

# Pneumatic Directional Control Solenoid Valves – BVS-3 Series





BVS Series Solenoid with Leads

BVS Series Solenoid with DIN 43650 Form C

# 2-position, normally open or normally closed configurations. Most models have removable flying leads that can be used with BVM series manifolds. Two models are available with an 8 mm Micro DIN connector. Units are only DIN rail mountable when used with BVM series manifolds.

NITRA pneumatic BVS-3 series modular solenoid valves are body ported 3-port (3-way) poppet valves available in

#### **Features**

- Body ported, 3-port (3-way) poppet valves
- 5/32" (4mm) push-to-connect ports
- Flow coefficients (Cv) from 0.02 to 0.05
- 2-position, single solenoid spring return
- Normally open or normally closed
- 12VDC, 24VDC or 120VAC solenoid coils with LED status indication & surge suppression diode
- Flying leads or 8mm DIN connection
- Pushbutton manual operator
- 2-year warranty



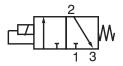
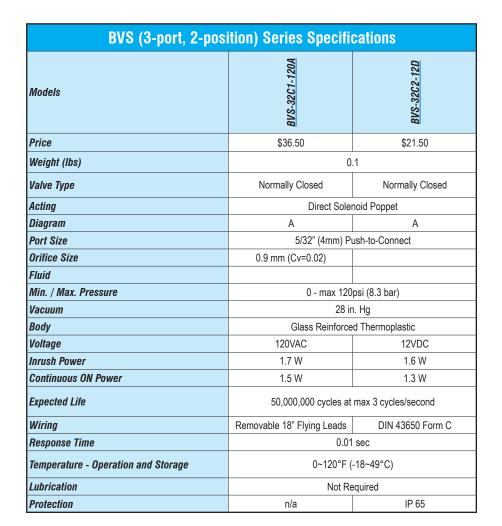




Diagram A 3/2 NC

Diagram B 3/2 NO







# Pneumatic Directional Control Solenoid Valves – BVS-3 Series Low Current





**BVS Series Solenoid with Leads** 

BVS Series Solenoid with DIN 43650 Form C

### Features

- Body ported, 3-port (3-way) poppet valves
- 5/32" (4mm) push-to-connect ports
- Flow coefficients (Cv) of 0.02

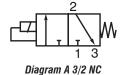
with BVM series manifolds.

- 2-position, single solenoid spring return
- Normally open or normally closed
- 3VDC, 5VDC, 12VDC or 24VDC solenoid coils with LED status indication & surge suppression diode

NITRA pneumatic BVS-3 series modular solenoid valves are body ported 3-port (3-way) poppet valves available in 2-position, normally open or normally closed configurations. Most models have removable flying leads that can be used with BVM series manifolds. Four models are available with an 8 mm Micro DIN connector. Units are only DIN rail mountable when used

- Flying leads or 8mm DIN connection
- Pushbutton manual operator
- 2-year warranty





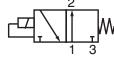
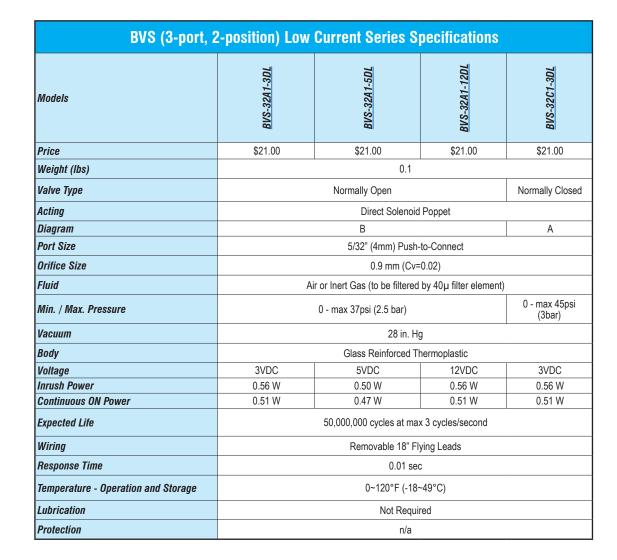


Diagram B 3/2 NO







### PNEUMATICS Pneumatic Directional Contractions Valves – BVS-3 Series Low Current **Pneumatic Directional Control Solenoid**

