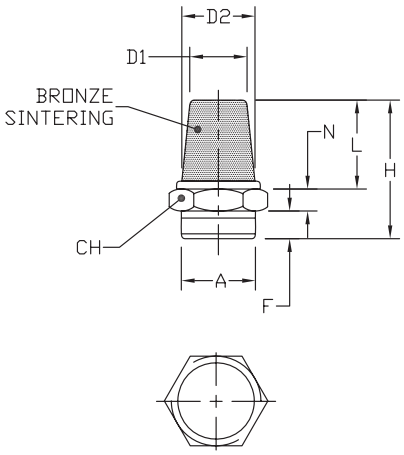


SBF Series



SPL Series

SBC Silencers



NITRA™ Bronze Cone Silencers

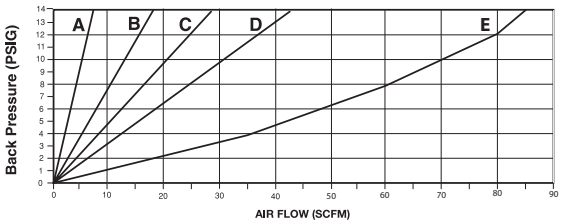
Inch Sizes - dimensions in inches [mm]

Part No.	Price	A	CH	D1	D2	F	H	L	N	Package Weight (lb)	Qty. per pack
SBC-18N		MNPT 1/8	0.47 [12.0]	0.32 [8.0]	0.28 [7.0]	0.24 [6.0]	0.94 [24.0]	0.55 [14.0]	0.16 [4.0]	0.01	2
SBC-14N		MNPT 1/4	0.63 [16.0]	0.47 [12.0]	0.40 [10.0]	0.32 [8.0]	1.18 [30.0]	0.71 [18.0]	0.16 [4.0]	0.01	
SBC-38N		MNPT 3/8	0.71 [18.0]	0.55 [14.0]	0.39 [11.0]	0.35 [9.0]	1.38 [35.0]	0.83 [21.0]	0.197 [5.0]	0.05	
SBC-12N		MNPT 1/2	0.94 [24.0]	0.75 [19.0]	0.59 [15.0]	0.40 [10.0]	1.73 [44.0]	1.10 [28.0]	0.24 [6.0]	0.15	
Metric Sizes - dimensions in inches [mm]											
SBC-M5		M5	0.31 [8.0]	0.20 [5.0]	0.16 [4.0]	0.20 [5.0]	0.79 [20.0]	0.47 [12.0]	0.12 [3.0]	0.01	2
SBC-18R		R 1/8	0.47 [12.0]	0.32 [8.0]	0.28 [7.0]	0.24 [6.0]	0.94 [24.0]	0.55 [14.0]	0.16 [4.0]	0.01	
SBC-14R		R 1/4	0.63 [16.0]	0.47 [12.0]	0.40 [10.0]	0.32 [8.0]	1.18 [30.0]	0.71 [18.0]	0.16 [4.0]	0.01	
SBC-38R		R 3/8	0.71 [18.0]	0.55 [14.0]	0.39 [11.0]	0.35 [9.0]	1.38 [35.0]	0.83 [21.0]	0.197 [5.0]	0.05	
SBC-12R		R 1/2	0.94 [24.0]	0.75 [19.0]	0.59 [15.0]	0.40 [10.0]	1.73 [44.0]	1.10 [28.0]	0.24 [6.0]	0.15	

Flow Characteristics

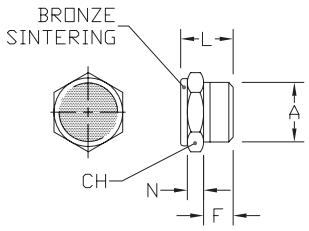
Bronze Cone Silencers

A: SBC-M5
B: SBC-18N; SBC-18R
C: SBC-14N; SBC-14R
D: SBC-38N; SBC-38R
E: SBC-12N; SBC-12R



Noise Elimilation = > 20db
Filtered Element = 40 micron

SBF Silencers



NITRA™ Bronze Flat Silencers

Inch Sizes - dimensions in inches [mm]

