

▲ Model 125-27 shown

The OCV Series 125 and 126 Pump Control Valves are designed to effectively eliminate the surges associated with the starting and stopping of the pump. Electrically interfaced with the pump motor, the valve opens and closes at an adjustable speed, providing a smooth, predictable transition of pump discharge pressure and volume into the system.

## SERIES FEATURES

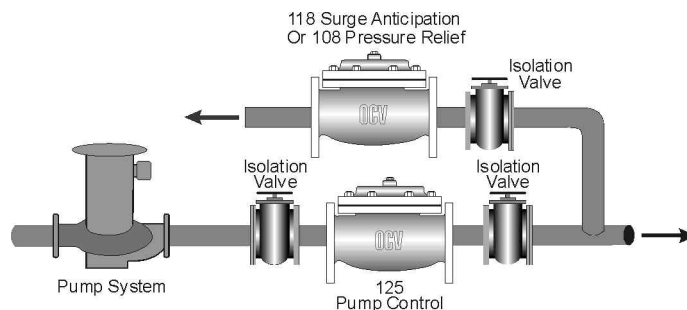
- ▶ Valve opening speed is adjustable to pump and system requirements for smooth increase in pressure.
- ▶ Valve closing speed is adjustable, gradually decreasing pressure to system as valve closes.
- ▶ Valve is interlocked with pump motor to perform unified pump and valve operation.
- ▶ Built-in reverse flow check feature. ( On 125 & 125-27 )
- ▶ Valve automatically shuts off pump motor on loss of pump discharge pressure (shaft lock-up).
- ▶ Two simple field adjustments: opening speed and closing speed.

## VALVE FEATURES

- ▶ Operates automatically off line pressure.
- ▶ Heavy-duty, nylon-reinforced diaphragm.
- ▶ Rectangular-shaped, soft seat seal provides drip-tight Class VI closure.
- ▶ Diaphragm assembly Guided top and bottom
- ▶ Throttling seat retainer for flow and pressure stability.
- ▶ Easily maintained without removal from the line.
- ▶ Replaceable seat ring.
- ▶ Alignment pins assure proper reassembly after maintenance.
- ▶ Valves are factory tested.
- ▶ Valves are serial numbered and registered to facilitate replacement parts and factory support.

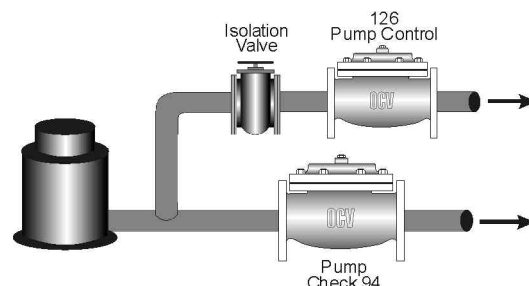
## 125 BOOSTER PUMP CONTROL

Models 125 and 125-27, designed primarily for booster pumps, are installed inline, on the discharge of the pump. These valves also include a check feature that eliminates any need for a separate pump check valve.



## 126 DEEP WELL PUMP CONTROL

Model 126, designed for deep well pumps, is installed on a bypass line between the pump discharge and the pump check valve. The Model 126 eliminates debris and air on pump start.



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## VALVE OPERATION

Models 125 and 125-27, designed primarily for booster pumps, are installed inline, on the discharge of the pump. They are normally closed with the pump off, open slowly after the pump starts, and close slowly prior to pump shutdown. In this way, flow is slowly and smoothly transitioned to and from the system. These valves also include a check feature that will close the valve in the event of a power failure while the pump is running. Thus, they eliminate any need for a separate pump check valve.

Model 126, designed for deep well pumps, is installed on a bypass line between the pump discharge and the pump check valve, and discharges either to waste or back into the well itself. It is normally open with the pump off, closes slowly after the pump starts, and opens slowly prior to pump shutdown. In this way, flow is slowly and smoothly transferred from the bypass to the system, and vice-versa.

