

BS Series

2-Way Higher Flow Diaphragm Isolation Valve

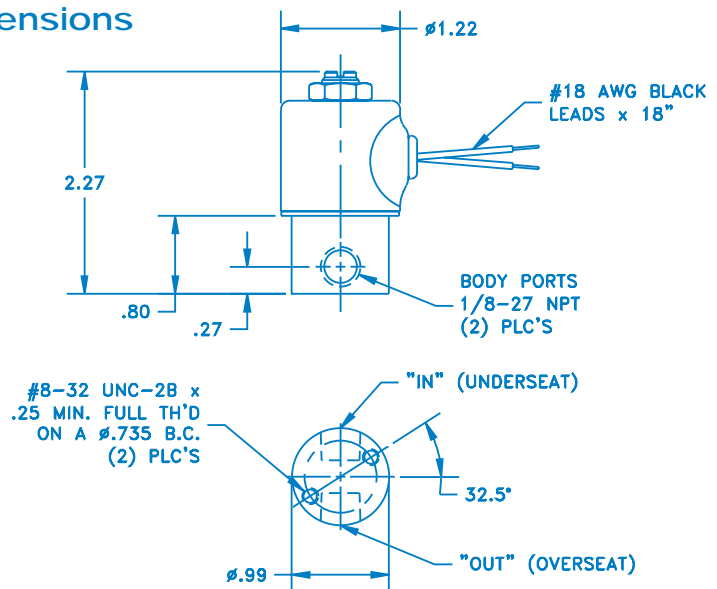
The BS Series is a 2-way, high flow, isolation valve that is designed to be virtually impervious to chemical attack and to protect high purity media. When your media cannot come in contact with any metallic materials, this highly versatile, modular valve delivers the protection you need for accurate and reliable flow control for millions of cycles. With a variety of body, and diaphragm materials, plus numerous port configurations, voltage options, and coil constructions, the BS Series is truly a miniature inert isolation valve that can be built to your exact applications requirements.

The BS Series is excellent for:

- Remediation Equipment
- Clinical Chemistry Equipment
- Analytical Instrumentation



Dimensions



Configure Your BS Series Part Number: Example Below

BS2035-W25-E-28VDC

Prefix From Spec. Chart

25" Lead -Wires

28 Volt DC

EPR Diaphragm



BS Series Metal Body: 7 Watts
 BS Series Plastic Body: 4.5 Watts

Valve Options

Coil Construction

- W__ *Tape-wrapped, Class-B, with 18" lead-wires
- W__ Tape-wrapped coil, lead-wires, non-standard length (specify in inches)
- 1 Encapsulated coil, Class-B, lead-wires
- 3 Encapsulated coil, Class-H, lead-wires
- 4 Encapsulated coil, Class-B, 1/4" spade terminals (3/16" spade optional)
- 10 Externally rectified coil (lead-wires only)
- 11 Tape-wrapped coil, Class-H, lead-wires
- HC2 Encapsulated coil, Class-B, EN175301-803 Style C, Industrial, 9.4mm, 2+1 poles

Body Material

- BS_1_ *303 Stainless Steel (grommet housing)
- BS_2_ *303 Stainless Steel (1/2" conduit housing)
- BS_3_ *Polypropylene (grommet housing, 1/8-27 NPT female thread only, see chart for available orifice sizes)
- BS_4_ *Polypropylene (1/2" conduit housing, 1/8-27 NPT female thread only, see chart for available orifice sizes)
- BB Brass
- SB 304 Stainless Steel
- SB5 316 Stainless Steel

Diaphragm Seal Material

- *Viton diaphragm
- E EPR diaphragm
- NS Nitrile (NSF/FDA) diaphragm
- PF Perfluoroelastomer diaphragm

O-Ring Material

*N/A

Body Port Configuration

- *1/8-27 NPT female thread
- LB 1/4-18 NPT female thread
- BD #10-32 female straight thread
- LT 1/8-28 BSPT female thread
- LU 1/4-19 BSPT female thread
- MM Manifold mount (1/4-28 UNF-2A mounting stud)
- MM3 Manifold mount (5/16-24 UNF-2A mounting stud)
- OB Omit body (operator style)
- BI Bottom over-seat port, female thread orifice = 1/8"
- BIM Bottom over-seat port, 1/8-27 NPT male thread (max. orifice = 1/8", brass body only)
- BO Bottom under-seat port, female thread
- OM Bottom under-seat port, 1/8-27 NPT male thread (max. orifice = 1/8", brass body only)
- RL 90° porting - left hand
- RR 90° porting - right hand

Voltage

- ___ VDC DC (specify voltage)
- ___ VAC AC Rectified only (specify voltage)

Additional Options

- WM Mounting bracket
- OC Cleaned for oxygen use

* BS Series will be built with these options unless otherwise indicated. The option number is dropped in the final part number when using these materials.

Performance Specifications

Part # Prefix	ORIFICE	MOPD (psig)	MAX BACK PRESSURE	C _v
	BODY			BODY
2-WAY Normally Closed (Stainless Steel Body)				
BS20_0	3/64	150	15	0.035
BS20_1	1/16	110	10	0.065
BS20_2	5/64	85	10	0.090
BS20_3	3/32	70	10	0.155
BS20_4	7/64	25	10	0.200
BS20_5	1/8	10	5	0.240
BS20_6	5/32	5	5	0.300
2-WAY Normally Closed (*Polypropylene Body)				
BS20_1	1/16	50	10	0.065
BS20_5	1/8	35	10	0.150
BS20_6	5/32	10	5	0.180

*Other body orifice sizes may be available, consult factory.