



# Pneumatic Directional Control Solenoid Valves – BVS-4 Series



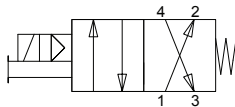
**BVS Series Solenoid with Leads**    **BVS Series Solenoid with DIN 43650 Form C**

NITRA pneumatic BVS-4 series modular solenoid valves are body ported 4-port (4-way) spool valve models have removable flying leads or an 8 mm Micro DIN connector. Units are only DIN rail mountable when used with BVM series manifolds.

## Features

- Body ported, 4-port (4-way) spool valves
- 1/4" (6mm) push-to-connect ports
- Flow coefficients (Cv) 0.8
- 2-position, single solenoid spring return
- 12VDC, 24VDC, 24VAC or 120VAC solenoid coils with LED status indication & surge suppression diode
- Flying leads or 8mm DIN connection
- Pushbutton manual operator
- 2-year warranty

## Valve Symbol



### BVS (4-port, 2-position) 4 Series Specifications

Model	BVS-4251-12D	BVS-4252-12D	BVS-4251-24D	BVS-4252-24D	BVS-4251-24A	BVS-4252-24A	BVS-4251-120A	BVS-4252-120A
<b>Price</b>	\$46.00	\$48.00	\$46.00	\$48.00	\$48.00	\$51.00	\$47.00	\$51.00
<b>Weight (lbs)</b>	0.2							
<b>Acting</b>	Spool (2-Position)							
<b>Port Size</b>	1/4" Push-to-Connect							
<b>Orifice Size</b>	0.2" [5.0 mm] (Cv = 0.8)							
<b>Fluid</b>	Air or Inert Gas (to be filtered by 40µ filter element)							
<b>Min. / Max. Pressure</b>	30psi (2bar) - 120psi (8.3 bar)							
<b>Vacuum</b>	Air pilot models can be used in vacuum applications with external air signal to pilot ports.							
<b>Body</b>	Glass Reinforced Thermoplastic							
<b>Voltage</b>	12VDC		24VDC		24VAC		120VAC	
<b>Inrush Power</b>	1.6 W		1.4 W		1.4 VA		1.7 VA	
<b>Continuous ON Power</b>	1.3 W		1.2 W		1.2 VA		1.5 VA	
<b>Expected Life</b>	20,000,000 cycles at max 3 cycles/second							
<b>Wiring</b>	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C
<b>Response Time</b>	0.016 sec							
<b>Temperature - Operation and Storage</b>	0~120°F (-18~49°C)							
<b>Lubrication</b>	Not Required							
<b>Protection</b>	IP 65							



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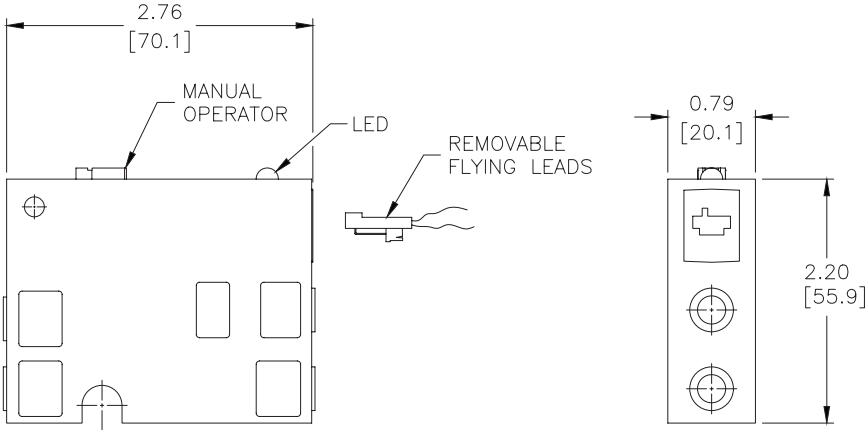
BVS (4-port, 2-position) 4 Series Specifications								
Model	BVS-46M1-12D	BVS-46M2-12D	BVS-46M1-24D	BVS-46M2-24D	BVS-46M1-24A	BVS-46M2-24A	BVS-46M1-120A	BVS-46M2-120A
<b>Price</b>	\$46.00	\$48.00	\$46.00	\$48.00	\$49.00	\$51.00	\$47.00	\$51.00
<b>Weight (lbs)</b>	0.2							
<b>Acting</b>	Spool (2-Position)							
<b>Port Size</b>	6mm Push-to-Connect							
<b>Orifice Size</b>	0.2" [5.0 mm] (Cv = 0.8)							
<b>Fluid</b>	Air or Inert Gas (to be filtered by 40µ filter element)							
<b>Min. / Max. Pressure</b>	30psi (2bar) - 120psi (8.3 bar)							
<b>Vacuum</b>	Air pilot models can be used in vacuum applications with external air signal to pilot ports.							
<b>Body</b>	Glass Reinforced Thermoplastic							
<b>Voltage</b>	12VDC		24VDC		24VAC		120VAC	
<b>Inrush Power</b>	1.6 W		1.4 W		1.4 VA		1.7 VA	
<b>Continuous ON Power</b>	1.3 W		1.2 W		1.2 VA		1.5 VA	
<b>Expected Life</b>	20,000,000 cycles at max 3 cycles/second							
<b>Wiring</b>	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C	Removable 18" Flying Leads	DIN 43650 Form C
<b>Response Time</b>	0.016 sec							
<b>Temperature - Operation and Storage</b>	0-120°F (-18-49°C)							
<b>Lubrication</b>	Not Required							
<b>Protection</b>	IP 65							



