

# **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









Diagram "A"	Α	Diagram	ı "B"		Α	
	TT	<b>√</b> ^ 1		_	$\sqrt{}$	⊲/
	PR				P R	
2-Pos. S	prina Return		2-Pos. I	ouble	Solene	oid

AVS-3 Series Specifications											
Model	AVS-3111-24D	AVS-3111-120A	AVS-3211-24D	AVS-3211-120A	AVS-3221-24D	AVS-3212-24D	AVS-3212-120A	AVS-3222-24D	AVS-3222-120A		
Price	\$04zn:	\$-04zl:	\$04zp:	\$04zo:	\$04zu:	\$04zs:	\$04zq:	\$04zx:	\$04zv:		
Weight (lb)	0.3	0.3	0.5	0.5	0.8	0.5	0.5	0.7	0.7		
Valve Type				,	3 port 2 position	n					
Acting		Internally Piloted									
Diagram	,	A B A B									
Port Size	In/Ou	In/Out=1/8" In/Out=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 element)									
Pressure		Working	ı: 20~115 psi, (	0.15~0.8 MPa)	(1.5~8.0 bar);	Proof: 215 ps	i, (1.48 MPa), (	14.8 bar)			
Voltage	24VDC single solenoid	120VAC single solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid		
Power Consumption	DC: 2.5W   continuous du			DC	: 3.0W   AC: 4.	5 VA; continuou	us duty (100% E	ED)			
Max Frequency					5 cycles/sec						
Operating Life				5	0,000,000 cycle	es					
Insulation					B class	,					
Min Response					0.05 sec						
Temperature				-5-	-60°C (23~140	°F)					
Lubrication					Not Required						
Protection				I	P65 (DIN40050	))					
Connection	9.4 mm DI	N Terminal			11	mm DIN Termin	nal				
Body					Aluminum Alloy	/					
Agency Approvals				Soleno	oid CE marked;	RoHS					



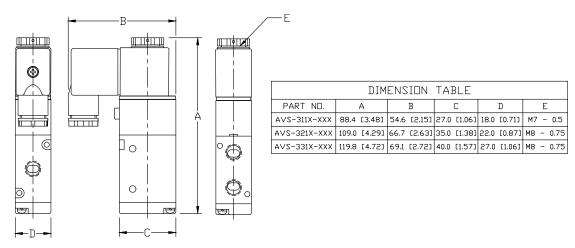
# Pneumatic Directional Control Solenoid Valves – AVS-3 Series

		AVS-3 S	Series Spec	ifications							
Model	AVS-3312-24D	AVS-3312-120A	AVS-3322-24D	AVS-3313-24D	AVS-3313-120A	AVS-3323-24D	AVS-3323-120A				
Price	\$04zz:	\$04zy:	\$04#8:	\$04#6:	\$;04z]:	\$04#a:	Retired				
Weight (lb)	0.7	0.7	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			Air (to be	filtered by 40µ filte	r element)						
Pressure		<b>Working:</b> 20~115	psi, (0.15~0.8 MP	a), (1.5~8.0 bar); <b>F</b>	Proof: 215 psi, (1.4	8 MPa), (14.8 bar)					
Voltage	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	24VDC single solenoid	120VAC single solenoid	24VDC double solenoid	120VAC double solenoid				
Power Consumption			DC: 3.0W   AC:	4.5 VA; continuous	duty (100% ED)	1					
Max Freq				5 cycles/sec							
Insulation				B class							
Min Response				0.05 sec							
Temperature			-	5~60°C (23~140°F	=)						
Lubrication				Not Required							
Protection				IP65 (DIN40050)							
Connection				11mm DIN Termina	ıl						
Body				Aluminum Alloy							
Agency Approvals			Sole	enoid CE marked; R	RoHS						

## **Dimensions**

### mm [inches]

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

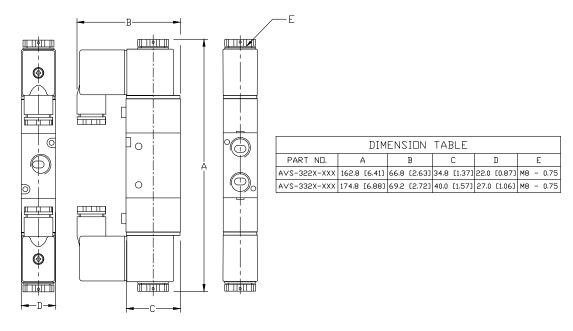




## **Dimensions**

mm [inches]

