



▲ Model 8101 shown w/ 812 pilot

While similar to the Series 8000 On/Off Float Valves through the use of a rotary disc float control, the 8100 series provides modulating rather than on/off type action. In this way, level in the vessel can be continuously maintained within extremely narrow limits.

## SERIES FEATURES

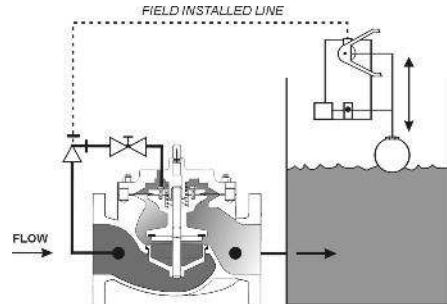
- ▶ Can control level by flow-in or flow-out of tank.
- ▶ Single control line from valve to pilot (water service).
- ▶ Three pilot types available.
- ▶ Accurate constant level control.
- ▶ Positive shut-off on high level.
- ▶ Valve mounting can be top fill or bottom fill.

## 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.

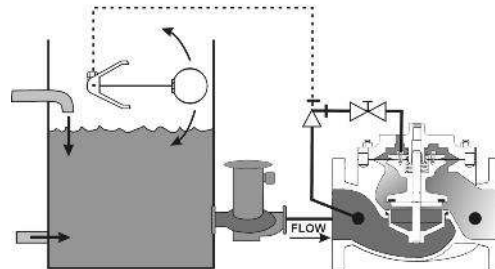
### TANK FILL VALVE

Opens on falling level and closes on rising level.  
 (shown with 813 pilot)  
 Mounting of valve and pilot provides an air gap between pilot and liquid level.



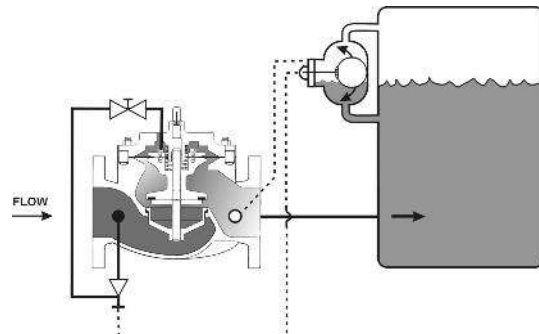
### TANK DISCHARGE VALVE

Opens on rising level and closes on falling level.  
 (shown with 812 pilot)



### TANK FILL VALVE

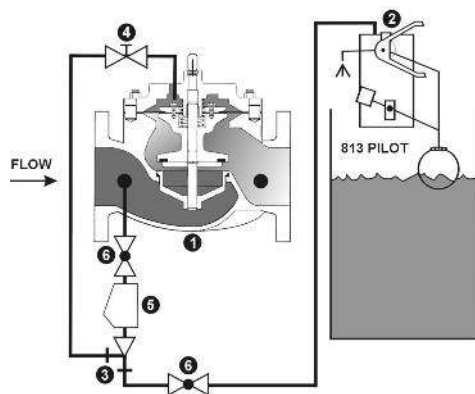
Opens on falling level and closes on rising level.  
 (shown with chamber mounted 815 pilot)  
 Typical for fuel service, floating pan tanks.



## VALVE OPERATION

### TANK FILL OPERATION (MODEL 8102)

A single sense line connects the pilot (mounted above the liquid level) to the ejector on the main valve. Through the ejector, inlet pressure on the valve is supplied to the valve's upper control chamber (bonnet) and to the pilot valve. As the level changes the pilot responds by either discharging pressure off the bonnet of the main valve thereby allowing the valve to open (falling level), or diverting inlet pressure to the bonnet, causing it to close (rising level). Level is maintained.



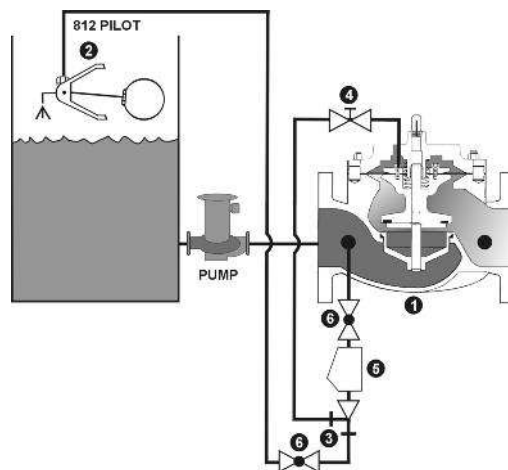
| ITEM | DESCRIPTION          |
|------|----------------------|
| 1    | BASIC VALVE ASSEMBLY |
| 2    | TWO-WAY FLOAT PILOT  |
| 3    | EJECTOR              |
| 4    | NEEDLE VALVE         |
| 5    | Y-STRAINER           |
| 6    | ISOLATION BALL VALVE |

