

# APCO CVS-250/250A SWING CHECK VALVES

## Design and Construction

APCO CVS-250/250A Swing Check Valves are used to prevent the backflow of fluid by closing before flow reversal. They are installed in clean and dirty applications including sewage treatment, water treatment, water distribution, industrial water and wastewater services.

The APCO Swing Check Valves CVS-250/250A are constructed with a heavy ductile iron body, a stainless steel body seat ring, and a single continuous stainless steel shaft for the attachment of the outside closure control devices. Closure devices include air cushion side mounted cylinder with lever and weight, lever and weight, or a lever and spring.

## Wide Size Range

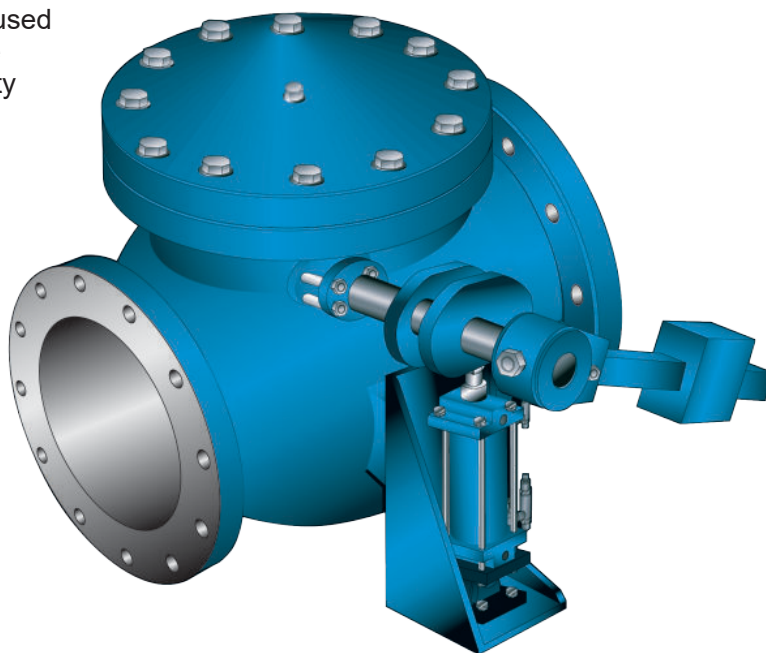
APCO CVS-250/250A Swing Check Valves are available in sizes 2-42" (50-1100mm).

## AWWA C508 Compliant

APCO CVS-250/250A Swing Check Valves are manufactured and tested per the requirements of AWWA standard C508-09 *Swing Check Valves for Waterworks Service 2" through 24" (50mm through 600mm)*.

## Rated to 250 psi (1720 kPa)

All APCO CVS-250/250A Swing Check Valves are rated to 250 psi (1720 kPa) CWP.



## Efficient Full Waterway Flow

The valve provides an efficient flow path with an area equal to or greater than the area of the nominal valve size. As a result, the APCO CVS-250/250A Swing Check Valves have lower head loss than other check valves.

