modulating float control valve with adjustable air gap float pilot

installation, operating, and maintenance instructions

model 8102 or 8112

GENERAL DESCRIPTION

The OCV Models 8102 and 8112 are designed to hold a constant level in a tank or reservoir by modulating the flow either into (Model 8102) or out of (Model 8112) the tank. They can also be used for on-off service where it is acceptable or advantageous to throttle the valve over the last few inches of level change.

Both models include the Model 813 Air Gap type Float Pilot, especially designed for those applications where it is necessary to have an air gap between the float pilot and the fluid level and/or it is desirable to be able to adjust the float.

INSTALLATION

The main valve and pilot are installed as shown in the attached drawings. The main valve is installed in either the inlet or discharge line of the tank, depending on the application.

NOTE: For proper operation, the modulating float valve requires an inlet pressure at least 5 psi greater than tank head. This is particularly significant for the Model 8112 controlling flow out of the tank. It means simply that a gravity feed situation will not work! In any event, if the proper operating differential cannot be provided, contact the factory about converting your valve to one that will operate under low or zero differential conditions.

The 813 Float Pilot may be easily installed in the tank by means of the slotted holes in its mounting plate. It is of course installed at the desired distance above the fluid level. The only requirement in installation is that the float be kept clear of the tank walls or other obstacles within the tank. Once the pilot is installed the float may then be adjusted to any desired position on the float rod by means of the stop collars on either side of the float.

Finally a single, customer-supplied, sense line is installed between the ejector of the main valve and the float pilot, as shown. For proper operation, this line should have an I. D. of 3/8" or larger.

THEORY OF OPERATION

Operation of the 8102 and 8112 may be seen by referring to the schematic diagram.

The positioning (modulation) of the main valve (1) is governed by the amount of pressure applied to the upper side of its diaphragm. The amount of pressure is, in turn, determined by the balance of flows on and off the main valve bonnet. A fixed supply is provided to the bonnet from the ejector (3). A variable exhaust from the bonnet is provided by the float pilot (2). A movement of the float toward the "open" position causes an excess of exhaust over supply, which allows pressure acting under the seat of the main valve (1) to open the valve wider. Conversely, movement of the float toward the "closed" position re-
stricts the exhaust relative to the supply, which forces the main valve further closed. While the valve can be driven full open or full closed in this manner, in most applications the actual modulation will be over a narrow range in order to hold the tank level constant.

For flow into a tank (Model 8102), the float pilot is built so that increasing level tends to close the valve. For flow out of a tank (Model 8112), the float pilot is built so that increasing level tends to open the valve.

**CONTROLS ADJUSTMENT**

The only adjustable control on the 8102 and 8112 is the speed control, or needle valve (4). Turning the needle valve counterclockwise will allow the valve to open and close faster. Turning the needle valve clockwise will slow down both the closing and opening speeds. CAUTION: Never close the needle valve all the way, less the main valve be rendered inoperative.
MODULATING FLOAT VALVE
(Water Service)

FLOW

INDICATES FIELD-CONNECTED LINE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
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<td>65</td>
<td>1</td>
<td>BASIC VALVE ASSEMBLY</td>
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<tr>
<td>2</td>
<td>813</td>
<td>1</td>
<td>FLOAT PILOT</td>
</tr>
<tr>
<td>3</td>
<td>126</td>
<td>1</td>
<td>EJECTOR</td>
</tr>
<tr>
<td>4</td>
<td>141-2</td>
<td>1</td>
<td>NEEDLE VALVE</td>
</tr>
<tr>
<td>5</td>
<td>159</td>
<td>1</td>
<td>Y-STRAINER</td>
</tr>
<tr>
<td>6</td>
<td>141-4</td>
<td>2</td>
<td>ISOLATION BALL VALVE</td>
</tr>
</tbody>
</table>
**MODEL 8112**