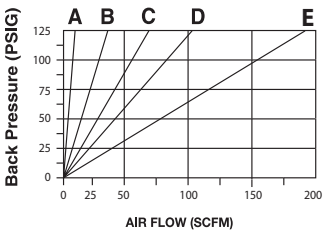
Part No.	Price	A	CH	F	L	N	Package Weight (lb)	Qty. per pack
SBF-18N		MNPT 1/8	0.47 [12.0]	0.24 [6.0]	0.47 [12.0]	0.16 [4.0]	0.01	2
SBF-14N		MNPT 1/4	0.67 [17.0]	0.32 [8.0]	0.59 [15.0]	0.16 [4.0]	0.01	
SBF-38N		MNPT 3/8	0.75 [19.0]	0.35 [9.0]	0.67 [17.0]	0.20 [5.0]	0.05	
SBF-12N		MNPT 1/2	0.94 [24.0]	0.40 [10.0]	0.71 [18.0]	0.24 [6.0]	0.15	
Metric Sizes - dimensions in inches [mm]								
SBF-M5		M5	0.31 [8.0]	0.20 [5.0]	0.35 [9.0]	0.12 [3.0]	0.01	2
SBF-18R		R 1/8	0.47 [12.0]	0.24 [6.0]	0.47 [12.0]	0.16 [4.0]	0.01	
SBF-14R		R 1/4	0.67 [17.0]	0.32 [8.0]	0.59 [15.0]	0.16 [4.0]	0.01	
SBF-38R		R 3/8	0.75 [19.0]	0.35 [9.0]	0.67 [17.0]	0.20 [5.0]	0.05	
SBF-12R		R 1/2	0.94 [24.0]	0.40 [10.0]	0.71 [18.0]	0.24 [6.0]	0.15	

Exhaust Silencers

Flow Characteristics

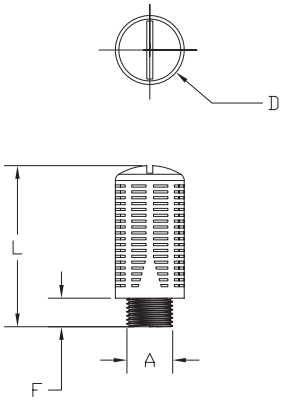
Bronze Flat Silencers

A: SBF-M5
B: SBF-18N; SBF-18R
C: SBF-14N; SBF-14R
D: SBF-28N; SBF-38R
E: SBF-12N; SBF-12R



Noise Elimilation = > 30db
Filtered Element = 40 micron

SPL Silencers



Note: SPL series plastic exhaust silencers have a maximum pressure of 80 PSI (5.5 bar).