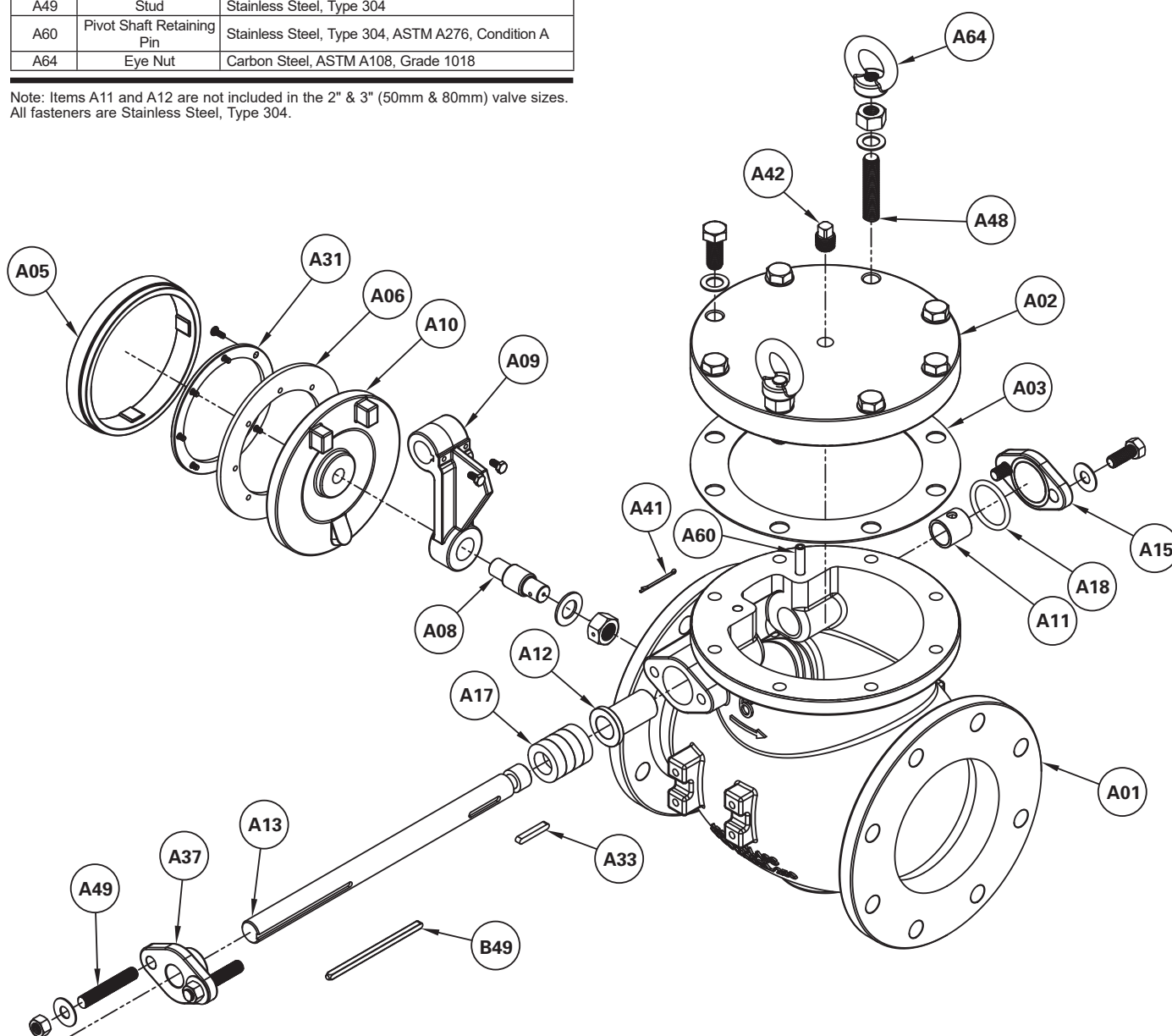
## Drip Tight Shut-Off

The APCO CVS-250/250A resilient seat provides drip tight shut-off up to the full rating of the valve.

## Materials of Construction

| Item | Description               | Material                                                                |
|------|---------------------------|-------------------------------------------------------------------------|
| A01  | Body                      | Ductile Iron, ASTM A536, Grade 65-45-12                                 |
| A02  | Cover                     | Ductile Iron, ASTM A536, Grade 65-45-12 or Steel, ASTM A36 or ASTM A105 |
| A03  | Cover Gasket              | Acrylonitrile-Butadiene (NBR)                                           |
| A05  | Body Seat Ring            | Stainless Steel, Type CF-8M, ASTM A743                                  |
| A06  | Disc Seat                 | Acrylonitrile-Butadiene (NBR)                                           |
| A08  | Disc Stem                 | Stainless Steel, Type 303, ASTM A582, Condition A                       |
| A09  | Disc Arm                  | Ductile Iron, ASTM 536, Grade 65-45-12                                  |
| A10  | Disc                      | Ductile Iron, ASTM 536, Grade 65-45-12 or Carbon Steel ASTM A514 or A36 |
| A11  | Straight Bushing          | Stainless Steel, Type 304                                               |
| A12  | Flanged Bushing           | Stainless Steel, Type 304                                               |
| A13  | Pivot Shaft               | Stainless Steel, Type 303, ASTM A582, Condition A                       |
| A15  | Pivot Shaft Cover         | Ductile Iron, ASTM A536, Grade 65-45-12                                 |
| A17  | Packing                   | Virgin PTFE                                                             |
| A18  | Shaft Cover Seal          | Acrylonitrile-Butadiene (NBR)                                           |
| A31  | Seat Retaining Ring       | Stainless Steel, Type 304, ASTM A276, Condition A                       |
| A33  | Pivot Shaft Disc Key      | Stainless Steel, Type 304, ASTM A276, Condition A                       |
| A37  | Packing Gland             | Ductile Iron, ASTM A536, Grade 65-45-12                                 |
| A41  | Cotter Pin                | Stainless Steel                                                         |
| A42  | Pipe Plug                 | Stainless Steel, Type 304                                               |
| A48  | Stud                      | Stainless Steel, Type 304                                               |
| A49  | Stud                      | Stainless Steel, Type 304                                               |
| A60  | Pivot Shaft Retaining Pin | Stainless Steel, Type 304, ASTM A276, Condition A                       |
| A64  | Eye Nut                   | Carbon Steel, ASTM A108, Grade 1018                                     |

