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Doc. AA-P2-2022.08.08

# **P2 Series**

# PVC / CPVC Full Port 2-way Ball Valve



# **END CONNECTIONS**

NPT Threaded: 1/2" to 2" Glue Socket: 1/2" to 4"

## **MAXIMUM PRESSURE**

232 PSIG (at 73°F) see Pressure/Temperature Curve

#### **TEMPERATURE RANGE**

**PVC:** 32°F to 140°F **CPVC:** 32°F to 212°F

#### MATERIALS

Body: PVC or CPVC Seats: PTFE Seals: EPDM or Viton<sup>®</sup> Ball & Stem: PVC or CPVC **The Assured Automation** P2 Series ball valves offer a variety of advanced features such as a high quality stem and ball support system, and a multifunctional locking handle. The new Dual Block<sup>®</sup> system locks the union nuts preventing back-off due to vibration or thermal cycling. Deep grooves, thick o-rings, and cushioned PTFE seats contribute to strong seals at pressures up to 232 PSI while an integral mounting flange and support bracketing combine for simple adaptation for valve actuation and anchoring.

# **FEATURES**

- Expansion and contraction compensating groove on the molded end of the valve body.
- Valve body, union nuts, and carrier have deep square style threads for increased strength.
- Ball and stem are machined smooth to minimize wear on valve seats and seals.
- All valve seats have o-ring backing cushions to compensate for wear and prevent seizure of the ball.
- Stem design features double o-ring seals as well as a safety shear point above the o-rings.
- All of the valve materials comply with standards that are equivalent to NSF Standard 61 for potable water.
- An integrated molded bracket for valve and pipeline mounting is standard.
- Integrated valve
  see page 2 for feature details

# **TYPICAL APPLICATIONS**

- Seawater
- Corrosive Liquids
- Pollution Control Equipment
- Process Control Applications
- Laundry Equipment
- Textile Dyeing & Drying
- Bottling & Dispensing Equip.
- Ink & Paint Dispensing
- Chemical Process Equipment
- Custom Ball Valve Assemblies

# ACTUATORS

Electric

- Pneumatic
- Spring Return

# Double Acting Manual handle lever

see page 4 for accessory details

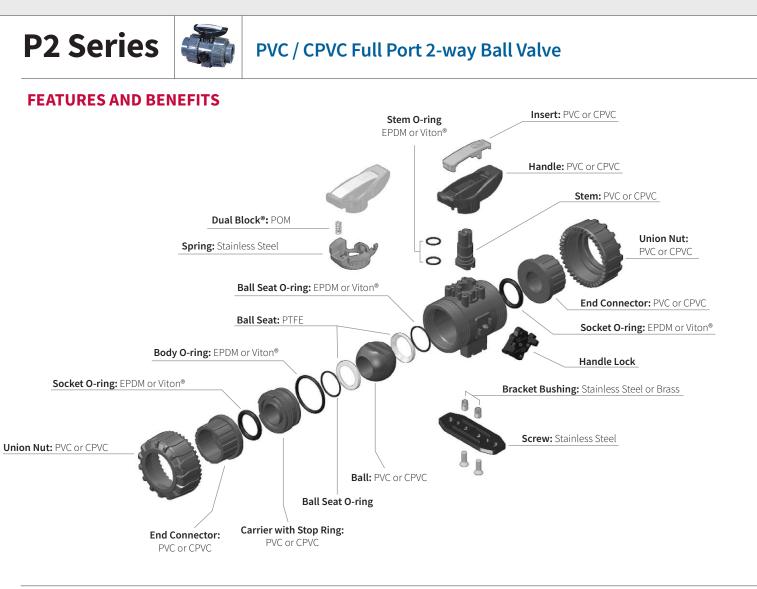




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## **DUAL BLOCK® LOCKING SYSTEM**

The patented Dual Block<sup>®</sup> system allows the P2 line of valves to excel in working conditions where vibrations or thermal expansion may affect the performance of ordinary true union valves. The patented system incorporates a union nut locking device which prevents back-off during severe service conditions.





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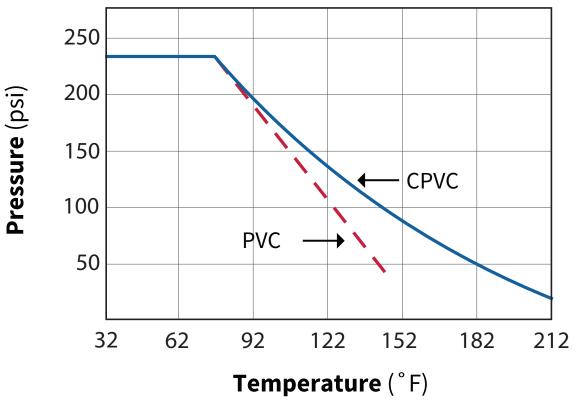


**P2 Series** 



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### **PRESSURE/TEMPERATURE CURVE**



# **Cv FACTORS**

| Size   | C <sub>V</sub> (gpm) |
|--------|----------------------|
| 1/2"   | 14                   |
| 3/4"   | 27                   |
| 1"     | 54                   |
| 1-1/4" | 77                   |
| 1-1/2" | 123                  |
| 2"     | 238                  |
| 1 1/2" | 368                  |
| 3"     | 936                  |
| 4"     | 665                  |

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# **ACTUATORS AVAILABLE**

A full range of actuators are available to choose from. All sizing is done by Assured Automation to make selecting your assembly easy. Any accessories ordered with the actuator will be installed and tested by our ISO certified facility.

