



Model 3331 shown ▶

The elevated tank, standpipe or storage reservoir is a common and important element found in many water distribution systems- municipal, fire protection, commercial, military and industrial.

The function of the OCV Series 3330 Altitude Control Valve is accurate, automatic level control, without the use of floats or sensors. Pilot controls for the series can accommodate storage facilities up to 230 feet high, maintaining the liquid level to within inches of a predetermined set point.

The series is offered in two basic types. The Model 3331, one-way flow is used for tank fill only. The Model 3333 allows flow both into and out of the tank.

SERIES FEATURES

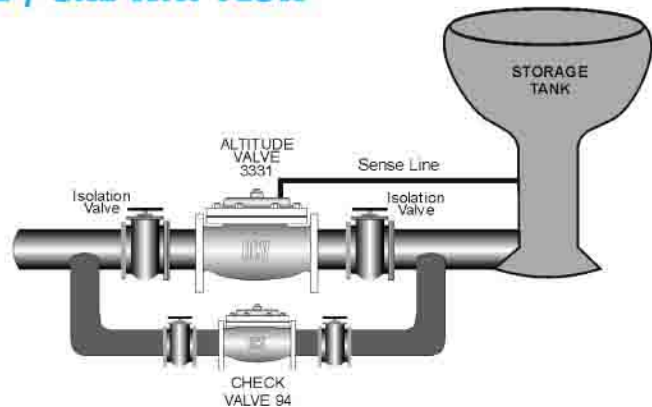
- ▶ Consistently maintains water level to within inches of set point in tank/reservoirs from 5 to 230 Ft high.
- ▶ Installs at the base of tank
- ▶ Operates hydraulically without need for a tank-mounted float or electrical controls or sensors.

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.

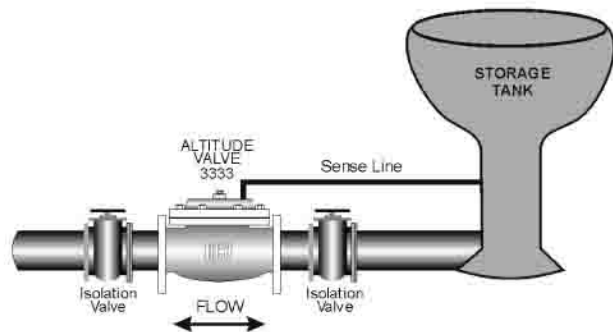
ALTITUDE VALVE / ONE WAY FLOW (TANK FILL)

Provides automatic filling of elevated tanks or reservoirs. When the altitude control senses a drop in level below the predetermined set point, the valve opens to fill tank. When the level again reaches the set point, the valve will close. Discharge of the tank is by a separate line.



ALTITUDE VALVE / TWO WAY FLOW (TANK FILL & DISCHARGE)

Controls both the fill and discharge cycles of a tank or reservoir. When valve inlet (system) pressure falls below tank head pressure, the altitude valve opens to feed the system. When system pressure recovers above tank head, the tank begins to refill. When the high level set point is reached, the valve will close.



VALVE OPERATION

Model 3331 One-way Flow

The 3331 is designed to only fill the tank. Tank head (pressure) is sensed under the diaphragm of the 3300 altitude pilot (2). When the tank head falls below the set point, the pilot shifts to vent water from diaphragm chamber of the main valve (1) to drain. This allows the valve to open and fill the tank. When the tank level again reaches the set point, the altitude pilot shifts to apply full inlet pressure to the diaphragm of the main valve, forcing the valve fully closed.

The 3331 consists of the following components, arranged as shown on the schematic diagram:

- | | |
|----------------------------------|--------------------------------|
| 1. Model 65 Basic Valve Assembly | 4. Model 159 Y-Strainer |
| 2. Model 3300 Altitude Pilot | 5. Two Model 141-4 Ball Valves |
| 3. Model 141-2 Needle Valve | 6. Model 155 Visual Indicator |

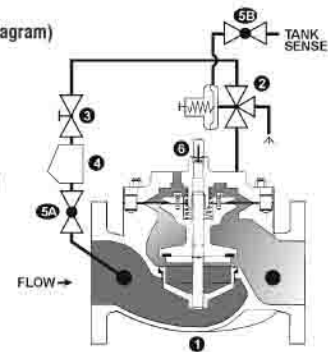
Two-Way Altitude Valve

The 3333 is designed to drain and fill the tank. When the inlet (system) pressure falls below the set point of the altitude pilot (2), the pilot shifts to vent water from diaphragm chamber of the main valve (1) to drain. This allows the valve to open and let the tank feed the system. When system pressure recovers to a point higher than tank head, the tank will begin refilling. When the tank level again reaches the set point, the altitude pilot shifts to apply full inlet pressure to the diaphragm of the main valve, forcing the valve fully closed.