**MODULATING FLOAT VALVE**

CUSTOMER-SUPPLIED LINE (3/8" OD OR LARGER COPPER TUBING)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
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<td>65</td>
<td>1</td>
<td>BASIC VALVE ASSEMBLY</td>
</tr>
<tr>
<td>2</td>
<td>813</td>
<td>1</td>
<td>TWO-WAY FLOAT PILOT (Reverse-Acting)</td>
</tr>
<tr>
<td>3</td>
<td>126</td>
<td>1</td>
<td>EJECTOR</td>
</tr>
<tr>
<td>4</td>
<td>141-2</td>
<td>1</td>
<td>NEEDLE VALVE</td>
</tr>
<tr>
<td>5</td>
<td>159</td>
<td>1</td>
<td>Y-STRAINER</td>
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<tr>
<td>6</td>
<td>141-4</td>
<td>1</td>
<td>ISOLATION BALL VALVE</td>
</tr>
<tr>
<td>7</td>
<td>155</td>
<td>1</td>
<td>VISUAL INDICATOR (Optional)</td>
</tr>
</tbody>
</table>
GENERAL DESCRIPTION
The OCV Series 65 is a hydraulically-operated, diaphragm-actuated valve. It is available in either a globe (Model 65) or angle (Model 65A) configuration. The diaphragm is nylon-fabric bonded with synthetic rubber and forms a sealed chamber in the upper portion of the valve, separating operating pressure from line pressure. An elastomeric seat disc forms a tight seal with the valve seat when pressure is applied above the diaphragm.

FUNCTIONAL DESCRIPTION
Because the Series 65 is a hydraulically operated valve, it requires a minimum line pressure of approximately 5 psig in order to function. The valve functions on a simple principle of pressure differential. The line pressure at the inlet of the valve is bypassed through the pilot control piping to the diaphragm chamber of the valve. This pressure, together with the valve spring, works against the pressure under the valve seat. Because the effective area of the diaphragm is greater than that of the seat, the valve is held tightly closed. As the controlling pilot(s) allow the pressure to bleed off the diaphragm chamber, the two opposing pressures begin to balance and the valve will begin to open. The valve can be used to perform a simple on-off function, or with the proper pilot system, a modulating, or regulating function.

In cases where the line fluid is unusually dirty, or is otherwise unsuitable for operating the valve, an independent operating pressure source may be employed. The pressure available from such a source must be equal to, or greater than, line pressure.

INSTALLATION
In order to insure safe, accurate and efficient operation of the OCV control valve, the following list of checkpoints and procedures should be followed when installing the valve.

1. Make a careful visual inspection of the valve to insure that there has been no damage to the external piping, fittings or controls. Check that all fittings are tight.
2. Thoroughly flush all interconnecting piping of chips, scale and foreign matter prior to mounting the valve.
3. Install the valve in the line according to the flow arrow on the inlet flange. The arrow should point downstream.
4. Allow sufficient room around the valve for ease of adjustment and maintenance service.

In addition, it is highly recommended that:
1. Isolation valves (e.g., gate or butterfly) be installed on the inlet and discharge sides of the valve to facilitate isolating the valve for maintenance.
2. Pressure gauges be installed at the inlet and outlet sides of the valve to provide monitoring of the valve during initial start-up and during operation. The body side ports, if unused by the pilot system, provide a convenient connection for the gauges.
3. All valves larger than 6" be installed horizontally, i.e., with the bonnet pointed up, for ease of adjustment and maintenance servicing.

MAINTENANCE
The OCV control valve requires no lubrication and a minimum of maintenance. However, a periodic inspection should be established to determine how the fluid being handled is affecting the efficiency of the valve. In a water system, for example, the fluid velocity as well as the substances occurring in natural waters, such as dissolved minerals and suspended particles, vary in every installation. The effect of these actions or substances must be determined by inspection. It is recommended that an annual inspection, which includes ex-
amination of the valve interior, be conducted. Particular attention should be paid to the elastomeric parts, i.e., the diaphragm and seat disc. Any obviously worn parts should be replaced.

