

Pneumatic Directional Control Solenoid Valves – AVS-3 Series



AVS-3211

NITRA™ pneumatic AVS-3 series directional control solenoid valves are body ported 3-port (3-way) spool valves. Available port sizes are 1/8″, 1/4″ or 3/8″ NPT with flow coefficients (Cv) from 0.67 to 1.67. The single solenoid models provide 2-position, normally closed, spring return operation and the double solenoid models provide 2-position, energize open/energize closed operation. Solenoid coils are available in either 24VDC or 120VAC control voltages. The DIN style wiring connector includes LED indication of the solenoid coil status.

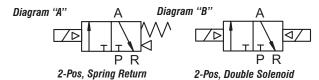
Features

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





See <u>www.AutomationDirect.com</u> for a wide variety of fitting options



			AVS-	3 Series	Specific	ations				
Model	AVS-3111-24D	AVS-3111-120A	AVS-3211-24D	AVS-3211-120A	AVS-3221-24D	AVS-3221-120A	AVS-3212-24D	AVS-3212-120A	AVS-3222-24D	AVS-3222-120A
Price										
Weight (lb)	0.3	0.3	0.5	0.5	0.8	0.7	0.5	0.5	0.7	0.7
Valve Type					3 port 2	position				
Acting					Internall	y Piloted				
Diagram	,	Α	,	A	[3	,	Α	I	В
Port Size	In/Ou	t=1/8"		In/Ou	t=1/8"			In/Ou	it=1/4"	
Orifice Size	12mm² (12mm² (Cv=0.67) 14mm² (Cv=0.78) 16mm² (Cv=0.89)								
Fluid				Air (to	be filtered by	/ 40µ filter ele	ment)			
Pressure		Worl	king: 20~115	psi, (0.15~0.8	MPa), (1.5~8	.0 bar); Proo	f: 215 psi, (1.4	48 MPa), (14.	8 bar)	
Voltage	24VDC single solenoid	120VAC single solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid
Power Consumption	DC: 2.5W continuous E	AC: 3.5 VA; duty (100% D)		I	DC: 3.0W	AC: 4.5 VA; co	ontinuous duty	/ (100% ED)	I	
Max Frequency		,			5 cycl	es/sec				
Operating Life					50,000,0	00 cycles				
Insulation					Вс	lass				
Min Response					0.05	sec				
Temperature					-5~60°C (23~140°F)				
Lubrication					Not Re	equired				
Protection					IP65 (DI	N40050)				
Connection	9.4 mm DI	N Terminal				11mm DIN	N Terminal			
Body					Aluminu	ım Alloy				
Agency Approvals					Solenoid CE r	marked; RoHS	3			



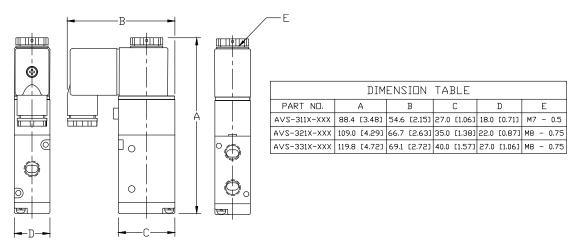
Pneumatic Directional Control Solenoid Valves – AVS-3 Series

		AV	S-3 Series	Specificat	tions					
Model	AVS-3312-24D	AVS-3312-120A	AVS-3322-24D	AVS-3322-120A	AVS-3313-24D	AVS-3313-120A	AVS-3323-24D	AVS-3323-120A		
Price										
Weight (lb)	0.7	0.7	0.9	0.9	0.7	0.7	0.9	0.9		
Valve Type				3 port 2	position					
Acting		Internally Piloted								
Diagram	,	A B A B								
Port Size		In/Out=1/4" In/Out=3/8"								
Orifice Size		16mm² (Cv=1.39)			25mm² (Cv=1.67)			
Fluid			Ai	r (to be filtered by	y 40µ filter eleme	ent)				
Pressure		Working: 20	~115 psi, (0.15~	0.8 MPa), (1.5~8	.0 bar); Proof: 2	15 psi, (1.48 MF	a), (14.8 bar)			
Voltage	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid		
Power Consumption			DC: 3.0V	V AC: 4.5 VA; co	ontinuous duty (1	00% ED)				
Max Freq				5 cycl	es/sec					
Insulation				Вс	lass					
Min Response				0.05	sec					
Temperature				-5~60°C (23~140°F)					
Lubrication				Not Re	equired					
Protection				IP65 (DI	IN40050)					
Connection				11mm DII	N Terminal					
Body				Alumini	um Alloy					
Agency Approvals				Solenoid CE	marked; RoHS					