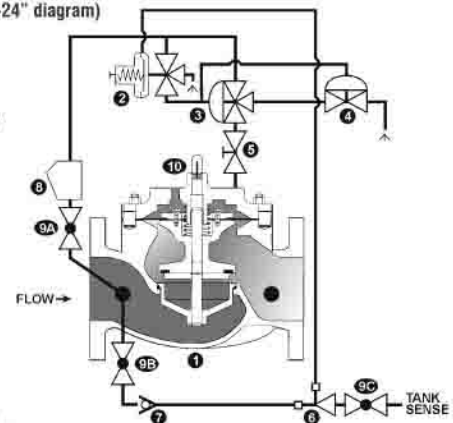
The 3333 consists of the following components, arranged as shown on the schematic diagram:

- | | |
|---|----------------------------------|
| 1. Model 65 Basic Valve Assembly | 6. Model 126 Ejector |
| 2. Model 3300 Altitude Pilot | 7. Model 141-1 Check Valve |
| 3. Model 3600 Three-Way Auxiliary Pilot (10-24" only) | 8. Model 159 Y-Strainer |
| 4. Model 6401 Two-Way Auxiliary Pilot (10-24" only) | 9. Three Model 141-4 Ball Valves |
| 5. Model 141-2 Needle Valve | 10. Model 155 Visual Indicator |

3331 (2-8" diagram)

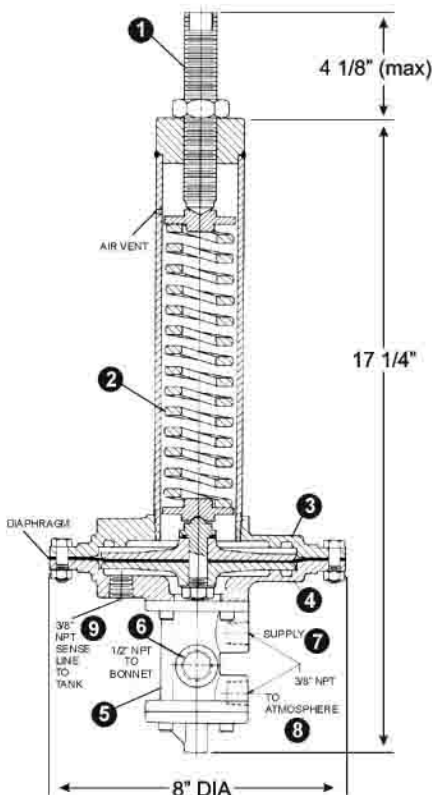


3333 (10-24" diagram)



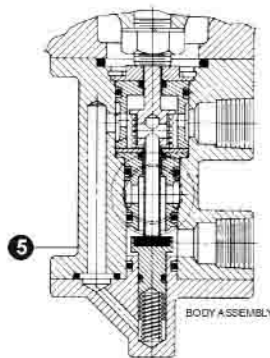
PILOT 3330

▶ 3300 Altitude Pilot



Spring Ranges in feet

- 5-30
- 20-50
- 40-80
- 70-140
- 130-230



Installation Requirements

The altitude valve is furnished fully factory assembled except for the tank sense line. In areas where freezing temperatures are possible, the valve should be located in a vault below the frost line.

After the main valve is installed, the tank sense line must be connected at the altitude pilot. The proper installation of this sense line is critical to the efficient operation of the altitude valve. The following guidelines apply.

1. It is essential that the sense line be connected as close to the tank as possible in order to accurately sense the tank head, within 40 diameters of the tank wall or riser.
2. Minimum recommended size for the sense line is 1/2" OD tubing or 3/8" pipe.
3. In order to prevent air accumulation, the sense line should slope slightly upwards from the valve to the tank.

The altitude valve vents its diaphragm chamber to atmosphere, the volume varying according to valve size, as shown below. Provision should be made to drain off or otherwise dispose of this water.

| | | | |
|--------|-----------|-----|-----------|
| 1 1/4" | 0.02 gal. | 8" | 1.0 gal. |
| 1 1/2" | 0.02 gal. | 10" | 2.5 gal. |
| 2" | 0.05 gal. | 12" | 4.0 gal. |
| 2 1/2" | 0.06 gal. | 14" | 6.5 gal. |
| 3" | 0.1 gal. | 16" | 9.6 gal. |
| 4" | 0.2 gal. | 24" | 28.0 gal. |
| 6" | 0.6 gal. | | |

MODEL 3330 Altitude Control Valve Series

1. Adjusting Screw
2. Spring
3. Upper Diaphragm Chamber
4. Lower Diaphragm Chamber
5. Pilot Valve Body
6. To Bonnet
7. To Supply
8. To Atmosphere
9. Tank Pressure Sense Line

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SIZING CONSIDERATIONS

For the most comprehensive procedure in sizing Series 3330 control valves, it is best to use our ValveMaster software or the guidelines shown here in conjunction with the Performance Charts in the Engineering Section of the OCV catalog.