**REPAIR PROCEDURES**

In the event of malfunction of the OCV control valve, troubleshooting should be conducted according to the procedures outlined for the specific model of valve. Then, if those steps indicate a problem with the main valve, this section will outline the procedures necessary to correct the problem.

Problems with the main valve can be classed in three basic categories:

1. **VALVE FAILS TO OPEN**
   a. Diaphragm damaged* - See Procedure A
   b. Stem binding - See Procedure B

2. **VALVE FAILS TO CLOSE**
   a. Diaphragm damaged* - See Procedure A
   b. Stem binding - See Procedure B
   c. Object lodged in valve - See Procedure B

3. **VALVE OPENS AND CLOSES BUT LEAKS WHEN CLOSED**
   a. Seat disc damaged - See Procedure C
   b. Seat ring damaged - See Procedure D

*A diaphragm failure can prevent the valve from either opening or closing, depending on the flow direction. Most water service valves flow “under the seat”, in which case a diaphragm failure will keep the valve from closing. On the other hand, most fuel service valves flow “over the seat”, in which case a diaphragm failure will keep the valve from opening. To determine which you have, examine the bridge mark cast into the side of the valve body, then compare it with the figures below.

**PROCEDURE A: DIAPHRAGM REPLACEMENT**

1. Isolate the valve from the system by closing upstream and downstream block valves.
2. Loosen one of the tubing connections on the bonnet. Allow any residual pressure to bleed off.
3. Remove all tubing connected at the bonnet.
4. Remove the bonnet nuts.
5. Remove the bonnet. If the bonnet sticks in place, it may be loosened by rapping sharply around its edge with a rubber-headed mallet. **NOTE:** 8” and larger valves are equipped with eye bolts through which a chain can be fastened to aid in lifting the bonnet.
6. Remove the spring.
7. Remove the diaphragm plate capscrews and the diaphragm plate.
8. Remove the old diaphragm.
9. Making sure the dowel pin holes are in the proper location, place the new diaphragm over the studs and press down until it is flat against the body and spool.
10. Replace the diaphragm plate and the diaphragm plate capscrews.
11. Tighten all diaphragm plate capscrews snugly.
12. Replace the spring.
13. Replace the bonnet and reinstall the bonnet nuts.
14. Tighten the bonnet nuts snugly using a criss-cross tightening pattern.
15. Reinstall the control tubing.
16. Reopen the upstream and downstream block valves.
17. Before placing the valve back in service, perform the air bleed procedure described in the first section of this manual.

**PROCEDURE B: CORRECTION OF BINDING STEM**

1. Perform Steps 1 thru 6 of Procedure A, above.
2. Remove the spool assembly from the valve. **NOTE:**

**FLOW UNDER SEAT**

**DIAPHRAGM FAILURE = VALVE FAILS TO CLOSE**

**FLOW OVER SEAT**

**DIAPHRAGM FAILURE = VALVE FAILS TO OPEN**

On smaller valves, this can be accomplished simply by grasping the stem and pulling upward. Valves 6” and larger have the top of the stem threaded to accept an eyebolt to aid in lifting the spool out of the body. 6” thru 12” valves are threaded 3/8-16. 14” and 16” valves are threaded 5/8-11.

3. Carefully examine both ends of the stem for deep scratches, scoring or buildup of mineral deposits.
Polish the stem if necessary using a fine grade of emery cloth.

4. Similarly, examine and polish the upper bushing (in the bonnet) and the lower guide (in the seat ring).

5. Reinstall the spool assembly.

6. Reassemble the valve, following Steps 12 thru 17 in Procedure A.

**PROCEDURE C: SEAT DISC REPLACEMENT**

1. Perform Steps 1 and 2 of Procedure B, above.

2. With the spool assembly removed from the body, remove the seat retainer screws.

3. Slide the seat retainer off the lower end of the stem.

4. Remove the seat disc from its groove in the spool.

   **NOTE:** The seat disc may fit quite tightly in the groove. If necessary, it may be pried out using a thin-bladed screwdriver or similar tool.

