The Model 127-32 controls the filling of downstream piping in systems where lines have been drained. Once lines are filled, it reduces a higher inlet pressure to a constant, lower outlet pressure. Typical examples include:

- Irrigation systems
- Industrial spray systems
- Dust control
- Wash / cleaning

### SERIES FEATURES

- Prevents hydraulic shock by providing a two-stage / low-flow filling of downstream piping system
- Reduces a higher inlet pressure to a lower outlet pressure
- Constant outlet pressure over wide flow range
- Pilot-operated main valve not subject to pressure fall off
- Outlet pressure is adjustable with single screw
- Can be maintained without removal from the line
- Adjustable opening/response speed
- Factory tested and can be pre-set to your requirements

### OPERATION

#### Two-stage Opening

On initial startup, the main valve opening is controlled by a pressure sensing pilot and an adjustable, variable orifice pilot. These pilots route inlet pressure into the main valve bonnet, which maintains pressure on the diaphragm to limit the amount of opening of the main valve until downstream piping is filled; pressure reaches a preset amount.

#### Pressure Reducing

The normally open, spring loaded pilot, sensing downstream pressure, responds to changes in pressure and causes the main valve to do the same. The net result is a constant modulating action of the pilot and main valve to hold the downstream pressure constant. The pilot system is equipped with an opening speed control that fine tunes the valve’s response to the system variables.

### COMPONENTS

The Model 127-32 consists of the following components, arranged as shown on the schematic diagram:

1.) Model 65 Basic Control Valve
2.) Model 1340 Pressure Reducing Pilots
3.) Model 2100 Variable Orifice Pilot
4.) Model 126 Ejector - Fixed orifice pilot system supply restrictor
5.) Model 141-3* Flow Control Valve - Adjustable opening speed control
6.) Model 159 Y-Strainers - Protects pilot system from dirt/debris
7.) Model 141-4 Isolation Ball Valves
8.) Model 155 Visual Indicator

### SIZING

Sizing is a critical issue in the selection of pressure reducing valves. Definitive sizing information can be found in the OCV Catalog, Series 127 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 below are maximum pressures at 100°F.

<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>640 psi</td>
<td>640 psi</td>
<td>500 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>640 psi</td>
<td>740 psi</td>
<td>500 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
SIZES GLOBE/ANGLE
Screwed Ends - 1 1/4" - 3"
Grooved Ends - 1 1/2" - 6" (globe); 1-1/2" - 6" (angle)
Flanged Ends - 1 1/4" - 16" (globe; consult factory for larger sizes); 1 1/4" - 16" (angle)

SPRING RANGES (outlet setting)
- 5-30 psi, 20-80 psi, 20-200 psi, 100-300 psi

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 - 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

*Others available upon request.
**Valves 1-1/4" through 24" are certified to NSF/ANSI 372. Valves 4" through 24" are also certified to NSF/ANSI 61-G.

**Specifications (Typical Commercial Plumbing Application)**

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. Contact our factory @ 1-888-628-8258 for parts and service.

How to order your Model 127-32 valve
When Ordering please provide:
- Fluid to be controlled
- Model Number
- Size
- Globe or Angle
- End Connection
- Body Material
- Trim Material
- Pilot Options
- Downstream Pressure Setting or Spring Range
- Special Requirements / Installation Requirements

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