The OCV Pressure-Reducing Valve is used in many applicable worldwide. The primary function of the 127 series is to reduce downstream pressure by maintaining a constant discharge pressure. The pressure drop from valve not subject to pressure fall characteristics of direct-acting PRV’s. Adjusted to an exact control spring. (see pilot features).

**Model 127-3**

**Pressure Reducing Valve Series 127**

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**SPECIFICATIONS**

**Pressure Reducing Valve Series 127**

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**DIMENSIONS**

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**SERIES FEATURES**

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**VALVE FEATURES**

For maximum efficiency, the OCV control valve is installed 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 pilots 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 valve**

When Ordering please provide:

- Series Number - Valve size - Globe or Angle - Pressure Class - Screwed, Flanged, Grooved - Trim Material - Adjustment Range - Pilot Options - Special Order (see our valve catalog)

TOLL FREE 1.800.629.8258 phone: (918)627.1942 fax: (918)622.8916 7400 East 42nd Place, Tulsa, OK 74145
e-mail: sales@controlvalves.com website: www.controlvalves.com

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**A Model 127-3 shown**
**MODEL 127-3**

The OCV Model 127-3 is a two-way, normally-open pilot valve which senses the main valve to open. This is caused by cavitation, a condition where gas bubbles form in a fluid due to a decrease in pressure below the vapor pressure of the fluid. When these bubbles collapse, they release a force that can damage the valve or other equipment. The 127-3 is designed to reduce pressure to the diaphragm chamber of the main valve, depending on the position of the pressure-reducing pilot.

An increase in downstream pressure tends to make the pilot close. This allows the main valve to open, thus reducing the downstream pressure. This process continues until the downstream pressure is equal to the set pressure of the pressure-reducing pilot.

The 127-3 is a hydraulically-operated, diaphragm-actuated globe or angle valve, useful for isolating the pilot system for maintenance or troubleshooting. It is designed for use in piping systems where the flow direction can change, and it can be used with a variety of fluids, including water, steam, or gas. The valve is available in a range of sizes and pressures, making it suitable for a wide variety of applications.

**Specifications**

- **Flow Capacity (Cv)**: The flow capacity of the valve is a measure of its ability to handle flow. The higher the Cv, the greater the flow capacity of the valve.
- **Pressure Range**: The valve is designed to operate within a specific range of downstream pressures, typically between 5-30, 20-80, 20-200, and 100-300 psi.
- **Material**: The valve is available in stainless steel, low-lead bronze, and stainless steel.
- **Pressure Class**: The valve is available in pressure classes ranging from 150 to 600 psi.

**Installation**

1. **Check Inlet & Outlet Pressures**: Ensure that the inlet and outlet pressures are within the specified range.
2. **Check Flow Rate**: Ensure that the flow rate is within the specified range.
3. **Check Diaphragm**: Ensure that the diaphragm is not damaged and is able to function properly.
4. **Check Seat**: Ensure that the seat is not damaged and is able to seal properly.
5. **Check Valve Body**: Ensure that the valve body is not damaged and is able to function properly.

**Technical Support**

If you have any questions or need further assistance, please contact us at sales@controlvalves.com or (918) 627-1942. We are here to help you find the right solution for your needs.
**VALVE OPERATION**

- **Valve Flow Control**
  - **Model 159 Y-Strainer**
  - **Model 141-3 Flow Control Valve**

**PILOT**

- **Accurate sensing of outlet pressures**
- **Single, adjustable spring**
- **All parts replaceable while mounted on valve**
- **Rubber-to-metal seat for positive shut-off**

**SIZING PRESSURE REDUCING VALVES**

For the most comprehensive guidance in sizing reducing valves, it is best to use our ValveMaster software or the Performance Charts in our Valve Selector Guide. The following procedure will get you where you need to be, and enable you to do the most with your money.

**Pressure Reducing Valve Series 127**

- **Combination valves**
- **Manometer recommendations**
- **Flow control feature**
- **PROVEN RELIABILITY**

**VALVE SELECTION GUIDE**

- **Pressure reducing valves**
- **Combination valves**
- **Pressure reducing valve series 127**

**ABOUT YOUR VALVE**

DCV Control Valves was founded more than 50 years ago with a valve and commitment to quality, craftsmanship and customer service. In fact, OCV Valves can be found in some capacity in nearly every country around the world from fire protection systems in Malaysia to aircraft fueling systems in Africa and from refineries in Canada to oil refineries in Russia to water supply systems in the USA and Canada. This will not only find our valves in significant systems in Europe, South Africa and the Middle East.

**CAUTION CONCERNS**

Pressure reducing valves are, by their application, subject to pressure differentials that may result in cavitation. When these conditions exist, it may be necessary to add an internal bypass to reduce pressure differentials and achieve reliable operation.