Dimensions

mm [inches]

AVS-311x, AVS-321x, AVS-331x



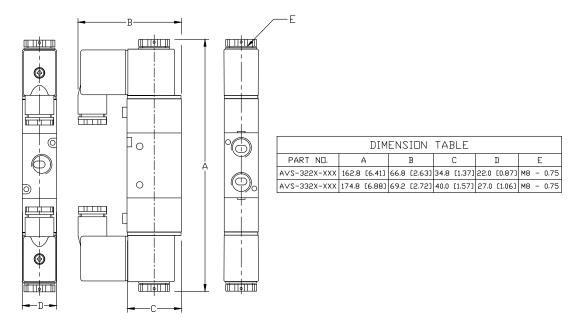
See our website www.AutomationDirect.com for complete Engineering drawings.



Dimensions

mm [inches]

AVS-322x, AVS-332x



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



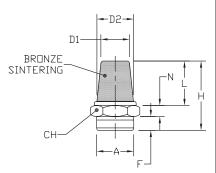
Exhaust Silencers

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

Features

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

SBC Silencers





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





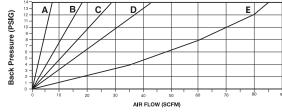


SBC Series

SBF Series

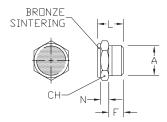
SPL Series

			WITR	A TM	3ronz	e Co	ne S	ilend	ers					
	Inch Sizes - dimensions in inches [mm]													
Part No.	Price	A	СН	D1	D2	F	Н	L	N	Package Weight (lb)	Qty. per pack			
<u>SBC-18N</u>		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				
<u>SBC-14N</u>		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	2			
<u>SBC-38N</u>		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	2			
<u>SBC-12N</u>		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				
			Metri	ic Sizes	s - dimo	ension	s in inc	hes [m	m]					
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				
<u>SBC-18R</u>		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				
<u>SBC-14R</u>		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	2			
<u>SBC-38R</u>		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				



Noise Elimilation = > 20db Filtered Element = 40 micron

SBF Silencers



	NITRA™ Bronze Flat Silencers												
	Inch Sizes - dimensions in inches [mm]												
Part No.	Price	Α	СН	F	L	N	Package Weight (lb)	Qty. per pack					
<u>SBF-18N</u>		MNPT 1/8	0.47 [12.0]	0.24 [6.0]	0.47 [12.0]	0.16 [4.0]	0.01						
<u>SBF-14N</u>		MNPT 1/4	0.67 [17.0]	0.32 [8.0]	0.59 [15.0]	0.16 [4.0]	0.01	2					
<u>SBF-38N</u>		MNPT 3/8	0.75 [19.0]	0.35 [9.0]	0.67 [17.0]	0.20 [5.0]	0.05	2					
<u>SBF-12N</u>		MNPT 1/2	0.94 [24.0]	0.40 [10.0]	0.71 [18.0]	0.24 [6.0]	0.15						
		Metric	Sizes - a	limension	s in inch	es [mm]							
<u>SBF-M5</u>		M5	0.31 [8.0]	0.20 [5.0]	0.35 [9.0]	0.12 [3.0]	0.01						
<u>SBF-18R</u>		R 1/8	0.47 [12.0]	0.24 [6.0]	0.47 [12.0]	0.16 [4.0]	0.01						
<u>SBF-14R</u>		R 1/4	0.67 [17.0]	0.32 [8.0]	0.59 [15.0]	0.16 [4.0]	0.01	2					
<u>SBF-38R</u>		R 3/8	0.75 [19.0]	0.35 [9.0]	0.67 [17.0]	0.20 [5.0]	0.05						
<u>SBF-12R</u>		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

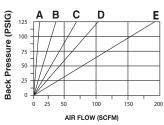
A: SBF-M5

B: SBF-18N; SBF-18R

C: SBF-14N; SBF-14R

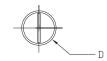
D: SBF-28N; SBF-38R

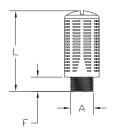
E: SBF-12N; SBF-12R



Noise Elimilation = > 30db Filtered Element = 40 micron

SPL Silencers





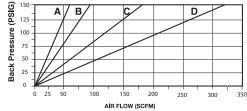
Note: SPL series plastic exhaust silencers have a maximum pressure of 80 PSI (5.5 bar).