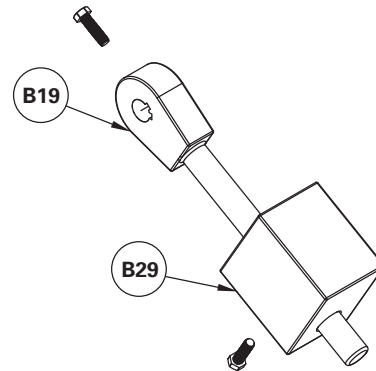
Note: Items A11 and A12 are not included in the 2" & 3" (50mm & 80mm) valve sizes.  
All fasteners are Stainless Steel, Type 304.



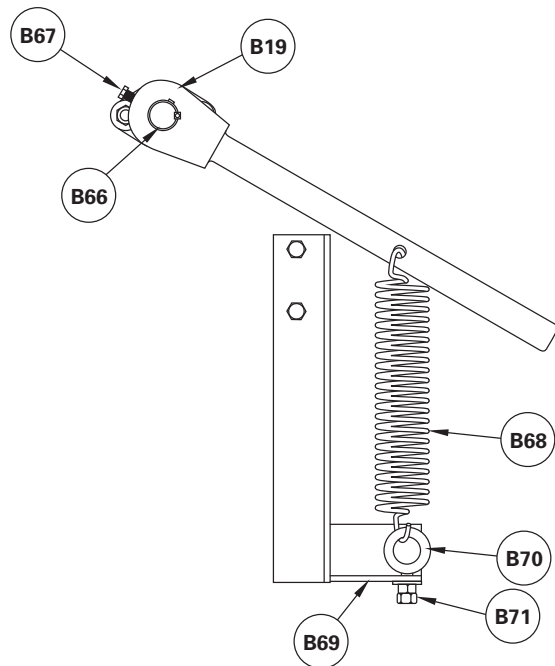
# Materials of Construction

| Item | Description                        | Material                                |
|------|------------------------------------|-----------------------------------------|
| B19  | Counter Weight Arm Assembly        | Ductile Iron, ASTM A536, Grade 65-45-12 |
| B20  | Cylinder Assembly                  | Aluminum Alloy                          |
| B24  | Cylinder Bracket                   | Ductile Iron, ASTM A536, Grade 65-45-12 |
| B27  | Cushion Lever                      | Ductile Iron, ASTM A536, Grade 65-45-12 |
| B29  | Counter Weight                     | Ductile Iron, ASTM A536, Grade 65-45-12 |
| B30  | Flow Control Valve                 | Aluminum Alloy                          |
| B34  | Pivot Shaft Key                    | Stainless Steel, Type 304               |
| B46  | Reducer Bushing 8-42" (200-1100mm) | Stainless Steel, Type 304               |
| B47  | Pipe Nipple                        | Stainless Steel, Type 304               |
| B48  | Pipe Elbow                         | Stainless Steel, Type 304               |
| B58  | Air Breather                       | Bronze                                  |
| B59  | Cushion Lever Clevis Pin           | Stainless Steel, Type 304               |
| B60  | Retaining Ring                     | Stainless Steel, Type 304               |
| B61  | Clevis Pin                         | Steel, Zinc Plated                      |
| B62  | Retaining Ring                     | Stainless Steel, Type 304               |
| B63  | Male Clevis Bracket                | Aluminum Alloy                          |
| B64  | Female Clevis Bracket              | Aluminum Alloy                          |
| B65  | Yoke                               | Steel, Black Powder Coated              |
| B66  | Spring Lever Arm Key               | Stainless Steel, Type 304               |
| B67  | Spmg Lever Arm Retaining Screw     | Stainless Steel, Type 304               |
| B68  | Spring                             | Steel                                   |
| B69  | Spring Bracket                     | Steel, ASTM A36                         |
| B70  | Eye Screw                          | Alloy Steel, Heat Treated               |
| B71  | Eye Screw Retaining Nut            | Steel, ASTM A563, Grade A               |

