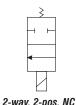


Process Pipeline Solenoid Valves DVM-2B Series



Part No. DVM-2BC2E-24D

Valve Symbols



separated, dry operator, 2-way, 2-position solenoid operated valves for use with gases or fluids where the metal working components of the valves do not come into contact with the working fluid. Three orifice

The Nitra DVM-2B Series valves are media

sizes are offered. Body construction is glass filled nylon with Viton seals, making the valves compatible with air, gases, water and chemicals. Operating voltages of 24VDC, 24VAC or 120VAC are available.

Features

- 2-way media separated diaphragm style valve
- 1/8 or 1/4" FNPT ports
- 2-position, normally closed, spring return
- 24VDC, 24VAC or 120VAC solenoids

• DIN style wiring connector





CE KOHS

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

2-way, 2-pos, N	l C				•	2002/95/EC			
		DVM-2B	Series S	olenoid V	alve Spec	ifications	S		
Model	DVM-2BC1B-24D DVM-2BC1B-24A		DVM-2BC1B-120A	DVM-2BC2E-24D	DVM-2BC2E-24A	DVM-2BC2E-120A	DVM-2BC2G-24D	DVM-2BC2G-24A	DVM-2BC2G-120A
Price	\$04o3:	\$04o2:	\$04o1:	\$0406:	\$04o5:	\$0404:	\$04o9:	\$0408:	\$04o7:
Weight (lbs)	0.2	0.2	0.2	0.6	0.6	0.6	0.6	0.6	0.6
Valve Type					2-way, 2-position	on			
Acting			Me	dia separated v	alve, normally	closed, spring	return		
Port Size		1/8" FNPT				1/4"	FNPT		
Orifice Size		0.047" [1.2 mm]		0.094" [2.4 mm]		0.157" [4.0 mn	1]
Cv		0.065			0.24			0.52	
Media	Water,	chemicals, air	gases		Air, nobl	e gases, oils, r	nedical fluid ap	plications*	
Pressure Range		0 to 120 psi [0 to 8.3 bar]		15" Hg (mercury) to 120psi [-0.5 to 8.3 bar]	15" Hg (merc [-0.5 to	ury) to 120psi 8.3 bar]	15" Hg (mercury) to 45psi [-0.5 to 3.1 bar]	15" Hg (mercury) to 45psi [-0.5 to 3.1 bar]	15" Hg (mercury) to 55psi [-0.5 to 3.8 bar]
Maximum Allowable Back Pressure				20ps	i regardless of	voltage			
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	VA	-	10.5	5 VA	-	26	6VA
Power Consumption	6.5 W	8.5	VA	10W	9\	/A	10W	9	VA
Max Freq		40Hz				38	.5 Hz		
Insulation				Clas	s F (continuous	• /			
Min Response		5 ms complete					omplete cycle		
Temperature	14°F to	131°F [-10°C	to 55°C]			14°F to 122°F	[-10°C to 50°C	[]	
Lubrication					Not required				
Protection				1	NEMA Type 4				
Connection	11	mm DIN termin					IN terminal		
Construction			Glass fille	d nylon body; V		stainless steel	inlet strainer		
Life Cycle					10 million				
* Check the chemical commetibility	6. af tha walva m	atarialaith tha		hainn waad	CE				

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



Process Pipeline Solenoid Valves DVM-2B Series

	DVM-2	B Series Sole	noid Valve S	pecifications		
Model	DVM-2BC3E-24D	DVM-2BC3E-24A	DVM-2BC3E-120 <u>A</u>	DVM-2BC3G-24D	DVM-2BC3G-24A	DVM-2BC3G-120A
Price	\$04oc:	\$04ob:	\$04oa:	\$;04of:	\$04oe:	\$04od:
Weight (lbs)	0.6	0.6	0.6	0.6	0.6	0.6
Valve Type			Media sepa	arated valve		
Acting		2-	way, 2-position, norm	ally closed, spring retu	ırn	
Port Size			3/8"	FNPT		
Orifice Size		0.094" [2.4 mm]			0.157" [4.0 mm]	
Cv		0.24			0.52	
Fluid		Ai	r, noble gases, oils, m	edical fluid application	ns*	
Pressure Range	15" vacuum to 120psi [0.04–8.3 bar]	15" vacuur [0.04–	m to 120psi 3.3 bar]	15" vacuum to 45psi [0.04–3.1 bar]	15" vacuum to 55psi [0.04–3.8 bar]	15" vacuum to 45psi [0.04–3.1 bar]
Maximum Allowable Back Pressure			20psi regardl	ess of voltage		
Voltage (±10%)	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz
Inrush AC	_	26	VA	_	26	VA
Power Consumption	10W	11.	5 VA	10W	11.5	i VA
Max Freq			38.	5 Hz		
Insulation			Class F (con	tinuous duty)		
Min Response				omplete cycle		
Temperature			14°F to 122°F	[-10°C to 50°C]		
Lubrication				equired		
Protection				Type 4		
Connection				N terminal		
Construction		Glass filled	· · · · · · · · · · · · · · · · · · ·	ls; 302 stainless steel	inlet strainer	
Life Cycle			10 n	nillion		
Agency Approvals			C	E		