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



AVC1-12D



AVC2-12D

Pne	umati	c A-Series Directional Control Solenoid Valve Se Accessories	eries
Part No.	Price	Description	Weight (lb)
<u>AVC1-12D</u>		NITRA solenoid coil, 12VDC, 2.5 W. For use with AVS-31 and AVS-51 series valves.	0.1
<u>AVC1-24D</u>		NITRA solenoid coil, 24VDC, 2.5 W. For use with AVS-31 and AVS-51 series valves.	0.1
<u>AVC1-24A</u>		NITRA solenoid coil, 24VAC, 4.0 VA. For use with AVS-31 and AVS-51 series valves.	0.1
AVC1-120A		NITRA solenoid coil, 120VAC, 3.5 VA. For use with AVS-31 and AVS-51 series valves.	0.1
<u>AVC2-12D</u>		NITRA solenoid coil, 12VDC, 3.0 W. For use with AVP-31, AVS-32, AVS-33, AVS-52, AVS-53 and AVS-54 series valves.	0.2
AVC2-24D		NITRA solenoid coil, 24VDC, 3.0 W. For use with AVP-31, AVS-32, AVS-33, AVS-52, AVS-53 and AVS-54 series valves.	0.2
<u>AVC2-24A</u>		NITRA solenoid coil, 24VAC, 5.0 VA. For use with AVP-31, AVS-32, AVS-33, AVS-52, AVS-53 and AVS-54 series valves.	0.2
AVC2-120A		NITRA solenoid coil, 120VAC, 4.5 VA. For use with AVP-31, AVS-32, AVS-33, AVS-52, AVS-53 and AVS-54 series valves.	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



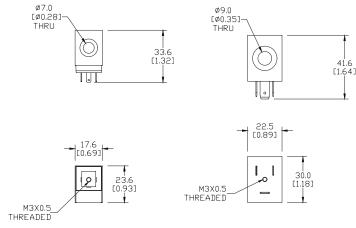
AVP-31BKT



AVP-31KIT

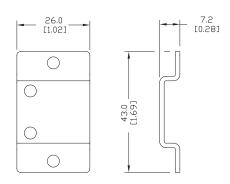
Dimensions

mm [inches]



AVC1 Series Coils

AVC2 Series Coils



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

AVP-31BKT



Pneumatic Directional Control Solenoid Valve Manifolds and Accessories



AM-3 Series Manifolds



AM-31BP

Pneu	matic	Directional Control Solenoid Valve Series Acces	sories
Part No.	Price	Description	Weight (lb)
<u>AM-312</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.	0.2
<u>AM-314</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.	0.3
<u>AM-316</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.	0.4
<u>AM-318</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.	0.5
<u>AM-31BP</u>		NITRA blanking plate, plated steel. For use with AM-31 series manifolds.	0.1
<u>AM-322</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.	0.2
<u>AM-324</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.	0.4
<u>AM-326</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.	0.5
<u>AM-328</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.	0.7
<u>AM-32BP</u>		NITRA blanking plate, plated steel. For use with AM-32 series manifolds.	0.1
<u>AM-332</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.	0.4
<u>AM-334</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.	0.6
<u>AM-336</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.	0.9
<u>AM-338</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.	1.1
<u>AM-33BP</u>		NITRA blanking plate, plated steel. For use with AM-33 series manifolds.	0.1
<u>AM-512</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.	0.4
<u>AM-514</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.	0.6
<u>AM-516</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.	0.8
<u>AM-518</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.	1.1
<u>AM-51BP</u>		NITRA blanking plate, plated steel. For use with AM-51 series manifolds.	0.1
<u>AM-522</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.	0.5
<u>AM-524</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.	0.9
<u>AM-526</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.	1.2
<u>AM-528</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.	1.5
AM-52BP		NITRA blanking plate, plated steel. For use with AM-52 series manifolds.	0.1



