

Part No. DVP-2DC1D-24D

Valve Symbols

2-way, 2-pos, NC

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

CE ROHS

The Nitra DVP-2D and DVP-3D Series valves are composite body solenoid valves offered in both 2-way and 3-way normally closed styles in three orifice sizes. Features include a direct acting solenoid utilizing a long-life spring compensated poppet at the heart of an all stainless solenoid operator. Body construction is glass filled nylon with Viton seals, making the valves compatible with air, oil, inert gas, water and caustics*. Operating voltages of 24VDC, 24VAC or 120VAC are available.

Features

- 2-way and 3-way poppet style valves
- 1/8, 1/4 or 3/8" 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

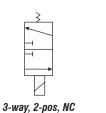
			Sorios So	Ionoid Va	lve Speci	fications						
		UVF-2U		ienoiu va	ive opeci							
Model	DVP-2DC1D-24D	DVP-2DC1D-24A	DVP-2DC1D-120A	DVP-2DC2E-24D	DVP-2DC2E-24A	DVP-2DC2E-120A	DVP-2DC3F-24D	DVP-2DC3F-24A	DVP-2DC3F-120A			
Price	\$;04sf:	\$04se:	\$04sd:	\$-04si:	\$04sh:	\$04sg:	\$-04sl:	\$04sk:	\$-04sj:			
Weight (lbs)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6			
Valve Type				2	2-way, 2-positio	n						
Acting		Poppet valve, normally closed, spring return Poppet valve, normally closed, spring return										
Port Size		1/8" FNPT			1/4" FNPT			3/8" FNPT				
Orifice Size		0.062" [1.6 mm] 0.094" [2.4 mm] 0.118" [3.0 mm]										
Cv		0.12 0.245 0.315										
Media				Air, oil, ir	ert gas, water,	caustics*						
Pressure Range				i0 psi .2 bar]			0–15 [0–10	i0 psi .3 bar]	0–250 psi [0–17.2 bar]			
<i>Voltage</i> (±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	-	26	VA	_	26	VA	-	26	SVA			
Power Consumption	10W	11.5	5 VA	10W	11.5	5 VA	10W	11.	5 VA			
Max Freq					25Hz							
Insulation				Class	F (continuous	duty)						
Min Response					16–40 ms							
Temperature				14°F to	122°F [-10°C 1	to 50°C]						
Lubrication					Not Required							
Protection					NEMA Type 4							
Connection				18	8mm DIN termir	nal						
Construction			Glass fi	lled nylon body	; Viton seals; O	perator Stainle	ss Steel					
Life Cycle					10 million							
Agency Approvals					CE							

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



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

Valve Symbols







3-way, 2-pos, Diverting

		DVP-3D	Series Sc	lenoid Va	lve Spec	ifications					
Model	DVP-3DC1D-24D	DVP-3DC1D-24A	DVP-3DC1D-120A	DVP-3DC2E-24D	DVP-3DC2E-24A	DVP-3DC2E-120 <u>A</u>	DVP-3DC3F-24D	DVP-3DC3F-24A	DVP-3DC3F-120A		
Price	\$;04p!:	\$04p#:	\$04ox:	\$04q0:	\$;04p,:	\$04p?:	\$04q3:	\$04q2:	\$04q1:		
Weight (lbs)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
Valve Type				3	8-way, 2-positio	n					
Acting				Poppet valve,	normally close	d, spring return					
Port Size		1/8" FNPT			1/4" FNPT			3/8" FNPT			
Orifice Size		0.062" [1.6 mm]		0.094" [2.4 mm]		0.118" [3.0 mm]		
Cv	0.12	(exhaust port	0.08)	0.24	5 (exhaust port	0.08)	0.315 (exhaust port 0.08)				
Media				Air, oil, ir	ert gas, water,						
Pressure Range		0–220 psi [0–15.2 bar]			!0 psi 3 bar]	1–150 psi [0–10.3 bar]	1–8 [0–5.	1–90 psi [0–6.2 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	-	26	VA	-	26	VA	-	26	5VA		
Power Consumption	10W	11.	5 VA	10W	11.5	5 VA	10W	11.	5 VA		
Max Freq					25Hz						
Insulation				Class	F (continuous	duty)					
Min Response					16–40 ms						
Temperature				14°F to	122°F [-10°C	to 50°C]					
Lubrication					Not Required						
Protection					NEMA Type 4						
Connection				18	8mm DIN termir	nal					
Construction			Gla	ass filled nylon	body; Viton sea	als; Operator Br	ass				
Life Cycle					10 million						
Agency Approvals					CE						