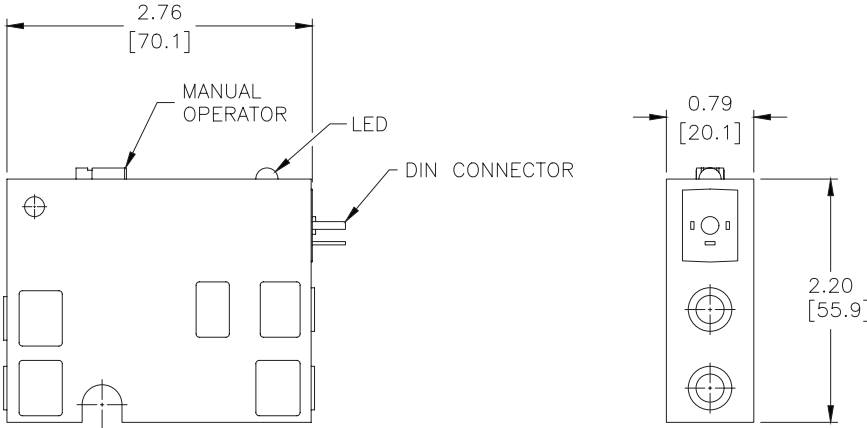
# Pneumatic Directional Control Solenoid Valves – BVS-4 Series

## Dimensions

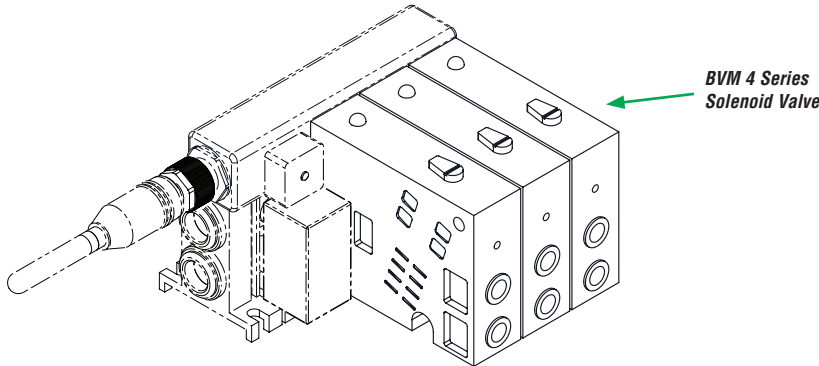
inches [mm]



**BVS 4 Series w/Removable Leads**



**BVS 4 Series w/DIN 43650 Form C**



See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# Manifolds for Modular Solenoid Valves – BVM-4 Series



**BVM - 2-Station**



**BVM - 3-Station**



**BVM - 4-Station**

NITRA pneumatic BVM-4 series modular manifolds simplify the mounting of BVS-4 series solenoid valves. Made of sturdy glass reinforced thermoplastic with DIN rail mounting clips included, they are available in 2, 3 and 4-station models. Push-to-connect inlet and outlet ports allow quick and easy tubing connections.

