

BS Series – Higher Flow

- ▶ MOPD: 10 Bar (150 PSI)
- ▶ K_v Range: 0.030 to 0.256 (C_v Range: 0.035 to 0.300)
- ▶ 7 Watts

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.

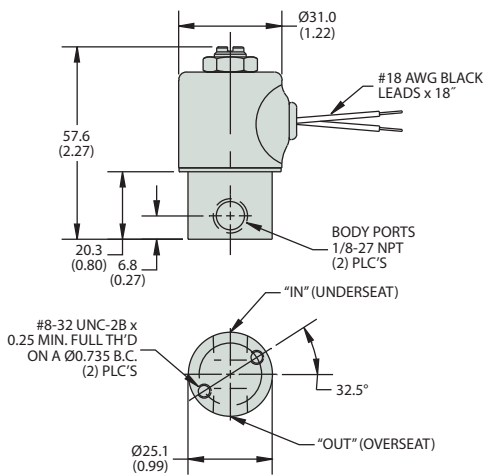
Typical Applications

- Remediation Equipment
- Clinical Chemistry Equipment
- Analytical Instrumentation

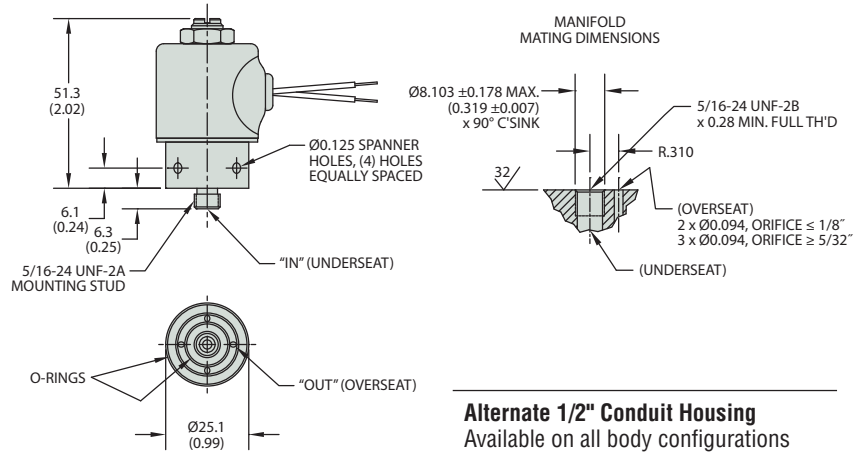


Dimensions

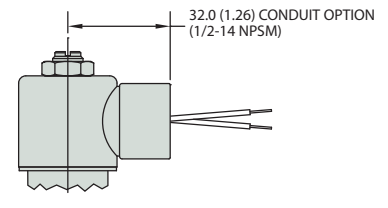
Threaded Port Body



Manifold Mount Body

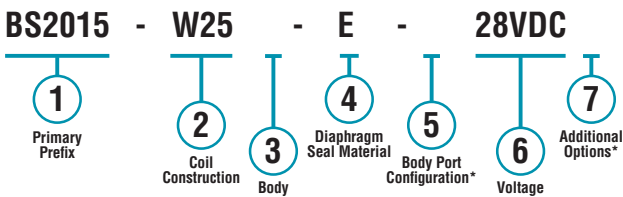


Alternate 1/2" Conduit Housing Available on all body configurations



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 (1/8-27NPT female thread, in this case).

Example:

BS2015-W25-E-28VDC

2-Way N.C. 303 S.S. (grommet housing) solenoid valve, with 63.5cm (25") tape-wrapped coil, lead-wires, non-standard length, EPR diaphragm seal, 1/8-27 NPT female thread, operating at 28 VDC.

Materials

Body	303 S.S.
Diaphragm Seal	Viton®

Part Prefix Table ①

Body Material	Orifice		MOPD		Max Back Pressure		K _v	C _v	① Primary Prefix	
	Body		bar	psig	bar	psig			Body	Grommet Housing
	mm	inches								
303 Stainless Steel ¹	1.19	3/64	10	150	0.7	15	0.030	0.035	BS2010	BS2020
	1.59	1/16	7.6	110	0.7	10	0.055	0.065	BS2011	BS2021
	1.98	5/64	6.2	85	0.7	10	0.077	0.090	BS2012	BS2022
	2.38	3/32	4.8	70	0.7	10	0.132	0.155	BS2013	BS2023
	2.78	7/64	3.1	25	0.3	10	0.171	0.200	BS2014	BS2024
	3.18	1/8	1.0	10	0.3	5	0.205	0.240	BS2015	BS2025
	3.97	5/32	0.3	5	0.3	5	0.256	0.300	BS2016	BS2026

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

② Coil Construction

(blank) = Class 130°C (B), tape-wrapped, lead-wires
– 45.7cm (18") long*

W__ = Lead-wires, non-standard length (specify in centimeters)

10 = Externally rectified (AC voltage and lead-wires only)

1 = Class 130°C (B), encapsulated, lead-wires

4 = Class 130°C (B), encapsulated, 4.76mm (3/16")
spade terminals – 6.35mm (1/4") spade optional

HC2 = Class 130°C (B), encapsulated, 9.4mm DIN
(EN175301-803 Style C Industrial 2+1 poles)

11 = Class 180°C (H), tape-wrapped, lead-wires

3 = Class 180°C (H), encapsulated, lead-wires

③ Body Material (Replaces Standard 303 SS)

BB = Brass

SB = 304 Stainless Steel

SB5 = 316 Stainless Steel

④ Diaphragm Seal Material

(blank) = Viton® diaphragm*

E = EPR diaphragm

NS = Nitrile (NSF/FDA) diaphragm

PF = Perfluoroelastomer diaphragm

⑤ Body Port Configuration

(blank) = 1/8-27 NPT female thread*

LB = 1/4-18 NPT female thread

BD = #10-32 female straight thread

– max. orifice = 3.18mm (1/8")

LT = 1/8-28 BSPT female thread with M4 x 0.7 mounting threads

LU = 1/4-19 BSPT female thread with #8-32 mounting threads

MM = Manifold mount (1/4-28 UNF-2A mounting stud)²

MM3 = Manifold mount (5/16-24 UNF-2A mounting stud)²

OB = Omit body (operator style)

BI = Bottom over-seat port, female thread

– max. orifice = 3.18mm (1/8")

BIM = Bottom over-seat port, 1/8-27 NPT male thread

– max. orifice = 1.98mm (5/64"), brass body only

BO = Bottom under-seat port, female thread

BOM = Bottom under-seat port, 1/8-27 NPT male thread

– max. orifice = 3.18mm (1/8"), brass body only

RL = 90° porting - left hand

RR = 90° porting - right hand

⑥ Voltage

___VDC = DC (specify voltage)

___VAC = AC Rectified only (specify voltage)

⑦ Additional Options

WM = Mounting bracket

OC = Cleaned for oxygen use

* Standard selection; will be used unless otherwise specified.
Standard selections are not referenced in final part number.

Notes

- Use Prefixes from these rows if you want to use any of the other Body Materials listed under selection ③. Simply add the respective material code in the 3rd part number position (See Example).
- Teflon® o-ring not suitable for manifold mount.