

## AG Series

- ▶ MOPD: 1000 PSI (69 Bar)
- ▶  $C_v$  Range: 0.019 to 0.300 ( $K_v$  Range: 0.016 to 0.256)
- ▶ 7 Watts

The AG Series gives you a highly adaptable design for practically all applications requiring flow between  $C_v$  0.019 and 0.300 ( $K_v$  0.016 to 0.259). This robust 2- or 3-way miniature solenoid utilizes a stainless steel body to resist corrosion for most acids, alkaline solutions, and harsh environments. Available in numerous port configurations, orifice sizes, and material combinations, the AG Series is a highly flexible valve that fulfills the requirements for most applications.

### Typical Applications

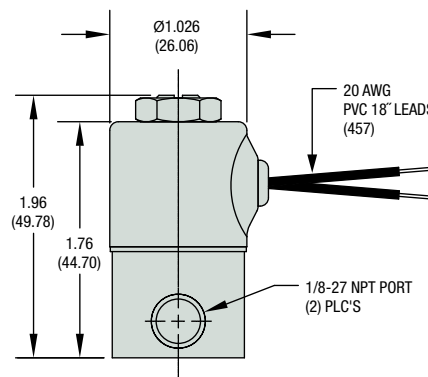
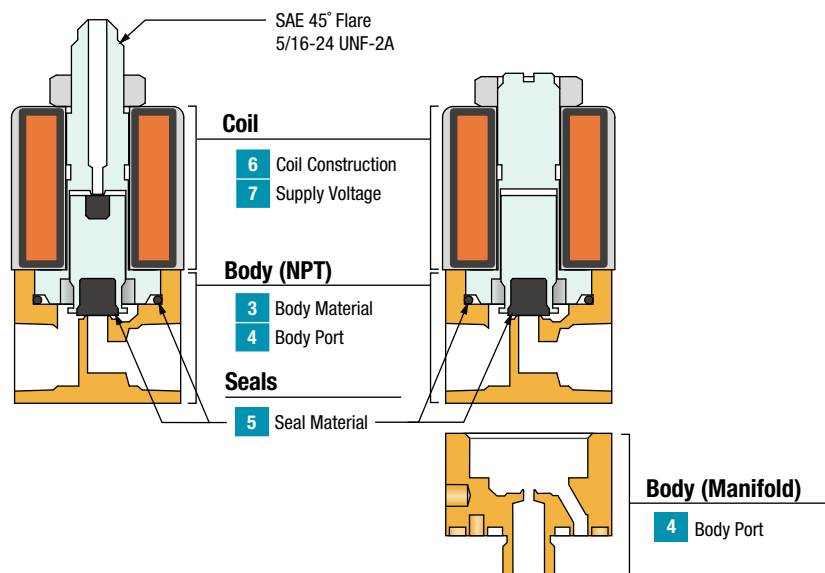
Stainless Steel Bodies:

- Medical Equipment
- Laboratory Equipment
- Food Processing Equipment

### Reference

3-Way Valve

2-Way Valve



#### Example Shown

Part Number: AG2022-01LC-B-G1-203  
From How to Order example below.

### How To Order

Valve Part Numbers are built from a series product codes. Use the **Bold** product codes from the choices listed on the following page to construct a complete Part Number.

<b>AG</b>	<b>20</b>	<b>22</b>	-	<b>01</b>	<b>LC</b>	-	<b>B</b>	-	<b>G1</b>	-	<b>203</b>
Series	Function	MOPD	-	Body Material	Body Port	-	Seal Material	-	Coil Construction	-	Supply Voltage

#### Product Description from Example Shown Above:

#### AG2022-01LC-B-G1-203

AG2022 = AG Series with 2-Way Normally Closed Valve **Function**; 100 MOPD

-01LC = 303 Stainless Steel **Body Material**; 1/8" NPT Female **Body Port**

-B = Nitrile (Buna-N) **Seal Material** (Plunger Seal and Internal O-Ring)

-G1 = Grommet Housing, Tape-Wrapped (Class B) **Coil Construction**

-203 = 12 VDC **Supply Voltage**

# AG Series – Part Number Build

Build a Valve Part Number by filling in the boxes below using the related code numbers on this page.