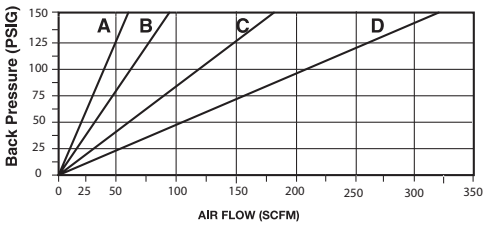
NITRA™ Plastic Exhaust Silencers

Part No.	Price	A	D	L	F	Package Weight (lbs)	Qty. per pack
Inch Sizes - dimensions in inches [mm]							
SPL-18N		MNPT 1/8	0.55 [13.8]	1.28 [32.4]	0.33 [8.3]	0.02	2
SPL-14N		MNPT 1/4	0.68 [17.3]	1.68 [42.5]	0.39 [9.9]	0.03	
SPL-38N		MNPT 3/8	0.87 [22.0]	2.10 [53.4]	0.40 [10.0]	0.06	
SPL-12N		MNPT 1/2	1.00 [25.4]	2.66 [67.6]	0.44 [11.1]	0.08	
Metric Sizes - dimensions in inches [mm]							
SPL-18R		R 1/8	0.60 [15.2]	1.33 [33.7]	0.24 [6.1]	0.02	2
SPL-14R		R 1/4	0.60 [18.8]	1.60 [40.6]	0.31 [7.7]	0.03	
SPL-38R		R 3/8	0.94 [24.0]	2.20 [55.9]	0.39 [9.9]	0.06	
SPL-12R		R 1/2	0.94 [24.0]	2.20 [55.9]	0.39 [9.9]	0.08	

Flow Characteristics

Plastic Silencers

A: SPL-18N; SPL-18R
B: SPL-14N; SPL-14R
C: SPL-38N; SPL-38R
D: SPL-12N; SPL-12R



Noise Elimilation = > 30db
Filtered Element = 40 micron

Pneumatic A-Series Direction Control Solenoid Valves - Accessories



AVC1



AVC2



AVP-31BKT

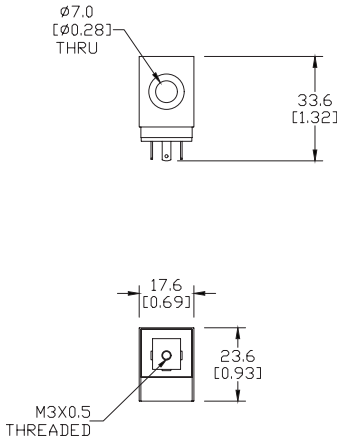


AVP-31KIT

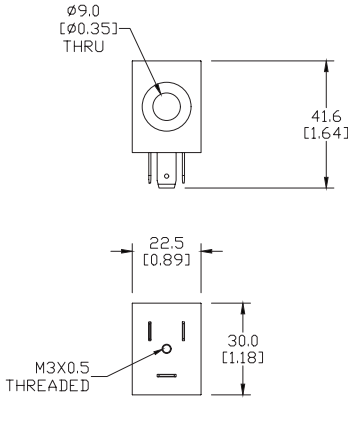
Pneumatic A-Series Directional Control Solenoid Valve Series Accessories			
Part No.	**Price**	**Description**	**Weight (lb)**
AVC1-24D		NITRA solenoid coil, 24 VDC, 2.5 W. For use with AVS-31 and AVS-51 series valves.	0.1
AVC1-24A		NITRA solenoid coil, 24 VAC, 4.0 VA. For use with AVS-31 and AVS-51 series valves.	0.1
AVC1-120A		NITRA solenoid coil, 120 VAC, 3.5 VA. For use with AVS-31 and AVS-51 series valves.	0.1
AVC2-120A		NITRA solenoid coil, 120 VAC, 4.5VA. For use with AVP-31, AVS-32, AVS-33, AVS-52, AVS-53, AVS-54 series valves and ASD series soft starters.	0.2
AVP-31BKT		NITRA individual mounting bracket, plated steel. For use with AVP-31 directional control valves.	0.1
AVP-31KIT		NITRA stacking screws, for use with AVP-31 directional control valves. One kit is required for each additional AVP-31 valve added to the stack.	0.1

Dimensions

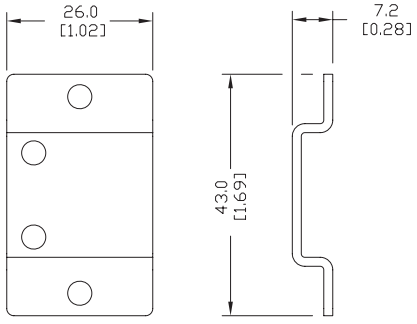
mm [inches]



