

BS Series – Higher Flow

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

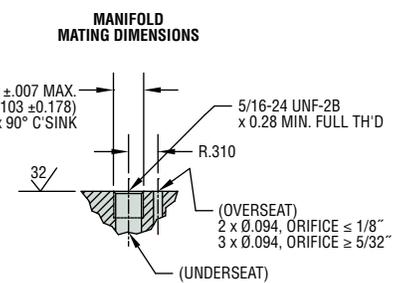
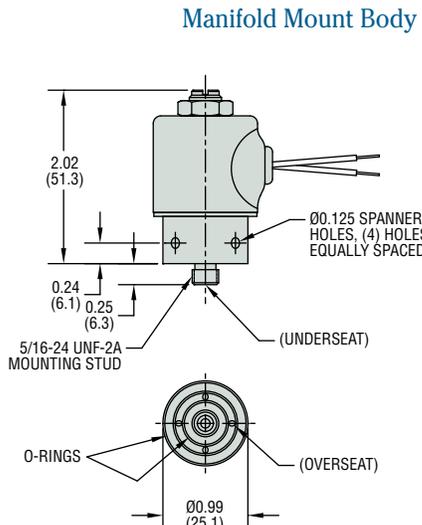
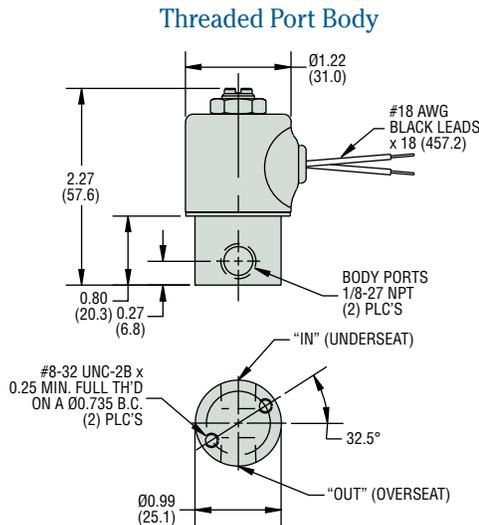
The BS Series is a 2-way, high flow, isolation valve that is designed to be virtually impervious to chemical attack and to protect high purity media. When your media cannot come in contact with any metallic materials, this highly versatile, modular valve delivers the protection you need for accurate 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

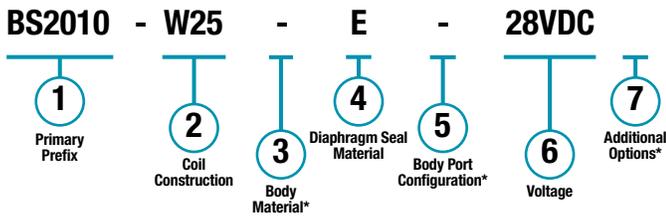


Dimensions



How To Order

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



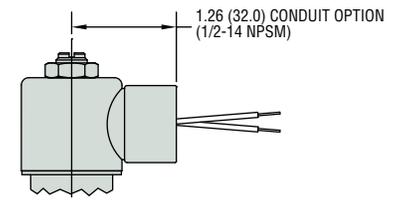
* Blank entry indicates a "Standard" selection (303 Stainless Steel in the case of Body Material).

Example:

BS2010-W25-E-28VDC

303 Stainless Steel (grommet housing) solenoid valve with a 3/64" orifice, 25" (63.5cm) tape-wrapped coil, lead-wires, EPR diaphragm seal, 1/8-27 NPT female thread, operating at 28 VDC.

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



SOLENOID VALVES

Part Prefix Table ①

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

* Excessive downstream pressure and/or restrictions may increase closing time.

② Coil Construction

(blank) = Tape-wrapped, Class B (130°C), with 18" (45.7cm) lead wires*

W___ = Tape-wrapped coil, lead wires, non-standard length
(specify length in inches)

10 = Externally rectified coil (AC voltages and lead wires only)

1 = Encapsulated coil, Class B (130°C), lead wires

3 = Encapsulated coil, Class H (180°C), lead wires

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

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

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

③ Body Material

(blank) = 303 Stainless Steel*

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 = 1/8" (3.18mm)

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 Inlet (3/32" Orifice, Max.)

BIM = Bottom Inlet Male (1/8" NPT porting only; 5/64" Orifice, Max.)

BO = Bottom Outlet

BOM = Bottom Outlet Male (1/8" NPT porting only; 3/32" Orifice, Max.)

RL = 90° porting - left hand

⑥ Voltage

___VDC = DC (specify voltage)

___VAC = AC Rectified only (specify voltage)

⑦ Additional Options*

(blank) = No additional option

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.

† Teflon® o-ring not suitable for manifold mount.

Gems specializes in the design and manufacturing of custom solenoid valves and fluidic systems. If you don't see what you're looking for, or have a question, contact us at 800-378-1600 or info@gemssensors.com.