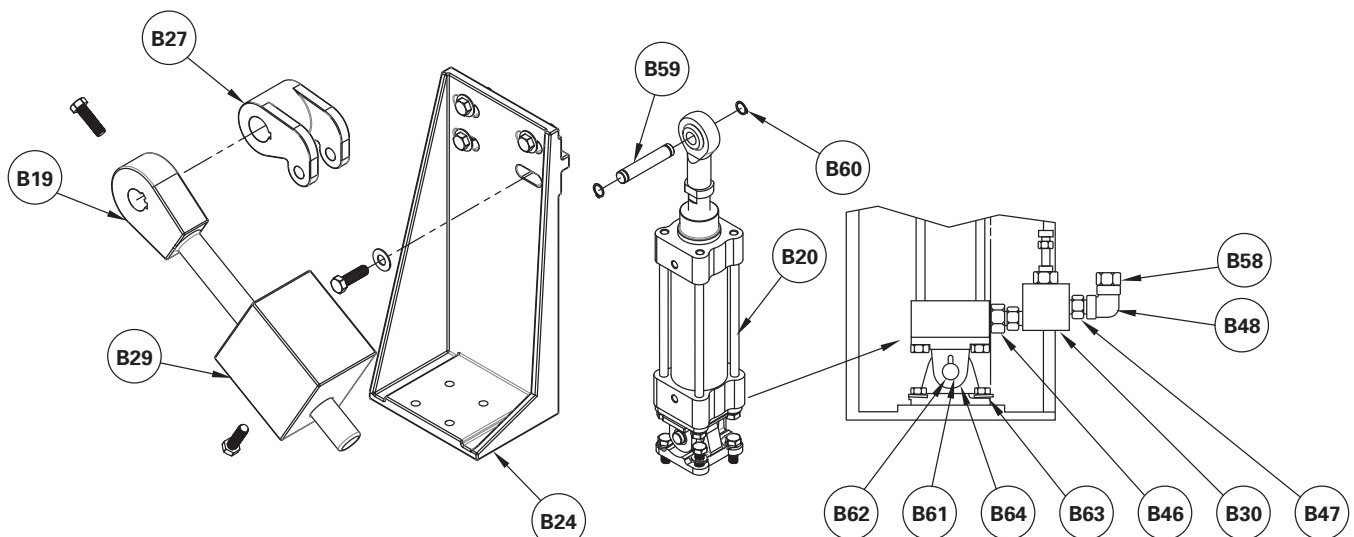
## Lever and Weight



## Lever and Spring



## Air Cushion Cylinder with Speed Control Assembly



# Valve Selection

## Applicable Standards

| APCO CVS-250/250A Swing Check Valves are designed and/or tested to meet the following standards: |                                                                                                               |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| AWWA C508-09                                                                                     | Conforms to <i>Swing Check Valves for Waterworks Service, 2-24"</i>                                           |
| ANSI B16.1                                                                                       | Cast Iron Pipe Flanges and Flanged Fittings, 125 lbs. (60 kg) Conforms to related flange drilling dimensions. |
| ANSI B16.5                                                                                       | Carbon Steel Flanges and Flanged Fittings, 150 lbs. (70 kg) Conforms to related flange drilling dimensions.   |

## Shut-Off Capabilities

|                |                     |
|----------------|---------------------|
| Resilient Seat | Drip tight shut-off |
|----------------|---------------------|

## Pressure Ratings (Ambient Temperature)

| Valve Size      | Direct Pressure             |
|-----------------|-----------------------------|
| 2-42" 50-1100mm | 250 psi CWP<br>1720 kPa CWP |