With rare exceptions, altitude valves are line sized. This being said, the following criteria may be applied.

The valve flow rate may be verified from the equation:

$$Q = C_v \sqrt{dp}$$

where: Q = flow rate, gallons per minute
 Cv = valve flow coefficient from chart, below
 dp = available pressure drop
 Tank Fill - (system pressure minus tank head in psi)
 Flow Out of Tank - (tank head in psi minus system pressure)

In no case should the flow velocity exceed 25 ft/sec (see chart). If a greater flow is required, use a larger valve.

In some cases, it may be necessary to limit the flow, particularly for flow into the tank. In such cases, consider using either a smaller valve or a line size valve with a pressure sustaining feature (Model 3331-3 or 3333-3).

| BASIC VALVE FLOW CHARACTERISTICS | | | |
|----------------------------------|------------------------|------------------------|------------------------------|
| <u>Valve Size</u> | <u>Globe Valves Cv</u> | <u>Angle Valves Cv</u> | <u>Flow for 25ft/sec GPM</u> |
| 1-1/4 | 23 | 30 | 115 |
| 1-1/2 | 27 | 35 | 115 |
| 2" | 47 | 65 | 260 |
| 2-1/2" | 68 | 87 | 370 |
| 3" | 120 | 160 | 570 |
| 4" | 200 | 270 | 1,000 |
| 6" | 450 | 550 | 2,250 |
| 8" | 760 | 1,000 | 3,900 |
| 10" | 1,250 | 1,600 | 6,150 |
| 12" | 1,940 | 2,400 | 8,700 |
| 14" | 2,200 | ----- | 10,500 |
| 16" | 2,850 | 4,000 | 13,800 |
| 24" | 6,900 | ----- | 31,300 |

VALVE SELECTION GUIDE

By combining various control pilots, multiple valve functions can be performed on a single Series 3330 Altitude 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.

| | 3331 | 3331-1 | 3331-2 | 3331-3 | 3331-4 | 3331-13 | 3331-14 | 3331-23 | 3331-24 | 3331-34 | 3331-C | 3333 | 3333-1 | 3333-2 | 3333-3 | 3333-5 | 3333-13 | 3333-15 | 3333-23 | 3333-25 | 3333-35 | Definition |
|---------------------------------|------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--|
| One-Way Flow | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | Fills elevated tank or reservoir |
| Two-Way Flow | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | Fills elevated tank and opens for return flow |
| Pressure Sustaining | | | | X | | X | | X | | X | | | | | X | | X | | X | | X | Maintains minimum valve inlet pressure |
| Lift Check | | | | | | | | | | X | | | | | | | | | | | | Internal assembly closes valve on pressure reversal |
| Solenoid-Energized to Enable | | X | | | | X | X | | | | | | X | | | | X | X | | | | Solenoid energized to allow valve to open |
| Solenoid-Energized to Close | | | X | | | | | X | X | | | | | X | | | | | X | X | | Solenoid energized to close valve |
| Delayed Drawdown | | | | | X | | X | | X | X | | | | | | | | | | | | Valve opening delayed until tank level reaches set point |
| Delayed Opening For Return Flow | | | | | | | | | | | | | | | | X | | X | | X | X | Valve opening for return flow is delayed |

ABOUT YOUR VALVE

OCV Control Valves was founded more than 50 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:

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.

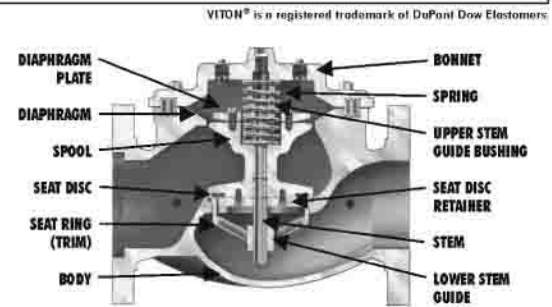


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Global performance. Personal touch.

