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Find the *Gems Sensors A2014-S80* at our website: *Click HERE*

A Series

- MOPD: 1000 PSI
- C_V Range: 0.019 to 0.3
- 6 Watts



The A Series gives you a highly adaptable design for practically all applications requiring flow between C_V 0.019 and 0.300. This robust 2- or 3-way miniature solenoid utilizes a stainless steel body to resist corrosion for most acids, alkaline solutions, and harsh environments. Also available in plastic—from polypropylene to Delrin®—when specific inert or demanding requirements are needed. Available in numerous port configurations, orifice sizes, and material combinations, the A Series is a highly flexible valve that fulfills the requirements for most applications.

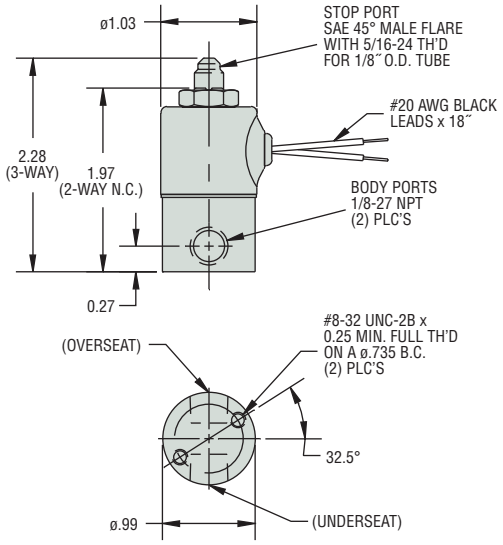
Typical Applications

Stainless Steel Bodies:
- Medical Equipment
- Laboratory Equipment
- Food Processing Equipment

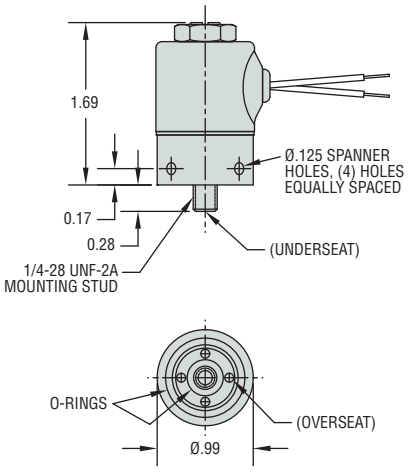
Brass Bodies:
- Industrial Applications
- Automotive
- Water Transfer Systems

Dimensions

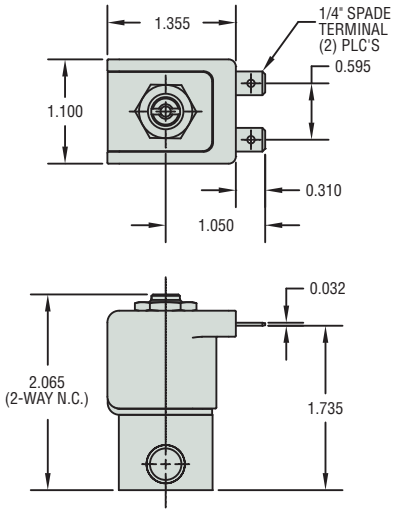
Threaded Port Body



Manifold Mount Body



Molded Coil



How To Order

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

A2213 - 3 - BB - N - NO - LB - 110/60VAC - WM-TP

1	2	3	4	5	6	7	8
Primary Prefix	Coil Construction	Body Material	Plunger Seal Material	O-Ring Material	Body Port Configuration	Voltage	Additional Options

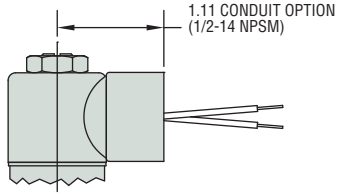
Note: After the Primary Prefix, any "-Code" may be blank when standard (blank) selections are specified.

Example:

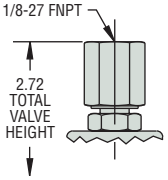
A2213-3-BB-N-NO-LB-110/60VAC-WM-TP

2-Way N.O. (with 1/8˝-27 NPT stop port adaptor) solenoid valve, with brass body, neoprene plunger seal, neoprene O-ring, 1/4˝-18 FNPT body ports, operating at 110/60 VAC/Hz, and includes the mounting bracket and PTFE coated plunger options.

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



Stop Port
Standard on 2-way N.O.;
Option "AD" on 3-Way.