AVS-322x, AVS-332x





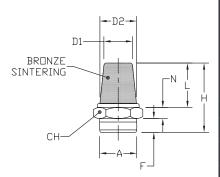
# **Exhaust Silencers**

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





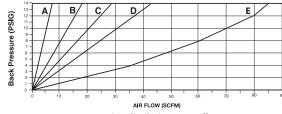


SBC Series

SBF Series

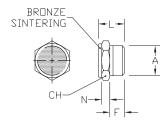
SPL Series

			IITR/	<b>∖™</b> В	ronz	e Co	ne S	lenc	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>	\$4q8:	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>	\$4q6:	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>	\$4qa:	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			
<u>SBC-12N</u>	\$04q4:	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	: Sizes	- dime	nsions	in incl	hes [mi	n]				
<u>SBC-M5</u>	\$4qc:	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>	\$4q9:	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>	\$4q7:	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>	\$4qb:	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			
<u>SBC-12R</u>	\$04q5:	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**



		NITR	A™ Br	onze F	at Sil	encer	S						
	Inch Sizes - dimensions in inches [mm]												
Part No.	Price	A	СН	F	L	N	Package Weight (lb)	Qty. per pack					
<u>SBF-18N</u>	\$4qh:	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>	\$;4qf:	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>	\$-4qj:	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>	\$04qd:	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]							
SBF-M5	\$-4ql:	M5	0.31 [8.0]	0.20 [5.0]	0.35 [9.0]	0.12 [3.0]	0.01						
<u>SBF-18R</u>	\$-4qi:	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>	\$4qg:	R 1/4	0.67 [17.0]	0.32 [8.0]	0.59 [15.0]	0.16 [4.0]	0.01	2					
SBF-38R	\$4qk:	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>	\$04qe:	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**

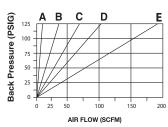
A: SBF-M5

B: SBF-18N; SBF-18R

C: SBF-14N; SBF-14R

D: SBF-28N; SBF-38R

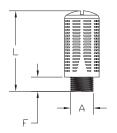
E: SBF-12N; SBF-12R



Noise Elimilation = > 30db Filtered Element = 40 micron

#### **SPL Silencers**





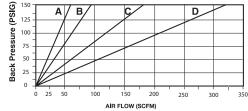
Note: SPL series plastic exhaust silencers have a maximum pressure of 80 PSI (5.5 bar).

	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>	\$4y_:	MNPT 1/8	0.55 [13.8]	1.28 [32.4]	0.33 [8.3]	0.02					
<u>SPL-14N</u>	\$;4y]:	MNPT 1/4	0.68 [17.3]	1.68 [42.5]	0.39 [9.9]	0.03	2				
<u>SPL-38N</u>	\$;4y!:	MNPT 3/8	0.87 [22.0]	2.10 [53.4]	0.40 [10.0]	0.06	2				
<u>SPL-12N</u>	\$4yy:	MNPT 1/2	1.00 [25.4]	2.66 [67.6]	0.44 [11.1]	0.08					
	/V	letric Size	es - dime	nsions in	inches [	mm]					
<u>SPL-18R</u>	\$4y#:	R 1/8	0.60 [15.2]	1.33 [33.7]	0.24 [6.1]	0.02					
<u>SPL-14R</u>	\$;4y[:	R 1/4	0.60 [18.8]	1.60 [40.6]	0.31 [7.7]	0.03	2				
<u>SPL-38R</u>	\$4y?:	R 3/8	0.94 [24.0]	2.20 [55.9]	0.39 [9.9]	0.06	2				
<u>SPL-12R</u>	\$4yz:	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



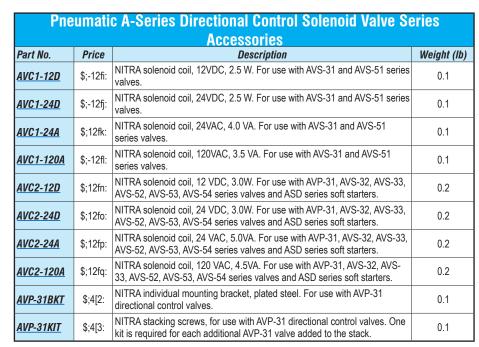
# Pneumatic A-Series Direction Control Solenoid Valves - Accessories



