



Part No. DVD-2AC3A-24D

Valve Symbol



2-way, 2-pos

Process Pipeline Solenoid Valves DVD-2A Series

The NITRATM DVD-2A Series valves are 2-way, 2-position, normally closed valves for the control of air, oil, water, or media that is compatible with valve materials of manufacture. These valves feature an all brass body and a zero minimum pressure differential while still boasting a full flow 1/2" orifice. Available in 1/4", 3/8" and 1/2" FNPT port sizes, the DVD-2A valves can handle pressures to 230psi. The encapsulated coil construction ensures that the valve functions well under long periods of energization (100% duty), as well as providing a high degree of environmental protection (NEMA Type 4). The inner valve functions as a direct assist using a flat diaphragm and orifice plate. Pressure differentials shift the valve to full open. A push, non-locking manual override is standard.

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Features

- 2-way diaphragm style valves
- 1/4, 3/8, or 1/2" FNPT ports
- · 2-position, normally closed, spring return
- 24VDC, 24VAC, or 120VAC solenoids
- DIN style wiring connector



for a wide variety of fitting and cable options

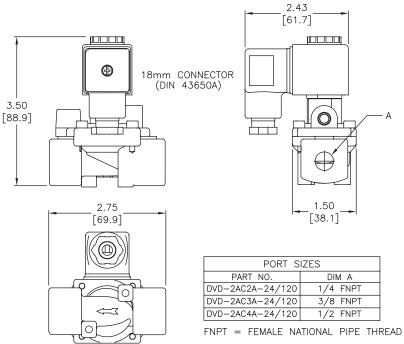
		DVD-2	A Series So	olenoid Val	ve Specific	ations						
Model	DVD-2AC2A-24D	DVD-2AC2A-24A	DVD-2AC2A-120A	DVD-2AC3A-24D	DVD-2AC3A-24A	DVD-2AC3A-120A	DVD-2AC4A-24D	DVD-2AC4A-24A	DVD-2AC4A-120A			
Price	\$77.00	\$77.00	\$77.00	\$77.00	\$77.00	\$77.00	\$77.00	\$77.00	\$77.00			
Weight (lbs)	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0			
Valve Type					2-way, 2-positior							
Acting		Diaphragm, normally closed, spring return										
Port Size	1/4" FNPT 3/8" FNPT 1/2" FNPT											
Orifice Size	1/2" [12.7 mm]											
Cv	1.55 1.95 2.45											
Media				Air, oil, v	vater, emulsion, ir	ert gases						
Pressure Range	1–180 psi [0–12.4 bar]	1–160 psi [0–11.0 bar]	0–230 psi [0–15.9 bar]	1–180 psi [0–12.4 bar]	1–160 psi [0–11.0 bar]	0–230 psi [0–15.9 bar]	1–180 psi [0–12.4 bar]	1–160 psi [0–11.0 bar]	0–230 psi [0–15.9 bar]			
Voltage (± 10%)	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz			
Inrush AC	-	10.5	5 VA	-	10.5	5 VA	-	10.	5 VA			
Power Consumption	10W	8)	VA	10W	8	/A	10W	8'	VA			
Max Freq					12.5 Hz							
Insulation				Clas	ss F (continuous o	duty)						
Min Response				20-	80 ms complete o	cycle						
Temperature		N	Max fluid 194 deg	F (90 deg C); An	nbient 14 deg F to	122 deg F (-10	deg C to 50 deg (C)				
Lubrication					Not required							
Protection					NEMA Type 4							
Connection				1	8mm DIN termin	al						
Construction				Brass body	; Viton seals; Ope	erator Brass						
Life Cycle					10 million							
Agency Approvals					CE							



Process Pipeline Solenoid Valves DVD-2A Series

Dimensions

inches [mm]



See our website www.AutomationDirect.com

for complete Engineering drawings.