**VALVE CHARACTERISTICS - Table 1**

|                             | MODEL 125                      | MODEL 125-27 | MODEL 126    |
|-----------------------------|--------------------------------|--------------|--------------|
| <b>CONSTRUCTION</b>         | SINGLE CHAMBER                 | DUAL CHAMBER | DUAL CHAMBER |
| <b>INSTALLS</b>             | INLINE                         | INLINE       | BYPASS       |
| <b>POS. W/ PUMP OFF</b>     | CLOSED                         | CLOSED       | OPEN         |
| <b>VALVE DISCHARGES TO</b>  | SYSTEM                         | SYSTEM       | ATMOSPHERE   |
| <b>BONNET EXHAUSTS TO</b>   | VALVE OUTLET                   | DRAIN        | DRAIN        |
| <b>USE ON BOOSTER PUMPS</b> | YES                            | YES          | NO           |
| <b>USE ON WELL PUMPS</b>    | LIMITED                        | LIMITED      | YES          |
| <b>MODULATING PILOTS</b>    | YES                            | NO           | RELIEF ONLY  |
| <b>CHECK FEATURE</b>        | HYDRAULIC<br>(LIFT CHECK OPT.) | LIFT CHECK*  | N/A          |
| <b>PRESSURE LOSS</b>        | MED. TO LOW                    | LOW          | N/A          |
| <b>MAX. PRESSURE</b>        | 740 PSI                        | 400 PSI      | 400 PSI      |
| <b>TYPICAL SIZE</b>         | LINE SIZED                     | LINE SIZED   | <LINE SIZED  |

\*Lift check closes valve *before* pressure reversal

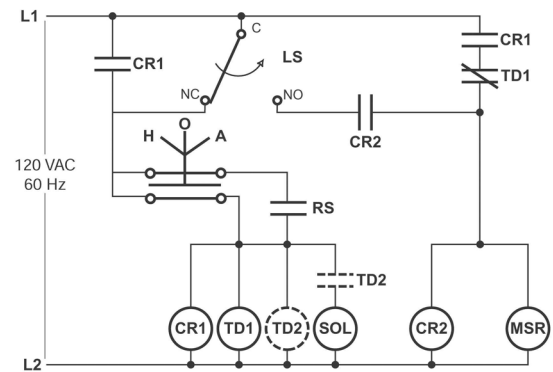
## ELECTRICAL

A certain amount of components and wiring are required to interface the valve and pump. The wiring diagram below is typical for Series 125. Series 126 is similar but with minor variation to the limit switch. (consult factory for specific diagram) To make the interface quick and simple, the OCV Pump Commander may be added to your installation. This pre-wired controller is available in various models depending upon the level of control and sophistication required.

## TYPICAL WIRING DIAGRAM

Series 125;  
 SOL = SOLENOID PILOT (ON VALVE)  
 LS = LIMIT SWITCH, SPDT (ON VALVE)  
 CR1, CR2 = CONTROL RELAY, DPDT  
 TD1\* = TIME DELAY RELAY, DPDT, ON-DELAY  
 TD2\*\* = TIME DELAY RELAY, DPDT, ON-DELAY (OPTIONAL)  
 HOA = HAND-OFF-AUTO-SWITCH  
 RS = REMOTE START SWITCH  
 MSR = PUMP MOTOR STARTER RELAY

\*TD1 shuts pump down if valve does not open  
 \*\*TD2 if used, delays valve opening for predetermined time period



## SELECTION OF PUMP CONTROL VALVES

Selecting and sizing the correct model of pump control valve begins with the pump itself. Refer again to Table 1.

Pumps such as split-case centrifugals, or flooded suction turbines, commonly referred to as booster pumps, will use the Series 125.

Well pumps, such as vertical turbines or submersibles, may use either the Series 125 or the 126. To determine which, first consult with the pump manufacturer. If the pump is designed to start against a closed valve, use the Series 125. If the pump is designed to be started against an open valve, the choice is Model 126. If there is no preference, consider the characteristics of the well itself. Deeper wells, those with a significant air column, and those producing a significant amount of sand will benefit most from the Model 126. Relatively shallow, clean wells can use the Series 125.

If you have opted for the Series 125 booster pump control valve, your next step will be to choose between the single-chambered 125 and the dual-chambered 125-27. Certain factors can make this choice an easy one. For example, if you want to add modulating control pilots to the valve (e.g., pressure reducing, pressure sustaining), or if the maximum pressure (typically pump shut off pressure) is greater than 400 psi, your only choice will be the single-chambered valve. On the other hand, the chief advantage of the 125-27 is that of typically lower pressure loss. Now the choice is closely tied in with sizing.

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## SIZING

### Sizing of Series 125 Valves - Booster Pump Control

1. Decide whether a globe or angle valve will best fit your installation. Keep in mind that it is always best to install any control valve "bonnet up," particularly in sizes 8" and larger.
2. Begin with a line sized valve, i.e, the same size as the pump discharge.