AVC1 Series Coils



AVC2 Series Coils



AVP-31BKT

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

Pneumatic Directional Control Solenoid Valve Manifolds and Accessories



AM-3 Series Manifolds



AM-31BP

Pneumatic Directional Control Solenoid Valve Series Accessories			
Part No.	*Price*	*Description*	*Weight (lb)*
AM-312		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-31 series.	0.2
AM-316		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-31 series.	0.4
AM-318		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-31 series.	0.5
AM-31BP		NITRA blanking plate, plated steel. For use with AM-31 series manifolds.	0.1
AM-322		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-32 series.	0.2
AM-324		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-32 series.	0.4
AM-326		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-32 series.	0.5
AM-328		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4 in FNPT inlet port(s), (2) 1/4 in FNPT exhaust port(s). For use with AVS-32 series.	0.7
AM-32BP		NITRA blanking plate, plated steel. For use with AM-32 series manifolds.	0.1
AM-332		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 3/8 in FNPT inlet port(s), (2) 3/8 in FNPT exhaust port(s). For use with AVS-33 series.	0.4
AM-334		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8 in FNPT inlet port(s), (2) 3/8 in FNPT exhaust port(s). For use with AVS-33 series.	0.6
AM-338		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8 in FNPT inlet port(s), (2) 3/8 in FNPT exhaust port(s). For use with AVS-33 series.	1.1
AM-33BP		NITRA blanking plate, plated steel. For use with AM-33 series manifolds.	0.1
AM-516		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4 in FNPT inlet port(s), (4) 1/4 in FNPT exhaust port(s). For use with AVS-51 series.	0.8
AM-518		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4 in FNPT inlet port(s), (4) 1/4 in FNPT exhaust port(s). For use with AVS-51 series.	1.1
AM-51BP		NITRA blanking plate, plated steel. For use with AM-51 series manifolds.	0.1
AM-522		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4 in FNPT inlet port(s), (4) 1/4 in FNPT exhaust port(s). For use with AVS-52 series.	0.5
AM-526		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4 in FNPT inlet port(s), (4) 1/4 in FNPT exhaust port(s). For use with AVS-52 series.	1.2

Pneumatic Directional Control Solenoid Valve Manifolds and Accessories



AM-5 Series Manifolds



AM-31GS

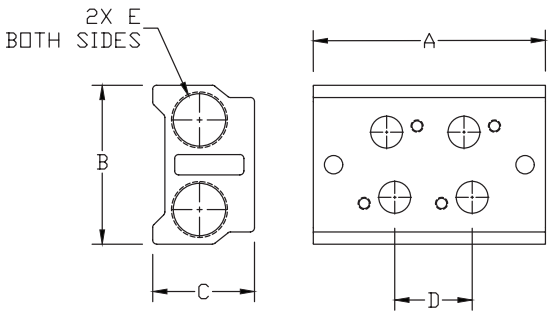
Pneumatic Directional Control Solenoid Valve Series Accessories Continued			
Part No.	***Price***	***Description***	***Weight (lb)***
AM-534		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8 in FNPT inlet port(s), (4) 3/8 in FNPT exhaust port(s). For use with AVS-53 series.	1.4
AM-538		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8 in FNPT inlet port(s), (4) 3/8 in FNPT exhaust port(s). For use with AVS-53 series.	2.5
AM-53BP		NITRA blanking plate, plated steel. For use with AM-53 series manifolds.	0.1
AM-542		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/2 in FNPT inlet port(s), (4) 1/2 in FNPT exhaust port(s). For use with AVS-54 series.	1.7
AM-544		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/2 in FNPT inlet port(s), (4) 1/2 in FNPT exhaust port(s). For use with AVS-54 series.	2.8
AM-546		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/2 in FNPT inlet port(s), (4) 1/2 in FNPT exhaust port(s). For use with AVS-54 series.	4.0
AM-548		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/2 in FNPT inlet port(s), (4) 1/2 in FNPT exhaust port(s). For use with AVS-54 series.	5.2
AM-54BP		NITRA blanking plate, plated steel. For use with AM-54 series manifolds.	0.1
AM-31GS		NITRA manifold mounting set, for use with AM-31 series manifolds.	0.1
AM-32GS		NITRA manifold mounting set, for use with AM-32 series manifolds.	0.1
AM-33GS		NITRA manifold mounting set, for use with AM-33 series manifolds.	0.1
AM-51GS		NITRA manifold mounting set, for use with AM-51 series manifolds.	0.1
AM-52GS		NITRA manifold mounting set, for use with AM-52 series manifolds.	0.1
AM-53GS		NITRA manifold mounting set, for use with AM-53 series manifolds.	0.1
AM-54GS		NITRA manifold mounting set, for use with AM-54 series manifolds.	0.1

