The Model 115-2 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
- Petroleum loading terminals
- 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

OPERATION

A two-way solenoid, when closed, causes the main valve to close. Opening the solenoid opens the valve. 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 normally closed (energize to open) or normally open (energize to close).

COMPONENTS

The Model 115-2 consists of the following components, arranged as shown on the schematic diagram:

1.) Model 65 Basic Control Valve
2.) Model 451 Two-way Solenoid Pilot
3.) Model 126 Ejector
   - Fixed orifice pilot system supply restrictor
4.) Model 141-2 Needle Valve
   - Adjustable response speed
5.) Model 159 Y-strainer
   - Protects pilot system from dirt/debris
6.) Model 141-4 Isolation Ball Valves
7.) Model 155 Visual Indicator (Optional)

END CONNECTIONS

<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>300 psi</td>
<td>300 psi</td>
<td>300 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>300 psi</td>
<td>300 psi</td>
<td>300 psi</td>
</tr>
</tbody>
</table>

TOLL FREE 1.888.628.8258  •  phone: (918)627.1942  •  fax: (918)622.8916  •  7400 East 42nd Place, Tulsa, Ok 74145
email: sales@controlvalves.com  •  website: www.controlvalves.com

Global performance. Personal touch.
**SIZES**

<table>
<thead>
<tr>
<th>Screwed Ends</th>
<th>1 1/4&quot; - 3&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grooved Ends</td>
<td>1 1/2&quot; - 6&quot; (globe); 1 - 1/2&quot; - 4&quot; (angle)</td>
</tr>
<tr>
<td>Flanged Ends</td>
<td>1 1/4&quot; - 24&quot; (globe); 1 1/4&quot; - 16&quot; (angle)</td>
</tr>
</tbody>
</table>

**FLUID OPERATING TEMPERATURE RANGE**

(Valve Elastomers: EPDM 32° F - 230°F*).

**MATERIALS** Consult factory for others.

- **Body/Bonnet**: Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, low-lead Bronze
- **Others available (consult factory)**
- **Seat Ring**: low-lead Bronze, Stainless Steel
- **Stem**: Stainless Steel, Monel
- **Spring**: Stainless Steel
- **Diaphragm**: EPDM*
- **Seat Disc**: EPDM*
- **Pilot**: low-lead Bronze, Stainless Steel
- **Other piston components**: low-lead Bronze/Brass, All Stainless Steel
- **Tubing & Fittings**: Copper/Brass, Stainless Steel
- **Solenoid**: Enclosure: Weatherproof NEMA 4X / Explosion Proof NEMA 4X, 6P, 7, 9
- **Body**: Brass, Stainless Steel
- **Voltages**: 24, 120, 240, 480 VAC / 12, 24 VDC

*Others available upon request.

**OPERATING CONDITIONS**

- The solenoid 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 115-2, <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 | 1 1/4-1 1/2 | 2 | 2 1/2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 24 |
|-----|-------------|---|-------|---|---|---|---|----|----|----|----|----|----|
| A   | SCREWED     | 8 3/4 | 9 7/8 | 10 1/2 | 13 | -- | -- | -- | -- | -- | -- | -- |
|     | GROoved     | 8 3/4 | 9 7/8 | 10 1/2 | 13 | 15 1/4 | 20 | -- | -- | -- | -- | -- |
| O   | SCREWED     | 4 3/8 | 4 3/4 | 6 | 6 1/2 | -- | -- | -- | -- | -- | -- | -- |
|     | GROoved     | 4 3/8 | 4 3/4 | 6 | 6 1/2 | 7 5/8 | -- | -- | -- | -- | -- | -- |
| 150# FLGD | 4 1/4 | 4 3/4 | 6 | 6 | 7 1/2 | 10 | 12 1/16 | 14 7/8 | 17 | -- | 20 13/16 | -- |
| 300# FLGD | 4 3/8 | 5 | 6 3/8 | 6 3/8 | 7 13/16 | 10 1/2 | 13 3/16 | 15 9/16 | 17 3/4 | -- | 21 5/8 | -- |
| D   | SCREWED     | 3 1/8 | 3 3/8 | 4 | 4 1/2 | -- | -- | -- | -- | -- | -- | -- |
|     | GROoved     | 3 1/8 | 3 3/8 | 4 | 4 1/2 | 5 1/8 | -- | -- | -- | -- | -- | -- |
| 150# FLGD | 3 | 3 7/8 | 4 | 4 1/2 | 5 1/2 | 6 | 8 | 11 3/8 | 11 | -- | 15 11/16 | -- |
| 300# FLGD | 3 1/8 | 4 1/8 | 4 3/8 | 4 3/8 | 5 13/16 | 6 1/2 | 8 1/2 | 12 1/16 | 11 3/4 | -- | 16 1/2 | -- |
| E   | ALL         | 6 | 6 | 7 | 6 1/2 | 8 | 10 | 11 7/8 | 15 3/8 | 17 | 18 | 19 | 27 |
| H   | ALL         | 10 | 11 | 11 | 11 | 12 | 13 | 14 | 17 | 18 | 20 | 26 1/2 | 27 |

**For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.**

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ 1-888-628-8258 for parts and service.

How to order your Model 115-2 valve

When ordering please provide:

- Fluid to be controlled - Model Number - Size
- Globe or Angle - End Connection - Body Material
- Trim Material - Solenoid Voltage - Energize to Open or Close Valve - Solenoid enclosure Weatherproof or Explosion Proof - Special Requirements / Installation requirements

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