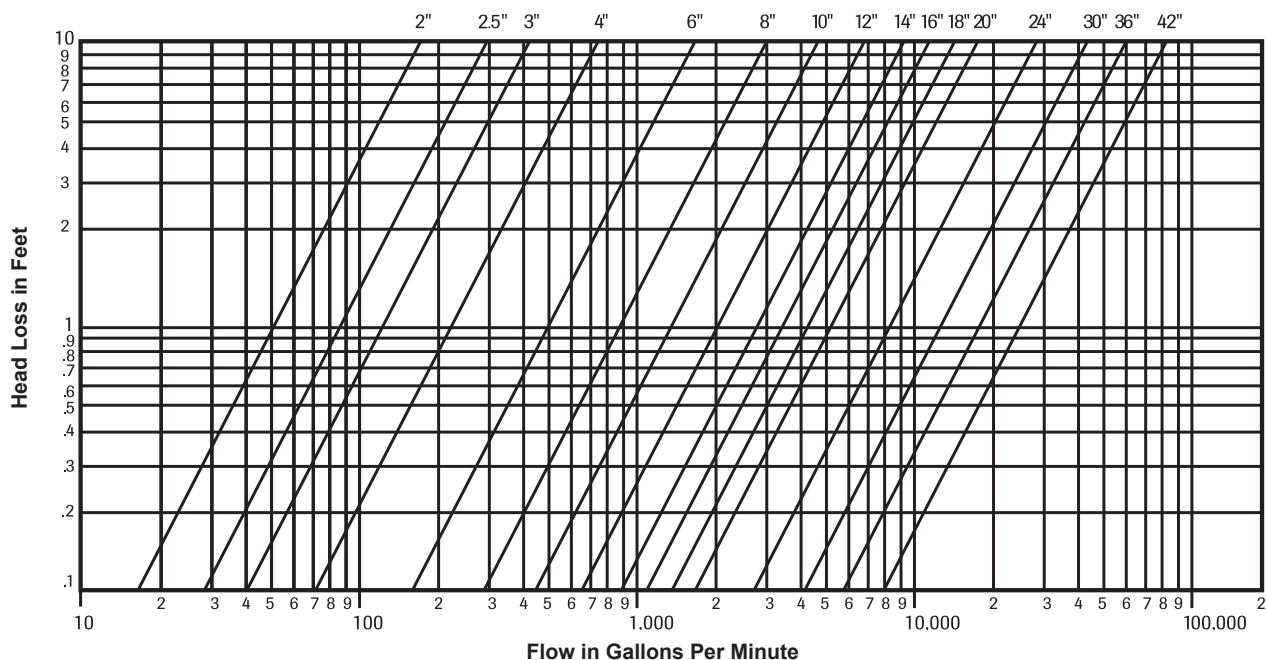
Note: Contact DeZURIK for higher pressures and larger sizes.

## Weights

| Valve Size | Air Cushioned Cylinder |
|------------|------------------------|
| 3" 80mm    | 110<br>50              |
| 4" 100mm   | 145<br>66              |
| 6" 150mm   | 205<br>93              |
| 8" 200mm   | 330<br>150             |
| 10" 250mm  | 500<br>227             |
| 12" 300mm  | 800<br>363             |
| 14" 350mm  | 1260<br>672            |
| 16" 400mm  | 1600<br>726            |
| 18" 450mm  | 2100<br>963            |
| 20" 500mm  | 2500<br>1134           |
| 24" 600mm  | 3700<br>1678           |
| 30" 750mm  | 6000<br>2722           |
| 36" 900mm  | 9100<br>4128           |
| 42" 1100mm | Contact<br>DeZURIK     |

Pounds  
Kilograms

## Head Loss Characteristics for Swing Check Valves



# Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for your reference.

## Valve Style

Give valve style code as follows:

CVS = Swing Check Valves

## Valve Size

Give valve size code as follows:

|     |   |      |         |    |   |     |          |
|-----|---|------|---------|----|---|-----|----------|
| 2   | = | 2"   | (50mm)  | 14 | = | 14" | (350mm)  |
| 2.5 | = | 2.5" | (65mm)  | 16 | = | 16" | (400mm)  |
| 3   | = | 3"   | (80mm)  | 18 | = | 18" | (450mm)  |
| 4   | = | 4"   | (100mm) | 20 | = | 20" | (500mm)  |
| 6   | = | 6"   | (150mm) | 24 | = | 24" | (600mm)  |
| 8   | = | 8"   | (200mm) | 30 | = | 30" | (750mm)  |
| 10  | = | 10"  | (250mm) | 36 | = | 36" | (900mm)  |
| 12  | = | 12"  | (300mm) | 42 | = | 42" | (1100mm) |

## Body Style

Give body style code as follows:

250A = Series 250A 2-14" (50-350mm)  
250 = Series 250 16-42" (400-1100mm)

## End Connection

Give end connection code as follows:

F1 = Flanged, ANSI 125/150

## Body Material

Give body material code as follows:

DIF = Ductile Iron, 12 mils Fusion Bonded Blue Epoxy Lined & 8 mils coated, Body Style 250 or 250A

## Trim Combination

### Disc Material

Give disc material code as follows:

DI = Ductile Iron (Body Style 250A and non AIS-250)  
CS = Carbon Steel (Body Style 250 16-20" AIS only)

### Shaft Material

Give shaft material code as follows:

S1 = 304 Stainless Steel, Body Style 250 or 250A

### Body Seat Material

Give body seat material code as follows:

S2 = 316 Stainless Steel, Body Style 250 or 250A

### Disc Seat Material

Give disc seat material code as follows:

NBR = Acrylonitrile-Butadiene  
-70 to 250° F (-57 to 121° C)

## Options

Give options code as follows:

AIS = Valves conform to H.R. 3547 Consolidated Appropriations Act, 2014 Section 436. 2-20" Body Style 250 or 250A with DIF body material only  
DTR = DeZURIK Standard Certified Production Hydrostatic Shell and Seat Test Report  
VP = Vertical Flow Up Position Installation. Not required with LS Closure Control Device. LS mounts Vertical or Horizontal with no modifications required.

## Closure Control Devices

Give operating device code as follows:

AC = Air Cushion Side Mounted Cylinder (Lever & Weight)  
LS = Lever & Spring  
LW = Lever & Weight

## Accessories

Give accessory code as follows:

250 or 250A Body Style

SEL22 = Limit Switch - DPDT AB H802T-DTP  
SEL30 = Proximity Switch - SPDT GO 73-13526-B2  
VP = Vertical Flow Up Position Installation

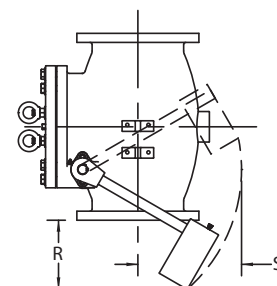
## Ordering Example:

CVS,8,250A,F1,DIF,DI-S1-S2-NBR\*AC,SEL22

# Dimensions

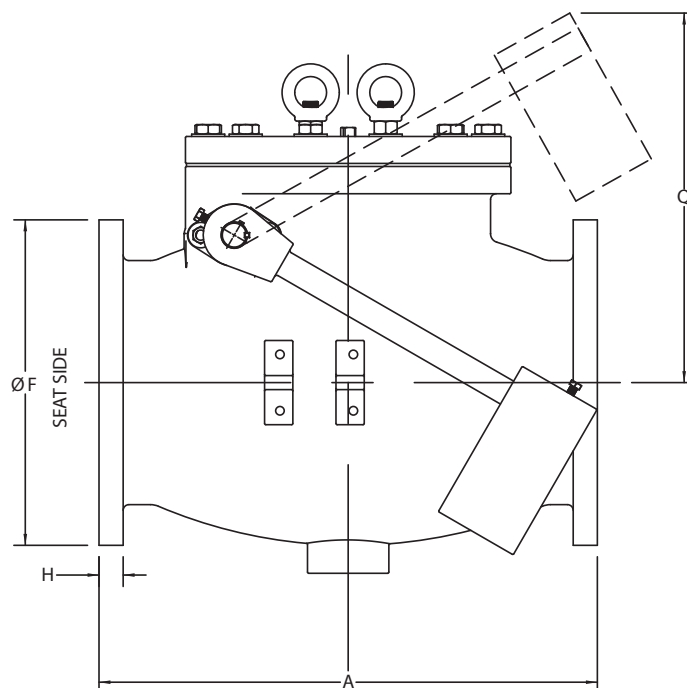
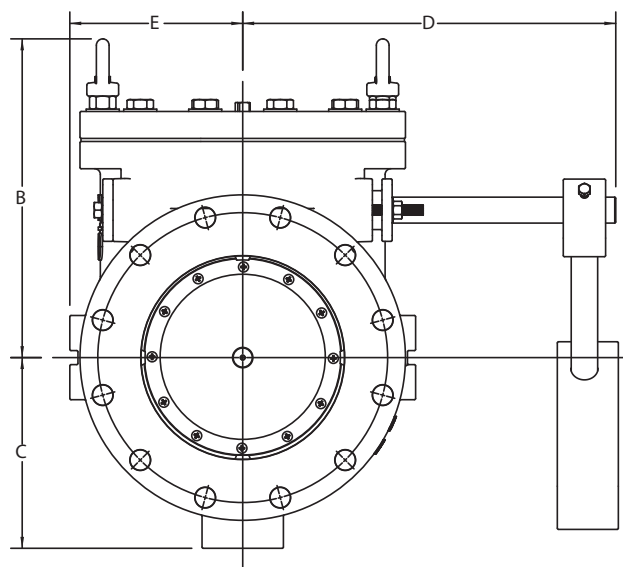
## Lever and Weight

