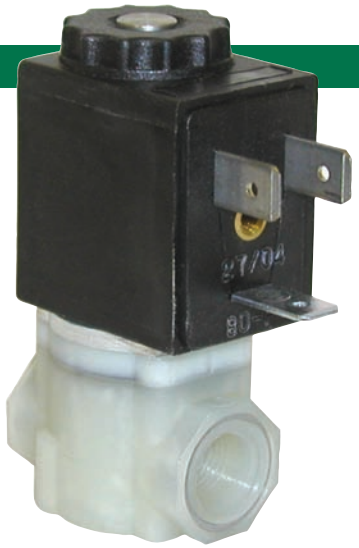
Media Separated 2-Way
Solenoid Valves

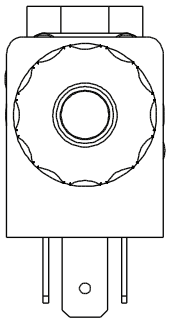
Series 3B23

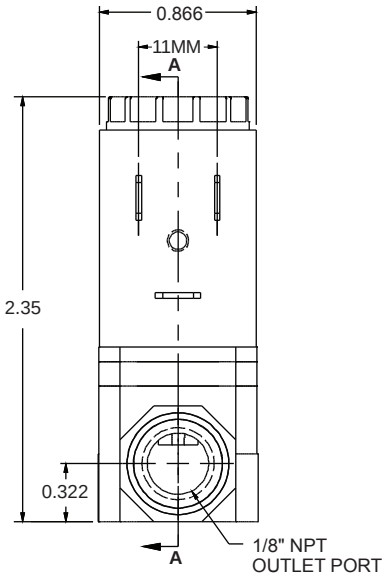
The Spartan Scientific Series 3B23 is a compact, media separated 2-way normally closed solenoid valve for use with chemicals or water whereby the media is contained in the nylon body valve cavity and does not come into contact with the metal parts of the solenoid operator. The 3B23 features a long life solenoid that incorporates a fully encapsulated coil, stainless steel plunger and tube assembly as well as a rolling diaphragm which enables the valve to function at pressures up to 120 psi with orifice sizes ranging from 0.6mm to 2.0mm. Flow rates of 1.5 gpm can be attained. The single in-line valve body features metal reinforced 1/8”NPT threads and has an ultra small volume and simple flow path for clean switching. The valve is available in all standard voltages and comes standard with a 6.5 watt coil.

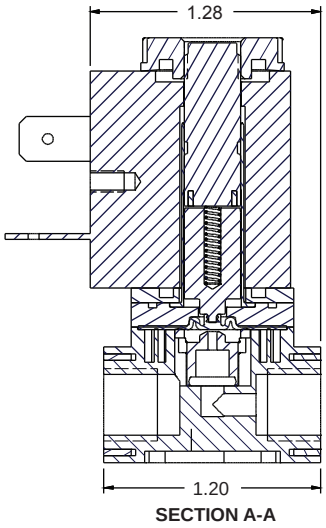


Dimensional Data

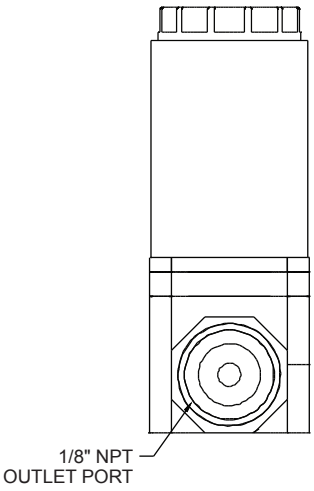
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

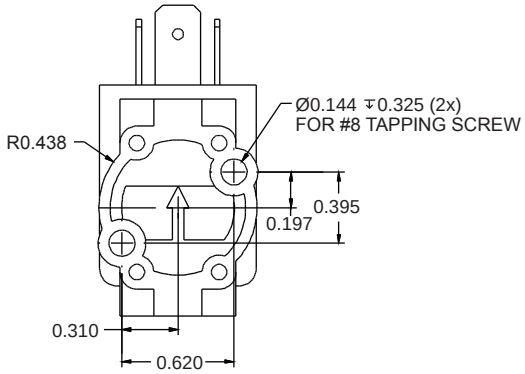






SECTION A-A





SPARTAN SCIENTIFIC
www.spartanscientific.com
P.O. Box 9792, Boardman, Ohio 44513
(330) 758-8446 Fax: (330) 758-3314

Series 3B23

Media Separated 2-Way Solenoid Valves

Technical Data

Function: 2-way, 2-position normally closed, direct acting, media separated solenoid

Port Size: 1/8"NPT

Orifice Size/Flow Factor(Cv): 1.2mm (.047")/ .065. Other Orifices available upon request (2.0mm Max.)

Pressure Range: 0 - 120 psi
(NOTE: Pressure ratings obtained with outlet port open to atmosphere. 15 psi back pressure maximum.

Temperature Range: (Fluid max. 90°C) Ambient -10° to +55°C

Response Time: 18 to 25 ms complete cycle

Materials in Contact with Fluid:
Valve Body: Zytel GF Nylon (NSF approved)
Elastomers: EPDM (Viton or Nitrile available on request) FDA approved
Media: water, chemicals, air, gases

Coil Data:
Zytel Glass filled nylon encapsulation, (Class F, continuous duty)
Coil Windings: Class H
Voltage: 6, 12, 24 VDC
24, 120, 220, 240 VAC
Voltage Tolerance: +/- 10%
Power Rating: 6.5 Watts

How To Order

3B23 - □ □ - □ 28 □

Elastomer Material
0 - EPDM
1 - Viton
2 - Nitrile

Orifice (mm)	Cv	NO / NC
3 - 1.2	0.065	NC

Contact factory for additional Orifice sizes.

Coil Options
1 - 6 VDC
2 - 12 VDC
3 - 24 VDC
6 - 24 VAC 50/60 Hz
7 - 120 VAC 50/60 Hz
8 - 220 VAC 50/60 Hz
9 - 240 VAC 50/60 Hz

Valve Body / Armature Assembly Material
1 - G.F. Nylon / Brass
2 - G.F. Nylon / Stainless Steel

Order Example: 3B23-03-1287
Series 3B23, EPDM, 1.2mm Orifice, 0.025 Cv, NC,
G.F. Nylon / Brass, 120 VAC 50/60 Hz.

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