The Model 115-3 has a wide range of applications: anywhere it may be required to position a valve electrically.

Typical examples include:
- Process control
- Supervisory flow or pressure control
- Automated fountains

**SERIES FEATURES**
- Electrically operated solenoids enable the valve to be opened, closed, or held in any position
- Can be maintained without removal from the line
- Independently adjustable opening and closing speeds
- Factory tested

The Model 115-3 is also the basis for the OCV Series 22 and Series 88 electronic control valves.

**OPERATION**
Two two-way solenoids operate the Model 115-3. The first connects the main valve inlet to the diaphragm chamber and, when it is open, causes the main valve to close. The second solenoid connects the diaphragm chamber to the main valve outlet and, when it is open, allows the main valve to open. A needle valve is installed in series with each solenoid, giving separate adjustment of the valve opening and closing speeds.

The solenoids can be supplied to give one of the following "default" modes on absence or loss of electrical power:
- Default to closed
- Default to open
- Default in last position

**COMPONENTS**
The Model 115-3 consists of the following components, arranged as shown on the schematic diagram:

1. Model 65 Basic Control Valve
2. Model 450 Two-Way Solenoid Pilot, N.O.
4. Model 141-2 Needle Valve
5. Model 159 Y-Strainer
   - Protects pilot system from dirt/debris
6. Model 141-4 Isolation Ball Valves
7. 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 115-3 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>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>
SIZES GLOBE/ANGLE
Screwed Ends - 1 1/4" - 3"
Grooved Ends - 1 1/2" - 6" (globe); 1 1/2" - 4" (angle)
Flanged Ends - 1 1/4" - 24" (globe); 1 1/4" - 16" (angle)

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 pilot system 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
Volages: 24, 120, 240, 480 VAC / 12, 24 VDC

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 at 1-888-628-8258 for parts and service.

How to order your Model 115-3 valve
When ordering please provide:
Fluid to be controlled - Model Number -Size - Globe or Angle - End Connection - Body Material - Trim
Material - Solenoid Voltage - Power failure mode: Open / Close / Hold last position - Solenoid enclosure Weatherproof or Explosion Proof - Solenoid exhaust to downstream or atmosphere - Special Requirements / Installation Requirements

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