



The Series AM Valves are suitable for a wide range of OEM applications where small size, low power, and long life are a must.

- Cycle life in the hundreds of millions
- Corrosion resistant materials of construction
- Manifold mount construction allows for easy assembly
- Magnetic latching construction available to maintain valve position with loss of power, eliminate coil heat rise, and extend battery life

Construction

Valve Parts in Contact with Fluids	
Body	POM/300 Series Stainless Steel or all 300 Series Stainless Steel
Disc	FKM
Gaskets	FKM
Bobbin/CoreTube	PBT
Core and Plugnut	400 Series Stainless Steel
Springs	300 Series Stainless Steel

Electrical

Standard Voltages	6, 12, 24 VDC+ 10%, -5% 115 VAC (with rectifier in lead wires)
Power Consumption	0.65-2.0 Watts (10 watts for latching version)
Duty Cycle Rating	Continuous (Intermittent for latching version)
Coil Insulation	266°F (130°C)
Electrical Connection	26 gage lead wire

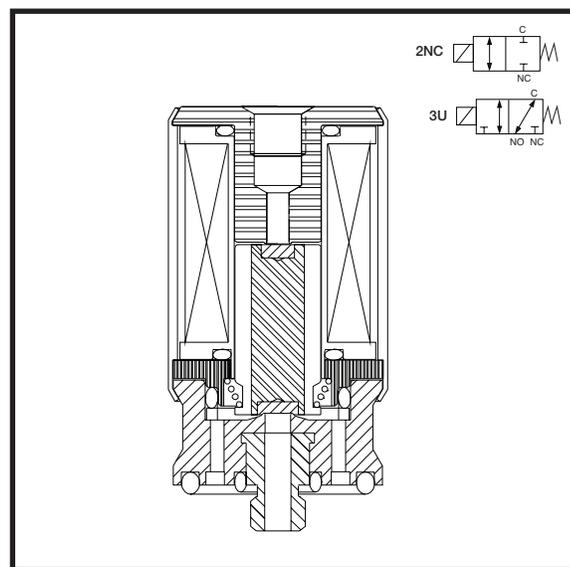
Valve

Response time	~5 ms at rated voltage (2 watt coil) ~12 ms at rated voltage (0.65 watt coil)
Internal Volume	2-way NC = 360 µL, 2-way NO = 400 µL, 3-way = 400 µL
Options	<ul style="list-style-type: none"> • Oxygen service construction available • Lubricant free construction available
Vacuum Rating	29" Hg

Alternative Constructions

Many alternative constructions are available and include a variety of voltages, electrical connectors, and materials of construction. ASCO Scientific can also custom design a valve for your specific application.

Contact your local ASCO sales office for more information.



Temperature Range:

Ambient & Media:
 32°F to 77°F (0°C to 25°C) continuous duty
 up to 104°F (40°C) intermittent duty

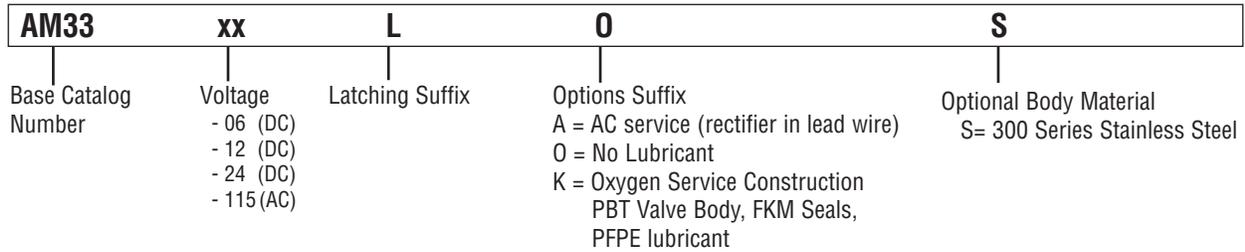
Approvals:

Meets applicable CE directives

Specifications

Mounting Stud	Orifice Size (ins.)	Cv Flow Factor	Maximum Pressure (psi)	Catalog Number	Watt Rating @ 20°C	Weight (oz.)
2-WAY NORMALLY CLOSED (Closed when de-energized)						
#10-32 UNF	0.025	0.015	110	AM11xx	0.65	1.3
#10-32 UNF	0.055	0.038	50	AM21xx	0.65	1.3
#10-32 UNF	0.055	0.038	100	AM31xx	2.0	1.3
#10-32 UNF	0.090	0.07	30	AM41xx	2.0	1.3
3-WAY UNIVERSAL OPERATION (Pressure at any port)						
#10-32 UNF	0.025/0.025	0.015/0.013	110	AM13xx	0.65	1.3
#10-32 UNF	0.055/0.048	0.038/0.033	50	AM23xx	0.65	1.3
#10-32 UNF	0.055/0.048	0.038/0.033	100	AM33xx	2.0	1.3
#10-32 UNF	0.090/0.078	0.07/0.06	30	AM43xx	2.0	1.3
2-WAY LATCHING						
#10-32 UNF	0.025	0.015	110	AM11xxL	10*	1.8
#10-32 UNF	0.055	0.038	100	AM31xxL	10*	1.8
#10-32 UNF	0.090	0.07	30	AM41xxL	10*	1.8
3-WAY LATCHING						
#10-32 UNF	0.025/0.025	0.015/0.013	110	AM13xxL	10*	1.8
#10-32 UNF	0.055/0.048	0.038/0.033	100	AM33xxL	10*	1.8
#10-32 UNF	0.090/0.078	0.07/0.06	30	AM43xxL	10*	1.8
Notes						
xx Denotes place in catalog number for voltage, three characters may be used when required. * Latching valves are designed for intermittent duty only. Wattage rating applies to 20 – 30 ms duration required to actuate valve. Once switched no additional power is required to hold the valve in its position. NOTE - Normally Open - Consult Factory.						