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

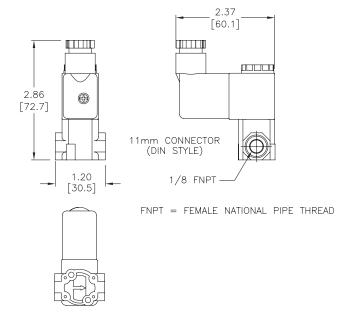


Process Pipeline Solenoid Valves DVM-2B Series

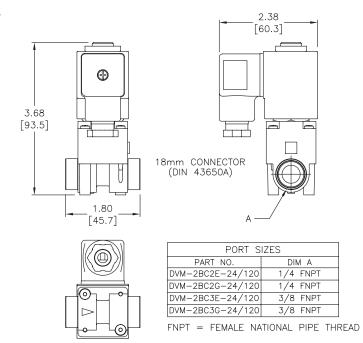
Dimensions

inches [mm]

DVM-2BC1B-XX



DVM-2BCXX



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

8mm Connectors

Dimensions shown mm [inches]

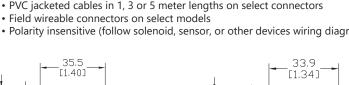
Solenoid Valve Cables and Connectors

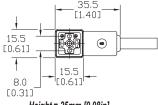


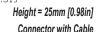
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are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

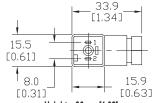
Features

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









Height = 26mm [1.02] Field Wireable Connector

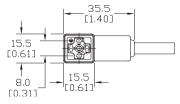
							THOUSING COMMONIC	•							
	8mm (3-pole) Connectors (per DIN 43650 Form C)														
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia. (in.)	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval			
SC8-LS24-3	\$;04t2:	24 ±20%						zener diode	1	m2.5-	0.40				
SC8-LS24-5	\$;04t3:	Z4 ±ZU /0	max 4A				yes	(D-Z DO-15 47V 2W)	'	0.45x25mm/	0.65	CSA (080128-0-000)			
SC8-LS110-3	\$;04t0:	110 ±10%		67	18 AWG	0.23	yes	zener diode	7	0.4 Nm (3.5 in lb)	0.41				
SC8-LS110-5	\$;04t1:	110 ± 10 /0						(D-Z DO-41 ZY200 2W)	1	(3.5 III ID)	0.63				
SC8-3	\$;04s!:								2		0.39				
<u>SC8-0</u>	\$4s_:	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			
<u>SC8-1</u>	\$04s#:			67	18 AWG	0.23			2	()	0.10				
SC8-5	\$04s?:			07	10 AWG	0.23					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)			

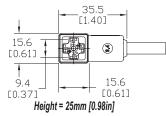
Last numeric digit in part number denotes cable length in meters, a 0 indicates field termination.

Solenoid Valve Cables and Connectors

9.4mm Connectors

Dimensions shown mm [inches]





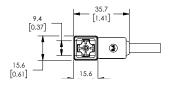
Connector with Cable

			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	\$;04t8:	24 ±20%						zener diode	1		0.40		
SC9-LS24-5	\$;04t9:	24 ±20%	max 4A				yes	(D-Z DO-15 47V 2W)	'	m3-0.5x26mm/ 0.4 Nm	0.64	CSA (080128-0-000)	
SC9-LS110-3	\$;04t6:	110 ±10%			18			zener diode	7	(3.5 in lb)	0.40	CSA (000 120-0-000)	
SC9-LS110-5	\$;04t7:	110 ± 10%		67	AWG	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]