**AVC1-12D** 



AVC2-12D





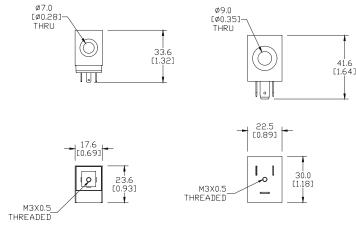
AVP-31BKT



AVP-31KIT

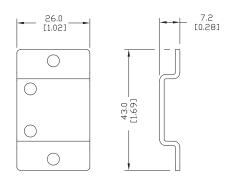
## **Dimensions**

mm [inches]



**AVC1 Series Coils** 

**AVC2 Series Coils** 



AVP-31BKT



# Pneumatic Directional Control Solenoid Valve Manifolds and Accessories



**AM-3 Series Manifolds** 



AM-31BP

Pneui	natic	Directional Control Solenoid Valve Series Acces	sories
Part No.	Price	Description	Weight (lb)
<u>AM-312</u>	\$;12fy:	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>	\$;12fz:	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>	\$;;12f]:	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>	\$;;12f[:	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>	\$12gc:	NITRA blanking plate, plated steel. For use with AM-31 series manifolds.	0.1
<u>AM-322</u>	\$;12f_:	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>	\$;12f#:	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>	\$;;12f!:	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>	\$;12f?:	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>	\$12gd:	NITRA blanking plate, plated steel. For use with AM-32 series manifolds.	0.1
<u>AM-332</u>	\$;;12f,:	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>	\$12g0:	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>	\$12g1:	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>	\$12g2:	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>	\$12ge:	NITRA blanking plate, plated steel. For use with AM-33 series manifolds.	0.1
<u>AM-512</u>	\$0e9z:	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>	\$;0e9]:	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>	\$;0e9[:	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>	\$0e9_:	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>	\$;4c]:	NITRA blanking plate, plated steel. For use with AM-51 series manifolds.	0.1
<u>AM-522</u>	\$;04]7:	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>	\$0ea0:	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>	\$0ea1:	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>	\$0ea2:	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
<u>AM-52BP</u>	\$;4[0:	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 I	Directional Control Solenoid Valve Series Access Continued	sories
Part No.	Price	Description	Weight (lb)
<u>AM-532</u>	\$0ea3:	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>	\$0ea4:	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>	\$0ea5:	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>	\$0ea6:	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>	\$;4[1:	NITRA blanking plate, plated steel. For use with AM-53 series manifolds.	0.1
<u>AM-542</u>	\$0e9#:	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>	\$;0e9!:	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>	\$00e9?:	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>	\$;00e9,:	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>	\$;4c[:	NITRA blanking plate, plated steel. For use with AM-54 series manifolds.	0.1
<u>AM-31GS</u>	\$;12gf:	NITRA manifold mounting set, for use with AM-31 series manifolds.	0.1
<u>AM-32GS</u>	\$12gg:	NITRA manifold mounting set, for use with AM-32 series manifolds.	0.1
<u>AM-33GS</u>	\$12gh:	NITRA manifold mounting set, for use with AM-33 series manifolds.	0.1
<u>AM-51GS</u>	\$-12gi:	NITRA manifold mounting set, for use with AM-51 series manifolds.	0.1
<u>AM-52GS</u>	\$-12gj:	NITRA manifold mounting set, for use with AM-52 series manifolds.	0.1
<u>AM-53GS</u>	\$12gk:	NITRA manifold mounting set, for use with AM-53 series manifolds.	0.1
<u>AM-54GS</u>	\$-12gl:	NITRA manifold mounting set, for use with AM-54 series manifolds.	0.1

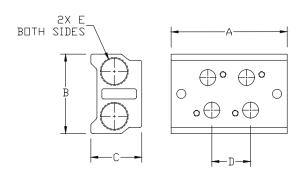


# Pneumatic Directional Control Solenoid Valve Manifolds and Accessories

## **Dimensions**

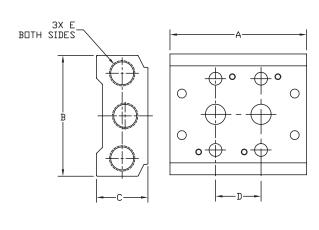
mm [inches]