Catalog Number Description and Options



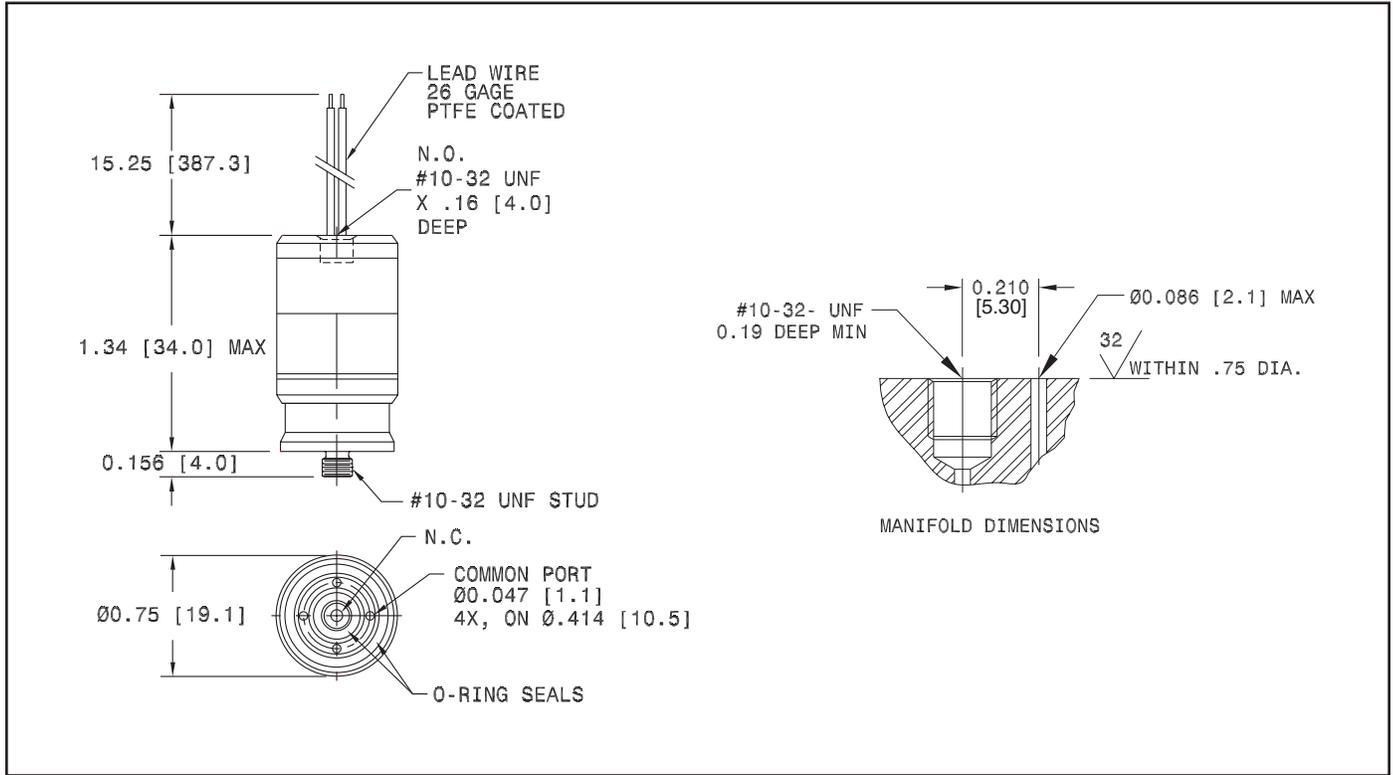
To Construct Catalog Number

- Select base catalog number
- Insert voltage into the 5th, 6th, (and 7th when required), digits denoted by “xx”
- Add suffix for optional features to end of base catalog number

Examples

AM1124 = 2-way Normally Closed valve with 0.025" orifice, 110 psig max pressure rating, and 24 VDC coil rated at 0.65 watts.
 AM32115A = 2-way Normally Open valve with 0.048" orifice, 100 psig max pressure rating, and 115 VAC coil with rectifier.
 AM4306LK = 3-way Latching valve with 0.090" and 0.078" orifices, 30 psig max pressure rating, 6 VDC coil and suitable for oxygen service.

Dimensions 2 and 3-Way Standard Solenoid: Inches [mm]



Dimensions 2 and 3-Way Latching Solenoid: Inches [mm]

