



Part No. DVD-2AC3A-24D

2-way, 2-pos

Valve Symbol



Process Pipeline Solenoid Valves DVD-2A Series

The NITRA[™] 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.

CE ROHS

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





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

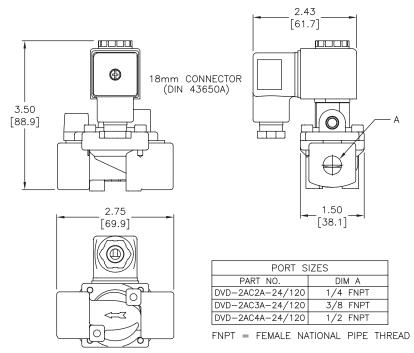
		DVD-2A	Series So	lenoid Va	lve Speci	ifications						
Model	DVD-2AC2A-24 <u>D</u>	DVD-2AC2A-24A	DVD-2AC2A-120A	DVD-2AC3A-24D	DVD-2AC3A-24A	DVD-2AC3A-120A	DVD-2AC4A-24D	DVD-2AC4A-24A	<u>DVD-2AC4A-120A</u>			
Price	\$89.00	\$89.00	\$89.00	\$89.00	\$89.00	\$89.00	\$89.00	\$89.00	\$89.00			
Weight (lbs)	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0			
Valve Type				2	2-way, 2-positio	n						
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, wa	iter, emulsion, i	nert 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	5 VA			
Power Consumption	10W	81	VA	10W	8\	/A	10W	8	VA			
Max Freq					12.5 Hz							
Insulation				Class	s F (continuous	duty)						
Min Response				20–8	0 ms complete	cycle						
Temperature		Max flu	uid 194 deg F (90 deg C); Amb	pient 14 deg F f	to 122 deg F (-	10 deg C to 50	deg C)				
Lubrication					Not required							
Protection					NEMA Type 4							
Connection			18mm D	IN terminal; Ca	able OD 0.315"	to 0.394", 14 A	WG max					
Construction				Brass body;	Viton seals; Op	perator 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.	\$10.00	0.1								



Part No. DVD-1VSEAL

Solenoid Valve Cables and Connectors



8mm Connectors

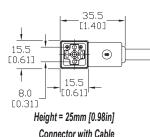


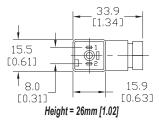


These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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





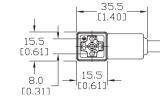
Field Wireable Connector

					00111									
				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		
<u>SC8-LS24-3</u>	\$15.50	24 ±20%	max 4A					zener diode	1	m2.5-	0.40			
<u>SC8-LS24-5</u>	\$18.50	24 ±20%						(D-Z DO-15 47V 2W)	1	0.45x25mm/ 0.4 Nm (3.5 in lb)	0.65	CSA (080128-0-000)		
<u>SC8-LS110-3</u>	\$19.00	110 ±10%		67	18 AWG	0.23	yes	zener diode	7		0.41			
<u>SC8-LS110-5</u>	\$22.00	110 ± 10 %						(D-Z DO-41 ZY200 2W)	1	(3.5 III II)	0.63			
<u>SC8-3</u>	\$12.50						no		2		0.39			
<u>SC8-0</u>	\$8.25	230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	field wireable gland size 0.20 to 0.24		none	9	m2.5- 0.45x25mm/ 0.5 Nm (4.4 in lb)	0.10	none		
<u>SC8-1</u>	\$16.50			67	18 AWG	0.23			2	(0.10]		
<u>SC8-5</u>	\$17.50			0/	TO 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) 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>	\$23.50	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.

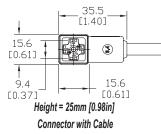


Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]



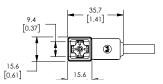


			9.4mn	n (3-p	ole)	Connect	ors	(DIN Style, Fo	rm C Ir	idustrial)		
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
<u>SC9-LS24-3</u>	\$15.50	24 ±20%			18 AWG			zener diode	1		0.40	
<u>SC9-LS24-5</u>	\$18.50	24 ±20 %	max 4A	67		0.23	yes -	(D-Z DO-15 47V 2W)	I	m3-0.5x26mm/ 0.4 Nm	0.64	CSA (080128-0-000)
<u>SC9-LS110-3</u>	\$19.00	110 ±10%						zener diode	7	(3.5 in lb)	0.40	CSA (000120-0-000)
SC9-LS110-5	\$22.00	110 ± 10 %						(D-Z DO-41 ZY200 2W)	1		0.64	
<u>SC9-3</u>	\$12.50									m3-0.5x26mm/	0.40	
<u>SC9-5</u>	\$17.50	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

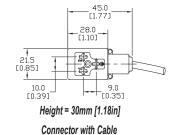
		9.4 n	nm (4-	pole)	Conn	nnectors (DIN Style, Form C Industrial)							
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
7000-94141-6270300	\$18.00	000 1/100/		IP67	18 AWG	5.6–6.2 mm	9.8ft/3m		none		m3- 0.5x26mm/ 0.4 Nm (3.5 in lb)	0.50	CSA
<u>7000-94141-6270500</u>	\$24.00	230 VAC/ VDC					16.4ft/5m	no		8		0.79	(080128-0-000)/ RoHS