### 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



		MANIFOLD	DIMENSION	12	
PART NO.	Α	В	С	D	E
AM-512	57.0 [2.24]			19.0 [.075]*	
AM-514	95.0 [3.74]	58.0 [2.28]	25.0 [0.98]	3X 19.0 [.075]*	
AM-516	133.0 [5.24]	36.0 [E.E6]	23.0 10.961	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 7 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 [2.33]	30.0 [1.17]	5X 28.0 [1.10]	3/0 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]	104.0 [4.09]	38.0 [1.50]	3X 35.0 [1.38]	1/2 NPT
AM-546	238.0 [9.37]	104.0 [4.07]	30'0 [1'30]	5X 35.0 [1.38]	I/C INFI
AM-548	308.0 [12.13]			7X 35.0 [1.38]	

<sup>\*</sup> Exhaust holes have 1mm offset from spacing centerline.

# **Solenoid Valve Cables and Connectors**



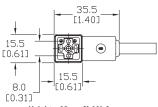
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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

### **Features**

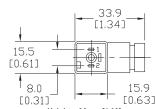
- 8mm, 9.4mm, 10mm, 11mm and 18mm square DIN styles
- Fits most popular solenoid valves and sensors
- Suppression and LED indication available in 24V or 110V AC/DC models
- PVC jacketed cables in 1, 3 or 5 meter lengths on select connectors
- Field wireable connectors on select models
- Polarity insensitive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







Height = 25mm [0.98in] Connector with Cable



Height = 26mm [1.02]
Field Wireable Connector

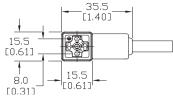
				8mm	(3-pole) C	onnecto	rs (p	er DIN 43650 Fo	rm C)			
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC8-LS24-3	\$;04t2:	24 ±20%						zener diode	1	m2.5-	0.40	
SC8-LS24-5	\$;04t3:	24 ±20 /0	max 4A				yes	(D-Z DO-15 47V 2W)	'	0.45x25mm/	0.65	CSA
SC8-LS110-3	\$;04t0:	110 ±10%	IIIdx 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	\$;04t1:	110 ±10 /0						(D-Z DO-41 ZY200 2W)	,	(3.3 111 10)	0.63	
SC8-3	\$;04s!:								2		0.39	
<u>SC8-0</u>	\$4s_:	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	\$04s#:			67	18 AWG	0.23			2	(	0.10	
SC8-5	\$04s?:			0/	10 AVVG	0.23			2		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	
<u>SC8-5T</u>	\$;04s,:	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)	

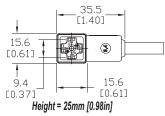
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

# **Solenoid Valve Cables and Connectors**

### 9.4mm Connectors

Dimensions shown mm [inches]





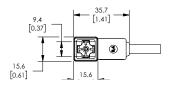
Connector with Cable

	9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval		
SC9-LS24-3	\$;04t8:	24 ±20%					yes	zener diode	1	m3-0.5x26mm/ 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)		
SC9-LS24-5	\$;04t9:		max 4A					(D-Z DO-15 47V 2W)			0.64			
SC9-LS110-3	\$;04t6:	110 ±10%			18			zener diode			0.40			
SC9-LS110-5	\$;04t7:	110 ± 10%	110 ± 10 %	110 ± 10 /0		67	AWG	0.23		(D-Z DO-41 ZY200 2W)	1	, ,	0.64	
<u>SC9-3</u>	\$;04t4:						no			m3-0.5x26mm/	0.40			
<u>SC9-5</u>	\$;04t5:	230	max 6A					none	2	0.5 Nm (4.4 in lb)	0.64	none		

### 9.4mm Connectors

Dimensions shown mm [inches]