Accessories

DVD-2A Series Solenoid Valve Accessories												
Part No.	Description	Price	Weight (lbs)									
DVD-1VSEAL	Seal kit, replacement, Viton, for DVD-2AC series NITRA pneumatic solenoid valves. Includes one Viton diaphragm.	\$9.00	0.1									



Part No. DVD-1VSEAL

Solenoid Valve Cables and Connectors



Dimensions shown mm [inches]

8mm Connectors

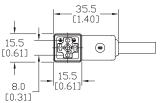




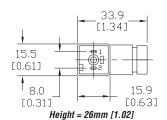
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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







Field Wireable Connector

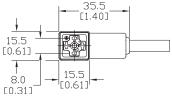
				8mm	(3-pole) Conr	ectors (p	er Di	N 43650 Form	C)			
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC8-LS24-3	\$12.00	24 ±20%						zener diode	1	m2.5-	0.40	
SC8-LS24-5	\$14.50	24 ±20 /0	max 4A				ves	(D-Z D0-15 47V 2W)	'	0.45x25mm/ 0.4 Nm	0.65	CSA (080128-0-000)
SC8-LS110-3	\$15.00	110 ±10%	IIIdX 4A	67	18 AWG	0.23	ycs	zener diode	7		0.41	
SC8-LS110-5	\$17.50	110 ±10%						(D-Z D0-41 ZY200 2W)	,	(3.5 in lb)	0.63	
SC8-3	\$10.00							none	2		0.39	none
SC8-0	\$5.50	230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG		no		9	m2.5- 0.45x25mm/ 0.5 Nm	0.10	
SC8-1	\$11.00			0.7	10 1110	0.23			2	(4.4 in lb)	0.10	
SC8-5	\$13.50			67	18 AWG	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) Co	nnectors (p	er Di	N 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
SC8-5T	\$18.50	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)

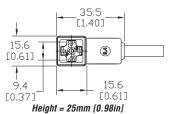
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]





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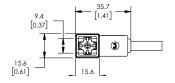
Connector with Cable

	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	\$12.00	24 ±20%						zener diode	1		0.40				
SC9-LS24-5	\$14.50	24 ±20%	max 4A		18 AWG	0.23	yes -	(D-Z D0-15 47V 2W)	ı	m3-0.5x26mm/	0.64	CSA (080128-0-000)			
SC9-LS110-3	\$15.00	110 ±10%	IIIdX 4A	67				zener diode	7	0.4 Nm (3.5 in lb)	0.40	USA (UUU120-U-UUU)			
SC9-LS110-5	\$17.50	110 ±10 /0						(D-Z D0-41 ZY200 2W)	'	(* * * * * * * * * * * * * * * * * * *	0.64				
SC9-3	\$10.00									m3-0.5x26mm/	0.40				
SC9-5	\$13.50	230	max 6A				no	none	2	0.5 Nm (4.4 in lb)	0.64	none			

9.4mm Connectors

Dimensions shown mm [inches]

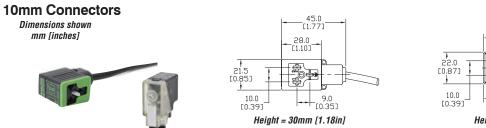




Height = 25mm [0.98in] Connector with Cable

	9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)														
Part No.	Price	Voltage (AC/DC)			Wire Size	Cable Dia.	Cable Length	LED	Surge Protection		Screw Size/ Torque	Weight (lbs)	Agency Approval		
7000-94141-6270300	\$14.00	230 VAC/ VDC	max 6A	IP67	18 AWG	5.6–6.2 mm	9.8ft/3m				m3-0.5x26mm/	0.50	CSA		
7000-94141-6270500	\$19.00						16.4ft/5m	no	none	8	0.4 Nm (3.5 in lb)	0.79	(080128-0-000)/ RoHS		