AG										
Series	1	2	3	4	5	6	7			

## 1 + 2 Valve Function & Maximum Operating Pressure Differential

Valve Function	Code	MOPD		C <sub>v</sub>		K <sub>v</sub>		Orifice			
		psig	bar	Body	Stop	Body	Stop	Body		Stop	
								inches	mm	inches	mm
2-WAY Normally Closed	2001	1000	69	0.020	—	0.017	—	1/32	0.79	—	—
	2004	500	34	0.035	—	0.030	—	3/64	1.19	—	—
	2007	300	21	0.065	—	0.055	—	1/16	1.59	—	—
	2011	200	14	0.090	—	0.077	—	5/64	1.98	—	—
	2014	175	12	0.155	—	0.132	—	3/32	2.38	—	—
	2022	100	6.9	0.240	—	0.205	—	1/8	3.18	—	—
	2029	50	3.4	0.300	—	0.256	—	5/32	3.97	—	—
3-WAY Normally Closed	3111	200	14	0.019	0.019	0.016	0.016	1/32	0.79	1/32	0.79
	3117	150	10	0.040	0.040	0.034	0.034	3/64	1.19	3/64	1.19
	3122	100	6.9	0.070	0.070	0.060	0.060	1/16	1.59	3/64	1.19
	3126	75	5.2	0.070	0.070	0.060	0.060	1/16	1.59	1/16	1.59
	3129	50	3.4	0.170	0.040	0.145	0.034	3/32	2.38	3/64	1.19
3-WAY Normally Open	3217	150	10	0.019	0.019	0.016	0.016	1/32	0.79	1/32	0.79
	3222	100	6.9	0.040	0.040	0.034	0.034	3/64	1.19	3/64	1.19
	3223	90	6.2	0.070	0.040	0.060	0.034	1/16	1.59	3/64	1.19
	3226	75	5.2	0.070	0.070	0.060	0.060	1/16	1.59	1/16	1.59
	3229	50	3.4	0.170	0.040	0.145	0.034	3/32	2.38	3/64	1.19
3-WAY Multi Purpose	3320	125	8.6	0.019	0.019	0.016	0.016	1/32	0.79	1/32	0.79
	3322	100	6.9	0.040	0.040	0.034	0.034	3/64	1.19	3/64	1.19
	3323	90	6.2	0.070	0.040	0.060	0.034	1/16	1.59	3/64	1.19
	3326	75	5.2	0.070	0.070	0.060	0.060	1/16	1.59	1/16	1.59
	3334	25	1.7	0.170	0.040	0.145	0.034	3/32	2.38	3/64	1.19
3-WAY Directional Control	3410	225	16	0.019	0.019	0.016	0.016	1/32	0.79	1/32	0.79
	3417	150	10	0.040	0.040	0.034	0.034	3/64	1.19	3/64	1.19
	3422	100	6.9	0.070	0.040	0.060	0.034	1/16	1.59	3/64	1.19
	3426	75	5.2	0.070	0.070	0.060	0.060	1/16	1.59	1/16	1.59
	3429	50	3.4	0.155	0.040	0.132	0.034	3/32	2.38	3/64	1.19

- 3 Body Material**
- 01 303 Stainless Steel
  - 03 Brass
  - 05 316 Stainless Steel

- 4 Body Port**
- LC 1/8" NPT Female
  - MM Manifold Mount (1/4"-28 Stud)

- 5 Seal Material**
- B Nitrile
  - E EPR
  - V Viton®

- 6 Coil Construction**
- G1 Grommet Housing, Tape-Wrapped (Class B) Lead Wires
  - G5 Grommet Housing, Epoxy Encapsulated (Class B) Lead Wires



- 7 Supply Voltages**
- AC Voltage - Copper shading ring standard
- 111 120/60 VAC
- DC Voltage
- 203 12 VDC
  - 204 24 VDC