Pneumatic Directional Control Solenoid Valve Manifolds and Accessories



AM-5 Series Manifolds



AM-31GS

Pneu	matic	Directional Control Solenoid Valve Series Acces Continued	sories
Part No.	Price	Description	Weight (lb)
<u>AM-532</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.	0.8
<u>AM-534</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.	1.4
<u>AM-536</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.	1.9
<u>AM-538</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.	2.5
<u>AM-53BP</u>		NITRA blanking plate, plated steel. For use with AM-53 series manifolds.	0.1
<u>AM-542</u>		NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.	1.7
<u>AM-544</u>		NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.	2.8
<u>AM-546</u>		NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.	4.0
<u>AM-548</u>		NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.	5.2
<u>AM-54BP</u>		NITRA blanking plate, plated steel. For use with AM-54 series manifolds.	0.1
<u>AM-31GS</u>		NITRA manifold mounting set, for use with AM-31 series manifolds.	0.1
<u>AM-32GS</u>		NITRA manifold mounting set, for use with AM-32 series manifolds.	0.1
<u>AM-33GS</u>		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
<u>AM-54GS</u>		NITRA manifold mounting set, for use with AM-54 series manifolds.	0.1

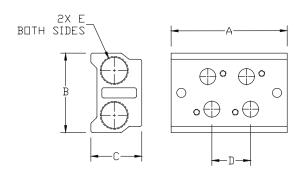


Pneumatic Directional Control Solenoid Valve Manifolds and Accessories

Dimensions

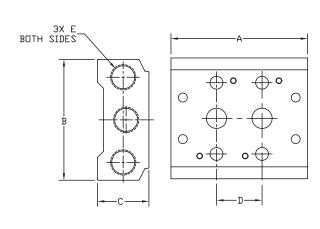
mm [inches]

AM 3x Series Manifolds



		MANIFOLD	DIMENSION	IS	
PART NO.	Α	В	С	D	E
AM-312	57.0 [2.24]			19.0 [.075]	
AM-314	95.0 [3.74]	39.0 [1.54]	25.0 [0.98]	3X 19.0 [.075]	
AM-316	133.0 [5.24]	37.0 [1.34]	23.0 [0.76]	5X 19.0 [.075]	
AM-318	171.0 [6.73]			7X 19.0 [.075]	1/4 NPT
AM-322	69.0 [2.72]			23.0 [0.91]	174 NF1
AM-324	115.0 [4.53]	45.0 [1.77]	25.0 [0.98]	3X 23.0 [0.91]	
AM-326	161.0 [6.34]	45.0 [1.77]	23.0 [0.76]	5X 23.0 [0.91]	
AM-328	207.0 [8.15]			7X 23.0 [0.91]	
AM-332	82.0 [3.23]			28.0 [1.10]	
AM-334	138.0 [5.46]	52.0 [2.05]	29.0 [1.14]	3X 28.0 [1.10]	3/8 NPT
AM-336	194.0 [7.64]] 25'0 [5'02]	C7.U [1.14]	5X 28.0 [1.10]	3/0 NP1
AM-338	250.0 [9.84]			7X 28.0 [1.10]	

AM 5x Series Manifolds



		ΜΔΝΙΕΠΙ ΤΙ	DIMENSION	15			
PART NO.	Α	В	C	ם ס	E		
AM-512	57.0 [2.24]			19.0 [.075]*			
AM-514	95.0 [3.74]			3X 19.0 [.075]*			
AM-516	133.0 [5.24]	58.0 [2.28]	25.0 [0.98]	5X 19.0 [.075]*			
AM-518	171.0 [6.73]			7X 19.0 [.075]*	1/4 NPT		
AM-522	69.0 [2.72]			23.0 [0.91]	17 4 1911		
AM-524	115.0 [4.53]	61.0 [2.40]	26.0 [1.02]	3X 23.0 [0.91]			
AM-526	161.0 [6.34]	61.0 [2.40]	26.0 [1.02]	5X 23.0 [0.91]			
AM-528	207.0 [8.15]			7X 23.0 [0.91]			
AM-532	82.0 [3.23]			28.0 [1.10]			
AM-534	138.0 [5.46]	75.0 [2.95]	30.0 [1.19]	3X 28.0 [1.10]	3/8 NPT		
AM-536	194.0 [7.64]	73.0 [2.93]	30.0 [1.19]	5X 28.0 [1.10]	3/6 NF1		
AM-538	250.0 [9.84]			7X 28.0 [1.10]			
AM-542	98.0 [3.86]			35.0 [1.38]			
AM-544	168.0 [6.61]	1040 54007	20.0 [1.50]	3X 35.0 [1.38]	1 (2 NDT		
AM-546	238.0 [9.37]	104.0 [4.09]	38.0 [1.50]	5X 35.0 [1.38]	1/2 NPT		
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