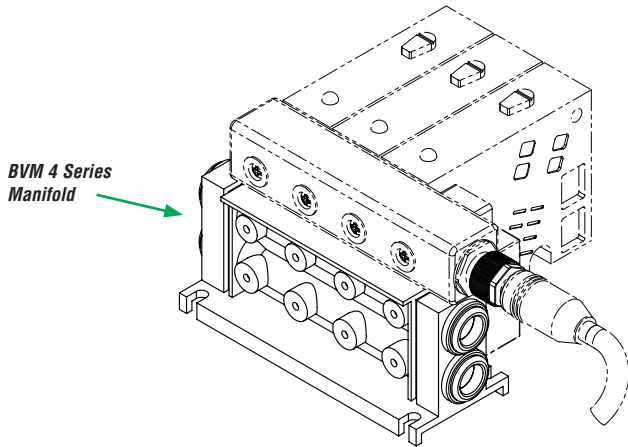
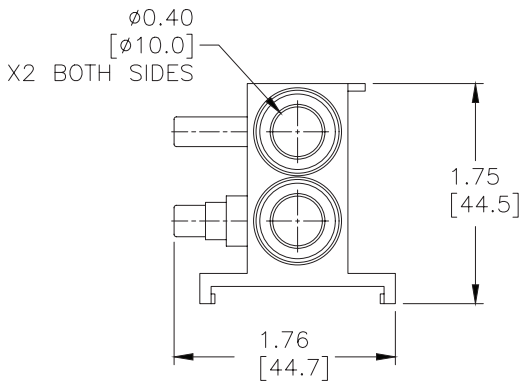
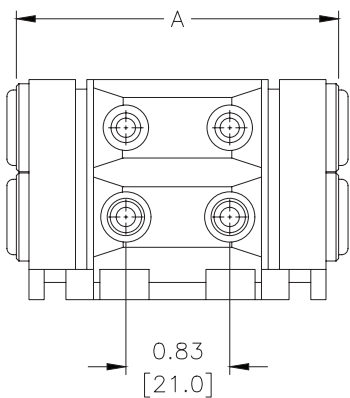
### Features

- No tools required to install/remove valves
- 2, 3 or 4-station manifolds available
- 3/8" or 10mm tube inlets and outlets
- 35 mm DIN rail mounting clips included
- 2-year warranty

BVM Series Manifolds						
Part No.	Stations	Inlet	Outlet	Dimension "A" in [mm]	Price	Weight (lbs)
<b>BVM-4225</b>	2	3/8"	3/8"	2.71 [68.9]	\$22.00	0.3
<b>BVM-426M</b>	2	10mm	10mm		\$22.00	0.3
<b>BVM-4325</b>	3	3/8"	3/8"	3.54 [89.9]	\$24.00	0.3
<b>BVM-436M</b>	3	10mm	10mm		\$24.00	0.3
<b>BVM-4425</b>	4	3/8"	3/8"	4.37 [110.9]	\$26.00	0.3
<b>BVM-446M</b>	4	10mm	10mm		\$26.00	0.3

### Dimensions inches [mm]

#### 2-Station Manifold



See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# BVS-4 Series Control Distribution Blocks

NITRA pneumatic control distribution blocks are a convenient way to connect a bank of valves to a controller. Replace a bundle of solenoid cables with one 5-pole M12 cable. Each block matches up with a manifold of two to four stations.



Part No. BVPS-4

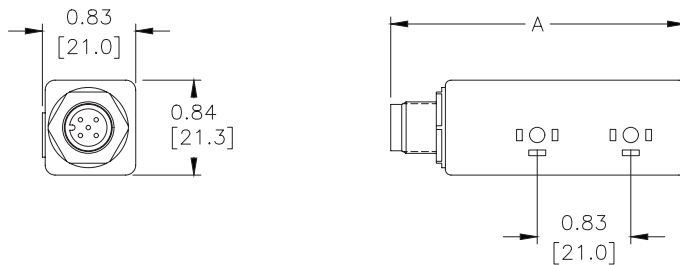
## Features

- Single 5-pole M12 wiring connection
- IP 65 rating
- 2 to 4 stations

BVS-4 Series Control Distribution Blocks				
Part No.	Description	Dimension "A" in [mm]	Price	Weight (lbs)
BVPS-2	NITRA control distribution block, AC/DC, 2 stations, M12 connector. For use with BVS-4 series valves.	2.60 [66.0]	\$44.00	0.2
BVPS-3	NITRA control distribution block, AC/DC, 3 stations, M12 connector. For use with BVS-4 series valves.	3.43 [87.0]	\$66.00	0.3
BVPS-4	NITRA control distribution block, AC/DC, 4 stations, M12 connector. For use with BVS-4 series valves.	4.25 [108.0]	\$88.00	0.3