Calculate the pressure drop from the formula,

$$DP = sg \left( \frac{Q}{C_v} \right)^2$$

where: DP = pressure drop, psi  
 sg = specific gravity of line fluid (water = 1.0)  
 Q = rated flow of pump, gpm  
 Cv = Valve coefficient from Table 2.

3. The pressure drop calculated is that for a wide-open apply and would be true for the dual-chambered 125-27 valve regardless of flow rate. On the other hand, the single-chambered valve may not be wide open. Refer to the "wide open at" column of Table 2. If the flow rate is less than this figure, the pressure drop of the single-chambered valve can be 2-3 psi higher than the value calculated in Step 2. If the flow rate is higher than the figure given, the single-chambered valve will be wide open and will have a pressure drop equal to the dual-chambered valve.
4. Check to see that the flow velocity does not exceed 20 ft/sec. If it does, or if the pressure drop is excessive, consider using the next size larger valve.
5. Finally, if the 125-27 valve is selected, make note of the diaphragm chamber discharge. This quantity of water will be discharged to atmosphere each time the valve opens or closes. Provision should be made to drain or otherwise dispose of this water.

**FLOW CHARACTERISTICS - Table 2**

| SIZE  | CV (GLOBE) | CV (ANGLE) | FLOW @20<br>FT/SEC(GPM) | FLOW @30<br>FT/SEC(GPM) | WIDE OPEN<br>AT:(GPM) | DIAPH. CHAMBER<br>DISCHARGE(GALLONS) |
|-------|------------|------------|-------------------------|-------------------------|-----------------------|--------------------------------------|
| 1 1/4 | 23         | 30         | 85                      | 127                     | 50                    | 0.02                                 |
| 1 1/2 | 27         | 35         | 120                     | 180                     | 50                    | 0.02                                 |
| 2     | 47         | 65         | 210                     | 315                     | 100                   | 0.05                                 |
| 2 1/2 | 68         | 87         | 300                     | 450                     | 140                   | 0.06                                 |
| 3     | 120        | 160        | 460                     | 690                     | 220                   | 0.10                                 |
| 4     | 200        | 270        | 800                     | 1200                    | 400                   | 0.2                                  |
| 6     | 450        | 550        | 1800                    | 2700                    | 950                   | 0.6                                  |
| 8     | 760        | 1000       | 3100                    | 4650                    | 1300                  | 1.0                                  |
| 10    | 1250       | 1600       | 4900                    | 7350                    | 2000                  | 2.5                                  |
| 12    | 1940       | 2400       | 7000                    | 10,500                  | 2800                  | 4.0                                  |
| 14    | 2200       | --         | 8450                    | 12,700                  | 3300                  | 6.5                                  |
| 16    | 2850       | 4000       | 11,000                  | 16,500                  | 4500                  | 9.6                                  |
| 24    | 6900       | --         | 25,000                  | 37,500                  | 9300                  | 28.0                                 |

### Sizing of Series 126 Valves - Deep Well Pump Control

1. Decide whether a globe or angle valve will best fit your installation. Keep in mind that it is always best to install any control valve "bonnet up," particularly in sizes 8" and larger.
2. Carefully examine your pump curve. Make note of the flow rate at which the pump discharge pressure is reduced to a point just below system static pressure.
3. Calculate the required valve CV from the formula:

$$C_v = \frac{Q}{\sqrt{P_s / sg}}$$

where: Q = flow rate as determined in Step 2, gpm  
 PS = system static pressure, psi  
 sg = specific gravity of line fluid (water = 1.0)

4. Using either the globe or angle valve column of Table 2, pick the smallest size valve that has a CV at least equal to that calculated in Step 3.
5. Using the flow rate determined in Step 2, make sure the velocity does not exceed 30 ft/sec.
6. Finally, make note of the diaphragm chamber discharge. This quantity of water will be discharged to atmosphere each time the valve opens or closes. Provision should be made to drain or otherwise dispose of this water.

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## VALVE SELECTION GUIDE

By combining various control pilots, multiple valve functions can be performed on a single Series 125 or 126 Pump Control Valve. To find the combination function valve, select the desired features and then the model number.  
This chart shows only a sample of those most often specified valves. Consult the factory for specific data on the model you selected.

