

Process Pipeline Solenoid Valves DVP-2B & DVP-3B Series



The NITRA™ DVP-2B and DVP-3B Series valves are composite body solenoid valves offered in both 2-way and 3-way normally closed styles. Component features include the proven solenoid operator available in brass/stainless or all stainless pilot design. The glass filled composite material is media compatible, eliminating the need for stocking multiple body materials.

Features

- 2-way and 3-way poppet style valves
- 1/8" FNPT ports
- 2-position, normally closed, spring return
- 24VDC, 24VAC or 120VAC solenoids
- DIN style wiring connectors

CE KOHS

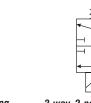














for a wide variety of fitting and cable options



2-way, 2-pos, NC 3-way, 2-pos, NC 3-way, 2-pos, Mixing 3-way, 2-pos, Diverting

DVF	P-2B & DVP-	3B Series Sc	lenoid Valve	Specification	ons			
Model	DVP-2BC1C-24D	DVP-2BC1C-24A	DVP-2BC1C-120A	DVP-3BC1C-24D	DVP-3BC1C-24A	DVP-3BC1C-120A		
Price	\$28.00	\$28.00	\$28.00	\$28.00	\$28.00	\$28.00		
Weight (lbs)	0.3	0.3	0.3	0.3	0.3	0.3		
Valve Type		2-way, 2-position			3-way, 2-position			
Acting	Poppet valv	e, normally closed,	spring return	Poppet valv	e, normally closed,	spring return		
Port Size				FNPT				
Orifice Size			0.059" [1.5 mm]				
Cv		0.8			0.8 (exhaust 0.08)			
Media			Air, oil, inert gas	, water, caustics*				
Pressure Range		0–200 psi [0–13.8 bar]		1–150 psi [0–10.3 bar]				
Voltage (±10%)	24VDC	24VAC 120VAC 50/60 Hz 50/60 Hz		24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz		
Inrush AC	_	10	VA	_	10	VA		
Power Consumption	6.5 W	8.5	VA	6.5 W	8.5	VA		
Max Freq			71.4	4 Hz				
Insulation			Class F (con	tinuous duty)				
Min Response			12–14 ms co	omplete cycle				
Temperature			14°F to 122°F	[-10°C to 50°C]				
Lubrication			Not Re	equired				
Protection			NEMA	Type 4				
Connection				N terminal				
Construction		Glass	filled nylon body; V	iton seals; Operator	Brass			
Life Cycle			20 m	nillion				
Agency Approvals			C	E				

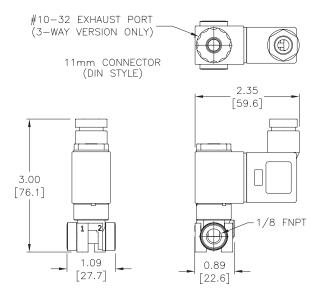
^{*} Check the chemical compatibility of the valve materials with the process media being used.



Process Pipeline Solenoid Valves DVP-2B & DVP-3B Series

Dimensions

inches [mm]



FNPT = FEMALE NATIONAL PIPE THREAD

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

8mm Connectors

Solenoid Valve Cables and Connectors

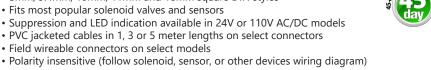


These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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

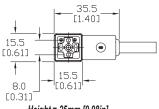
Features

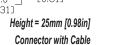
- 8mm, 9.4mm, 10mm, 11mm and 18mm square DIN styles
- Suppression and LED indication available in 24V or 110V AC/DC models

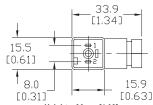
- Polarity insensitive (follow solenoid, sensor, or other devices wiring diagram)











Height = 26mm [1.02] Field Wireable Connector

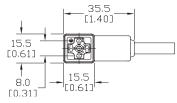
	8mm (3-pole) Connectors (per DIN 43650 Form C)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size Cable Dia		LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval		
SC8-LS24-3	\$15.50	24 ±20%					yes -	zener diode	1	m2.5- 0.45x25mm/ 0.4 Nm (3.5 in lb)	0.40			
SC8-LS24-5	\$18.50	24 ±20 /0	max 4A		18 AWG	0.23		(D-Z DO-15 47V 2W)	'		0.65	CSA (080128-0-000)		
SC8-LS110-3	\$19.00	110 ±10%		67				zener diode	7		0.41			
SC8-LS110-5	\$22.00	110 ±10 /0						(D-Z DO-41 ZY200 2W)	,		0.63			
SC8-3	\$12.50								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	no	none	9	m2.5- 0.45x25mm/ 0.5 Nm (4.4 in lb)	0.10	none		
SC8-1 SC8-5	\$16.50 \$17.50			67	18 AWG	0.23			2	(1.11110)	0.10 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)			

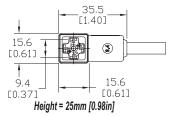
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]