| VALVE BODY & BONNET | DUCTILE IRON | | CAST STEEL | | CAST BRONZE | | STAINLESS STEEL | |
|--|--|---------|---|----------------------------------|-------------------------------------|---------|---------------------------|---------|
| Material Specifications | ASTM A536 (epoxy coated) | | ASTM A216/WCB (epoxy coated) | | ASTM B61 | | ASTM A743/CF8M | |
| END CONNECTIONS | | | | | | | | |
| Flange Standard (also available in metric) | ANSI B16.42 | | ANSI B16.5 | | ANSI B16.24 | | ANSI B16.5 | |
| Flange Class | 150# | 300# | 150# | 300# | 150# | 300# | 150# | 300# |
| Flange Face | Flat | Raised | Raised | Raised | Flat | Flat | Raised | Raised |
| Maximum Working Pressure | 250 psi | 640 psi | 285 psi | 740 psi | 225 psi | 500 psi | 285 psi | 740 psi |
| Screwed Working Pressure: | ANSI B1.20.1 (B2.1) 640 psi | | Grooved End Working Pressure: | | 300 psi | | | |
| INTERNALS | | | | | | | | |
| Stem | STAINLESS STEEL AISI 303 | | | | OPTIONAL MONEL | | | |
| Spring | STAINLESS STEEL AISI 302 | | | | | | | |
| Spool | DUCTILE IRON ASTM A536 (epoxy coated) | | | | B-61 | | STN. STL. ASTM A 743/CF8M | |
| Seat Disc Retainer | DUCTILE IRON ASTM A536 (epoxy coated) 4" & SMALLER VALVES - STAINLESS STEEL | | | | B-61 | | STAINLESS STEEL | |
| Diaphragm Plate | DUCTILE IRON ASTM A536 (epoxy coated) | | | | B-61 | | STAINLESS STEEL | |
| Seat Ring (Trim) | BRONZE B61 OPTIONAL STAINLESS STEEL ASTM A743/CF8M | | | | | | STN. STL. ASTM A 743/CF8M | |
| Upper Stem Bushing | STANDARD BRONZE ASTM B438 | | VALVE W/ STAINLESS STEEL SEAT RING-TEFLON | | | TEFLON | | |
| Lower Stem Bushing | SEAT MATERIAL VALVES W/ STAINLESS STEEL SEAT RING-TEFLON | | | | | | TEFLON | |
| ELASTOMER PARTS (Rubber) | | | | | | | | |
| Diaphragm/Seat Disc/O-Rings | STANDARD - BUNA-N NYLON REINFORCED | | | | OPTIONAL - VITON® | | OPTIONAL - EPDM | |
| Operating Temperature | -40°F to 180°F | | | | 32°F to 400°F | | 0°F to 300 F° | |
| COATINGS WIDE RANGE OF COATING PER YOUR FLUID APPLICATION. COATINGS HANDLE MUNICIPAL POTABLE WATER, SEAWATER, PETROLEUM AND REFINED PRODUCTS. | | | | | | | | |
| ELECTRICAL SOLENOIDS | | | | | | | | |
| Bodies | STANDARD BRASS | | | STAINLESS STEEL | | | OPTIONAL | |
| Elastomers | STANDARD - BUNA-N NYLON REINFORCED | | | | OPTIONAL - VITON® | | | |
| Enclosures | WATER TIGHT, NEMA 1, 3, 4, & 4X - EXPLOSION PROOF - OPTIONAL (NEMA 7 & 9) | | | | | | | |
| 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 | BRONZE B62/B61 | STAINLESS STEEL ASTM A743/CF8M |
| Internal | | AISI 303 |
| CONTROL CIRCUITS | | |
| Tubing | | COPPER OR STAINLESS STEEL |
| Fittings | | BRASS OR STAINLESS STEEL |



SALTWATER SERVICE VALVE MATERIALS
 Cast Steel Special Coatings --Ni Aluminum Bronze ASTM B148 --Super Duplex Stainless Steel

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" |
| 32mm | 50mm | 65mm | 80mm | 100mm |

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SPECIFICATIONS

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 | -- | -- | -- | -- | -- | -- | -- |
| | 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 | -- | -- | -- | -- | -- | -- | -- |
| | 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 ANGLE | 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 ANGLE | 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 |

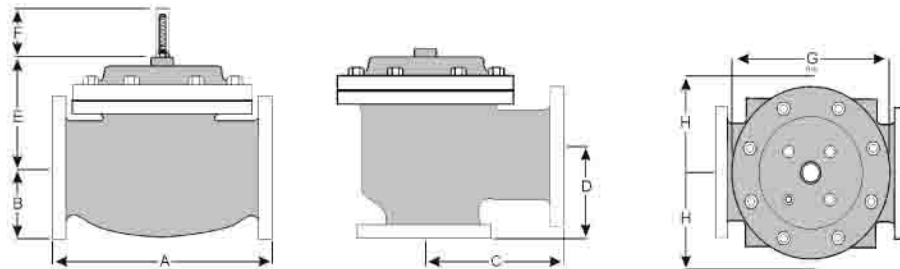
*GROOVED END NOT AVAILABLE IN 1 1/4"

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 | -- | -- | -- | -- | -- | -- | -- |
| | 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 | -- | -- | -- | -- | -- | -- | -- |
| | 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 ANGLE | 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 ANGLE | 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:

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