Combination valves can often reduce or eliminate other equipment. Example: If the system requires a Pump Control and a Pressure Sustaining Valve, the sustaining feature can be added as a function of the Pump Control Valve, Model 125-13.

| Feature                          | 125 | 125-2 | 125-13 | 125-13E | 125-14 | 125-15 | 125-1B | 125-7 | 125-27 | 125-8 | 125-134 | 125-137 | 125-157 | 125-1347 | 126 | 126-3 | Definition   |
|----------------------------------|-----|-------|--------|---------|--------|--------|--------|-------|--------|-------|---------|---------|---------|----------|-----|-------|--|
| Power-Actuated Main Valve        |     | X     |        |         |        |        |        | X     |        |       |         |         |         |          | X   | X     | Dual diaphragm chambers assure full opening at any flow rate, thus minimum pressure loss |
| Pressure Relief                  |     |       |        |         |        |        |        |       |        |       |         |         |         |          |     | X     | Limits pump discharge pressure to predetermined maximum.                                 |
| Suction Pressure Sustaining      |     |       |        | X       |        |        |        |       |        |       |         |         |         |          |     |       | Maintains minimum pump suction pressure  |
| Pressure Sustaining              |     |       | X      |         |        |        |        |       |        | X     | X       |         | X       |          |     |       | Maintains minimum pump discharge pressure  |
| Lift Check                       |     |       |        |         |        |        | X      | X     |        |       | X       | X       | X       |          |     |       | Internal assembly closes valve before pressure reversal                                  |
| Pressure Reducing                |     |       |        | X       |        |        |        |       |        | X     |         |         | X       |          |     |       | Controls valve outlet pressure.  |
| Rate Of Flow Control             |     |       |        |         | X      |        |        |       |        |       |         | X       |         |          |     |       | Limits flow rate to preset adjustable setting  |
| Pump Differential Control        |     |       |        |         |        | X      |        |       |        |       |         |         |         |          |     |       | Keeps pump at most efficient point on curve when suction pressure varies                 |
| Controlled Closing Check Feature |     |       |        |         |        |        |        |       | X      |       |         |         |         |          |     |       | Controls valve closing on power failure or pump failure                                  |

## ABOUT YOUR VALVE

OCV Control Valves was founded more than 60 years ago with a vision and commitment to quality and reliability. From modest beginnings, the company has grown to be a global leader just a half century later. 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 oil refineries in Russia to water supply systems in the USA and Canada. You will also find our valves in irrigation systems in Europe, South America and the Middle East.

The original foundation on which the company was built allows our team of professionals to not only provide the service required to be a worldwide supplier, but more importantly the opportunity to afford the personal touch necessary to be each of our customers' best partner. Simply stated, we take pride in all that we do.

Committed to the work they do, our employees average over 15 years of service. This wealth of knowledge allows us to provide quality engineering, expert support, exacting control and the know-how to create valves known for their long life.

Being ISO 9001 certified means we are committed to a quality assurance program. Our policy is to supply each customer with consistent quality products and ensure that the process is right every time. Our valves meet and exceed industry standards around the world. Including approvals by:



Check individual models for availability.

All valves are not created equal. OCV Control Valves proves that day in and day out. We stand behind our valves and are ready to serve your needs.

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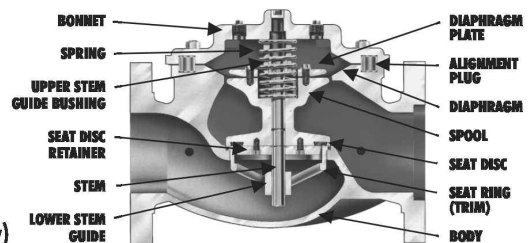