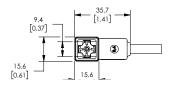
Connector with Cable

			9.4mr	n (3-p	ole)	Connect	(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	\$15.50	24 ±20%						zener diode	1		0.40	CSA (080128-0-000)	
SC9-LS24-5	\$18.50	24 ±20%	max 4A		18		yes	(D-Z DO-15 47V 2W)	ı	m3-0.5x26mm/ 0.4 Nm (3.5 in lb)	0.64		
SC9-LS110-3	\$19.00	110 ±10%						zener diode	7		0.40		
SC9-LS110-5	\$22.00	110 ± 10%		67	AWG	0.23		(D-Z DO-41 ZY200 2W)	'		0.64		
<u>SC9-3</u>	\$12.50						no			m3-0.5x26mm/	0.40		
<u>SC9-5</u>	\$17.50	230	max 6A					none	2	0.5 Nm (4.4 in lb)	0.64	none	

9.4mm Connectors

Dimensions shown mm [inches]

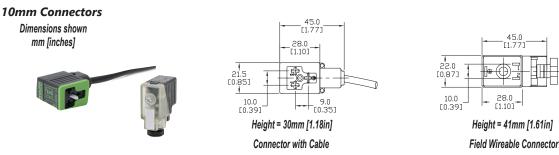




Height = 25mm [0.98in] Connector with Cable

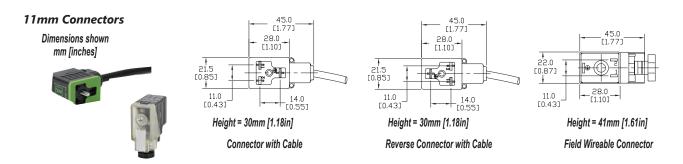
	9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval	
7000-94141-6270300	\$18.00	230 VAC/ VDC			10	5.6–6.2 mm	9.8ft/3m		none	8	m3- 0.5x26mm/ 0.4 Nm (3.5 in lb)	0.50	CSA	
<u>7000-94141-6270500</u>	\$24.00		max 6A	IP67	18 AWG		16.4ft/5m	no				0.79	(080128-0-000)/ RoHS	

Solenoid Valve Cables and Connectors



			10m	ım (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		Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval			
<u>SC10-LS24-3</u>	\$15.50	24 ±20%	may 1A					zener diode (D-Z DO-15 47V 2W)	10		0.43				
<u>SC10-LS24-5</u>	\$18.50		max 4A						10		0.68				
SC10-LS110-3	\$19.00	110 ±10%	440 - 400/	110 - 100/	110 - 100/		67	40.41410	0.23	yes	zener diode	6	m3-0.5x30mm/ 0.4 Nm	0.43	CSA (080128-0-
SC10-LS110-5	\$22.00		max 1A	07	18 AWG	0.23		(D-Z DO-41 ZY200 2W)	0	(3.5 in lb)	0.68	000)			
<u>SC10-3</u>	\$12.50	000	230	404						3		0.43			
<u>SC10-5</u>	\$17.50	230	max 10A				no	none	3		0.68				
SC10-LS24-0	\$12.50	24 ±20%	max 4A	65	Solid 12 AWG Stranded 14	field wireable		zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm	0.07	none			
<u>SC10-LS110-0</u>	\$14.00	110 ±10%	max 1A	05	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				

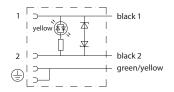
Last digit in part number denotes cable length in meters, a 0 indicates field termination.



			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 (lbs)	Agency Approval	
SC11-LS24-3	\$15.50	24 ±20%	max 4A					zener diode	10		0.44		
<u>SC11-LS24-5</u>	\$18.50	24 ±20 /0	IIIax 4A					(D-Z DO-15 47V 2W)	10		0.67		
<u>SC11-LS110-3</u>	\$19.00	110 ±10%	max 1A					zener diode (D-Z DO-41 ZY200	6		0.44		
<u>SC11-LS110-5</u>	\$22.00	110 ±10 /0	IIIax IA				VOC	(D-2 DO-41 21200 2W)	0		0.67		
<u>SC11-LS24-3R</u>	\$15.50	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode	10	m3-0.5x30mm/ 0.4 Nm	0.44	CSA	
<u>SC11-LS24-5R</u>	\$18.50	24 ±20%	.0 /0 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>	\$19.00	110 , 100/	±10% max 1A	may 1 A					zener diode (D-Z DO-41 ZY200	6		0.44	
<u>SC11-LS110-5R</u>	\$22.00	110 ±10 /6				_		(D-2 DO-41 21200 2W)	0		0.67		
<u>SC11-3</u>	\$12.50	230	max 10A				no	none	3		0.44		
<u>SC11-5</u>	\$17.50	230	IIIax IUA				no	Hone	3		0.67		
<u>SC11-LS24-0</u>	\$12.50	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>	\$14.00	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>	\$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



black 1 or brow
black 2 or blue
green/yellow

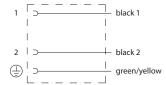


Figure No. 1

Figure No. 2

Figure No. 3

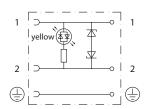


Figure No. 4

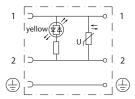


Figure No. 5

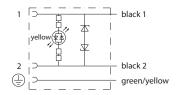


Figure No. 6

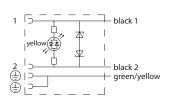


Figure No. 7



Figure No. 8

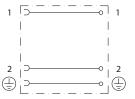


Figure No. 9

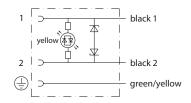


Figure No. 10