### TANK DISCHARGE OPERATION (MODEL 8111)

The float pilot (mounted at the liquid level) is connected to the ejector on the main valve which is installed on the tank discharge line. Through the ejector, inlet pressure on the valve is supplied to the valve's upper control chamber (bonnet) and to the pilot valve. In this application the float pilot is reverse acting. As the level changes the pilot responds by either discharging pressure off the bonnet of the main valve thereby allowing the valve to open (rising level), or diverting inlet pressure to the bonnet, causing it to close (falling level). Level is maintained.

*It is important to note that this application requires the use of a pump between the tank and the valve. For gravity applications the configuration of the valve will change.*

Note: In either tank fill or tank discharge, valve sizes up to 6" are controlled directly by the rotary float pilot as shown here. For valve sizes 8" and larger, the float pilot operates a Model 1356 relay pilot which, in turn, operates the main valve.



## HYDRAULIC REQUIREMENTS

For proper operation of bottom fill valves, and especially tank discharge valves, inlet pressure should be at least 5 psi greater than that of tank head. In brief, without the minimum 5 psi differential, the valve will not work. Lack of such minimum should not eliminate the valve from consideration. Refer to the Series 8100 Valve Selection Guide in this Tech Series for model numbers

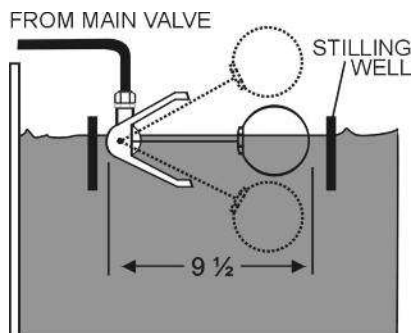
## INSTALLATION

After the main valve is installed the pilot sense line must be connected to the float pilot. The proper installation of the pilot line is critical to the efficient operation of the float valve. Minimum recommended size for the sense line is 1/2" OD tubing or 3/8" pipe. The pilot supply port is 3/8" NPT.

In any float pilot installation where there is periodic or continuous turbulence within the tank, consideration must be given to shielding the float from such turbulence with a stilling well. Failure to do so can result in erratic valve control

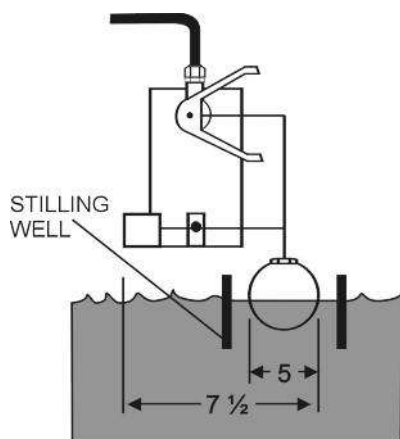
## PILOTS 812, 813, 815

► It should be understood that there is essentially no difference in the operation of the three rotary pilots used in the 8100 series. Only in a few physical characteristics do they vary.



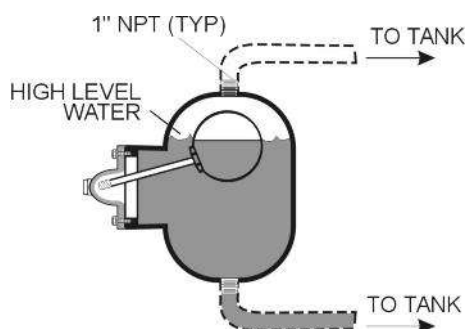
### Pilot Model 812

Of the three rotary float pilots, the non-adjustable 812 is the simplest. Connected to the main valve by a sense line 3/8" NPT or larger, the 812 can be installed in the tank simply by suspending it from this line. Although the pilot is primarily designed for modulation, if high-level shutoff is desired, the 812 can be set to throttle the valve closed over the last few inches of level change. Liquid off the bonnet of the main valve is discharged by the pilot directly into the tank. The 812 is suitable for both water and fuel service, although it does not lend itself to installation in floating roof tanks.