| Valve Size    | A               | B             | C            | D             | E            | F             | H          | Q             | R            | S            |
|---------------|-----------------|---------------|--------------|---------------|--------------|---------------|------------|---------------|--------------|--------------|
| 2"<br>50mm    | 8.00<br>203     | 9.25<br>235   | 3.50<br>89   | 10.92<br>277  | 4.12<br>105  | 6.00<br>152   | 0.63<br>16 | 10.00<br>254  | 6.00<br>152  | 9.38<br>238  |
| 2.5"<br>65mm  | 8.50<br>216     | 9.72<br>247   | 3.50<br>89   | 10.92<br>277  | 4.12<br>105  | 7.00<br>178   | 0.88<br>22 | 9.88<br>251   | 6.13<br>156  | 9.38<br>238  |
| 3"<br>80mm    | 9.50<br>241     | 10.00<br>254  | 4.50<br>114  | 11.00<br>279  | 4.00<br>102  | 7.50<br>191   | 0.75<br>19 | 10.13<br>257  | 5.50<br>140  | 9.25<br>235  |
| 4"<br>100mm   | 11.50<br>292    | 10.75<br>273  | 5.00<br>127  | 11.75<br>299  | 5.00<br>127  | 9.00<br>229   | 0.94<br>24 | 10.75<br>273  | 4.88<br>124  | 8.75<br>222  |
| 6"<br>150mm   | 14.00<br>356    | 11.75<br>299  | 5.75<br>146  | 13.50<br>343  | 6.50<br>165  | 11.00<br>279  | 1.00<br>25 | 11.63<br>295  | 4.63<br>118  | 7.88<br>200  |
| 8"<br>200mm   | 19.50<br>495    | 13.75<br>349  | 7.25<br>184  | 17.00<br>432  | 7.50<br>191  | 13.50<br>343  | 1.13<br>29 | 15.50<br>394  | 5.88<br>149  | 10.38<br>264 |
| 10"<br>250mm  | 24.50<br>622    | 15.00<br>381  | 9.38<br>238  | 16.25<br>413  | 9.00<br>229  | 16.00<br>406  | 1.19<br>30 | 18.38<br>467  | 9.00<br>229  | 13.63<br>346 |
| 12"<br>300mm  | 27.50<br>699    | 19.00<br>483  | 11.00<br>279 | 18.25<br>464  | 11.00<br>279 | 19.00<br>483  | 1.25<br>32 | 21.13<br>537  | 9.00<br>229  | 14.25<br>362 |
| 14"<br>350mm  | 31.00<br>787    | 22.50<br>572  | 13.50<br>343 | 26.00<br>660  | 14.00<br>356 | 21.00<br>533  | 1.38<br>35 | 25.88<br>657  | 11.75<br>299 | 18.75<br>476 |
| 16"<br>400mm  | 36.00<br>914    | 24.50<br>622  | 14.25<br>362 | 29.50<br>749  | 15.00<br>381 | 23.50<br>597  | 1.44<br>37 | 32.00<br>813  | 7.25<br>184  | 15.88<br>403 |
| 18"<br>450mm  | 40.00<br>1016   | 26.50<br>673  | 17.38<br>441 | 31.00<br>787  | 18.63<br>473 | 25.00<br>635  | 1.56<br>40 | 36.00<br>914  | 9.25<br>235  | 21.25<br>540 |
| 20"<br>500mm  | 40.00<br>1016   | 28.75<br>730  | 17.63<br>448 | 32.38<br>822  | 18.63<br>473 | 27.50<br>699  | 1.69<br>43 | 41.00<br>1041 | —            | —            |
| 24"<br>600mm  | 48.00<br>1219   | 32.50<br>826  | 20.13<br>511 | 34.00<br>864  | 21.00<br>533 | 32.00<br>813  | 1.88<br>48 | 38.00<br>965  | 8.75<br>222  | 19.25<br>489 |
| 30"<br>750mm  | 56.00<br>1422   | 44.13<br>1121 | 29.75<br>756 | 39.00<br>991  | 24.00<br>610 | 38.75<br>984  | 2.13<br>54 | 53.13<br>1349 | 15.50<br>394 | 24.00<br>610 |
| 36"<br>900mm  | 63.00<br>1600   | 50.50<br>1283 | 33.50<br>851 | 42.00<br>1067 | 27.00<br>686 | 46.00<br>1168 | 2.38<br>60 | 57.50<br>1461 | 15.00<br>381 | 21.00<br>533 |
| 42"<br>1100mm | Contact DeZURIK |               |              |               |              |               |            |               |              |              |