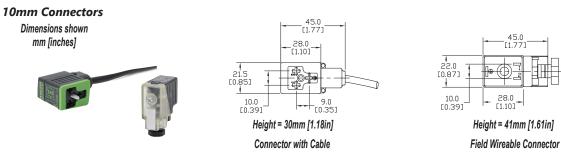




Height = 25mm [0.98in] Connector with Cable

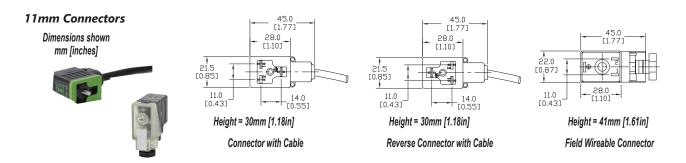
	9.4mm (4-pole) Connectors (DIN Style, Form C Industrial)														
Part No.	Price	Voltage (AC/DC)	Current Rating	IP Rating	Wire Size	Cable Dia.	Cable Length	LED	Surge Protection	Wiring Figure	Screw Size/ Torque	Weight (lbs)	Agency Approval		
7000-94141-6270300	\$4p49:	230 VAC/			10	F G G O	9.8ft/3m				m3- 0.5x26mm/	0.50	CSA		
<u>7000-94141-6270500</u>	\$4p4a:	VDC	max 6A	IP67	18 AWG	5.6–6.2 mm	16.4ft/5m	no	none	8	0.5x26fffff/ 0.4 Nm (3.5 in lb)	0.79	(080128-0-000)/ RoHS		

Solenoid Valve Cables and Connectors



	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	\$04k9:	24 ±20%	may 1A					zener diode	10		0.43				
SC10-LS24-5	\$04ka:	24 ±20%	max 4A					(D-Z DO-15 47V 2W)	10		0.68				
<u>SC10-LS110-3</u>	\$04k7:	110 ±10%	440 - 400/ 4	max 4A	67	18 AWG	0.23	yes	zener diode	6	m3-0.5x30mm/ 0.4 Nm	0.43	CSA (080128-0-		
SC10-LS110-5	\$04k8:	110 ± 10%	70 IIIax 4A	07	10 AVVG	0.23		(D-Z DO-41 ZY200 2W)	0	(3.5 in lb)	0.68	000)			
SC10-3	\$04k5:	000	230 max 10A	max 10A						3		0.43			
<u>SC10-5</u>	\$04k6:	230	max TUA				no	none	3		0.68				
SC10-LS24-0	\$043d:	24 ±20%		0.5	Solid 12 AWG Stranded 14	field wireable gland size 0.24 to 0.32	V00	zener diode (D-Z DO-15 47V 2W)	4	m3-0.5x42mm/	0.07	nono			
<u>SC10-LS110-0</u>	\$043c:	110 ±10%		65	AWG w/Ferrule 16 AWG		yes	mov (SIOV S10 K130)	5	(4.4 in lb)	0.07	none			

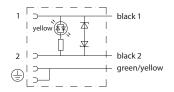
Last digit in part number denotes cable length in meters, a 0 indicates field termination.



			11mm	(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	\$04sy:	24 ±20%	max 4A					zener diode	10		0.44	
<u>SC11-LS24-5</u>	\$;04s]:	24 ±20 /0	IIIax 4A					(D-Z DO-15 47V 2W)	10		0.67	
<u>SC11-LS110-3</u>	\$04ss:	110 ±10%	max 4A					zener diode (D-Z DO-41 ZY200	6		0.44	
<u>SC11-LS110-5</u>	\$04su:	110 ±10 /6	IIIax 4A				V00	(D-2 DO-41 21200 2W)	0		0.67	
<u>SC11-LS24-3R</u>	\$04sz:	24 ±20%	max 4A	67	18 AWG	0.23	yes	zener diode	10	m3-0.5x30mm/ 0.4 Nm	0.44	CSA
SC11-LS24-5R	\$;04s[:	24 ±20 %	IIIdX 4A	07	10 AWG	0.23		(D-Z DO-15 47V 2W)	10	(3.5 in lb)	0.67	(080128-0-000)
<u>SC11-LS110-3R</u>	\$;04st:	110 ±10%	max 4A					zener diode (D-Z DO-41 ZY200	6		0.44	,
<u>SC11-LS110-5R</u>	\$04sv:	110 ± 10%	IIIdX 4A					2W)	0		0.67	
<u>SC11-3</u>	\$04so:	230	max 10A				no	nono	3		0.44	
<u>SC11-5</u>	\$04sp:	230	IIIax IUA				no	none	3		0.67	
SC11-LS24-0	\$04sx:	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>	\$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



black 1 or brow
black 2 or blue
green/yellow

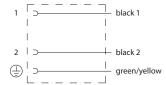


Figure No. 1

Figure No. 2

Figure No. 3

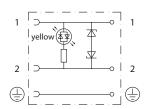


Figure No. 4

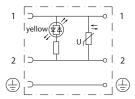


Figure No. 5

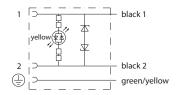


Figure No. 6

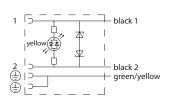


Figure No. 7



Figure No. 8

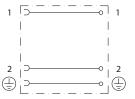


Figure No. 9

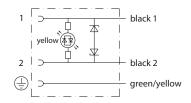


Figure No. 10