A LINE OF OUTSTANDING 2-WAY & 3-WAY SOLENOID VALVES

SMALLER IN SIZE • GREATER Cv FACTORS
LESS POWER REQUIRED • SIMPLICITY IN Wiring
ACHIEVED THROUGH
SUPERIOR DESIGN AND DIMENSIONAL QUALITY CONTROL

3-WAY VALVES are available as Normally Closed, Normally Open or Multi-Purpose.
2-WAY VALVES are available as Normally Closed or Normally Open. All types can be supplied in various operating pressure ranges with 1/8" or 1/4" N.P.T. Ports. To satisfy a wide variety of applications, the valve bodies are offered in Hardcoated Aluminum, Brass or Stainless Steel.

Voltages: 12, 24, 120 & 240/60 AC and 6, 12 & 24VDC are standard.
Special voltages available upon request.

Temperature Range: -40°F to +190°F.

Orifices: From 3/64" to 1/8".
Pressures: Vacuum To 250 P.S.I.
Media: Pneumatic & Hydraulic.
# GENERAL PURPOSE

## 3-WAY VALVES
- Available as normally closed, normally open or multi-purpose.

## 2-WAY VALVES
- Available as normally closed or normally open.

### 3-WAY VALVES
- **NORMALLY CLOSED**: AVAILABLE AS NORMALLY CLOSED, NORMALLY OPEN OR MULTI-PURPOSE.
- **2-WAY VALVES**: AVAILABLE AS NORMALLY CLOSED OR NORMALLY OPEN.

### ORDERING PROCEDURE
1) **STANDARD VALVE**
   - SPECIFY: Catalog Number and Voltage.
2) **STANDARD VALVE with OPTIONS**
   - SPECIFY: Catalog Number, Option Code and Voltage

### CATALOG NUMBERS - SPECIFY OPTIONS AND VOLTAGE

<table>
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<tr>
<th>TYPE</th>
<th>Maximum Operating Pressure</th>
<th>Orifice Size</th>
<th>Inlet Size</th>
<th>Cv Factor</th>
<th>Inlet</th>
<th>Exhaust</th>
<th>Aluminum Hardcoated</th>
<th>Brass</th>
<th>Stainless</th>
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### DIMENSIONS

- **3-WAY & 2-WAY SOLENOID VALVES**
- **1/8” & 1/4”**

- **OPTIONAL (CONDUIT HOUSING SHOWN)**
- **OPTIONAL (NEMA 6 HOUSING SHOWN)**
- **STANDARD (SPLICE BOX HOUSING SHOWN)**

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*Standard on 3-Way N.O., M.P. and 2-Way N.O.*
2-WAY & 3-WAY
1/8” & 1/4”
SOLENOID VALVES

EXPLOSION-PROOF

THE SMALLEST 2-WAY 3-WAY EXPLOSION-PROOF SOLENOID VALVES WITH STANDARD FLOW CHARACTERISTICS These valves are UL listed for use in hazardous locations Class I, Groups C D (NEMA 7) and Class II, Groups E, F G (NEMA 9).

SPADE TERMINALS: ADD THE SUFFIX LETTER “Y” TO THE CATALOG NUMBER.

NON-LOCKING MANUAL OVER-RIDE LEVER: Particularly useful for set-up and electrical failure. ADD THE SUFFIX LETTER “O” TO THE CATALOG NUMBER.

METER IN: Allows adjusting of the inlet flow. ADD THE SUFFIX LETTER “M” TO THE CATALOG NUMBER (Not available with over-ride).

1.5 WATT: Available on normally closed valves with any housing or option. 6, 12 or 24VDC voltage ONLY. ADD THE SUFFIX LETTER “N” TO THE CATALOG NUMBER.

INDICATOR LIGHT: Available on Splice Box housing ONLY. Light indicates when solenoid is energized. ADD SUFFIX LETTER “L” TO THE CATALOG PART NUMBER Example: 120/60L

GROMMET HOUSING: ADD THE SUFFIX LETTER “G” TO THE CATALOG NUMBER.


INDUSTRIAL OXYGEN SERVICE: ADD THE SUFFIX LETTERS “IOS” TO THE CATALOG NUMBER.

CONDUIT HOUSING: ADD THE SUFFIX LETTER “C” TO THE CATALOG NUMBER.

