NITRA<sup>TM</sup> pneumatic miniature solenoid valves are an excellent choice for many automation applications with low flow requirements. Valves must be mounted to a GM-3 series manifold (sold

Available in 2-way or 3-way normally closed configurations



separately).

**Features** 

• 10mm and 15mm valve widths

• GM-3 series manifolds sold separately

• 12 or 24 VDC solenoids

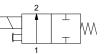


#### Part No. GVP-211C-12D

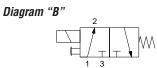


### Part No. GVP-321C-12D

Diagram "A"



2-way, 2-position, Spring Return



3-way, 2-position, Spring Return

GVP Series Miniature Solenoid Valves							
Models	GVP-211C-12D	GVP-211C-24D	GVP-311C-12D	GVP-311C-24D	GVP-221C-12D	GVP-321C-12D	GVP-321C-24D
Price	\$31.50	\$31.50	\$31.50	\$31.50	\$27.50	\$27.50	\$27.50
Weight (lbs)	0.05 0.1						
Size	10mm 15mm						
Valve Type	2-way, 2-position	n, Normally Closed	3-way, 2-position, Normally Closed		2-way, 2-position, Normally Closed	3-way, 2-position, Normally Closed	
Acting	Single solenoid spring return poppet						
Diagram	A B			A B			
Fluid	Air or Inert Gas (to be filtered by 40µ filter element)						
Min. / Max. Pressure	0 to 105 psi (0 to 7.24 bar)						
Flow (Cv)	0.013	0.013	0.013	0.013	0.047	0.047	0.047
Port		Requires GM type 10mm or 15mm manifolds for operation					
Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	12VDC	24VDC
Continuous ON Power	1.3 W 1.6 W						
Expected Life	50,000,000 cycles at max 3 cycles/second						
Wiring	Connector Receptacle (Wire connector required) 18" Flying Leads						
Response Time	6ms (on), 8ms (off)						
Indication	LED						
Temperature - Operation and Storage	14~122°F (-10~50°C)						
Lubrication	Not Required						
Body	Glass-filled nylon						
Protection	n/a						



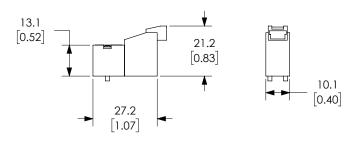


See <u>www.AutomationDirect.com</u> for a wide variety of fitting options

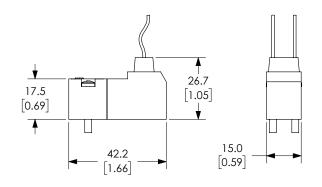


# Pneumatic GVP Series Miniature Solenoid Valves

Dimensions mm [inches]



GVP-x11C-xxD



GVP-x21C-xxD

See our website <u>www.AutomationDirect.com</u> for complete Engineering drawings.





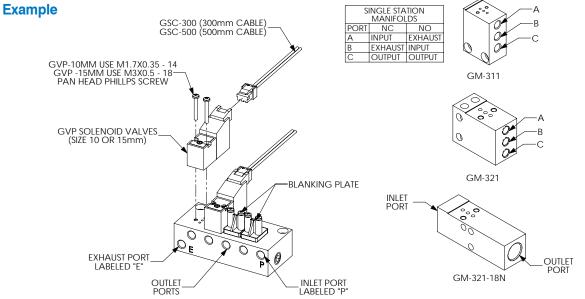
**NITRA** manifolds designed to work with 10mm wide GVP series valves.

- Single to 6 stations
- #10-32 female threaded ports
- Precision machined
- Compact
- Anodized aluminum for corrosion resistance
- Made in USA



Nitra Pneumatic GVP Series 10mm Miniature Solenoid Valve Manifolds							
ltem	Part No.	Description	Description A inches [mm]		Weight (lbs)		
***	GM-311	NITRA pneumatic valve manifold, anodized aluminum, rectangular, (1) station, #10-32 female threaded inlet(s), #10-32 female threaded outlet(s), #10-32 female threaded exhaust(s). For use with GVP-21 and GVP-31 series solenoid valves.	N/A	\$17.50	0.05		
000 E	GM-312	NITRA pneumatic valve manifold, anodized aluminum, rectangular, (2) sta- tions, #10-32 female threaded inlet(S), #10-32 female threaded outlet(S), #10-32 female threaded exhaust(S). For use with GVP-21 and GVP-31 series solenoid valves.	1.42 [36.1]	\$24.00	0.05		
222222	GM-314	NITRA pneumatic valve manifold, anodized aluminum, rectangular, (4) sta- tions, #10-32 female threaded inlet(S), #10-32 female threaded outlet(S), #10-32 female threaded exhaust(S). For use with GVP-21 and GVP-31 series solenoid valves.	2.25 [78.2]	\$27.00	0.10		
······	GM-316	NITRA pneumatic valve manifold, anodized aluminum, rectangular, (6) sta- tions, #10-32 female threaded inlet(s), #10-32 female threaded outlet(s), #10-32 female threaded exhaust(s). For use with GVP-21 and GVP-31 series solenoid valves.	3.08 [78.2]	\$31.50	0.15		

