



Process Pipeline Solenoid Valves

DVP-2C & DVP-3C Series



Part No. DVP-2CC1C-24A

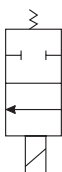
The NITRA™ DVP-2C and DVP-3C Series valves can be stacked into a multiple output bank of solenoid valves. The DVP-2C and 3C valves feature a fully encapsulated coil, spring compensated plunger seats for long life, and a miniature stackable composite valve body. The advantage to this design is the versatility to stock single units and build, mix, and match to meet specifications. In most cases these valves reduce inventory costs and lower installation costs over a conventional manifold valve series. The coils are available with DIN connectors installed.

Features

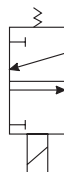
- 2-way and 3-way stackable poppet style valves
- 1/8" FNPT ports
- 2-position, normally closed, spring return
- 24VDC, 24VAC or 120VAC solenoids
- DIN style wiring connector



Valve Symbols



2-way, 2-pos, NC



3-way, 2-pos, NC

DVP-2C & DVP-3C Series Solenoid Valve Specifications						
Model	DVP-2CC1C-24D	DVP-2CC1C-24A	DVP-2CC1C-120A	DVP-3CC1C-24D	DVP-3CC1C-24A	DVP-3CC1C-120A
Price	\$21.50	\$21.50	\$21.50	\$21.50	\$21.50	\$21.50
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	Stackable poppet valve, normally closed, spring return					
Port Size	1/8" FNPT					
Orifice Size	0.6" [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 50/60 Hz	120VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz
Inrush AC	–	10VA		–	10VA	
Power Consumption	6.5 W	8.5 VA		6.5 W	8.5 VA	
Max Freq	71.4 Hz					
Insulation	Class F (continuous duty)					
Min Response	12–14 ms complete cycle					
Temperature	14°F to 122°F [-10°C to 50°C]					
Lubrication	Not required					
Protection	NEMA Type 4					
Connection	11mm DIN terminal					
Construction	Glass filled nylon body; Viton seals; Operator Brass					
Life Cycle	20 million					
Agency Approvals	CE					

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

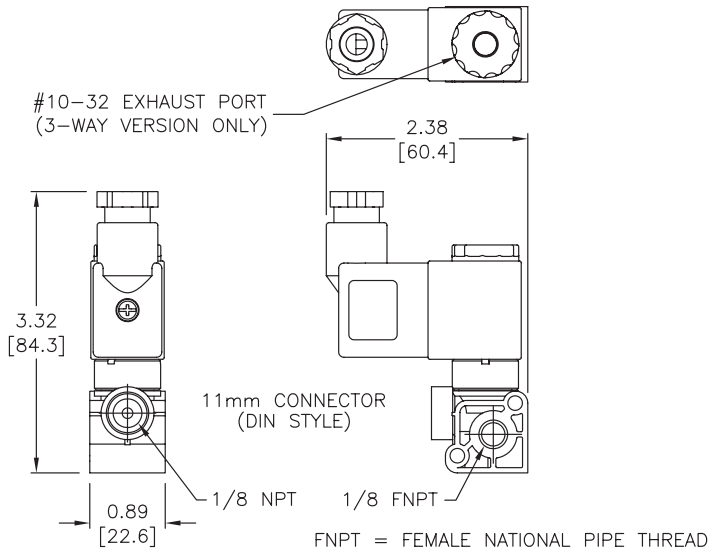


Process Pipeline Solenoid Valves

DVP-2C & DVP-3C Series

Dimensions

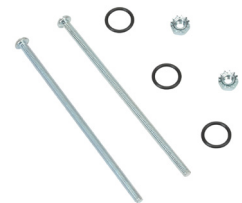
inches [mm]



