AS Series

- MOPD: 150 PSI (10 Bar)
- C_V Range: 0.02 to 0.30 (K_V Range: 0.017 to 0.256)
- 7 Watts

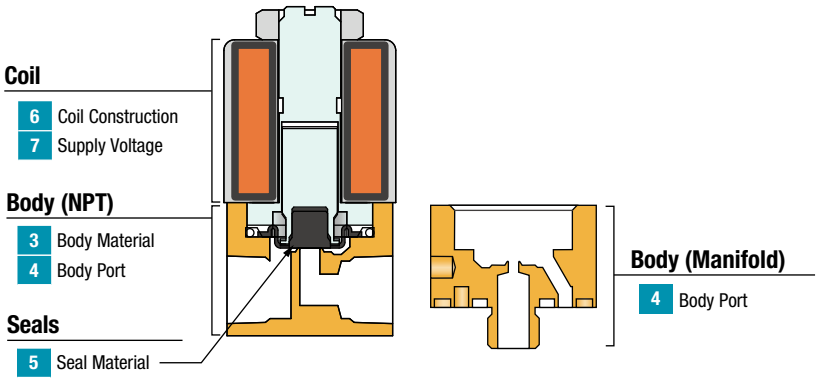
The AS Series is a 2-way isolation valve, designed to control the flow of various aggressive liquids and gases with several body and diaphragm materials. With a modular design, the AS offers performance flexibility and the protection your media needs from the solenoid's internal components. Numerous port configurations, voltage options, and coil constructions enable the AS Series to be a truly versatile miniature inert isolation valve, easily integrated into any complex or demanding system.

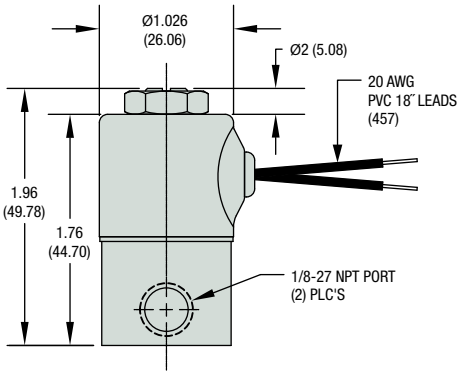
Typical Applications

- Analytical Instruments
- Clinical Diagnostic Analyzers
- Bio-Instrumentation

Reference

2-Way Valve





Example Shown
Part Number: AS2036-01LC-V-G1-204
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.

AS	20	36	–	01	LC	–	V	–	G1	–	204
Series	1 Function	2 MOPD	–	3 Body Material	4 Body Port	–	5 Seal Material	–	6 Coil Construction	–	7 Supply Voltage

Product Description from Example Shown Above:

AS2036-01LC-V-G1-204

AS2036 = AS **Series** with 2-Way Normally Closed Valve **Function**; 15 **MOPD**
-01LC = 303 Stainless Steel **Body Material**; 1/8˝ NPT Female **Body Port**
-V = Viton® **Seal Material**
-G1 = Grommet Housing, Tape-Wrapped (Class B) **Coil Construction**
-204 = 24 VDC **Supply Voltage**

AS Series – Part Number Build

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

AS	___ ___	___ ___	-	___ ___	___ ___	-	___	-	___ ___	-	___ ___ ___
Series	1	2		3	4		5		6		7

1 + 2 Valve Function & Maximum Operating Pressure Differential

Valve Function	Code	MOPD		Max Back Pressure		C_v	K_v	Orifice	
		psig	bar	psig	bar	Body		Body	
								inches	mm
2-WAY Normally Closed	2017	150	10	5	0.3	0.020	0.017	1/32	0.79
	2021	110	7.6	5	0.3	0.035	0.030	3/64	1.19
	2023	90	6.2	5	0.3	0.065	0.055	1/16	1.59
	2027	70	4.8	5	0.3	0.090	0.077	5/64	1.98
	2030	45	3.1	5	0.3	0.155	0.132	3/32	2.38
	2036	15	1.0	5	0.3	0.240	0.205	1/8	3.18
	2038	5	0.3	5	0.3	0.300	0.256	5/32	3.97