5. Install the new seat disc in the groove.

6. Reinstall the seat retainer and tighten the seat retainer screws.

7. Reassemble the valve, following Steps 5 and 6 of Procedure B.

**PROCEDURE D: SEAT RING REPLACEMENT**

**NOTE:** It is rare for a seat ring to require replacement. Minor nicks and scratches in the seating surface can usually be smoothed out with emery cloth.

1. Perform Steps 1 and 2 of Procedure B, above.

2. If you are working on a 4" or smaller valve, follow Steps 3 thru 9, below.

3. If you are working on a 6" or larger valve, follow Steps 10 thru 16, below.

---

4. Seat rings in valves 4" and smaller are threaded into the valve body. To remove, you will need a special seat ring tool. You may fabricate one using standard pipe as shown in the sketch below, or one may be purchased from OCV.

5. Using the seat ring tool, unthread the seat ring from the body.

6. Remove the old o-ring from the counterbore in the body.

7. Install the new o-ring in the counterbore.

8. Using the seat ring tool, install the new seat ring.

9. Reassemble the valve, following Steps 5 & 6 of Procedure B.

10. Seat rings in valves 6" and larger are bolted into the body with socket head capscrews. In addition you will note that the seat ring is equipped with additional threaded holes that may be used for "jacking" the seat ring out of the body.

11. Remove the socket head capscrews.

12. Remove the old seat ring from the body by temporarily installing two or more of the capscrews in the "jacking" holes.

13. Install a new o-ring in the groove of the new seat ring. Lubricate the o-ring and outer seat ring wall with Vaseline® or similar lubricant.

14. Install the new seat ring in the body, making sure that the capscrew holes line up.

15. Replace and tighten all the capscrews.

16. Reassemble the valve, following Steps 5 and 6 of Procedure B.
**MODEL 126 EJECTOR**

The Model 126 ejector is a simple tee fitting with a fixed orifice in its inlet port. It provides the proper supply pressure to the main valve diaphragm chamber, allowing various two-way control pilots to control the valve position.

### MODEL 126 EJECTOR DIAGRAM

Brass Construction / Stainless Steel Construction

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PART NUMBER</th>
<th>P (NPT)</th>
<th>T-TUBE O.D.</th>
<th>STD. ORIFICE</th>
<th>USED ON VALVE SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>213100</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>.125&quot;</td>
<td>1 1/4&quot;-6&quot;</td>
</tr>
<tr>
<td>Brass</td>
<td>214100</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>.188&quot;</td>
<td>8&quot;-10&quot;</td>
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<tr>
<td>Brass</td>
<td>215100</td>
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<td>3/4&quot;</td>
<td>.188&quot;</td>
<td>12&quot;-16&quot;</td>
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<tr>
<td>316 Stn. Steel</td>
<td>213700</td>
<td>1/4&quot;</td>
<td>3/8&quot;</td>
<td>.060&quot;</td>
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<tr>
<td>316 Stn. Steel</td>
<td>214700</td>
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<td>1/2&quot;</td>
<td>.125&quot;</td>
<td>8&quot;-10&quot;</td>
</tr>
<tr>
<td>316 Stn. Steel</td>
<td>215700</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>.188&quot;</td>
<td>12&quot;-16&quot;</td>
</tr>
</tbody>
</table>

STAINLESS

BRASS

Orifice bushings are stainless steel.