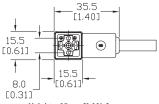
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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

Features

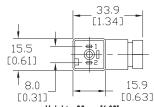
- 8mm, 9.4mm, 10mm, 11mm and 18mm square DIN styles
- Fits most popular solenoid valves and sensors
- Suppression and LED indication available in 24V or 110V AC/DC models
- PVC jacketed cables in 1, 3 or 5 meter lengths on select connectors
- Field wireable connectors on select models
- Polarity insensitive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

8mm Connectors









Height = 26mm [1.02]
Field Wireable Connector

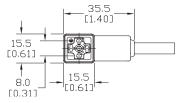
				8mm	(3-pole) C	onnecto	rs (p	er DIN 43650 For	rm C)			
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC8-LS24-3		24 ±20%						zener diode	1	m2.5-	0.40	
SC8-LS24-5		24 ±20%	max 4A				VOC	(D-Z DO-15 47V 2W)	ı	0.45x25mm/	0.65	CSA
SC8-LS110-3		110 ±10%	IIIax 4A	67	18 AWG	0.23	yes	zener diode	7	0.4 Nm (3.5 in lb)	0.41	(080128-0-000)
SC8-LS110-5		110 ±10 /0						(D-Z DO-41 ZY200 2W)	ı	(3.5 111 15)	0.63	
SC8-3									2		0.39	
<u>SC8-0</u>		230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	field wireable gland size 0.20 to 0.24	no	none	9	m2.5- 0.45x25mm/ 0.5 Nm (4.4 in lb)	0.10	none
SC8-1				67	18 AWG	0.23			2	(1.11110)	0.10	
<u>SC8-5</u>				07	10 AWG	0.23					0.68	

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

8mm Transmitter Connector







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		
<u>SC8-5T</u>		230	max 6A	67	18 AWG	0.26	yes	none	8	m3-0.5x42mm/ 0.5 Nm (4.4 in lb)	0.80	CSA (080128-0- 000)		

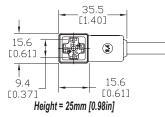
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]





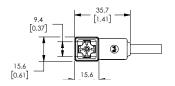
Connector with Cable

	9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)												
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating		Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval	
SC9-LS24-3		24 ±20%			18 AWG	0.23	yes -	zener diode	1	m3-0.5x26mm/ 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)	
SC9-LS24-5		24 ±20%	max 4A	67				(D-Z DO-15 47V 2W)	ı		0.64		
SC9-LS110-3		110 ±10%	IIIax 4A					zener diode	7		0.40	CSA (000120-0-000)	
SC9-LS110-5		110 ±10 /6						(D-Z DO-41 ZY200 2W)	'	, ,	0.64		
<u>SC9-3</u>			max 6A								m3-0.5x26mm/	0.40	
<u>SC9-5</u>		230					no	none	2	0.5 Nm (4.4 in lb)	0.64	none	

9.4mm Connectors

Dimensions shown mm [inches]