Pneumatic Directional Control Solenoid Valve Manifolds and Accessories

Dimensions

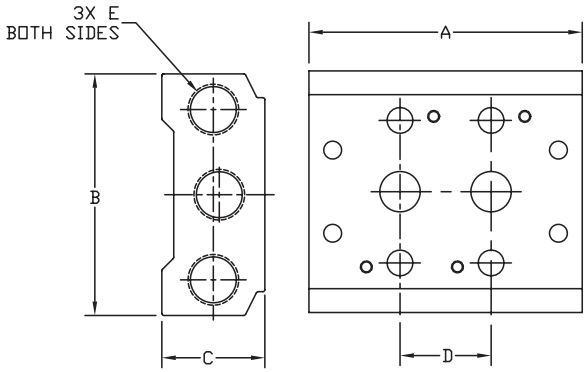
mm [inches]

AM 3x Series Manifolds



MANIFOLD DIMENSIONS					
PART NO.	A	B	C	D	E
AM-312	57.0 [2.24]	39.0 [1.54]	25.0 [0.98]	19.0 [.075]	1/4 NPT
AM-314	95.0 [3.74]			3X 19.0 [.075]	
AM-316	133.0 [5.24]			5X 19.0 [.075]	
AM-318	171.0 [6.73]			7X 19.0 [.075]	
AM-322	69.0 [2.72]	45.0 [1.77]	25.0 [0.98]	23.0 [0.91]	
AM-324	115.0 [4.53]			3X 23.0 [0.91]	
AM-326	161.0 [6.34]			5X 23.0 [0.91]	
AM-328	207.0 [8.15]			7X 23.0 [0.91]	
AM-332	82.0 [3.23]	52.0 [2.05]	29.0 [1.14]	28.0 [1.10]	3/8 NPT
AM-334	138.0 [5.46]			3X 28.0 [1.10]	
AM-336	194.0 [7.64]			5X 28.0 [1.10]	
AM-338	250.0 [9.84]			7X 28.0 [1.10]	

AM 5x Series Manifolds



MANIFOLD DIMENSIONS					
PART NO.	A	B	C	D	E
AM-512	57.0 [2.24]	58.0 [2.28]	25.0 [0.98]	19.0 [.075]*	1/4 NPT
AM-514	95.0 [3.74]			3X 19.0 [.075]*	
AM-516	133.0 [5.24]			5X 19.0 [.075]*	
AM-518	171.0 [6.73]			7X 19.0 [.075]*	
AM-522	69.0 [2.72]	61.0 [2.40]	26.0 [1.02]	23.0 [0.91]	
AM-524	115.0 [4.53]			3X 23.0 [0.91]	
AM-526	161.0 [6.34]			5X 23.0 [0.91]	
AM-528	207.0 [8.15]			7X 23.0 [0.91]	
AM-532	82.0 [3.23]	75.0 [2.95]	30.0 [1.19]	28.0 [1.10]	3/8 NPT
AM-534	138.0 [5.46]			3X 28.0 [1.10]	
AM-536	194.0 [7.64]			5X 28.0 [1.10]	
AM-538	250.0 [9.84]			7X 28.0 [1.10]	
AM-542	98.0 [3.86]	104.0 [4.09]	38.0 [1.50]	35.0 [1.38]	1/2 NPT
AM-544	168.0 [6.61]			3X 35.0 [1.38]	
AM-546	238.0 [9.37]			5X 35.0 [1.38]	
AM-548	308.0 [12.13]			7X 35.0 [1.38]	