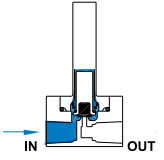
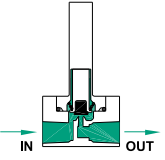
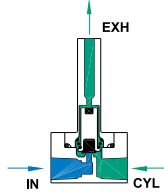
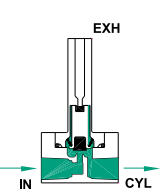
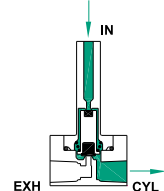
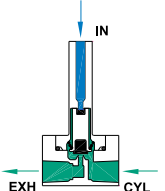
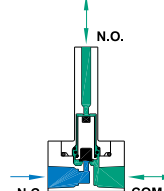
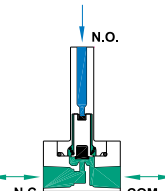
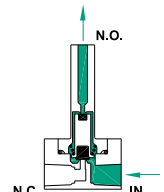
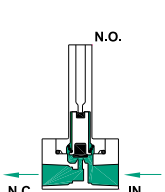
# AG Series – Additional Component Details & Dimensions

**1** Valve Function

Flow Schematics

**Flow Key**

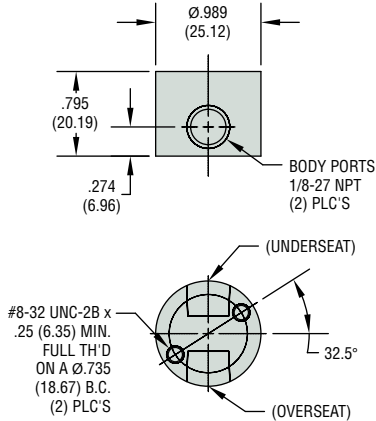
 Blocked Flow    O/S = Over Seat  
 Free Flow        U/S = Under Seat

Valve Type	De-Energized	Energized
<b>2-Way Normally Closed</b>		
<b>3-Way Normally Closed</b>		
<b>3-Way Normally Open</b>		
<b>3-Way Multi Purpose</b>		
<b>3-Way Directional Control</b>		

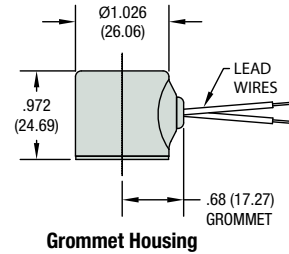
# AG Series – Additional Component Details & Dimensions, cont.

## 4 Body Port

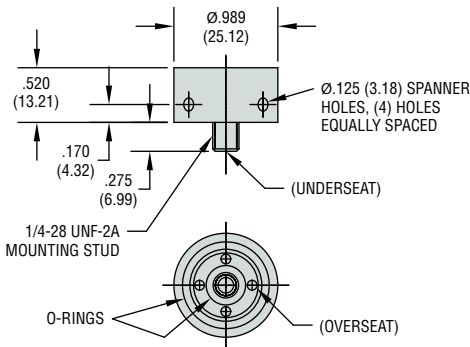
### 1/8" NPT Port (LC)



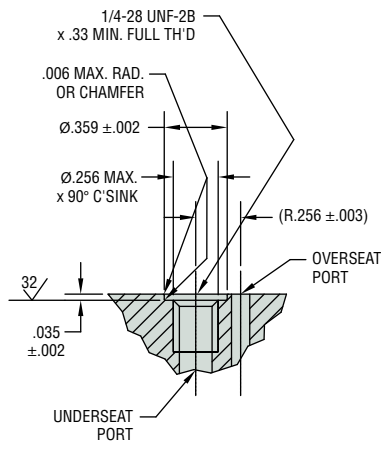
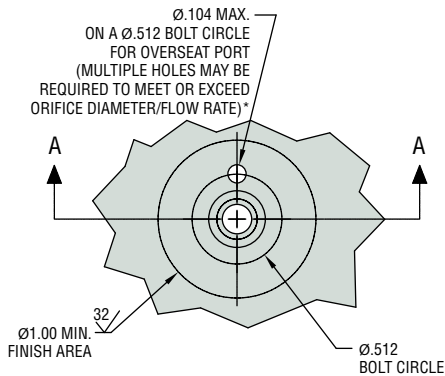
## 6 Coil Construction



### Manifold Mount 1/4"-28 Stud Body (MM)



### Manifold Preparation



\* If the total area of overseat port is less than the orifice diameter, then the overseat is the restrictor.

Valve Type	Overseat Port	Underseat Port
2-Way N.C.	IN	OUT
3-Way N.C.	CYL	IN
3-Way N.O.	CYL	EXH
3-Way M.P.	COM	N.C.
3-Way D.C.	IN	N.C.