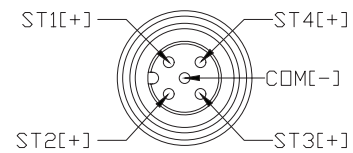
## Dimensions

inches [mm]

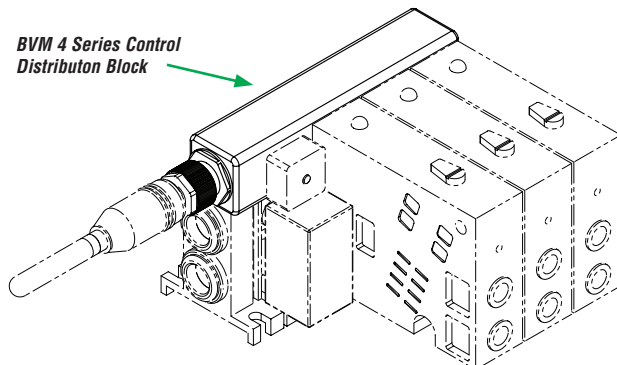


## Wiring

BVPS WIRING DIAGRAM



BVM 4 Series Control Distribution Block



For the BVS-4 Control Distribution Block use one of the following cable part numbers:

- 7000-12241-2150300
- 7000-12361-2150300
- 7000-12241-2150500
- 7000-12361-2150500
- 7000-12241-2151000
- 7000-12361-2151000

For further details see the wiring-solutions section of our catalog or our website [www.AutomationDirect.com](http://www.AutomationDirect.com)

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# BVS-4 Series Control Distribution Blocks

## BVS-4 Series Control Distribution Blocks Accessories



**BVPS-BP**

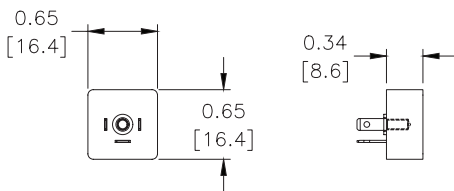


**BVM-4BP1**

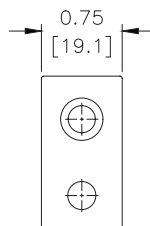
AVPS Series Control Distribution Blocks Accessories			
Part No.	Description	Price	Weight (lbs)
<b>BVPS-BP</b>	NITRA blanking plug, for use with BVPS series control distribution blocks.	\$12.00	0.1
<b>BVM-4BP1</b>	NITRA blanking plug, fiberglass reinforced plastic. For use with BVM-4x25 manifolds.	\$13.50	0.1
<b>BVM-4BP2</b>	NITRA blanking plug, fiberglass reinforced plastic. For use with BVM-4x6M manifolds.	\$13.50	0.1

## Dimensions

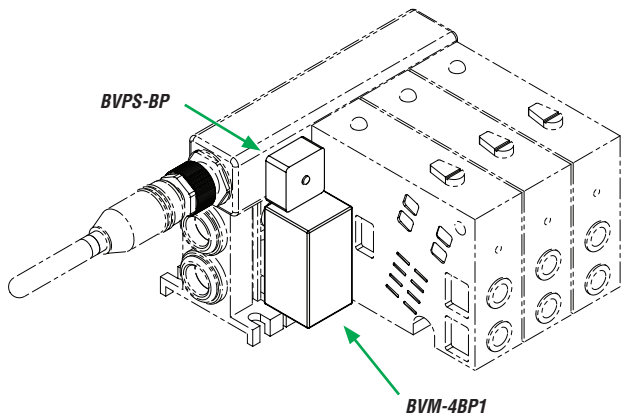
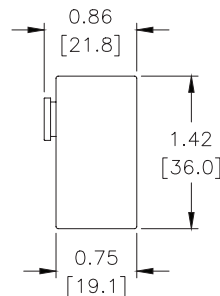
inches [mm]



**Part No. BVPS-BP**



**Part No. BVM-4BPx**



See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.