3 Body Material

01 303 Stainless Steel
03 Brass
05 316 Stainless Steel
XX No Body
(4 Body Port **OB** only)

4 Body Port

LC 1/8˝ NPT Female
MM Manifold Mount (1/4˝-28 Stud)
OB Omit Body (operator only)*
(3 Body Material **XX** only)

5 Seal Material

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

203 12 VDC
204 24 VDC

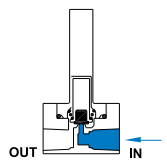
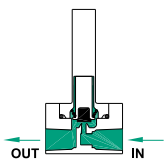
* Contact Gems for the operator orifice drawings

AS Series – Additional Component Details & Dimensions

1 Valve Function

Flow Schematic

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

Valve Type	De-Energized	Energized
2-Way Normally Closed		

SOLENOID VALVES

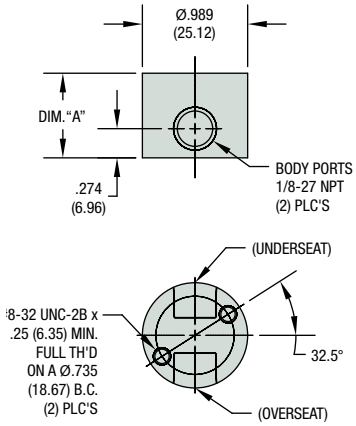
AS Series – Additional Component Details & Dimensions, cont.

4 Body Port

Note: Contact Gems for the operator orifice drawings

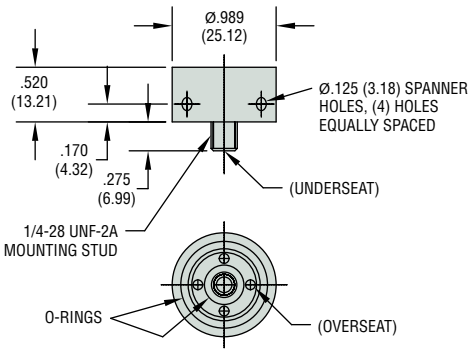
Ported Bodies

1/8″ NPT Port (LC)

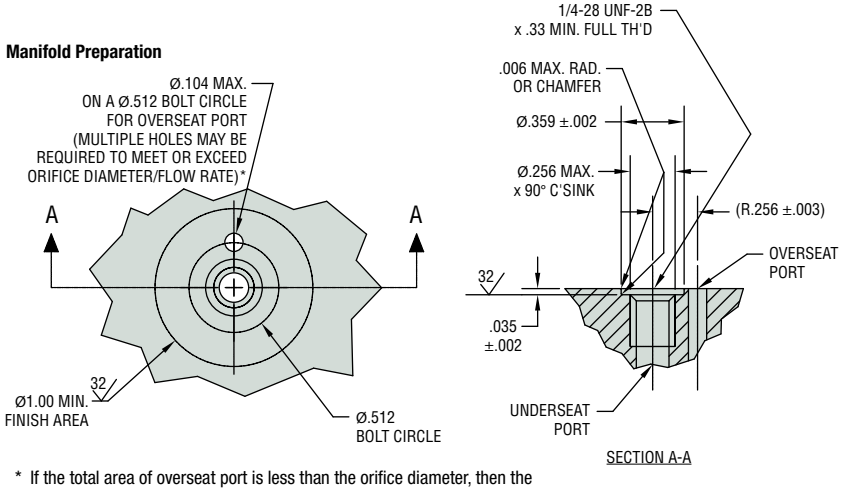


Orifice Size Range	Dim. "A"
1/32″ – 3/32″	.795 (20.19)
1/8″ & 5/32″	.820 (20.83)

Manifold Mount 1/4″-28 Stud Body (MM)



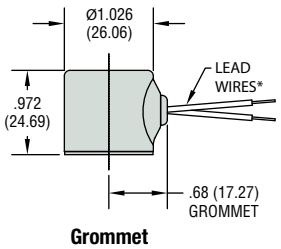
Manifold Preparation



* 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.	OUT	IN

6 Coil Construction



Grommet