## Assembly

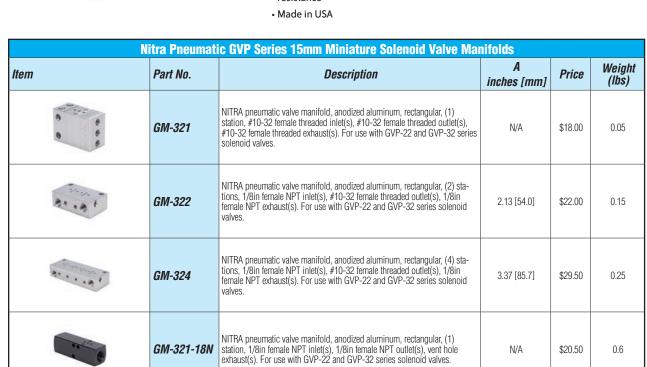




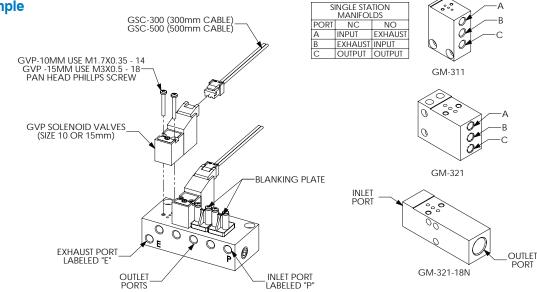


## **NITRA** manifolds designed to work with 15mm wide GVP series valves.

- Single to 4 stations
- #10-32 threaded or 1/8in NPT female ports
- Precision machined
- Compact
- Anodized aluminum for corrosion
- resistance



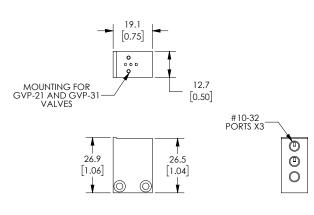
### Assembly Example



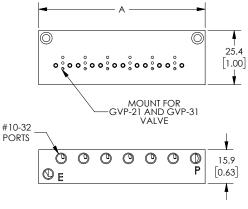


## **Pneumatic GVP Series Miniature NEUMATICS Solenoid Valve Manifolds**

### **Dimensions** mm [inches]



Part No. GM-311



Part No. GM-312, GM-314, GM-316

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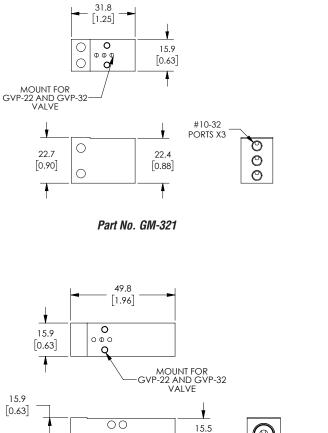
31.8

[1.25]

1

18.7

[0.74] A



E

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 $\bigcirc$ 

0 0

#10-32 PORTS

0

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Part No. GM-322, GM-324

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1/8" NPT INLET - EXHAUST

MOUNT FOR GVP-22 AND GVP-32 VALVE

Θ

Part No. GM-321-18N

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[0.61]

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9

1/8" NPT

INLET-OUTLET

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

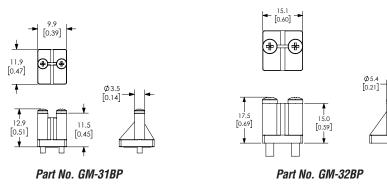


# Pneumatic GVP Series Miniature Solenoid Manifold Accessories



Nitra Pneumatic GVP Series Miniature Solenoid Valve Manifold Accessories						
Item	Part No.	Description	Price	Weight (lbs)		
A A	GM-31BP	NITRA blanking plate, nylon. For use with GM-31 series manifolds. Gasket and mounting screws included.	\$4.75	0.05		
	GM-32BP	NITRA blanking plate, nylon. For use with GM-32 series manifolds. Gasket and mounting screws included.	\$4.00	0.05		
	GSC-300	NITRA solenoid valve cable, miniature pin plug to pigtail, 11.8in/300mm cable length. For use with GVP series solenoid valves.	\$4.25	0.05		
au a	GSC-500	NITRA solenoid valve cable, miniature pin plug to pigtail, 19.6in/500mm cable length. For use with GVP series solenoid valves.	\$4.25	0.05		

Dimensions mm [inches]



See our website <u>www.AutomationDirect.com</u> for complete Engineering drawings.