### SCHEMATIC SYMBOL

The Model 126 Ejector is shown on OCV Valve Schematics as:

![Schematic Symbol](image)

EXAMPLE: Shown here on a MODEL 127-3 Pressure Reducing Valve
**DESCRIPTION**

The Model 141-2 Needle Valve is an adjustable restriction device installed in the control circuit tubing. The setting of the needle valve meters the flow into and out of the main valve diaphragm chamber, thus controlling the response speed of the main valve. Depending on the application, the needle valve may be used as a closing speed control, opening speed control, or both simultaneously.

**MODEL 141-2 MATRIX**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PART NUMBER</th>
<th>INLET/OUTLET (NPT)</th>
<th>A</th>
<th>USED ON VALVE SIZE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>683100</td>
<td>1/4</td>
<td>2</td>
<td>1 3/4&quot;-2&quot;</td>
</tr>
<tr>
<td>Brass</td>
<td>683101</td>
<td>3/8</td>
<td>2 1/4</td>
<td>2 1/2&quot;-6&quot;</td>
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<tr>
<td>Brass</td>
<td>683102</td>
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<td>2 5/8</td>
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<tr>
<td>Brass</td>
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<td>12&quot;-16&quot;</td>
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<td>Stn. Steel</td>
<td>683700</td>
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<td>2</td>
<td>1 3/4&quot;-2&quot;</td>
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<tr>
<td>Stn. Steel</td>
<td>683702</td>
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<td>3 5/8</td>
<td>12&quot;-16&quot;</td>
</tr>
</tbody>
</table>

Note: Needle valve size may vary on valve application. Consult factory.

**SCHEMATIC SYMBOL**

The Model 141-2 Needle Valve is shown on OCV Valve Schematics as:

EXAMPLE: Shown here on a MODEL 115-3 DIGITAL VALVE as separate opening and closing speed controls.

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.
DESCRIPTION
MODEL 159 Y-STRAINER
The 159 Y-Strainer installs in the inlet piping of the pilot system and protects the pilot system from solid contaminants in the line fluid. It is the standard strainer for water service valves.

MODEL 159 Y-STRAINER MATRIX

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PART NUMBER</th>
<th>INLET/OUTLET (NPT)</th>
<th>BLOW OFF PORT (NP)</th>
<th>A</th>
<th>STD. MESH</th>
<th>USED ON VALVE SIZE</th>
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</thead>
<tbody>
<tr>
<td>Bronze</td>
<td>660100</td>
<td>3/8</td>
<td>3/8</td>
<td>2 1/16</td>
<td>24</td>
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<td>660101</td>
<td>1/2</td>
<td>3/8</td>
<td>2 5/8</td>
<td>24</td>
<td>8&quot; - 10&quot;</td>
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<td>660102</td>
<td>3/4</td>
<td>3/8</td>
<td>3 5/16</td>
<td>24</td>
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<td>660700</td>
<td>3/8</td>
<td>1/4</td>
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<td>20</td>
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<td>660701</td>
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<td>20</td>
<td>8&quot; - 10&quot;</td>
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<tr>
<td>Stn. Steel</td>
<td>660702</td>
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<td>1/4</td>
<td>3 1/8</td>
<td>20</td>
<td>12&quot; - 16&quot;</td>
</tr>
</tbody>
</table>

SCHEMATIC SYMBOL
The Model 159 Y-Strainer is shown on OCV Valve Schematics as:

EXAMPLE: Shown here on a MODEL 127-3 Pressure Reducing Valve

MATERIALS
Bronze, ASTM B62
Optional mesh sizes: 50, 100

Stainless Steel, CF8-M (316)
Optional mesh sizes: 60, 80, 100

Screens are stainless steel

MAINTENANCE
Routine cleaning and checking of the Y-Strainer will aid in keeping the control valve functioning properly. Pilot system isolation ball valves are supplied on valves equipped with the Model 159 Y-Strainer. These allow flushing of the screen through the blow off port, or removal of the screen itself for manual cleaning.

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

Global performance. Personal touch.
**Description**

The Model 141-4 Ball Valve is a ¼-turn shutoff device used for isolating the pilot system from the main valve. They are extremely useful for performing routine maintenance and troubleshooting.