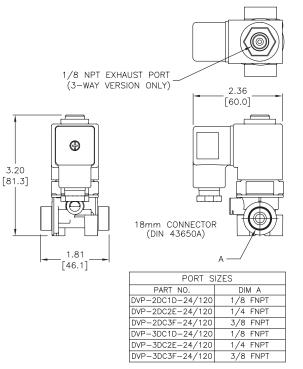
* Check the chemical compatibility of the valve materials with the process media being used.



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

Dimensions

inches [mm]



FNPT = FEMALE NATIONAL PIPE THREAD

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

Solenoid Valve Cables and Connectors



8mm Connectors

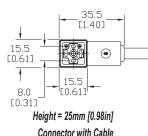


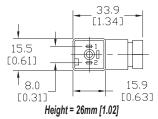


These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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





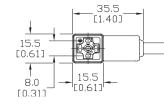
Field Wireable Connector

					•••							
				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 (Ibs)	Agency Approva
<u>SC8-LS24-3</u>	\$;04t2:	24 ±20%						zener diode	1	m2.5-	0.40	
<u>SC8-LS24-5</u>	\$;04t3:	24 ±20%	max 4A				yes	(D-Z DO-15 47V 2W)	I	0.45x25mm/ 0.4 Nm (3.5 in lb)	0.65	CSA (080128-0-000)
<u>SC8-LS110-3</u>	\$;04t0:	110 ±10%	max 4A	67	18 AWG	0.23		zener diode	7		0.41	
<u>SC8-LS110-5</u>	\$;04t1:	110 ± 10%						(D-Z DO-41 ZY200 2W)	1	(3.5 ITI D)	0.63	
<u>SC8-3</u>	\$;04s!:								2		0.39	
<u>SC8-0</u>	\$4s_:	230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	wireable gland size	no	none	9	m2.5- 0.45x25mm/ 0.5 Nm (4.4 in lb)	0.10	none
<u>SC8-1</u>	\$04s#:			67	18 AWG	0.22			2	(0.10	
<u>SC8-5</u>	\$04s?:			0/	TO 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.

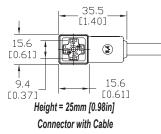


Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]



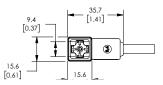


			9.4mn	n (3-p	ole)	Connect	ors	(DIN Style, Fo	rm C Ir	idustrial)					
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval			
<u>SC9-LS24-3</u>	\$;04t8:	24 ±20%						zener diode	1		0.40				
<u>SC9-LS24-5</u>	\$;04t9:	24 ±20%	max 4A					(D-Z DO-15 47V 2W)	I	m3-0.5x26mm/	0.64	CSA (080128-0-000)			
<u>SC9-LS110-3</u>	\$;04t6:	110 ±10%						18		yes	zener diode	7	(3.5 in lb)	0.40	CSA (000 120-0-000)
SC9-LS110-5	\$;04t7:	110 ± 10%		67	AŴG	0.23		(D-Z DO-41 ZY200 2W)	1	· · · ·	0.64				
<u>SC9-3</u>	\$;04t4:								•	m3-0.5x26mm/	0.40				
<u>SC9-5</u>	\$;04t5:	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

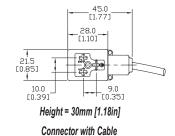
		9.4 n	nm (4-	pole)	Conn	nnectors (DIN Style, Form C Industrial)							
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
7000-94141-6270300	\$4p49:	220 1401			10	E C C O	9.8ft/3m				m3-	0.50	CSA
<u>7000-94141-6270500</u>	\$4p4a:	230 VAC/ VDC	max 6A	IP67	18 AWG	5.6–6.2 mm	16.4ft/5m	no	none	8	0.5x26mm/ 0.4 Nm (3.5 in lb)	0.79	(080128-0-000)/ RoHS

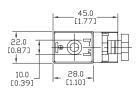
Solenoid Valve Cables and Connectors

10mm Connectors

Dimensions shown mm [inches]