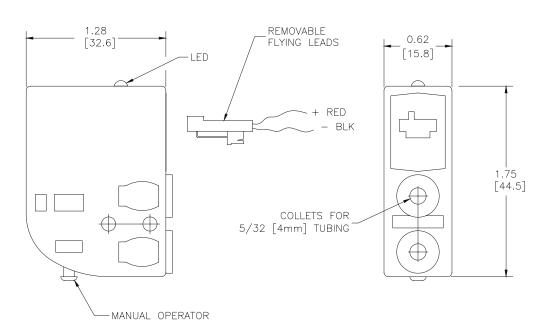
	BVS (3-port,	2-position) Lo	ow Current	Series Spe	cifications		
Models	BVS-32A2-3DL	BVS-32A2-5DL	BVS-32A2-12DL	BVS-32A2-24DL	BVS-32C2-3DL	BVS-32C2-5DL	BVS-32C2-12D <u>L</u>
Price	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00
Weight (lbs)	0.1						
Valve Type	Normally Open Normally Closed						
Acting	Direct Solenoid Poppet						
Diagram	В А						
Port Size	5/32" (4mm) Push-to-Connect						
Orifice Size	0.9 mm (Cv=0.02)						
Fluid	Air or Inert Gas (to be filtered by 40μ filter element)						
Min. / Max. Pressure	0 - max 37psi (2.5 bar) 0 - max 45psi (3bar)						
Vacuum	28 in. Hg						
Body	Glass Reinforced Thermoplastic						
Voltage	3VDC	5VDC	12VDC	24VDC	3VDC	5VDC	12VDC
Inrush Power	0.56 W	0.50 W	0.56 W	0.53 W	0.56 W	0.50 W	0.56 W
Continuous ON Power	0.51 W	0.47 W	0.51 W	0.49 W	0.51 W	0.47 W	0.51 W
Expected Life	50,000,000 cycles at max 3 cycles/second						
Wiring	DIN 43650 Form C						
Response Time	0.01 sec						
Temperature - Operation and Storage	0~120°F (-18~49°C)						
Lubrication	Not Required						
Protection	IP 65						



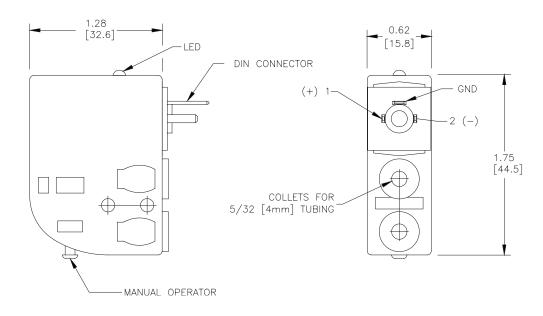
# Pneumatic Directional Control Solenoid Valves – BVS-3 Series Dimensions

#### **Dimensions**

inches [mm]



BVS w/Removable Leads



BVS w/DIN 43650 Form C

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



# Manifolds for Modular Solenoid Valves – BVM-3 Series



BVM - 4-Station

NITRA pneumatic BVM-3 series modular manifolds simplify the mounting and wiring of BVS-3 series solenoid valves\*. Made of sturdy glass reinforced thermoplastic with DIN rail mounting clips included, they are available in 4 and 8-station models. Pushto-connect inlet and out connections and a 9-pin D-sub connector allow quick and easy tubing and wiring.

#### **Features**

- No tools required to install/remove valves
- 2, 3, 4 or 8-station manifolds available
- 6mm or 1/4" tube inlets
- 35mm DIN rail mounting clips included
- 9-pin D-sub connector for easy wiring
- · 2-year warranty



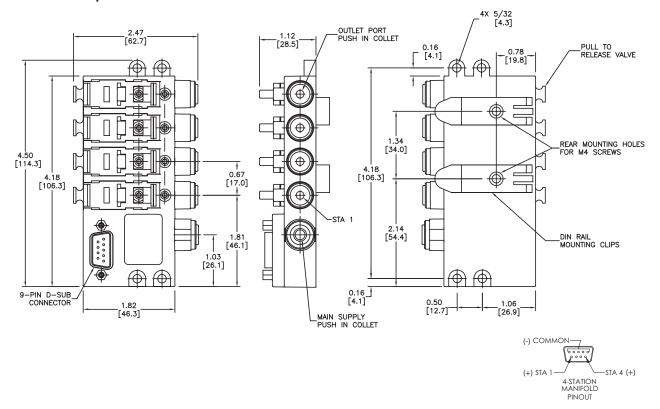
BVM Series Manifolds						
Part No.	Stations	Inlet	Outlet	Connection	Price	Weight (lbs)
BVM-346M	4	6mm	5/32" (4mm)	9-pin D-sub	Retired	0.3

<sup>\*</sup> Works with BVS series valves with flying leads ONLY. Does not accept DIN connector valves

### **Dimensions**

inches [mm]

#### 4-Station Manifold



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



### **Pneumatic Directional Control Solenoid** PNEUMATICS Valves – BVS Series - Accessories

### **Accessories**

BVM Series Manifold Accessories					
Part No.	Description	Price	Weight (lbs)		
ZL-DB9F-CBL-2P	<b>ZIP</b> Link pigtail cable with 9-pin D-sub female connector, 28AWG, 2.0 meter (6.6 ft) length	\$12.00	0.3		
ZL-DB9F-CBL-5P	<b>ZIP</b> Link pigtail cable with 9-pin D-sub female connector, 28AWG, 5.0 meter (16.4 ft) length	\$22.50	0.5		

#### ZL-DB9F-CBL-xP Pinout



pin out

P1	P2	for BVM Series	for BVM Series
		4-station man	8-station man
1	black	N/A	station 4
2	brown	N/A	station 3
3	red	N/A	station 2
4	orange-	N/A	station 1
5	yellow	common	common
6	green	station 1	station 5
7	blue	station 2	station 6
8	violet	station 3	station 7
9	grey	station 4	station 8



ZL-DB9F-CBL-xP





Note: Manifold must have a BVS valve (flying leads ONLY)



See solenoid valve cables and connectors section