Ball valves are standard on water service valves; optional on fuel service valves.

---

**Model 141-4 Matrix**

<table>
<thead>
<tr>
<th>Material</th>
<th>Part Number</th>
<th>Inlet/Outlet (NPT)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Used On Valve Size*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze</td>
<td>680100</td>
<td>3/8</td>
<td>1  3/4</td>
<td>3 1/2</td>
<td>1 7/8</td>
<td>1 1/4&quot;-6&quot;</td>
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<tr>
<td>Bronze</td>
<td>680101</td>
<td>1/2</td>
<td>2</td>
<td>3 1/2</td>
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<td>8&quot;-10&quot;</td>
</tr>
<tr>
<td>Bronze</td>
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<td>4 3/4</td>
<td>2 1/4</td>
<td>12&quot;-16&quot;</td>
</tr>
<tr>
<td>Stn. Steel</td>
<td>680700</td>
<td>3/8</td>
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<td>3</td>
<td>4 3/4</td>
<td>2 1/4</td>
<td>12&quot;-16&quot;</td>
</tr>
</tbody>
</table>

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**Schematic Symbol**

The Model 141-4 Ball Valve is shown on OCV Valve Schematics as:

![Schematic Symbol](image)

**Example:** Shown here on a MODEL 127-4 Pressure Reducing / Check Valve.
DESCRIPTION

The Model 155 Visual Indicator is a device that enables the user to determine the extent of opening of a control valve. It consists of an adapter threaded into the center port of the valve bonnet, a rod threaded into the main valve stem, a sealing O-ring, and a protective clear plastic housing. The indicator rod moves as the valve opens and closes. It may be installed on virtually any OCV control valve, and can be done so without any disassembly of the valve itself.

WHERE USED - Standard on Series 94 Check Valves, Series 3330 Altitude Valves, and Series 22 Digital Control Valves. Optional on any other valve not employing a limit switch or position transmitter.

MODEL 155 MATRIX

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PART NO.</th>
<th>PART NO.</th>
<th>VALVE TRAVEL (FULL STROKE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4” - 1 1/2”</td>
<td>255100</td>
<td>255700</td>
<td>3/8”</td>
</tr>
<tr>
<td>2”</td>
<td>255100</td>
<td>255700</td>
<td>1/2”</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>255100</td>
<td>255700</td>
<td>3/4”</td>
</tr>
<tr>
<td>3”</td>
<td>255100</td>
<td>255700</td>
<td>1”</td>
</tr>
<tr>
<td>4”</td>
<td>255101</td>
<td>255701</td>
<td>1 3/8”</td>
</tr>
<tr>
<td>6”</td>
<td>255102</td>
<td>255702</td>
<td>1 1/2”</td>
</tr>
<tr>
<td>8” - 10”</td>
<td>255103</td>
<td>255703</td>
<td>2 1/2”</td>
</tr>
<tr>
<td>12”</td>
<td>255104</td>
<td>255704</td>
<td>3”</td>
</tr>
<tr>
<td>14” - 16”</td>
<td>255105</td>
<td>255705</td>
<td>3 1/2”, 4”</td>
</tr>
<tr>
<td>24”</td>
<td>255109</td>
<td>255709</td>
<td>6”</td>
</tr>
</tbody>
</table>

ITEM  DESCRIPTION
1  O-Ring
2  Housing
3  Bushing
4  Adaptor
5  Stem

SCHEMATIC SYMBOL

The Model 155 is shown on OCV Valve Schematic as:

EXAMPLE: Shown here on a Model 94-1 Check Valve

MATERIALS

Indicator Rod: Monel
Adapter: Brass (std.), Stainless Steel (optional)
Housing: Butylate (1 1/4” - 6”)
Acrylic (8” and larger)
O-Ring: Viton® (std.)
Buna-N, EPDM (optional)