Height = 41mm [1.61in] Field Wireable Connector

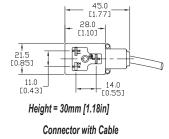
	10mm (3-pole) Connectors (per DIN 43650 Form B)														
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval			
<u>SC10-LS24-3</u>	\$04k9:	24 ±20%	max 4A					zener diode	10		0.43				
<u>SC10-LS24-5</u>	\$04ka:	24 ±20%	max 4A		18 AWG	0.23	yes	(D-Z DO-15 47V 2W)	10	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.68	CSA (080128-0- 000)			
<u>SC10-LS110-3</u>	\$04k7:	110 ±10%	max 4A	67				zener diode	6		0.43				
<u>SC10-LS110-5</u>	\$04k8:	110±10%		07		0.23		(D-Z DO-41 ZY200 2W)	0		0.68				
<u>SC10-3</u>	\$04k5:	230	max 10A]				2020	3		0.43				
<u>SC10-5</u>	\$04k6:	230	IIIax IUA				no	none			0.68				
<u>SC10-LS24-0</u>	\$043d:	24 ±20%	max 4A	65	Solid 12 AWG Stranded 14	field wireable		zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/ 0.5 Nm	0.07	2020			
<u>SC10-LS110-0</u>	\$043c:	110 ±10%	max 1A	05	AWG w/Ferrule 16 AWG	gland size 0.24 to 0.32	yes	mov (SIOV S10 K130)	5	(4.4 in lb)	0.07	none			

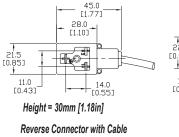
Last digit in part number denotes cable length in meters, a 0 indicates field termination.

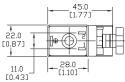
11mm Connectors

Dimensions shown mm [inches]









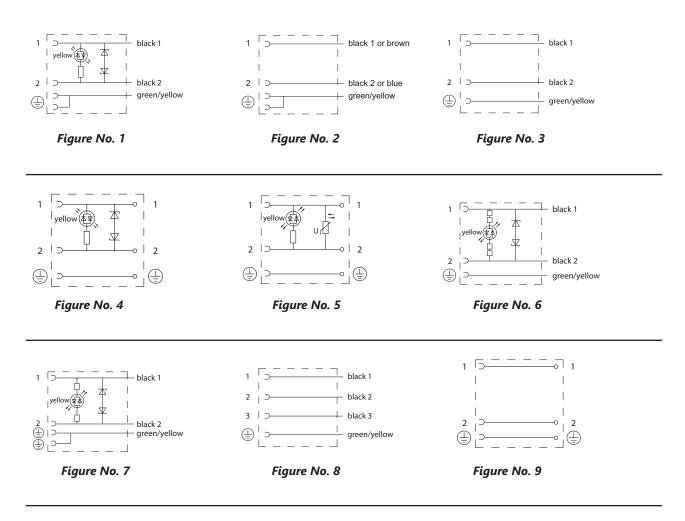
Height = 41mm [1.61in]

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>	\$04sy:	24.200/	may 14					zener diode	10		0.44	
<u>SC11-LS24-5</u>	\$;04s]:	24 ±20%	max 4A					(D-Z DO-15 47V 2W)	10		0.67	
<u>SC11-LS110-3</u>	\$04ss:	110 ±10%	may 14					zener diode	6		0.44	
<u>SC11-LS110-5</u>	\$04su:	$110 \pm 10\%$	max 4A				yes	(D-Z DO-41 ZY200 2W)	0	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.67	CSA
<u>SC11-LS24-3R</u>	\$04sz:	04 . 000/		67	18 AWG	0.00		zener diode	10		0.44	
<u>SC11-LS24-5R</u>	\$;04s[:	24 ±20%	max 4A		10 AWG	0.23		(D-Z DO-15 47V 2W)	10		0.67	(080128-0-000)
<u>SC11-LS110-3R</u>	\$;04st:	110 . 100/						zener diode	6		0.44	, , ,
<u>SC11-LS110-5R</u>	\$04sv:	110 ±10%	max 4A					(D-Z DO-41 ZY200 2W)	6		0.67	
<u>SC11-3</u>	\$04so:	230		1					3		0.44	
<u>SC11-5</u>	\$04sp:	230	max 10A				no	none	3		0.67	
<u>SC11-LS24-0</u>	\$04sx:	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>	\$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



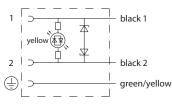


Figure No. 10