Solenoid Valve Cables and Connectors



Connector with Cable

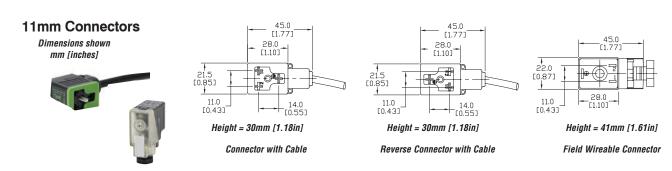
22.0 10.871 10.0 10.391 28.0 11.101

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	\$12.00	24 ±20%	max 4A					zener diode	10		0.43			
SC10-LS24-5	\$14.50	24 ±20%	IIIdX 4A				yes	(D-Z D0-15 47V 2W)	10		0.68	CSA (080128-0-000)		
SC10-LS110-3	\$15.00	110 ±10%	±10% max 1A	67	18 AWG	0.23		zener diode	6	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.43			
SC10-LS110-5	\$17.50			07				(D-Z DO-41 ZY200 2W)	0		0.68			
SC10-3	\$10.00	000					no	none	3		0.43			
SC10-5	\$13.50	230							3		0.68			
SC10-LS24-0	\$10.00	24 ±20%	max 4A		Solid 12 AWG	field wireable	1/00	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07			
SC10-LS110-0	\$11.00	110 ±10%	max 1A	65	Stranded 14 AWG 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			
SC10-0	\$8.25	230	max 10A		10 AWG		no	none	9		0.06			

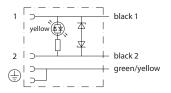
Last digit in part number denotes cable length in meters, a 0 indicates field termination.

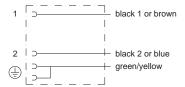


			11mi	n (3-po	le) Connecto	rs (DIN S	tyle, I	Form B Indust	rial)			
Part No.	Price	Voltage (AC/DC)			Wire Size	Cable Dia. (in)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC11-LS24-3	\$12.00	24 ±20%	may 11					zener diode	10		0.44	
SC11-LS24-5	\$14.50	24 ±20%	max 4A					(D-Z DO-15 47V 2W)	10		0.67	
SC11-LS110-3	\$15.00	110 ±10%	max 1A					zener diode	6		0.44	
SC11-LS110-5	\$17.50	110±10%	IIIdX IA					(D-Z D0-41 ZY200 2W)	0		0.67	
SC11-LS24-3R	\$12.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode	10	m3-0.5x30mm/	0.44	CSA
SC11-LS24-5R	\$14.50	24 ±20 %	IIIdX 4A	07	16 AWG	0.23		(D-Z DO-15 47V 2W)	10	0.4 Nm (3.5 in lb)	0.67	(080128-0-000)
SC11-LS110-3R	\$15.00	110 100/	1 1					zener diode	6	(0.44	(
SC11-LS110-5R	\$17.50	110 ±10%	max 1A					(D-Z D0-41 ZY200 2W)	Ь		0.67	
SC11-3	\$10.00	000	101						3		0.44	1
SC11-5	\$13.50	230	max 10A				no	none	3		0.67	
SC11-LS24-0	\$10.00	24 ±20%	max 4A		Solid 12 AWG	field wireable	ves	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07	
SC11-LS110-0	\$11.00	110 ±10%	max 1A		Stranded 14 AWG	gland size	yes	mov (SIOV S10 K130)	5	0.5 Nm (4.4 in lb)	0.07	none
SC11-0	\$8.25	230	max 10A				no	none	9	. ,	0.07	

 ${\it Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.}$

Solenoid Valve Cables and Connectors Wiring Diagrams





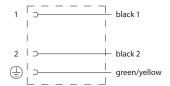


Figure No. 1

Figure No. 2

Figure No. 3

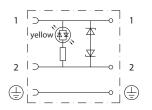


Figure No. 4

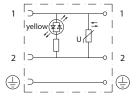


Figure No. 5

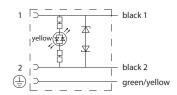


Figure No. 6

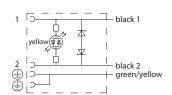


Figure No. 7

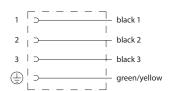


Figure No. 8



Figure No. 9

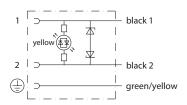


Figure No. 10