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

Accessories

DVP-2C & DVP-3C Series Solenoid Valve Accessories			
Part No.	Description	Price	Weight (lbs)
DVP-2BKT	Mounting kit for DVP-2C & 3C series valves, 2 station. Includes (2) #8-32 x 2 inch screws, (2) #8 lock nuts and (1) Viton o-ring.	\$4.25	0.1
DVP-3BKT	Mounting kit for DVP-2C & 3C series valves, 3 station. Includes (2) #8-32 x 3 inch screws, (2) #8 lock nuts and (2) Viton o-rings.	\$5.75	0.1
DVP-4BKT	Mounting kit for DVP-2C & 3C series valves, 4 station. Includes (2) #8-32 x 4 inch screws, (2) #8 lock nuts and (3) Viton o-rings.	\$7.25	0.1
DVP-5BKT	Mounting kit for DVP-2C & 3C series valves, 5 station. Includes (2) #8-32 x 5 inch screws, (2) #8 lock nuts and (4) Viton o-rings.	\$8.75	0.1
DVP-6BKT	Mounting kit for DVP-2C & 3C series valves, 6 station. Includes (2) #8-32 x 6 inch screws, (2) #8 lock nuts and (5) Viton o-rings.	\$10.50	0.1



Part No. DVP-4BKT

Solenoid Valve Cables and Connectors



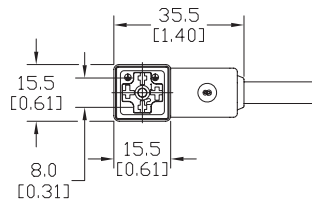
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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

Features

- 8mm, 9.4mm, 10mm, 11mm and 18mm square DIN styles
- 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)

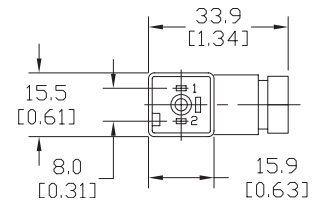
8mm Connectors

Dimensions shown
mm [inches]



Height = 25mm [0.98in]

Connector with Cable



Height = 26mm [1.02]

Field Wireable Connector

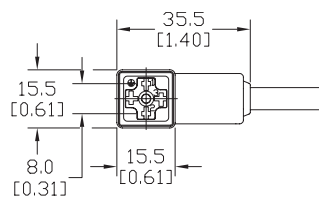
8mm (3-pole) Connectors (per DIN 43650 Form C)												
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/Torque	Weight (lbs)	Agency Approval
SC8-LS24-3	\$11.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2W)	1	m2.5-0.45x25mm/ 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)
SC8-LS24-5	\$13.00							zener diode (D-Z DO-15 47V 2W)	7		0.65	
SC8-LS110-3	\$13.50	110 ±10%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-41 ZY200 2W)	7	m2.5-0.45x25mm/ 0.5 Nm (4.4 in lb)	0.41	CSA (080128-0-000)
SC8-LS110-5	\$16.00							zener diode (D-Z DO-41 ZY200 2W)	7		0.63	
SC8-3	\$9.75	230	max 6A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	gland size 0.20 to 0.24	no	none	2	m2.5-0.45x25mm/ 0.5 Nm (4.4 in lb)	0.39	none
SC8-0	\$5.00								9		0.10	
SC8-1	\$9.75								9		0.10	
SC8-5	\$12.00								2		0.68	

Please note: The above parts are not compatible with the AVP and AVS series valves, which have 11mm DIN plugs.

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

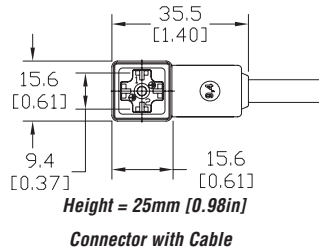
8mm (4-pole) Connectors (per DIN 43650 Form C)												
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/Torque	Weight (lbs)	Agency Approval
SC8-5T	\$17.00	230	max 6A	67	18 AWG	0.26	yes	none	8	m3-0.5x42mm/ 0.5 Nm (4.4 in lb)	0.80	CSA (080128-0-000)

Last 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]



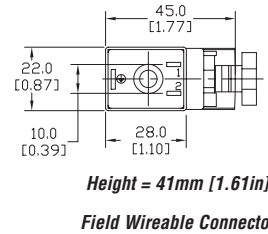
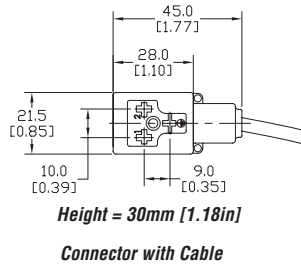
9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)