** Exhaust holes have 1mm offset from spacing centerline.*

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

Solenoid Valve Cables and Connectors



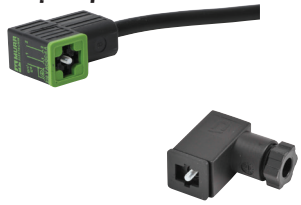
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24 V or 110 V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230 V AC/DC models are rated for straight wired products. All models are available in five sizes based on DIN 43650.

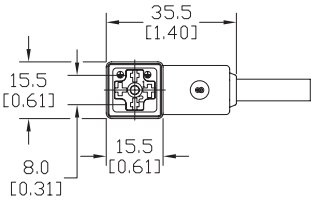
Features

- 8 mm, 9.4 mm, 10 mm, 11 mm and 18 mm square DIN styles
- Fits most popular solenoid valves and sensors
- Suppression and LED indication available in 24 V or 110 V AC/DC models
- PVC jacketed cables in 1, 3 or 5 meter lengths on select connectors
- Field wireable connectors on select models
- Polarity insensitive (follow solenoid, sensor, or other devices wiring diagram)

8mm Connectors

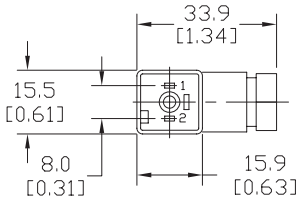
Dimensions shown mm [inches]





Height = 25mm [0.98in]

Connector with Cable



Height = 26mm [1.02]

Field Wireable Connector

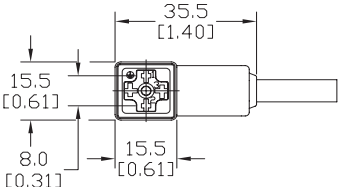
8mm (3-pole) Connectors (per DIN 43650 Form C)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia. (in.)*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/ Torque*	*Weight (lbs)*	*Agency Approval*
SC8-LS24-3		24 ±20%	max 4 A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2 W)	1	m2.5-0.45 x 25 mm / 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)
SC8-LS24-5											0.65	
SC8-LS110-3		110 ±10%						zener diode (D-Z DO-41 ZY200 2 W)	7		0.41	
SC8-LS110-5											0.63	
SC8-3		230	max 6 A				no	none	2	m2.5-0.45 x 25 mm / 0.5 Nm (4.4 in lb)	0.39	none
SC8-0				65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	field wireable gland size 0.20 to 0.24			9		0.10	
SC8-1				67	18 AWG	0.23			2		0.10	
SC8-5											0.68	

Last digit in part number denotes cable length in meters, a 0 indicates field termination.

8mm Transmitter Connector

Dimensions shown mm [inches]





Height = 25mm [0.98in]

Connector with Cable

8mm (4-pole) Connectors (per DIN 43650 Form C)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia. (in.)*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/ Torque*	*Weight (lbs)*	*Agency Approval*
SC8-5T		230	max 6 A	67	18 AWG	0.26	yes	none	8	m3-0.5 x 42 mm/ 0.5 Nm (4.4 in lb)	0.80	CSA (080128-0-000)

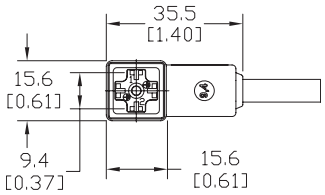
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]





Height = 25mm [0.98in]