# Pneumatic

P Series Dual Scotch Yoke





**Spring Return** fail open or closed

**Double Acting** fail in place

F Series Dual Rack and Pinion



Spring ReturnDouble Actingfail open or closedfail in place

<u>(see **F series** web page)</u>

## Accesssories

- NAMUR direct mount solenoid valves
- Variety of limit switches

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- Modulating positioners
- 1/4" NPT x 1/4" tube push fittings
- 1/4" NPT x 1/4" compression fittings
- SS and poly tubing

<u>(see **P series** web page)</u>

# **Electric** Weatherproof

V4 Series



- 12 or 24 VDC, 120 VAC
- Manual override
- NEMA-4/4X housing
- External wire leads
- High Strenght Gears

(see V4 series web page)





#### **R4 Series**



#### 12 or 24 VDC, 120 VAC

- Compact Design
- Thermally protected motor
- Spur Gear Drive

#### (see R4 series web page)

#### **S4** Series



#### 24 to 240 VAC/VDC

- Isolated end of travel limit switches
- Manual override
- Electronic torque limiter (see **S4 series** web page)

### Explosion Proof B7 Series Heavy Duty



#### 24 VDC or 120 VAC

• NEMA 4/4X/7 enclosure

- Heater and thermostat installed in all actuators
- Manual override on all units

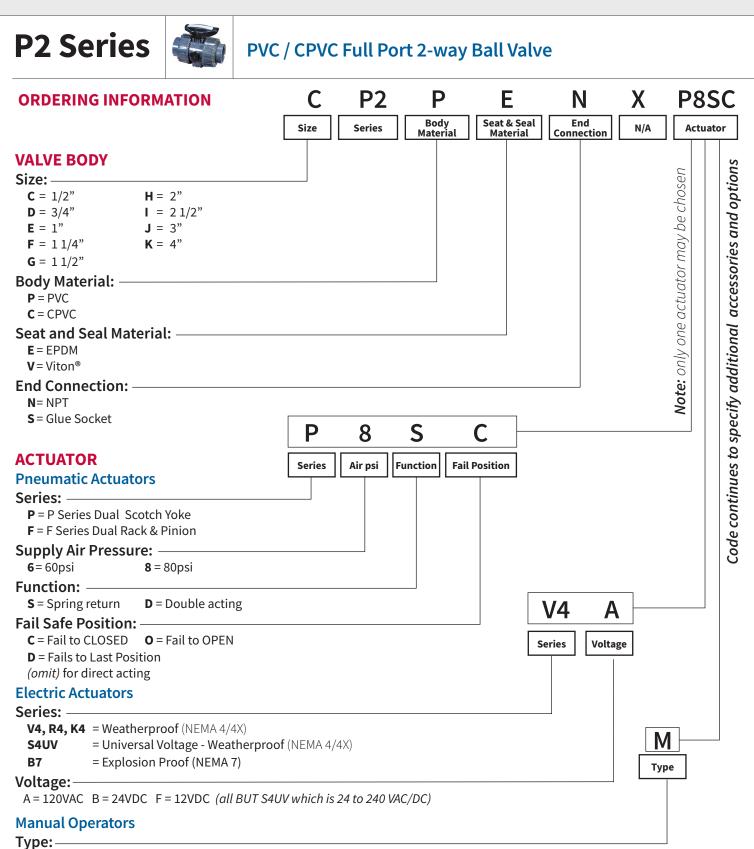
(see B7 series web page)



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**M** = basic lever with locking device

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PVC / CPVC Full Port 2-way Ball Valve

# ACCESSORIES

### **Solenoid Valves**

NAMUR solenoid valves for direct mount to the actuator. Various coil and connector options are available including weatherproof, explosion proof, corded, NPT conduit, and cable gland.

#### 3-way

for spring return models

3/4-way for for double acting models





#### Solenoid valve web page

**Limit Switches** (valve position indicators) Used to communicate the position of the valve to a PLC, HMI, or simple remote indicator lamp. Various switch technologies are available. All include a local visual indicator as well.

#### **UA/UB Series**

2x Solid state proximity switches; 1 for Open, 1 for Closed



**YF Series** 2x SPDT mechanical switches; 1 for Open, 1 for Closed



#### YE, YH, YO Series

2x Solid State Proximity Sensors or SPDT solid state switches



Other limit switches are available Limit Switch web page

## **Modulating Positioners**

Add modulating control to either of our pneumatic actuator series. These positioners mount to the top of the actuator using the NAMUR standard mounting hole and stem pattern.

#### Pneumatic

0-15 psi control signal



**Electro-pneumatic** 4-20mA control signal



# With feedback unit

4-20mA feedback signal or 2x SPDT switches



#### Positioner web page