B Series – Modular

- MOPD: 400 PSI (28 Bar)
- CV Range: 0.018 to 0.430 (Kv Range: 0.016 to 0.372)
- 7 Watts

The B Series is a direct acting solenoid valve, available in 2- or 3-way functionality. Like all of our valves, the B Series has bubble tight plunger construction and is designed to last for millions of cycles in general purpose liquid, gas, and vacuum applications. The B Series is available in various orifice sizes, a variety of body materials, wattages, and coil constructions for the utmost adaptability to your application requirements. The B Series is an excellent choice for most general-purpose application requiring a CV of 0.018 to 0.430 (Kv of 0.016 to 0.372).

Typical Applications
- Printing
- HVAC
- Semiconductor Equipment
- Medical Equipment

Dimensions

**Threaded Port Body**

**Manifold Mount Body**

**Molded Coil**

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

**Part Prefix Table**

<table>
<thead>
<tr>
<th>Orifice</th>
<th>MOPD</th>
<th>CV</th>
<th>Cv</th>
<th>Kp</th>
<th>Grommet Housing</th>
<th>Conduit Housing</th>
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<td>inches</td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>Body</td>
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<td>28</td>
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<td>—</td>
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<td>21</td>
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<td>0.300</td>
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**Example:**

B3023-W36-SB5-PF-PFO-12VDC-G5

2-Way N.C. Free Vent (with 1.26 Conduit Option) solenoid valve, with 36˝ (91cm) tape-wrapped coil, lead-wired, non-standard length, 316 stainless steel body, perfluoroelastomer plunger seal, perfluoroelastomer o-ring, 1/8-27 NPT female thread, operating at 12 VDC, and includes a piece 316 stainless steel guide assembly option.

* Blank entry indicates a "Standard" selection (1/8-27 NPT female thread, in this case).
## Coil Construction

- **Standard selection**: Tape-wrapped, Class B (130°C), with 18” (45.7cm) lead wires
- **Specify length in inches**
  - Standard selections are not referenced in final part number

### Body Port Configuration

- **Body Port Configuration**: 1/8-27 NPT female thread
  - Standard selection: 1/8-27 NPT female thread
  - Maximum orifice: 1/8” (3.18mm)

### Body Material

- **Blank**: 303 Stainless Steel
- **BB**: Brass
- **SB**: 304 Stainless Steel
- **SB5**: 316 Stainless Steel
- **SBF**: 430F Stainless Steel

### Plunger Seal Material

- **E**: EPR
- **GV**: Gasoline Viton® (2-way N.C. only)
- **N**: Neoprene
- **PF**: Perfluoroelastomer
- **R**: Rulon® (2-way N.C. only)
- **T**: PTFE
- **V**: Viton®

### O-Ring Material

- **Blank**: Nitrile
- **EO**: EPR
- **NO**: Neoprene
- **NS**: Nitrile (NSF/FDA material)
- **PF**: Perfluoroelastomer
- **TO**: PTFE
- **VO**: Viton®

### Additional Options

- **Y**: Yoke (2-way N.C. only)
- **WM**: Mounting bracket
- **TP**: PTFE coated plunger
- **QO**: Quiet operation (2-way N.C. only)
- **S**: Silver shading ring
- **OC**: Cleaned for oxygen use
- **VAC**: Vacuum application – 0 to 29.5” Hg (0 to 1000mBar)
- **G1**: One-piece 303 Stainless Steel guide assembly
  - Standard on 2-way normally open and all 3-way valves
- **G5**: One piece 316 Stainless Steel guide assembly
- **SH**: 1” Diameter housing, grommet
- **SG**: 1” Diameter housing, conduit

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Take advantage of next day shipping by making your selections from those marked with the Lightning Bolt icon.
B Series – Manifold Mount Interface Details

Manifold Mounting Bodies

Manifold Mount 5/16”-24 Stud Body (MM3)

* If the total area of overseat port is less than the orifice diameter, then the overseat is the restrictor.

Manifold Mount 1/4”-28 Stud Body (MM)

* If the total area of overseat port is less than the orifice diameter, then the overseat is the restrictor.

Standard and Vacuum Port values for all manifold drawings on this page.
B Series – Operator (OB) Interface Details

Omit Body Manifold Mount (OB)

N.C. & 3-Way

Note: All diameters to be concentric to datum -A- within .003 T.I.R.

Dimensions

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N.O.

Note: All diameters to be concentric to datum -A- within .003 T.I.R.

Dimensions

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