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	\$11.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2W)	1	m3-0.5x26mm/ 0.4 Nm (3.5 in lb)	0.40	CSA (080128-0-000)
SC9-LS24-5	\$13.00										0.64	
SC9-LS110-3	\$13.50	110 ±10%						zener diode (D-Z DO-41 ZY200 2W)	7		0.40	
SC9-LS110-5	\$16.00								0.64			
SC9-3	\$9.75	230	max 6A				no	none	2	m3-0.5x26mm/ 0.5 Nm (4.4 in lb)	0.40	none
SC9-5	\$12.00										0.64	

Please note: The above parts are not compatible with the AVP and AVS series valves, which have 11mm DIN plugs.
Last digit in part number denotes cable length in meters.

10mm Connectors

Dimensions shown
mm [inches]



10mm (3-pole) Connectors (per DIN 43650 Form B)

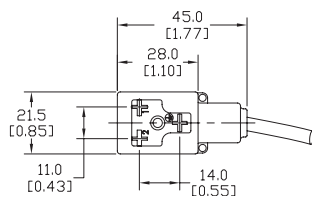
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval
SC10-LS24-3	\$11.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2W)	10	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.43	CSA (080128-0-000)
SC10-LS24-5	\$13.00										0.68	
SC10-LS110-3	\$13.50	110 ±10%	max 1A					zener diode (D-Z DO-41 ZY200 2W)	6		0.43	
SC10-LS110-5	\$16.00								0.68			
SC10-3	\$9.75	230	max 10A				no	none	3		0.43	
SC10-5	\$12.00											
SC10-LS24-0	\$9.50	24 ±20%	max 4A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	gland size 0.24 to 0.32	yes	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/ 0.5 Nm (4.4 in lb)	0.07	none
SC10-LS110-0	\$10.00	110 ±10%	max 1A					mov (SIOV S10 K130)	5		0.07	
SC10-0	\$7.50	230	max 10A				no	none	9		0.06	

Please note: The above parts are not compatible with the AVP and AVS series valves, which have 11mm DIN plugs.
Last digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

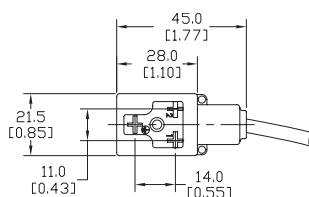
11mm Connectors

Dimensions shown
mm [inches]



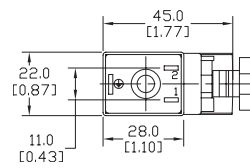
Height = 30mm [1.18in]

Connector with Cable



Height = 30mm [1.18in]

Reverse Connector with Cable



Height = 41mm [1.61in]

Field Wireable Connector

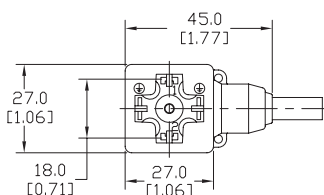
11mm (3-pole) Connectors (DIN Style, Form B Industrial)

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				
SC11-LS24-3	\$11.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2W)	10	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.44	CSA (080128-0-000)				
SC11-LS24-5	\$13.00										0.67					
SC11-LS110-3	\$13.50	110 ±10%	max 1A					zener diode (D-Z DO-41 ZY200 2W)	6		0.44					
SC11-LS110-5	\$16.00										0.67					
SC11-LS24-3R	\$11.00	24 ±20%	max 4A					zener diode (D-Z DO-15 47V 2W)	10		0.44					
SC11-LS24-5R	\$13.00										0.67					
SC11-LS110-3R	\$13.50	110 ±10%	max 1A				zener diode (D-Z DO-41 ZY200 2W)	6	0.44							
SC11-LS110-5R	\$16.00								0.67							
SC11-3	\$9.75	230	max 10A				65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	gland size 0.24 to 0.32		no		none	3	0.44	none
SC11-5	\$12.00														0.67	
SC11-LS24-0	\$9.50	24 ±20%	max 4A	yes	zener diode (D-Z DO-15 47V 2W)	4				0.07						
SC11-LS110-0	\$10.00	110 ±10%	max 1A		mov (SIOV S10 K130)	5				0.07						
SC11-0	\$7.50	230	max 10A		none	9				0.07						