### Pilot Model 813

The 813 rotary float pilot operates identically to the 812 described above, but, in addition, is equipped with an adjustable float and is constructed to provide an air gap between the float and pilot. The float assembly allows the operator to make appropriate changes in float position to accommodate specific operating conditions. The air gap feature prevents cross-connection. The (adjustable length) float arm of the 813 is counterweight-balanced for free and effortless movement.



### Pilot Model 815 (Chamber-Mounted Pilot)

Used primarily for fuel installations, the non-adjustable 815 rotary float pilot is specifically designed for floating roof tanks or similar installations where access to the interior of the vessel is inconvenient or impossible. The 815 installs on the exterior of the tank and, once in place, operates identically to the 812. Liquid off the bonnet of the main valve is vented back into the chamber, or, if desired, back to the outlet of the main valve.

## SIZING CONSIDERATIONS

While most Series 8100 valves are line sized, there are two factors that should be checked. Maximum flow rate should not exceed 25 ft/sec, in other words don't use a valve that is too small. At the same time, you don't want the valve so large that when it opens, it drops the system pressure so low that there is not enough pressure to close the valve when high level is reached. Our ValveMaster selection and sizing software covers this in detail. However, if you do not have access to the software on our web site, sizing within the flow limitations shown in the following table should result in satisfactory operation.

| SIZE           | 1 1/4" | 1 1/2" | 2"  | 2 1/2" | 3"  | 4"   | 6"   | 8"   | 10"  | 12"  | 14"    | 16"    | 24"    |
|----------------|--------|--------|-----|--------|-----|------|------|------|------|------|--------|--------|--------|
| Min. flow, gpm | 14     | 23     | 50  | 75     | 115 | 200  | 450  | 780  | 1225 | 1750 | 2100   | 2750   | 6250   |
| Max. flow, gpm | 115    | 160    | 260 | 370    | 570 | 1000 | 2250 | 3900 | 6150 | 8700 | 10,500 | 13,800 | 31,300 |

## VALVE SELECTION GUIDE

By combining various control pilots, multiple valve functions can be performed on a single Series 8100 Float 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.

| Feature                                         | 8101 | 8102 | 8103 | 8104 | 8105 | 8106 | 8111 | 8112 | 8113 | 8114 | 8115 | 8116 | 8121 | 8122 | 8131 | 8132 | 81xx-1* | 81xx-2* | 81xx-6* | Definition                                             |
|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|---------|--------------------------------------------------------|
| Flow Into Tank                                  | X    | X    | X    | X    | X    | X    |      |      |      |      |      |      | X    | X    |      |      |         |         |         | Controls flow into the tank                            |
| Flow Out Of Tank                                |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      | X    | X    |         |         |         | Controls flow out of the tank                          |
| 812 Float Pilot                                 | X    |      |      | X    |      |      | X    |      |      | X    |      |      | X    |      | X    |      |         |         |         | Modulating float pilot with horizontal pivot           |
| 813 Float Pilot                                 |      | X    |      |      | X    |      |      | X    |      |      | X    |      |      | X    |      | X    |         |         |         | Modulating float pilot with vertical rod, adjustable   |
| 815 Float Pilot                                 |      |      | X    |      |      | X    |      |      | X    |      |      | X    |      |      |      |      |         |         |         | External chamber w/ modulating pilot inside            |
| 1356 Relay Pilot                                |      |      |      | X    | X    | X    |      |      |      | X    | X    | X    |      |      |      |      |         |         |         | Auxiliary Control for use on valve sizes 8" and larger |
| Check Feature                                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | X       |         | Closes valve on pressure reversal                      |
| Solenoid Override (Energize to Open)            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X       |         |         | Opens valve electrically                               |
| Solenoid Override (Energize to Close)           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | X       |         | Closes valve electrically                              |
| Power Actuated Main Valve w/ independent press. |      |      |      |      |      |      |      |      |      |      |      |      | X    | X    | X    | X    |         |         |         | For gravity flow and other low differential            |

\* can be applied to any of the listed models

## 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.

**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](mailto:sales@controlvalves.com) • website: [www.controlvalves.com](http://www.controlvalves.com)

## SPECIFICATIONS

NOTE: ALL waterworks valves meet the Low-Lead laws of the United States, including individual state laws, as of March 2014.

\*Valves 1-1/4" through 24" are certified to NSF/ANSI 372. Valves 4" through 24" are also certified to NSF/ANSI 61-G.