Part Prefix Table ①

	Orifice		MOPD (psig)	C_v		① Primary Prefix	
	Body	Stop		Body	Stop	Grommet Housing	Conduit Housing
2-WAY N.C.	1/32	—	1000	0.020	—	A2011	A2021
	3/64	—	500	0.035	—	A2012	A2022
	1/16	—	300	0.065	—	A2013	A2023
	5/64	—	200	0.090	—	A2014	A2024
	3/32	—	175	0.155	—	A2015	A2025
	1/8	—	100	0.240	—	A2016	A2026
	5/32	—	50	0.300	—	A2017	A2027
2-WAY N.O. (option AD standard)	—	1/32	200	—	0.019	A2211	A2221
	—	3/64	150	—	0.040	A2212	A2222
	—	1/16	100	—	0.075	A2213	A2223
3-WAY N.C. Free Vent	1/32	1/32	200	0.019	0.019	A3011	A3021
	3/64	3/64	150	0.040	0.040	A3012	A3022
	1/16	3/64	100	0.070	0.040	A3013	A3023
	1/16	1/16	75	0.070	0.070	A3014	A3024
	3/32	3/64	50	0.170	0.040	A3015	A3025
3-WAY N.C. Line Connection	1/32	1/32	200	0.019	0.019	A3111	A3121
	3/64	3/64	150	0.040	0.040	A3112	A3122
	1/16	3/64	100	0.070	0.040	A3113	A3123
	1/16	1/16	75	0.070	0.070	A3114	A3124
	3/32	3/64	50	0.170	0.040	A3115	A3125
3-WAY N.O.	1/32	1/32	150	0.019	0.019	A3211	A3221
	3/64	3/64	100	0.040	0.040	A3212	A3222
	1/16	3/64	90	0.070	0.040	A3213	A3223
	1/16	1/16	75	0.070	0.070	A3214	A3224
	3/32	3/64	50	0.170	0.040	A3215	A3225
3-WAY Multi Purpose	1/32	1/32	125	0.019	0.019	A3311	A3321
	3/64	3/64	100	0.040	0.040	A3312	A3322
	1/16	3/64	90	0.070	0.040	A3313	A3323
	1/16	1/16	75	0.070	0.070	A3314	A3324
	3/32	3/64	25	0.170	0.040	A3315	A3325
3-WAY Directional Control	1/32	1/32	225	0.019	0.019	A3411	A3421
	3/64	3/64	150	0.040	0.040	A3412	A3422
	1/16	3/64	100	0.070	0.040	A3413	A3423
	1/16	1/16	75	0.070	0.070	A3414	A3424
	3/32	3/64	50	0.155	0.040	A3415	A3425

② Coil Construction

- **(blank)** = Tape-wrapped, Class-B, with 18" lead wires*
- **W___** = Tape-wrapped coil, lead-wires, non-standard length (specify length)
- **1M** = Over molded coil, Class-B, lead-wires
- **2M** = Over molded coil, Class-F, lead-wires
- **3M** = Over molded coil, Class-H, lead-wires
- **4M** = Over molded coil, Class-B, 1/4" spade terminals
- **5M** = Over molded coil, Class F, 1/4" spade terminals
- **6M** = Over molded coil Class H, 1/4" spade terminals
- **4** = Encapsulated coil, Class-B, 3/16" spade terminals
- **5** = Encapsulated coil, Class-B, 0.110" spade terminals
- **8** = Encapsulated coil, Class F, 3/16" spade terminals
- **10** = Externally rectified coil (lead wires only)
- **11** = Tape-wrapped coil, Class H, lead wires
- **HC** = molded coil, Class F, EN175301-803 Form B DIN, Industrial. 11mm, 2+1 poles
- **HC2** = Encapsulated coil, Class B, EN175301-803 Form C DIN, Industrial, 9.4mm, 2+1 poles

③ Body Material

- **(blank)** = 303 Stainless Steel*
- **BB** = Brass
- **SB** = 304 Stainless Steel
- **SB5** = 316 Stainless Steel
- **SBF** = 430F Stainless Steel

④ Plunger Seal Material

- **(blank)** = Nitrile*
- **E** = EPR
- **GV** = Gasoline Viton® (2-way valves only)
- **N** = Neoprene
- **NS** = Nitrile (NSF/FDA, 2-way valves only)
- **PF** = Perfluoroelastomer
- **R** = Rulon® (2-way valves only)
- **T** = PTFE
- **V** = Viton®

⑤ O-Ring Material

- **(blank)** = Nitrile*
- **EO** = EPR
- **NO** = Neoprene
- **NSO** = Nitrile (NSF/FDA, 2-way valves only)
- **PFO** = Perfluoroelastomer
- **TO** = PTFE
- **VO** = Viton®

⑥ 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˝)
- **LT** = 1/8-28 BSPT female thread (2-way valves only)
- **LU** = 1/4-19 BSPT female thread (2-way valves only)
- **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)
- **MB** = Bottom metering (max. orifice = 3/32˝)
- **BI** = Bottom over-seat port, female thread (max. orifice = 1/8˝)
- **BIM** = Bottom over-seat port, 1/8-27 NPT male thread (max orifice = 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 = 1/8˝) brass body only
- **RL** = 90° porting - left hand
- **RR** = 90° porting - right hand
- **BS** = Stop port, #10-32 female straight thread†

⑦ Voltage†† (see note below)

- **___VDC** = DC (specify DC voltage)
- **___VAC** = AC (specify AC voltage; includes copper shading ring)

⑧ Additional Options

- **Y** = Yoke
- **WM** = Mounting bracket
- **TP** = PTFE coated plunger
- **AD** = 1/8 - 27 NPT stop port adapter (3-way valves only)
- **QO** = Quiet operation (2-way valves only)
- **S** = Silver shading ring
- **OC** = Cleaned for oxygen use
- **VAC** = Vacuum application (0 to 29.5˝ Hg)
- **G1** = One-piece 303 Stainless Steel guide assembly
- **G5** = One piece 316 Stainless Steel guide assembly

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

† Plastic body available, contact Gems.
†† Can be AC rectified without shading ring. Use coil construction Code 10.
††† 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.

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