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

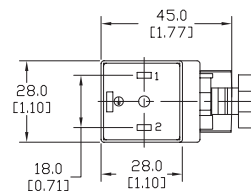
18mm Connectors

Dimensions shown
mm [inches]



Height = 30mm [1.18in]

Connector with Cable



Height = 41mm [1.61in]

Field Wireable Connector

18mm (3-pole) Connectors (per DIN 43650 Form A)

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	
SC18-LS24-3	\$11.00	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode (D-Z DO-15 47V 2W)	7	m3-0.5x30mm/ 0.4 Nm (3.5 in lb)	0.44	CSA (080128-0-000)	
SC18-LS24-5	\$13.00										0.69		
SC18-LS110-3	\$13.50	110 ±10%	max 1A					zener diode (D-Z DO-41 ZY200 2W)					0.44
SC18-LS110-5	\$16.00										0.69		
SC18-3	\$9.75	230	max 10A				no	none	2		0.44		
SC18-5	\$12.00										0.69		
SC18-LS24-0	\$9.50	24 ±20%	max 4A	65	Solid 12 AWG Stranded 14 AWG w/Ferrule 16 AWG	gland size 0.24 to 0.32	yes	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/ 0.5 Nm (4.4 in lb)	0.07	none	
SC18-LS110-0	\$10.00	110 ±10%	max 1A					mov (SIOV S10 K130)	5		0.07		
SC18-0	\$7.50	230	max 10A				no	none	9		0.07		

Please note: The above parts are not compatible with the AVP and AVS series valves, which have 11mm DIN plugs.

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

Solenoid Valve Cables and Connectors Wiring Diagrams

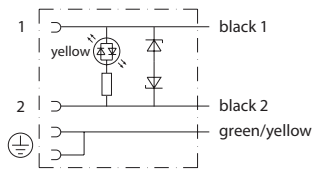


Figure No. 1

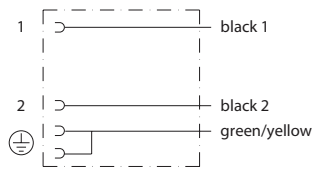


Figure No. 2

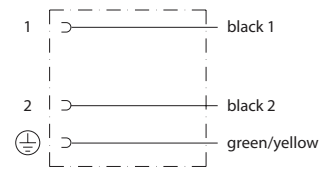


Figure No. 3

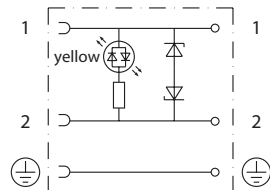


Figure No. 4

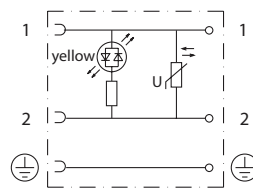


Figure No. 5

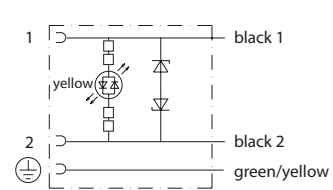


Figure No. 6

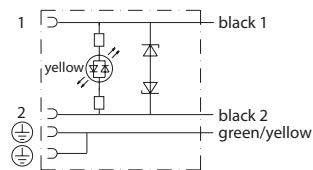


Figure No. 7

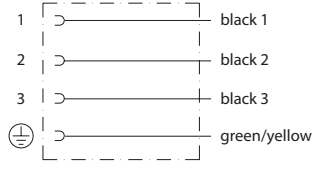


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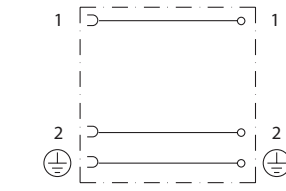


Figure No. 9

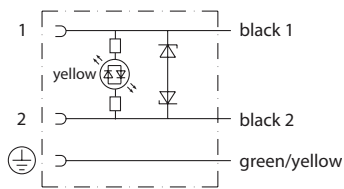


Figure No. 10