HOUSING BRACKET: ADD THE SUFFIX LETTERS “HB” TO THE CATALOG NUMBER.

DIN-type HOUSING: DIN 43650/ ISO 4400. ADD THE SUFFIX LETTER “YD” TO THE CATALOG NUMBER.

NEMA 4 HOUSING: ADD THE SUFFIX “JIC” TO THE CATALOG NUMBER.

NEMA 6 HOUSING: ADD THE SUFFIX “N6” TO THE CATALOG NUMBER.

Coil Housing is nickel plated and epoxy filled to provide a corrosion resistant water tight barrier.

DIMENSIONS
EXPLOSION PROOF & NEMA 6

**Standard on 3-Way N.O., M.P. and 2-Way N.O.

<table>
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<tr>
<th>DIM.</th>
<th>EXPLOSION PROOF</th>
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<td>2-13/16</td>
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<td>C</td>
<td>2-13/16</td>
<td>1-11/16</td>
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<tr>
<td>D</td>
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<td>18/32</td>
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<tr>
<td>E</td>
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*PIPED EXHAUST ADAPTER 1/8” OR 1/4” N.P.T.

1/8 OR 1/4 N.P.T.

1/4" N.P.T. CONDUIT

OPTIONAL OVER-RIDE LEVER

(2) 10-32 X 1/4 DP. MOUNTING HOLES

ADDITIONAL PARTS

EXPLOSION-PROOF 2-WAY & 3-WAY SOLENOID VALVES

ADDITIONAL OPTIONS

ADD THE PREFIX LETTER “X” TO THE CATALOG NUMBER TO SPECIFY EXPLOSION-PROOF

COIL HOUSING IS NICKEL PLATED AND EPOXY FILLED TO PROVIDE A CORROSION RESISTANT WATER TIGHT BARRIER.


METER IN: ALLOWS ADJUSTING OF THE INLET FLOW. ADD THE SUFFIX LETTER “M” TO THE CATALOG NUMBER (NOT AVAILABLE WITH OVER-RIDE).

1.5 WATT: AVAILABLE ON NORMALLY CLOSED VALVES WITH ANY HOUSING OR OPTION. 6, 12 OR 24VDC VOLTAGE ONLY. ADD THE SUFFIX LETTER “N” TO THE CATALOG NUMBER.

INDUSTRIAL OXYGEN SERVICE: ADD THE SUFFIX LETTERS “IOS” TO THE CATALOG NUMBER.
MISCELLANEOUS INFORMATION & ACCESSORIES

ADJUSTABLE EXHAUST
Available for 3-way normally closed only.
PART NUMBER EA-21

PIPED EXHAUST
Available for 3-way normally closed only.
Only in 1/8 N.P.T. or 1/4 N.P.T.
PART NUMBER
1/8 N.P.T. EA-19
1/4 N.P.T. EA-19-4

FILTER SILENCER
Available for top exhaust
PORT on 3-way valves.
PART NUMBER EA-27
Also available for Body Ports
S-1/8 FOR 1/8 N.P.T.
S-1/4 FOR 1/4 N.P.T.

Note: Accessories must be ordered as separate items.

All connectors are rated for 10 amp service and are supplied with a silicon gasket (EA-305S) rated at 125°C. The metal encased potted coil housing, when used with the appropriate female connector, is designed to fulfill NEMA requirements 1 - 4, 12 and 13.

ALLENAIR’S FLEXIBILITY ALLOWS FOR A WIDE VARIETY OF SPECIAL VALVES.
CONTACT ALLENAIR WITH YOUR SPECIAL REQUIREMENTS.

FLOW DIRECTION

DE- ENERGIZED
PORT "B" TO CYL
PORT "A" CLOSED IN
PORT "C" OPEN EXHAUST
PORT "B" EXH FROM CYL

ENERGIZED
PORT "B" TO CYL
PORT "A" CLOSED IN
PORT "C" CLOSED
PORT "B" EXH FROM CYL
PORT "C" OPEN EXHAUST
PORT "B" EXH FROM CYL

LEGEND:
PRESSURE
EXHAUST
INACTIVE

Note: Multi-purpose valves may be operated with air inlet at Port A, B or C. Follow flow direction according to method used.