**CONTACTS**

- **Valve Master software**
- **Performance Charts**
- **Valve Selector Guide**
- **Toll Free Number**
- **Email**
- **Sales Support**
- **Fax**
- **Website**

**TOLL FREE 1-800-628-8258**

**7400 East 42nd Place, Tulsa, OK 74145**

**sales@controlvalves.com**

**www.controlvalves.com**

**Toll Free 318-627-1942**

**7400 East 42nd Place, Tulsa, Oklahoma 74145**

**email: sales@controlvalves.com**

**website: www.controlvalves.com**

**Toll Free 1-800-628-8258**

**phone: (918) 622-1042**

**fax: (918) 622-8100**

**7400 East 42nd Place, Tulsa, Oklahoma 74145**

**email: sales@controlvalves.com**

**website: www.controlvalves.com**

**Toll Free 1-888-628-8258**

**phone: (918) 627-1942**

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VALVE OPERATION

6.) Two Model 141-4 Ball Valves

3.) Model 126 Ejector

The OCV Model 127-3 Pressure Reducing Valve Series 127

PILOT

- Accurate reading of outlet pressures.
- Simple, single adjustment.
- All parts replaceable while mounted on valve.
- Rubber-to-metal seat for positive shut-off.
- Simple, single adjustment.
- Accurate sensing of outlet pressure.

SIZING PRESSURE REDUCING VALVES

For the most comprehensive sizing valves in pressure reducing valves, it is best use our ValveMaster software or our Performance Charts in choosing the best valve to meet your needs. The following procedure will get you the size necessary and help to avoid leakages.

Step 1: Calculate Cv Min.:

\[ \text{Cv} = \frac{Q}{\sqrt{P_1 - P_2}} \]

\( Q \) = Minimum anticipated flow, GPM
\( P_1 \) = Line pressure at valve entrance
\( P_2 \) = Pressure drop across the valve

Step 2: Calculate Cv Maximum:

\[ \text{Cv} = \frac{Q_{\text{Max}}}{\sqrt{P_1 - P_2}} \]

\( Q_{\text{Max}} \) = Maximum anticipated flow, GPM
\( P_1 \) = Pressure drop across the valve

Cautions Concerns

Pressure reducing valves are, by their application, subject to pressure differentials that may induce cavitation. Often when these conditions exist, it is best to utilize an anti-cavitation feature. This can be done by increasing the downstream pressure set point, which reduces the downstream pressure to a point that cavitation is eliminated. This feature is available on most P:V valves.

ABOUT YOUR VALVE

OCV Control Valves was founded more than 60 years ago with a vision and commitment to quality and service. From the very beginning, the company has grown with a continued focus on being a leader in the control valve industry. As such, OCV is dedicated to providing our customers with the highest quality products and services that are available in the marketplace. OCV is a world-renowned valve manufacturer with a global customer base. OCV is a worldwide supplier, but more importantly the opportunity to afford the personal touch necessary to be each of our customer’s best partner. Simply stated, we take pride in all we do.

Valve selection guide

By choosing one of our control valves, you will get a valve that is specifically designed for your particular application. This chart shows only a sample of those most often specified valves. Contact the factory for specific data on the model you selected.
Pressure Reducing Valve Series 127

The OCV Pressure-Reducing Valve is used in many applications worldwide. The primary function of the 127 series is to reduce pressure to a lower, more manageable downstream pressure, operating without regard to either upstream supply or downstream demand.

**SPECIFICATIONS**

**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.**

**SERIES FEATURES**

- Reduces higher inlet pressure to a constant lower outlet pressure.
- Outlet pressure is accurate over wide range of flow.
- Pressure is adjusted to suit your application without risk of cavitation or other downstream problems.
- Adjustable outlet pressure is adjustable over complete range of control spring (see pilot features).

**DIMENSIONS**

For maximum efficiency, the OCV control valve should be installed 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 those described. 

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 valve**

Ordering valve sizes are provided on page 10. Order valves by size and trim material.

**TOLL FREE 1.888.628.8256**

**phone:** (918) 627.1942  **fax:** (918) 622.8916

**7400 East 42nd Place, Tulsa, OK 74145**

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**Global performance. Personal touch.**
**Pressure Reducing Valve Series 127**

### Specifications

**Series Features**
- Reduces higher inlet pressure to a constant lower outlet pressure.
- Outlet pressure is accurate over wide range of flow.
- No special bore rate is needed to ensure proper functioning of direct-acting PRVs.
- Outlet pressure is adjustable over complete range of control spring (see valve features).

**Valve Features**
- Operates automatically at low pressure.
- Designed to keep the valve in a closed position in the event of high pressure in the system.
- Reduces pressure to a constant discharge pressure, despite fluctuations in the demand or in line pressure. Here, a parallel valve arrangement is used to handle a wider range of demand.

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A reliable guide to maintenance programs should be established and conducted jointly by a recognized maintenance contractor or the factory at 1-888-628-8258 for parts and service.

When ordering valves:
- globe/flanged valves: 127-3 shown
- angle/flanged valves: 127-3 shown
- globe/angle flanged valves: 127-3 shown
- angle/angle flanged valves: 127-3 shown

**Pressure Reducing Valve Series 127**

### Pressure Reducing Valve Series 127

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