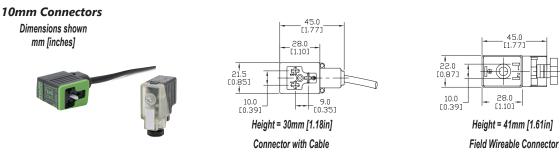




Height = 25mm [0.98in] Connector with Cable

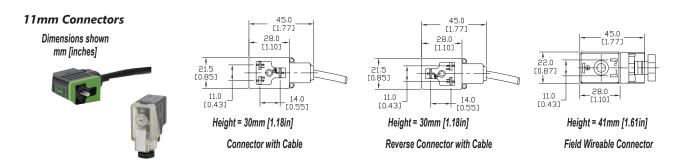
9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
7000-94141-6270300		230 VAC/ VDC			18 AWG	5.6–6.2 mm	9.8ft/3m		none	8	m3- 0.5x26mm/ 0.4 Nm (3.5 in lb)	0.50	CSA (080128-0-000)/ RoHS
<u>7000-94141-6270500</u>			max 6A	IP67			16.4ft/5m	no				0.79	

Solenoid Valve Cables and Connectors



10mm (3-pole) Connectors (per DIN 43650 Form B)												
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	MITO SIZO	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC10-LS24-3		24 ±20%	may 11	-	18 AWG	0.23	yes	zener diode	10	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.43	CSA (080128-0- 000)
SC10-LS24-5			max 4A					(D-Z DO-15 47V 2W)	10		0.68	
SC10-LS110-3		110 ±10%	110 ±10% max 1A					zener diode	6		0.43	
SC10-LS110-5			max iA					(D-Z DO-41 ZY200 2W)			0.68	
<u>SC10-3</u>		000	max 10A				no		3		0.43	
SC10-5		230	max TUA					none	3		0.68	
<u>SC10-LS24-0</u>		24 ±20%	max 4A		Solid 12 AWG Stranded 14	field wireable gland size 0.24 to 0.32	yes	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/ 0.5 Nm (4.4 in lb)	0.07	
<u>SC10-LS110-0</u>		110 ±10% r	max 1A	65				mov (SIOV S10 K130)	5		0.07	
<u>SC10-0</u>		230	max 10A				no	none	9		0.06	

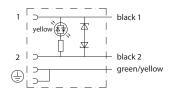
Last digit in part number denotes cable length in meters, a 0 indicates field termination.



	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 4A					zener diode	10		0.44		
<u>SC11-LS24-5</u>		24 ±20%	IIIax 4A					(D-Z DO-15 47V 2W)	10		0.67		
<u>SC11-LS110-3</u>		110 ±10%	max 1A					zener diode (D-Z DO-41 ZY200	6		0.44		
<u>SC11-LS110-5</u>		110 ± 10%	IIIax IA		67 18 AWG	0.23	yes	(D-2 DO-41 21200 2W)		m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.67	CSA	
<u>SC11-LS24-3R</u>		24 ±20%	max 4A	67				zener diode	10		0.44		
<u>SC11-LS24-5R</u>			IIIax 4A					(D-Z DO-15 47V 2W)			0.67	(080128-0-000)	
<u>SC11-LS110-3R</u>		110 ±10%	max 1A	may 1A				zener diode (D-Z DO-41 ZY200	6		0.44		
<u>SC11-LS110-5R</u>								(D-2 DO-41 21200 2W)			0.67		
<u>SC11-3</u>		230	max 10A				no	2020	3		0.44		
<u>SC11-5</u>		230						none	3		0.67		
<u>SC11-LS24-0</u>		24 ±20% max 4A		Solid 12 AWG Stranded 14	field wireable		zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07			
<u>SC11-LS110-0</u>		110 ±10%	max 1A	65	AWG w/Ferrule 16	gland size 0.24 to	yes	mov (SIOV S10 K130)	5	0.5 Nm (4.4 in lb)	0.07	none	
<u>SC11-0</u>		230	max 10A		AWG	0.32	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



black 1 or brown
black 2 or blue
green/yellow

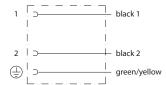


Figure No. 1

Figure No. 2

Figure No. 3

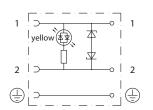


Figure No. 4

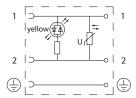


Figure No. 5

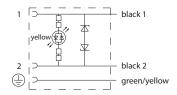


Figure No. 6

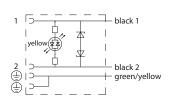


Figure No. 7



Figure No. 8



Figure No. 9

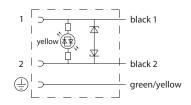


Figure No. 10