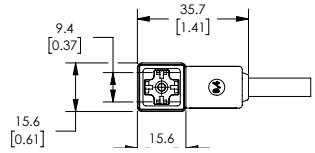
Connector with Cable

9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia. (in.)*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/ Torque*	*Weight (lbs)*	*Agency Approval*
SC9-LS24-3		24 ±20%	max 4 A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2 W)	1	m3-0.5 x 26 mm / 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)
SC9-LS24-5											0.64	
SC9-LS110-3		110 ±10%						zener diode (D-Z DO-41 ZY200 2 W)	7		0.40	
SC9-LS110-5											0.64	
SC9-3		230	max 6 A				no	none	2	m3-0.5 x 26 mm / 0.5 Nm (4.4 in lb)	0.40	none
SC9-5											0.64	

9.4mm Connectors

Dimensions shown mm [inches]





Height = 25mm [0.98in]

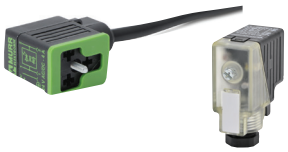
Connector with Cable

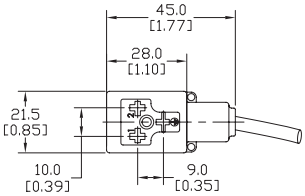
9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia.*	*Cable Length*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/ Torque*	*Weight (lbs)*	*Agency Approval*
7000-94141-6270300		230 VAC/ VDC	max 6 A	IP67	18 AWG	5.6–6.2 mm	9.8ft/3m	no	none	8	m3-0.5 x 26 mm / 0.4 Nm (3.5 in lb)	0.50	CSA (080128-0-000)/ RoHS
7000-94141-6270500							16.4ft/5m					0.79	

Solenoid Valve Cables and Connectors

10mm Connectors

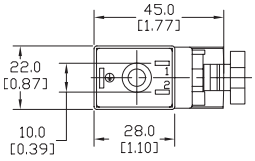
Dimensions shown
mm [inches]





Height = 30mm [1.18in]

Connector with Cable



Height = 41mm [1.61in]

Field Wireable Connector

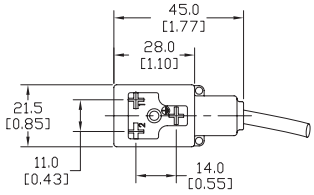
10mm (3-pole) Connectors (per DIN 43650 Form B)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia. (in.)*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/Torque*	*Weight (lbs)*	*Agency Approval*
SC10-LS24-3		24 ±20%	max 4 A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2 W)	10	m3-0.5 x 30 mm / 0.4 Nm (3.5 in lb)	0.43	CSA (080128-0-000)
SC10-LS24-5											0.68	
SC10-LS110-3		110 ±10%	max 4 A					zener diode (D-Z DO-41 ZY200 2 W)	6		0.43	
SC10-LS110-5											0.68	
SC10-3		230	max 10 A				no	none	3		0.43	
SC10-5											0.68	
SC10-LS24-0		24 ±20%	max 4 A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	field wireable gland size 0.24 to 0.32	yes	zener diode (D-Z DO-15 47V 2 W)	4	m3-0.5 x 42 mm / 0.5 Nm (4.4 in lb)	0.07	none
SC10-LS110-0		110 ±10%	max 1 A					mov (SIOV S10 K130)	5		0.07	

Last digit in part number denotes cable length in meters, a 0 indicates field termination.

11mm Connectors

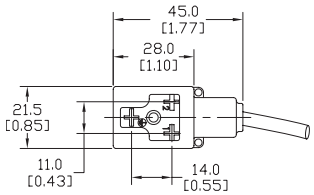
Dimensions shown
mm [inches]





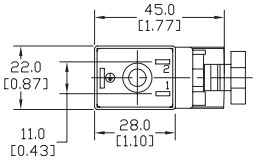
Height = 30mm [1.18in]

Connector with Cable



Height = 30mm [1.18in]

Reverse Connector with Cable



Height = 41mm [1.61in]