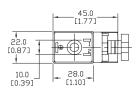
Solenoid Valve Cables and Connectors

10mm Connectors

Dimensions shown mm [inches]







Height = 41mm [1.61in] Field Wireable Connector

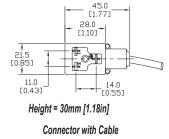
			10 m	nm (3·	-pole) Con	nectors	(pe	r DIN 43650 For	m B)			
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
<u>SC10-LS24-3</u>	\$15.50	24 ±20%	max 4A					zener diode	10		0.43	
<u>SC10-LS24-5</u>	\$18.50	24 ±20%			18 AWG		yes -	(D-Z DO-15 47V 2W)	10	m3-0.5x30mm/ 0.4 Nm	0.68	CSA (080128-0- 000)
<u>SC10-LS110-3</u>	\$19.00	110 ±10%	max 1A	67		0.23		zener diode	6		0.43	
<u>SC10-LS110-5</u>	\$22.00							(D-Z DO-41 ZY200 2W)	0	(3.5 in lb)	0.68	
<u>SC10-3</u>	\$12.50	230	404]				2020	3		0.43	
<u>SC10-5</u>	\$17.50		max 10A				no	none	3		0.68	
<u>SC10-LS24-0</u>	\$12.50	24 ±20%	max 4A	65	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	0.07	none
<u>SC10-LS110-0</u>	\$14.00	110 ±10%	max 1A	00	AWG w/Ferrule 16 AWG			mov (SIOV S10 K130)	5	(4.4 in lb)	0.07	

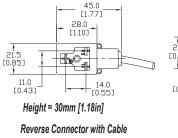
Last digit in part number denotes cable length in meters, a 0 indicates field termination.

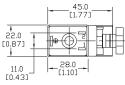
11mm Connectors

Dimensions shown mm [inches]









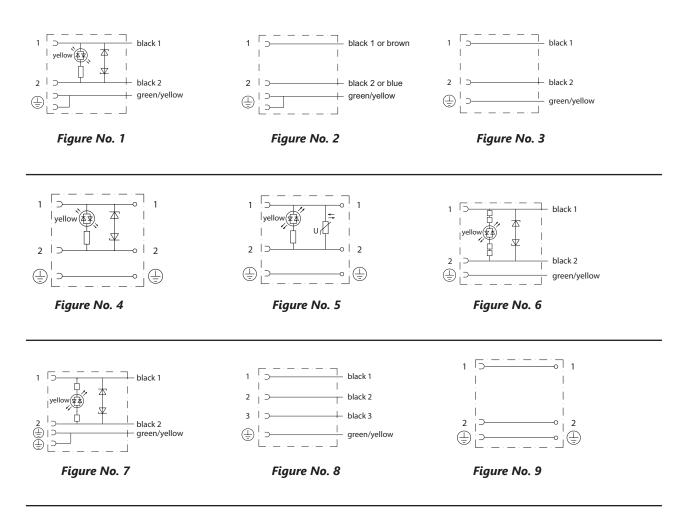
Height = 41mm [1.61in]

Field Wireable Connector

			11mm	(3-pol	e) Connec	tors (DI	N St	yle, Form B In	dustri	al)		
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (Ibs)	Agency Approval
<u>SC11-LS24-3</u>	\$15.50	24 ±20%	max 4A					zener diode	10		0.44	
<u>SC11-LS24-5</u>	\$18.50	24 ±20%	IIIdX 4A					(D-Z DO-15 47V 2W)	10		0.67	
SC11-LS110-3	\$19.00	110 ±10%	may 14					zener diode (D-Z DO-41 ZY200	6		0.44	
SC11-LS110-5	\$22.00	$110 \pm 10\%$ max	max 1A					(D-2 DO-41 21200 2W)	0		0.67	
<u>SC11-LS24-3R</u>	\$15.50	04 . 00%	67	10 0000		yes	zener diode	10	m3-0.5x30mm/ 0.4 Nm	0.44	CSA	
<u>SC11-LS24-5R</u>	\$18.50	24 ±20%	max 4A	07	18 AWG	0.23		(D-Z DO-15 47V 2W)	10	(3.5 in lb)	0.67	(080128-0-000)
<u>SC11-LS110-3R</u>	\$19.00	110 . 100/	max 1A	1				zener diode	0		0.44	, , ,
<u>SC11-LS110-5R</u>	\$22.00	110 ±10%				-		(D-Z DO-41 ZY200 2W)	6		0.67	
<u>SC11-3</u>	\$12.50	230		1			no		3		0.44	
<u>SC11-5</u>	\$17.50	230	max 10A					none	3		0.67	
<u>SC11-LS24-0</u>	\$12.50	24 ±20%	max 4A		Solid 12 AWG Stranded 14 65 AWG w/Ferrule 16	field wireable		zener diode (D-Z DO-15 47V 2W)	4		0.07	
<u>SC11-LS110-0</u>	\$14.00	110 ±10%	max 1A	65		gland size 0.24 to	yes	mov (SIOV S10 K130)	5		0.07	none
<u>SC11-0</u>	\$10.50	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



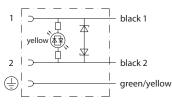


Figure No. 10