## SPECIFICATIONS

| VALVE BODY & BONNET   |  | DUCTILE IRON  |                          | CAST STEEL                                  |                                     | STAINLESS STEEL             |         |  |
|---|--|---|--------------------------|---|-------------------------------------|-----------------------------|---------|--|
| Material Specifications   |  | ASTM A536/65-45-12<br>(epoxy coated)  |                          | ASTM A216/WCB<br>(epoxy coated)             |                                     | ASTM A351/CF8M              |         |  |
| END CONNECTIONS   |  |   |                          |   |                                     |                             |         |  |
| Flange Standard (also available in metric)  |  | ANSI B16.42   |                          | ANSI B16.5                                  |                                     | ANSI B16.5                  |         |  |
| Flange Class  |  | 150#  | 300#                     | 150#  | 300#                                | 150#                        | 300#    |  |
| Flange Face   |  | Flat  | Raised                   | Raised                                      | Raised                              | Raised                      | Raised  |  |
| Maximum Working Pressure  |  | 250 psi   | 640 psi                  | 285 psi                                     | 740 psi                             | 285 psi                     | 740 psi |  |
| Screwed Working Pressure:   |  | ANSI B1.20.1  | 640 psi                  | Grooved End Working Pressure:               |                                     | 300 psi                     |         |  |
| INTERNALS   |  |   |                          |   |                                     |                             |         |  |
| Stem  |  |   |                          | STAINLESS STEEL                             |                                     |                             |         |  |
| Spring  |  |   |                          | STAINLESS STEEL                             |                                     |                             |         |  |
| Spool   |  | DUCTILE IRON (epoxy coated) / OPTIONAL - STAINLESS STEEL  |                          |   |                                     | STAINLESS STEEL             |         |  |
| Seat Disc Retainer  |  | DUCTILE IRON (epoxy coated) (10" & LARGER)<br>STAINLESS STEEL (8" & SMALLER / OPTIONAL - ALL SIZES) |                          |   |                                     | STAINLESS STEEL             |         |  |
| Diaphragm Plate   |  | DUCTILE IRON (epoxy coated) / OPTIONAL - STAINLESS STEEL  |                          |   |                                     | STAINLESS STEEL             |         |  |
| Seat Ring (Trim)  |  | LOW-LEAD BRONZE OR STAINLESS STEEL  |                          |   |                                     | STN. STL.<br>ASTM A351/CF8M |         |  |
| Upper Stem Bushing  |  | BRONZE OR TEFLON®   |                          |   |                                     | TEFLON®                     |         |  |
| Lower Stem Bushing  |  | NOT APPLICABLE FOR LOW-LEAD BRONZE SEAT RINGS / TEFLON® FOR STN.STL. SEAT RINGS                     |                          |   |                                     |                             |         |  |
| ELASTOMER PARTS (Rubber)  |  |   |                          |   |                                     |                             |         |  |
| Diaphragm/Seat Disc/O-Rings   |  |   |                          | EPDM / OPTIONAL - VITON®                    |                                     |                             |         |  |
| Operating Temperature (Consult factory when temperatures approach low or high temperature allowance.) |  |   |                          | 32°F to 230°F                               |                                     |                             |         |  |
| COATINGS  |  |   |                          | EPOXY COATING                               |                                     |                             |         |  |
| ELECTRICAL SOLENOIDS  |  |   |                          |   |                                     |                             |         |  |
| Bodies  |  |   |                          | BRASS / OPTIONAL - STAINLESS STEEL          |                                     |                             |         |  |
| Enclosures  |  |   |                          | WATER TIGHT, NEMA 1, 3, 4, & 4X             |                                     |                             |         |  |
| Power   |  | AC, 60HZ - 24, 120, 240, 480 VOLTS  |                          | AC, 50HZ - In 110 VOLT MULTIPLES            |                                     | DC, 6, 12, 24, 240 VOLTS    |         |  |
| Operation   |  | ENERGIZE TO OPEN (NORMALLY CLOSED)  |                          |   | DE-ENERGIZE TO OPEN (NORMALLY OPEN) |                             |         |  |
| CONTROL PILOTS  |  |   |                          | TEFLON® is a registered trademark of DuPont |                                     |                             |         |  |
| Bodies  |  | LOW-LEAD BRONZE   | STN. STL./ASTM A351/CF8M |   |                                     |                             |         |  |
| Internal  |  | STAINLESS STEEL   | STAINLESS STEEL          |   |                                     |                             |         |  |
| CONTROL CIRCUITS  |  |   |                          |   |                                     |                             |         |  |
| Tubing  |  | COPPER  | STAINLESS STEEL          |   |                                     |                             |         |  |
| Fittings  |  | LOW-LEAD BRASS  | STAINLESS STEEL          |   |                                     |                             |         |  |

The diagram shows a cross-section of a valve assembly. On the left, labels point to the BONNET, SPRING, UPPER STEM GUIDE BUSHING, and SEAT DISC RETAINER. On the right, labels point to the DIAPHRAGM PLATE, ALIGNMENT PLUG, DIAPHRAGM, SPOOL, and SEAT DISC. The assembly is shown in a partially open position, revealing the internal components and the flow path.

TEFLON® is a registered trademark of DuPont.