Field Wireable Connector

11mm (3-pole) Connectors (DIN Style, Form B Industrial)												
Part No.	*Price*	*Voltage (AC/DC)*	*Current Rating*	*IP Rating*	*Wire Size*	*Cable Dia. (in)*	*LED*	*Surge Protection*	*Wiring Figure*	*Screw Size/ Torque*	*Weight (lbs)*	*Agency Approval*
SC11-LS24-3		24 ±20%	max 4 A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2 W)	10	m3-0.5 x 30 mm / 0.4 Nm (3.5 in lb)	0.44	CSA (080128-0-000)
SC11-LS24-5											0.67	
SC11-LS110-3		110 ±10%	max 4 A					zener diode (D-Z DO-41 ZY200 2 W)	6		0.44	
SC11-LS110-5											0.67	
SC11-LS24-3R		24 ±20%	max 4 A					zener diode (D-Z DO-15 47V 2 W)	10		0.44	
SC11-LS24-5R											0.67	
SC11-LS110-3R		110 ±10%	max 4 A					zener diode (D-Z DO-41 ZY200 2 W)	6		0.44	
SC11-LS110-5R											0.67	
SC11-3		230	max 10 A				no	none	3		0.44	
SC11-5											0.67	
SC11-LS24-0		24 ±20%	max 4 A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	field wireable gland size 0.24 to 0.32	yes	zener diode (D-Z DO-15 47V 2 W)	4	m3-0.5 x 42 mm / 0.5 Nm (4.4 in lb)	0.07	none
SC11-LS110-0		110 ±10%	max 1 A					mov (SIOV S10 K130)	5		0.07	
SC11-0		230	max 10 A				no	none	9		0.07	

Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors Wiring Diagrams

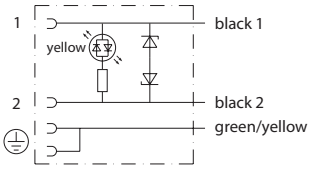


Figure No. 1

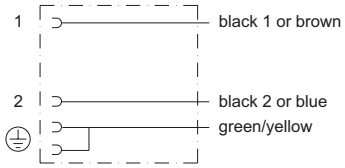


Figure No. 2

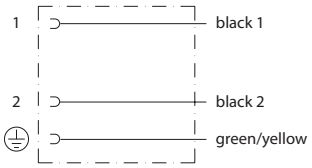


Figure No. 3

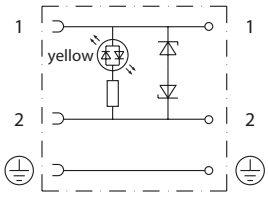


Figure No. 4

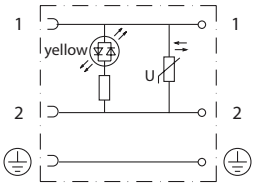


Figure No. 5

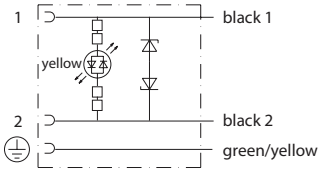


Figure No. 6

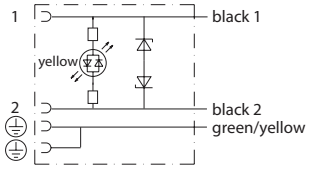


Figure No. 7

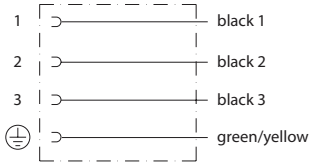


Figure No. 8

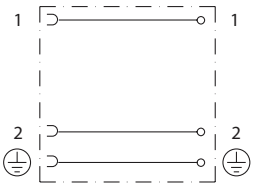


Figure No. 9

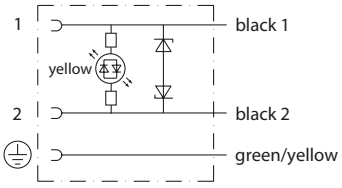


Figure No. 10