



Part No. DVP-2DC1D-24D

Valve Symbols



2-way, 2-pos, NC

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

(F 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

		DVP-2	D Series So	olenoid Val	ve Specific	ations						
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	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50			
Weight (lbs)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6			
Valve Type					2-way, 2-positior]						
Acting		Popj	oet valve, normall	ly closed, spring r	eturn		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, inert gas, water, caustics*											
Pressure Range				50 psi '.2 bar]			0—15 [0—10	0–250 psi [0–17.2 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	SVA	-	26	SVA			
Power Consumption	10W	11.	5 VA	10W	11.5	5 VA	10W	11.	5 VA			
Max Freq					25Hz							
Insulation				Clas	ss F (continuous o	duty)						
Min Response					16–40 ms							
Temperature				14°F t	o 122°F [-10°C to	o 50°C]						
Lubrication					Not Required							
Protection					NEMA Type 4							
Connection				-	8mm DIN termin	al						
Construction			Glas	ss filled nylon bo	dy; Viton seals; O	perator Stainless	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, NC

3-way, 2-pos, Mixing

3-way, 2-pos, Diverting

		DVP-3	D Series So	olenoid Val	ve Specific	ations							
Model	DVP-3DC1D-24D	DVP-3DC1D-24A	DVP-3DC1D-120A	DVP-3DC2E-24D	DVP-3DC2E-24A	DVP-3DC2E-120A	DVP-3DC3F-24D	DVP-3DC3F-24A	DVP-3DC3F-120A				
Price	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50	\$44.50				
Weight (lbs)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6				
Valve Type					3-way, 2-positior	1							
Acting				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	0.1	2 (exhaust port 0	.08)	0.24	45 (exhaust port C).08)	0.315 (exhaust port 0.08)						
Media				Air, oil,	inert gas, water, c	austics*							
Pressure Range		0–220 psi [0–15.2 bar]			20 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	İVA	-	26	6VA				
Power Consumption	10W	11.	5 VA	10W	11.	5 VA	10W	11.	5 VA				
Max Freq					25Hz								
Insulation				Clas	ss F (continuous (duty)							
Min Response					16—40 ms								
Temperature				14°F ti	o 122°F [-10°C to	50°C]							
Lubrication					Not Required								
Protection					NEMA Type 4								
Connection				1	8mm DIN termin	al							
Construction				Glass filled nylor	n body; Viton seal	s; Operator Brass							
Life Cycle					10 million								
Agency Approvals					CE								

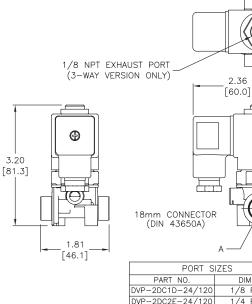
* Check the chemical compatibility of the valve materials with the process media being used.



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

Dimensions

inches [mm]



(DIN 43650A)	
PORT S	IZES
PART NO.	DIM A
DVP-2DC1D-24/120	1/8 FNPT
DVP-2DC2E-24/120	1/4 FNPT
DVP-2DC3F-24/120	3/8 FNPT
DVP-3DC1D-24/120	1/8 FNPT
DVP-3DC2E-24/120	1/4 FNPT
DVP-3DC3F-24/120	3/8 FNPT

FNPT = FEMALE NATIONAL PIPE THREAD

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

Solenoid Valve Cables and Connectors



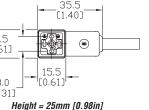
8mm Connectors

Dimensions shown mm [inches] 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.

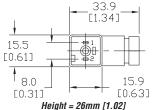
Features

- 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)





Connector with Cable



Field Wireable Connector

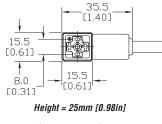
				8mm	(3-pole) Conr	ectors (p	er Di	N 43650 Form	C)				
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval	
SC8-LS24-3	\$12.00	24 ±20%						zener diode	1	m2.5-	0.40		
SC8-LS24-5	\$14.50	24 ±20 /0	max 4A		18 AWG	0.23	ves	(D-Z D0-15 47V 2W)	I	0.45x25mm/ 0.4 Nm	0.65	CSA (080128-0-000)	
SC8-LS110-3	\$15.00	110 ±10%	IIIdX 4A	67			ycs	zener diode	7		0.41		
SC8-LS110-5	\$17.50	110±10%						(D-Z D0-41 ZY200 2W)	1	(3.5 in lb)	0.63		
SC8-3	\$10.00								2		0.39		
SC8-0	\$5.50	230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG		no	none	9	m2.5- 0.45x25mm/ 0.5 Nm	0.10	none	
SC8-1	\$11.00			67	10 000	0.23			0	(4.4 in lb)	0.10		
SC8-5	\$13.50			0/	18 AWG	0.23			2		0.68	1	