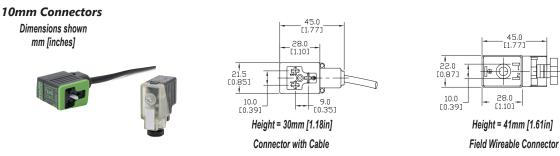




Height = 25mm [0.98in] Connector with Cable

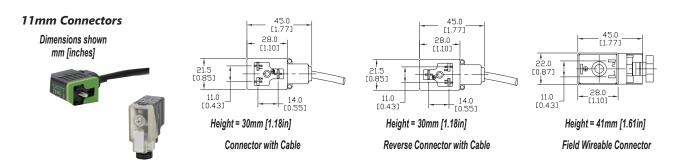
9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
7000-94141-6270300	\$4p49:	230 VAC/ VDC		IP67	18 AWG	5.6–6.2 mm	9.8ft/3m			8	m3- 0.5x26mm/ 0.4 Nm (3.5 in lb)	0.50	CSA (080128-0-000)/ RoHS
<u>7000-94141-6270500</u>	\$4p4a:		max 6A				16.4ft/5m	no	none			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	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval		
<u>SC10-LS24-3</u>	\$04k9:	24 ±20%	may 1A	A				zener diode (D-Z DO-15 47V 2W)	10		0.43			
<u>SC10-LS24-5</u>	\$04ka:		max 4A								0.68			
<u>SC10-LS110-3</u>	\$04k7:	110 ±10%	110 : 100/	max 4A	67	18 AWG	0.23	yes	zener diode	6	m3-0.5x30mm/ 0.4 Nm	0.43	CSA (080128-0-	
SC10-LS110-5	\$04k8:		70 IIIdX 4A	07	10 AVVG	0.23		(D-Z DO-41 ZY200 2W)	0	(3.5 in lb)	0.68	000)		
<u>SC10-3</u>	\$04k5:	230	230	220	max 10A						2		0.43	
<u>SC10-5</u>	\$04k6:			IIIax IUA				no	none	3		0.43		
SC10-LS24-0	\$043d:	24 ±20%	max 4A	Stranded 14 wire	field wireable		zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07				
<u>SC10-LS110-0</u>	\$043c:	110 ±10%	max 1A	00	w/Ferrule 16 AWG	gland size 0.24 to 0.32	yes	mov (SIOV S10 K130)	5	0.5 Nm (4.4 in lb)	0.07	none		

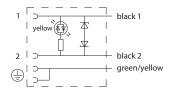
Last digit in part number denotes cable length in meters, a 0 indicates field termination.



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	\$04sy:	24 ±20%	may 11					zener diode	10		0.44			
SC11-LS24-5	\$;04s]:	24 ±20%	max 4A					(D-Z DO-15 47V 2W)	10		0.67			
<u>SC11-LS110-3</u>	\$04ss:	110 ±10%	max 4A					zener diode (D-Z DO-41 ZY200	6		0.44			
<u>SC11-LS110-5</u>	\$04su:	110 ±10%	IIIdX 4A				1/00	2W)	0		0.67	]		
<u>SC11-LS24-3R</u>	\$04sz:	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode	10	m3-0.5x30mm/ 0.4 Nm	0.44	CSA		
SC11-LS24-5R	\$;04s[:	24 ±20%	IIIdX 4A	07	10 AVVG	0.23		(D-Z DO-15 47V 2W)	10	(3.5 in lb)	0.67	(080128-0-000)		
<u>SC11-LS110-3R</u>	\$;04st:	110 . 100/	110 ±10% max 4A	6 max 4A	may 11					zener diode (D-Z DO-41 ZY200	6		0.44	
<u>SC11-LS110-5R</u>	\$04sv:	110 ± 10%	IIIax 4A	1X 4A				2W)	0		0.67			
<u>SC11-3</u>	\$04so:	230 m	230 max 10A	may 10A	may 10A				no	2020	3		0.44	
<u>SC11-5</u>	\$04sp:			X IUA			no	none	3		0.67			
SC11-LS24-0	\$04sx:	24 ±20%	max 4A		Solid 12 AWG Stranded 14	field wireable	ves	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07			
<u>SC11-LS110-0</u>	\$04sq:	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>	\$04sn:	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





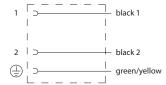


Figure No. 1

Figure No. 2

Figure No. 3

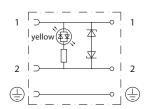


Figure No. 4

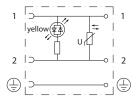


Figure No. 5

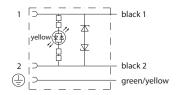


Figure No. 6

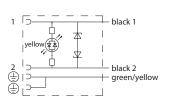


Figure No. 7



Figure No. 8



Figure No. 9

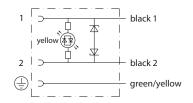


Figure No. 10