Special Service Valve Materials: Duplex Stainless Steel,  
Super Duplex Stainless Steel (Contact factory)



### Globe Flanged Sizes

|       |      |      |      |      |       |       |       |       |       |       |       |        |        |       |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| 1.25" | 1.5" | 2"   | 2.5" | 3"   | 4"    | 6"    | 8"    | 10"   | 12"   | 14"   | 16"   | 18"*   | 20"*   | 24"   |
| 32mm  | 40mm | 50mm | 65mm | 80mm | 100mm | 150mm | 200mm | 250mm | 300mm | 350mm | 400mm | 450mm* | 500mm* | 600mm |

\*CONSULT FACTORY



### Angle Flanged Sizes

|       |      |      |      |      |       |       |       |       |       |       |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.25" | 1.5" | 2"   | 2.5" | 3"   | 4"    | 6"    | 8"    | 10"   | 12"   | 16"   |
| 32mm  | 40mm | 50mm | 65mm | 80mm | 100mm | 150mm | 200mm | 250mm | 300mm | 400mm |



### Globe/Angle Screwed Sizes

|       |      |      |      |      |
|-------|------|------|------|------|
| 1.25" | 1.5" | 2"   | 2.5" | 3"   |
| 32mm  | 40mm | 50mm | 65mm | 80mm |



### Globe/Angle Grooved Sizes

|      |      |      |      |       |        |
|------|------|------|------|-------|--------|
| 1.5" | 2"   | 2.5" | 3"   | 4"    | 6"*    |
| 32mm | 50mm | 65mm | 80mm | 100mm | 150mm* |

\*GLOBE ONLY

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## DIMENSIONS

U.S. DIMENSIONS - INCHES

| DIM | END CONN. | 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     | --       | --      | --     | --     | --       | --     |
|     | 150# FLGD | 8 1/2        | 9 3/8   | 10 1/2  | 12     | 15      | 17 3/4 | 25 3/8   | 29 3/4  | 34     | 39     | 40 3/8   | 62     |
|     | 300# FLGD | 8 3/4        | 9 7/8   | 11 1/8  | 12 3/4 | 15 5/8  | 18 5/8 | 26 3/8   | 31 1/8  | 35 1/2 | 40 1/2 | 42       | 63 3/4 |
| B   | SCREWED   | 1 7/16       | 1 11/16 | 1 7/8   | 2 1/4  | --      | --     | --       | --      | --     | --     | --       | --     |
|     | GROOVED   | 1*           | 1 3/16  | 1 7/16  | 1 3/4  | 2 1/4   | 3 5/16 | --       | --      | --     | --     | --       | --     |
|     | 150# FLGD | 2 5/16-2 1/2 | 3       | 3 1/2   | 3 3/4  | 4 1/2   | 5 1/2  | 6 3/4    | 8       | 9 1/2  | 10 5/8 | 11 3/4   | 16     |
|     | 300# FLGD | 2 5/8-3 1/16 | 3 1/4   | 3 3/4   | 4 1/8  | 5       | 6 1/4  | 7 1/2    | 8 3/4   | 10 1/4 | 11 1/2 | 12 3/4   | 18     |
| C   | 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 11/16 | 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 7/8   | 4       | 4 1/2  | --      | --     | --       | --      | --     | --     | --       | --     |
|     | GROOVED   | 3 1/8*       | 3 7/8   | 4       | 4 1/2  | 5 5/8   | --     | --       | --      | --     | --     | --       | --     |
|     | 150# FLGD | 3            | 3 7/8   | 4       | 4      | 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     |
| F   | ALL       | 3 7/8        | 3 7/8   | 3 7/8   | 3 7/8  | 3 7/8   | 3 7/8  | 6 3/8    | 6 3/8   | 6 3/8  | 6 3/8  | 6 3/8    | 8      |
| G   | ALL       | 6            | 6 3/4   | 7 11/16 | 8 3/4  | 11 3/4  | 14     | 21       | 24 1/2  | 28     | 31 1/4 | 34 1/2   | 52     |
| H   | ALL       | 10           | 11      | 11      | 11     | 12      | 13     | 14       | 17      | 18     | 20     | 20       | 28 1/2 |

\*GROOVED END NOT AVAILABLE IN 1 1/4"

METRIC DIMENSIONS - M.M.