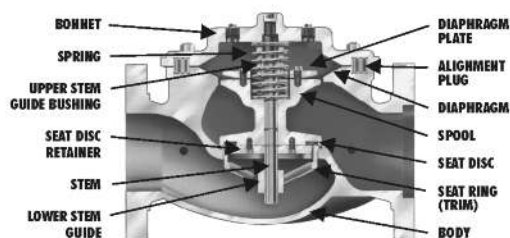


| VALVE BODY & BONNET                                                            |  | DUCTILE IRON                                                                                  |         | CAST STEEL                            |                                     | STAINLESS STEEL         |         |
|--------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|---------|---------------------------------------|-------------------------------------|-------------------------|---------|
| Material Specification                                                         |  | ASTM A536/65-45-12<br>(epoxy coated)                                                          |         | ASTM A216/WCB<br>(epoxy coated)       |                                     | ALL GRADES              |         |
| 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 - STN. STL.                                            |         |                                       |                                     | STAINLESS STEEL         |         |
| Seat Disc Retainer                                                             |  | DUCTILE IRON (epoxy coated) (10" & LARGER)<br>STN. STL. (8" & SMALLER / OPTIONAL - ALL SIZES) |         |                                       |                                     | STAINLESS STEEL         |         |
| Diaphragm Plate                                                                |  | DUCTILE IRON (epoxy coated) / OPTIONAL - STN. STL.                                            |         |                                       |                                     | STAINLESS STEEL         |         |
| Seat Ring (Trim)                                                               |  | LOW-LEAD BRONZE OR STN. STL.                                                                  |         |                                       |                                     | STN. STL.               |         |
| Upper Stem Bushing                                                             |  | BRONZE OR TEFLON®                                                                             |         |                                       |                                     | TEFLON®                 |         |
| Lower Stem Bushing                                                             |  | NOT APPLICABLE FOR LOW-LEAD BROZE SEAT RINGS / TEFLON FOR FOR STN. STL. SEAT RINGS            |         |                                       |                                     |                         |         |
| ELASTOMER PARTS (Rubber)                                                       |  |                                                                                               |         |                                       |                                     |                         |         |
| Diaphragm/Seat Disc/O-Rings                                                    |  | EPDM                                                                                          |         |                                       |                                     |                         |         |
| Operating Temperature*                                                         |  | 32°F to 230°F                                                                                 |         |                                       |                                     |                         |         |
| *Consult factory when temperatures approach low or high temperature allowance. |  |                                                                                               |         |                                       |                                     |                         |         |
| COATINGS                                                                       |  | NSF-61 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                                                                 |  |                                                                                               |         |                                       |                                     |                         |         |
| Bodies                                                                         |  | LOW-LEAD BRONZE                                                                               |         | STN. STL.                             |                                     |                         |         |
| Internal                                                                       |  | STAINLESS STEEL                                                                               |         | STAINLESS STEEL                       |                                     |                         |         |
| Tubing                                                                         |  | COPPER                                                                                        |         | STAINLESS STEEL                       |                                     |                         |         |
| Fittings                                                                       |  | LOW-LEAD BRASS                                                                                |         | STAINLESS STEEL                       |                                     |                         |         |

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The diagram shows a cross-section of a valve assembly. On the left, labels point to the BONNET, SPRING, UPPER STEM GUIDE BUSHING, SEAT DISC RETAINER, and STEM. 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 diaphragm mechanism.

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### 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

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

# Float Controlled (Modulating) Valve Series 8100



## 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 |

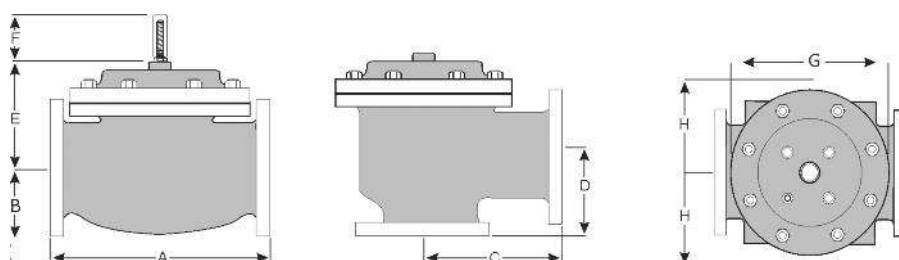
\*GROOVED END NOT AVAILABLE IN 1 1/4"

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:

**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.**