

BL Series - Latching Valve

- 2 Way or 3 Way Valves
- Low Power Requirements
- ▶ MOPD: 100 PSI
- Dual Diode Protection Optional

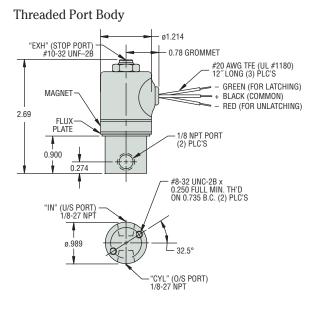
The BL series latching valve allows the user to pulse the valve and have it change state. The voltage does not need to be constantly applied in order to hold it in a state. These valves are ideal for controlling larger pneumatic valves in remote applications where power is limited or when the temperature of the media cannot be impacted as it flows through the valve. The larger pneumatic valves can close and open large pipes and these latching valves control them. The term Latch refers to the valve in the open state where supply pressure goes to the external valve. The unlatched state is when the supply is cut off and the external valve is exhausted to ambient.

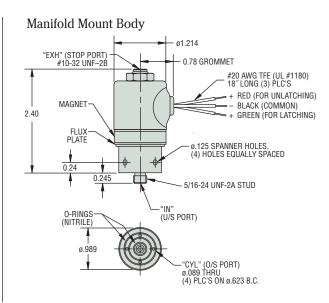


Typical Applications

- Natural Gas Plunger Lifts
- Gas Chromatography
- Natural Gas Separators
- Irrigation Systems

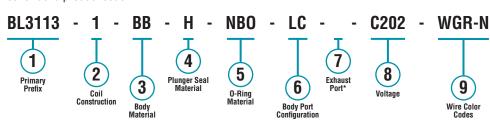
Dimensions





How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.



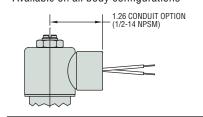
^{*} Blank entry indicates a "Standard" selection (#10-32 female thread, in this case).

Example:

BL3113-1-BB-H-NBO-LC-C202-WGR-N

3-Way Latching valve, 18" epoxy coil, brass body, Hydrin® seal, Nitrile® o-ring, 1/8" NPT body port, free vent 6 Vdc coil, White/Common, Green/Latch, Red/Unlatch negative pulse leads.

Alternate 1/2" Conduit Housing Available on all body configurations



Part Prefix Table 1

	Orifice		MOPD	C _v		1 Primary Prefix	
	Body	Stop	(psi)	Body	Stop	Grommet Housing	Unfilled Conduit Housing
3-WAY	1/32	3/64	100	0.018	0.040	BL3111	BL3121
	1/16	1/16	50	0.070	0.070	BL3113	BL3123
2-WAY	1/16	_	240	0.065	_	BL2011	BL2021
	5/64	_	180	0.09	_	BL2012	BL2022
	3/32	_	150	0.155	_	BL2013	BL2023
	7/64	_	120	0.2	_	BL2014	BL2024
	1/8	_	90	0.24	_	BL2015	BL2025
	5/32	_	60	0.3	_	BL2016	BL2026
	3/16	_	30	0.43	_	BL2017	BL2027

(2) Coil Construction

- 1 = Encapsulated Coil, Class-B (130°C), Lead Wires 18" Long, #20 AWG
- 2 = Encapsulated Coil, Class-F (155°C), Lead Wires 18" Long, #20 AWG

3 Body Material

BB = Brass

SB1 = 303 Stainless Steel

SB5 = 316 Stainless Steel

4 Plunger Seal Material

H = Hydrin®

V = Viton®

PF = Perfluoroelastomer

(5) O-Ring Material

NBO = Nitrile®

VO = Viton®

PFO = Perfluoroelastomer

6 Body Port Configuration

LC = 1/8" NPT female ports LD = 1/4" NPT female ports

MM3 = Manifold-Mount (5/16" thread stud)

(7) Exhaust Port

(blank) = #10-32 female thread*

AB = 1/8" Brass Barb Fitting

AD = 1/8" NPT Brass Adapter

(8) Voltage

- C202 = 6 VDC, 7 Watts Latching, 5 Watts Unlatching
- C203 = 12 VDC, 9 Watts Latching, 7 Watts Unlatching
- C204 = 24 VDC, 9 Watts Latching, 7 Watts Unlatching
- **C202D** = 6 VDC, 7 Watts Latching, 5 Watts Unlatching with internal diodes
- C203D = 12 VDC, 9 Watts Latching, 7 Watts Unlatching with internal diodes
- C204D = 24 VDC, 9 Watts Latching, 7 Watts Unlatching with internal diodes

(9) Wire Color Codes

- WGR-N = White common (+), Green latch (-), Red Unlatch (-)
- **BRG-P** = Black common (-), Red latch (+), Green Unlatch (+)
- **BGR-N** = Black common (+), Green latch (-), Red Unlatch (-)
- Standard selection; will be used unless otherwise specified. Standard selections are not referenced in final part number.