| DIM | END CONN. | DN32-DN40 | DN50 | DN65 | DN80 | DN100 | DN150 | DN200 | DN250 | DN300 | DN350 | DN400 | DN600 |
|-----|-----------|-----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| A   | SCREWED   | 222       | 251  | 267  | 330  | --    | --    | --    | --    | --    | --    | --    | --    |
|     | GROOVED   | 222       | 251  | 267  | 330  | 387   | 508   | --    | --    | --    | --    | --    | --    |
|     | 150# FLGD | 216       | 238  | 267  | 305  | 381   | 451   | 645   | 756   | 864   | 991   | 1026  | 1575  |
|     | 300# FLGD | 222       | 251  | 283  | 324  | 397   | 473   | 670   | 791   | 902   | 1029  | 1067  | 1619  |
| B   | SCREWED   | 37        | 43   | 48   | 57   | --    | --    | --    | --    | --    | --    | --    | --    |
|     | GROOVED   | 25*       | 30   | 37   | 44   | 57    | 84    | --    | --    | --    | --    | --    | --    |
|     | 150# FLGD | 59-64     | 76   | 89   | 95   | 114   | 140   | 171   | 203   | 241   | 270   | 298   | 406   |
|     | 300# FLGD | 67-78     | 83   | 95   | 105  | 127   | 159   | 191   | 222   | 260   | 292   | 324   | 457   |
| C   | SCREWED   | 111       | 121  | 152  | 165  | --    | --    | --    | --    | --    | --    | --    | --    |
|     | GROOVED   | 111*      | 121  | 152  | 165  | 194   | --    | --    | --    | --    | --    | --    | --    |
|     | 150# FLGD | 108       | 121  | 152  | 152  | 191   | 254   | 322   | 378   | 432   | --    | 529   | --    |
|     | 300# FLGD | 111       | 127  | 162  | 162  | 198   | 267   | 335   | 395   | 451   | --    | 549   | --    |
| D   | SCREWED   | 79        | 98   | 102  | 114  | --    | --    | --    | --    | --    | --    | --    | --    |
|     | GROOVED   | 79*       | 98   | 102  | 114  | 143   | --    | --    | --    | --    | --    | --    | --    |
|     | 150# FLGD | 76        | 98   | 102  | 102  | 140   | 152   | 203   | 289   | 279   | --    | 398   | --    |
|     | 300# FLGD | 79        | 105  | 111  | 111  | 148   | 165   | 216   | 306   | 298   | --    | 419   | --    |
| E   | ALL       | 152       | 152  | 178  | 165  | 203   | 254   | 302   | 391   | 432   | 457   | 483   | 686   |
| F   | ALL       | 98        | 98   | 98   | 98   | 98    | 98    | 162   | 162   | 162   | 162   | 162   | 203   |
| G   | ALL       | 152       | 171  | 195  | 222  | 298   | 356   | 533   | 622   | 711   | 794   | 876   | 1321  |
| H   | ALL       | 254       | 279  | 279  | 279  | 305   | 330   | 356   | 432   | 457   | 508   | 508   | 724   |

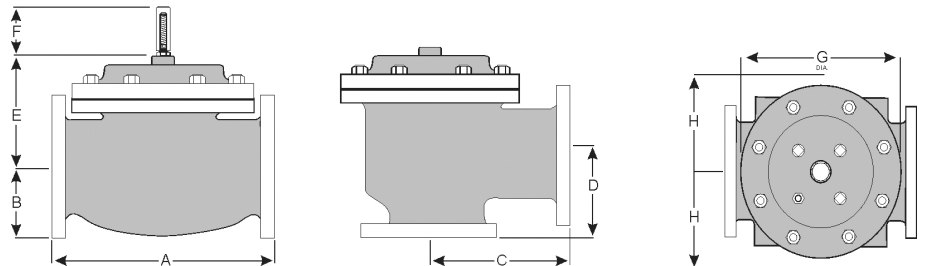
\*GROOVED END NOT AVAILABLE IN DN32

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 valve

When Ordering please provide:  
 Series Number - Valve size - Globe or Angle -  
 Pressure Class - Screwed, Flanged, Grooved -  
 Trim Material - Adjustment Range - Pilot  
 Options - Special needs / or installation requirements.



Represented by:

7400 East 42nd Place • Tulsa, Oklahoma 74145 • USA

Phone: 1-918-627-1942 • Toll Free: 1-888-OCV-VALV (628-8258) • Email: [usa@aquestia.com](mailto:usa@aquestia.com)