The Model 115-1 has an extremely wide range of applications anywhere it is necessary to open and close a valve electrically. Typical examples include:

- Process control
- Irrigation systems
- Storage tank level control
- Automated wash systems
- Automated fountains
- Dust control

**SERIES FEATURES**

- Electrically operated solenoid allows valve to open or close
- Can be maintained without removal from the line
- Adjustable response speed
- Factory tested and can be pre-set to your requirements
- Exhaust-to-atmosphere operation allows minimum pressure loss

**OPERATION**

A three-way solenoid, in one position, connects supply pressure to the main valve diaphragm chamber, causing the main valve to close. In the other position, the solenoid connects the diaphragm chamber to the atmosphere, allowing the valve to open fully. The pilot system is equipped with a needle valve that allows the opening and closing speed of the valve to be adjusted.

The solenoid can be supplied for either energize-to-open or energize-to-close operation.

**COMPONENTS**

The Model 115-1 consists of the following components, arranged as shown on the schematic diagram:

1. Model 65 Basic Control Valve
2. Model 452 Three-way Solenoid Pilot
3. Model 141-2 Needle Valve
   - Adjustable response speed
4. Model 159 Y-strainer
   - Protects pilot system from dirt/debris
5. Model 141-4 Isolation Ball Valves
6. Model 155 Visual Indicator (Optional)

**SIZING**

Definitive sizing information can be found in the OCV Catalog, Series 115 section and Engineering section Performance Charts. Consult the factory for assistance and a copy of the OCV ValveMaster Sizing program.

**MAX. PRESSURE**

The pressures listed here are maximum pressures at 100°F. Also, working pressures of solenoids vary greatly, consult factory on application of OCV Model 115-1 valves when pressures exceed those stated in chart.

<table>
<thead>
<tr>
<th>END CONNECTIONS</th>
<th>DUCTILE IRON</th>
<th>STEEL/STN STL</th>
<th>LOW-LEAD BRONZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded</td>
<td>400 psi</td>
<td>400 psi</td>
<td>400 psi</td>
</tr>
<tr>
<td>Grooved</td>
<td>300 psi</td>
<td>300 psi</td>
<td>300 psi</td>
</tr>
<tr>
<td>150# Flanged</td>
<td>250 psi</td>
<td>285 psi</td>
<td>225 psi</td>
</tr>
<tr>
<td>300# Flanged</td>
<td>400 psi</td>
<td>400 psi</td>
<td>400 psi</td>
</tr>
</tbody>
</table>

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email: sales@controlvalves.com  website: www.controlvalves.com

Global performance. Personal touch.
**Model 115-1**

**SIZES**

- **GLOBE/ANGLE**
  - Screwed Ends - 1 1/4" - 3" (globe)
  - 1-1/2" - 4" (angle)
  - Grooved Ends - 1 1/4" - 24" (globe)
  - 1 1/4" - 16" (angle)

**FLUID OPERATING TEMPERATURE RANGE**

(Valve Elastomers)

- EPDM 32° F - 230°F*

**MATERIALS**

**Body/Bonnet:** Ductile Iron (epoxy coated), Carbon steel (epoxy coated), Stainless steel, low-lead Bronze

**Seat Ring:** low-lead Bronze, Stainless Steel

**Stem:** Stainless Steel, Monel

**Spring:** Stainless Steel

**Diaphragm:** EPDM*

**Other pilot system components:** low-lead Bronze/Brass, All Stainless Steel

**Tubing & Fittings:** Copper/Brass, Stainless Steel

**Solenoid:**

- Body: Brass, Stainless Steel

**Enclosure:** Weatherproof NEMA 4X / Explosion Proof NEMA 4X, 6P, 7, 9

**Voltages:** 24, 120, 240, 480 VAC / 12, 24 VDC

**OPERATING CONDITIONS**

- Fluid shut-off valve shall be suitable for pressures of <<X to X>> psi at flow rates up to <<X>> gpm.

**ACCEPTABLE PRODUCTS**

- The solenoid shut-off valve shall be a <<size>> Model 115-1, globe pattern, angle pattern, with <<150 # flanged, 300 # flanged, threaded, grooved>> end connections, as manufactured by OCV Control Valves, Tulsa, Oklahoma, USA.

**U.S. DIMENSIONS - INCHES**

| DIM | CONN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| A   | SCREWED | 8/34 | 9/78 | 10/12 | 13 | 13 1/4 | 15 1/4 | 20 | 20 1/4 | 25 1/4 | 25 1/2 | 29 3/4 | 34 | 39 | 40 3/8 | 62 |
|     | GROOVED | 8/34 | 9/78 | 10/12 | 13 | 13 1/4 | 15 1/4 | 20 | 20 1/4 | 25 1/4 | 25 1/2 | 29 3/4 | 34 | 39 | 40 3/8 | 62 |
|     | 150# FLGD | 8/34 | 9/78 | 10/12 | 13 | 13 1/4 | 15 1/4 | 20 | 20 1/4 | 25 1/4 | 25 1/2 | 29 3/4 | 34 | 39 | 40 3/8 | 62 |
|     | 300# FLGD | 8/34 | 9/78 | 10/12 | 13 | 13 1/4 | 15 1/4 | 20 | 20 1/4 | 25 1/4 | 25 1/2 | 29 3/4 | 34 | 39 | 40 3/8 | 62 |

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