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

8mm Transmitter Connector

Dimensions shown mm [inches]





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		
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)		

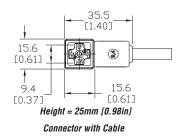
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]



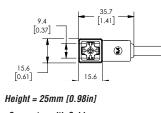


	9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)													
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval		
SC9-LS24-3	\$12.00	24 ±20%						zener diode	4		0.40			
SC9-LS24-5	\$14.50	24 ±20%	max 4A		18		yes	(D-Z D0-15 47V 2W)	I	m3-0.5x26mm/	0.64	CSA (080128-0-000)		
SC9-LS110-3	\$15.00	110 ±10%	max 4A					zener diode	7	0.4 Nm (3.5 in lb)	0.40			
SC9-LS110-5	\$17.50	110 ±10 %		67	AWG	0.23		(D-Z D0-41 ZY200 2W)	1	(0.0	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]





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		Surge Protection		Screw Size/ Torque	Weight (lbs)	Agency Approval	
7000-94141-6270300	\$14.00						9.8ft/3m				m3-0.5x26mm/	0.50	CSA	
7000-94141-6270500	\$19.00	230 VAC/ VDC	max 6A	IP67	18 AWG	5.6–6.2 mm	16.4ft/5m	no	none	8	0.4 Nm (3.5 in lb)	0.79	(080128-0-000)/ RoHS	

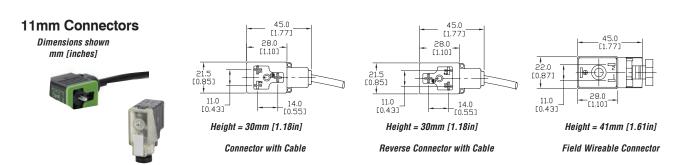
Agency Approval

Solenoid Valve Cables and Connectors

10mm Coni Dimensions sh mm [inches	nown	ors			-	45.0 [1.77] 	-			45.0 [1.77]	+
					21.5 [0.85] 10.0 [0.39]	9.0 [0.35			22.0 0.871 10.0 10.391	₽ 28.0 - 28.0 [1.10] -	
		1	NO		Height =	30mm [1.18	in]		h	leight = 41mm [1.61in]
					Connect	or with Cable	,		Fi	ield Wireable Co	nnector
				lOmm (3-pole) Con	nectors (per D	IN 43650 Form I	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)
SC10-LS24-3	\$12.00	04 000/	44					zener diode	10		0.43
0040 1004 5		24 ±20%	max 4A					(D 7 DO 15 474 9MA	10		

3610-L324-3	φ12.00	24 ±20%	max 4A					zener diode	10		0.45	
SC10-LS24-5	\$14.50	24 ±20 /0	IIIdX 4A					(D-Z D0-15 47V 2W)	10		0.68	
SC10-LS110-3	\$15.00	110.100/	mov 14	67	10 000	0.00	yes	zener diode	6	m3-0.5x30mm/	0.43	CSA
SC10-LS110-5	\$17.50	110 ±10%	max 1A	07	18 AWG	0.23		(D-Z D0-41 ZY200 2W)	6	0.4 Nm (3.5 in lb)	0.68	(080128-0-000)
SC10-3	\$10.00	230	max 10A				20	0000	2		0.43	
SC10-5	\$13.50	230	IIIdX IUA				no	none	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	none
SC10-0	\$8.25	230	max 10A		10,000		no	none	9		0.06	

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



			11 mi	n (3-po	le) Connecto	ors (DIN St	yle, I	Form B Indust	rial)			
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	\$12.00	24 ±20%	mov 44					zener diode	10		0.44	
SC11-LS24-5	\$14.50	24 ±20%	max 4A					(D-Z D0-15 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		18 AWG	0.23	yes	(D-Z D0-41 ZY200 2W)	0	m3-0.5x30mm/	0.67	
SC11-LS24-3R	\$12.00	24 +20%	max 4A	67				zener diode	10		0.44	CSA
SC11-LS24-5R	\$14.50	24 ±20 %	IIIdX 4A	0/				(D-Z D0-15 47V 2W)	10	0.4 Nm (3.5 in lb)	0.67	(080128-0-000)
SC11-LS110-3R	\$15.00	110 . 100/	mov 1A					zener diode	6	()	0.44	(,
SC11-LS110-5R	\$17.50	110 ±10%	max 1A					(D-Z D0-41 ZY200 2W)	0		0.67	
SC11-3	\$10.00	000	mov 104					2022	3		0.44	
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	65	Stranded 14 AWG w/Ferrule 16 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	

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

Solenoid Valve Cables and Connectors Wiring Diagrams