VP, VERTICAL FLOW UP  
POSITION INSTALLATION  
LEVER ARM SWING

Inches  
Millimeters

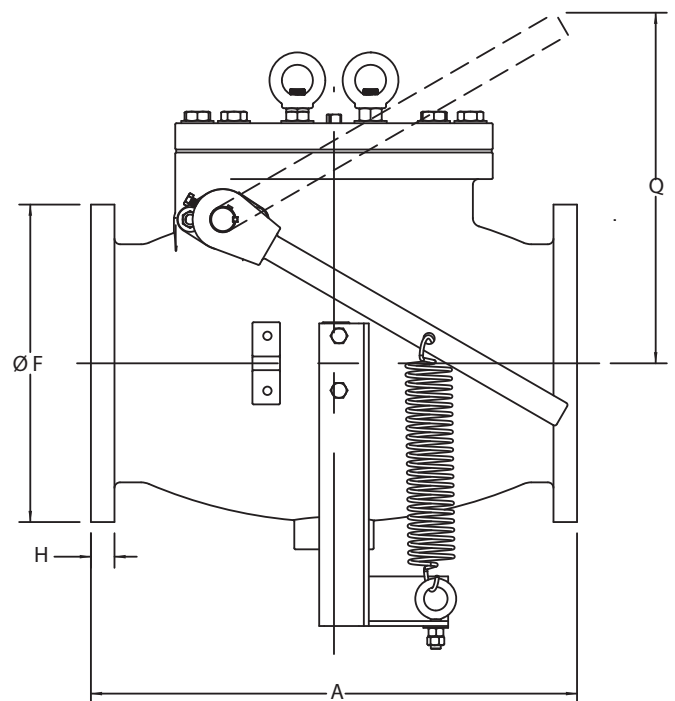
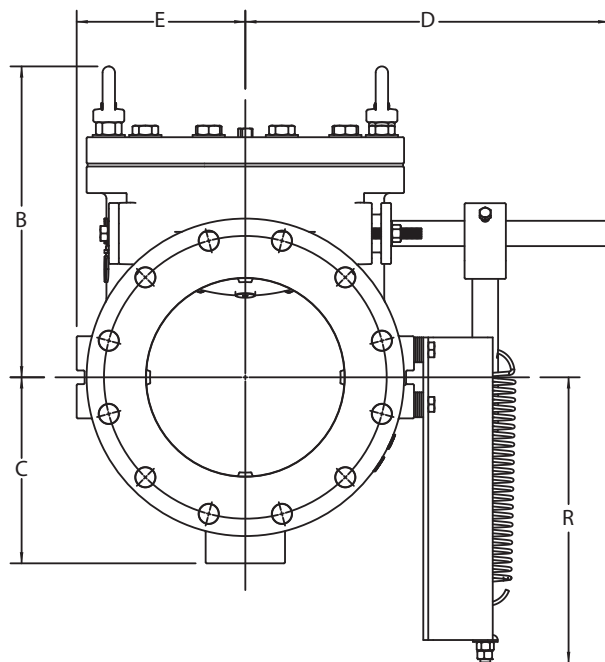


# Dimensions

## Lever and Spring

| Valve Size    | A               | B             | C            | D             | E            | F             | H          | Q             | R            |
|---------------|-----------------|---------------|--------------|---------------|--------------|---------------|------------|---------------|--------------|
| 2"<br>50mm    | 8.00<br>203     | 9.25<br>235   | 3.50<br>89   | 10.92<br>277  | 3.83<br>97   | 6.00<br>152   | 0.63<br>16 | 9.25<br>235   | 9.83<br>250  |
| 2.5"<br>65mm  | 8.50<br>216     | 9.72<br>247   | 3.50<br>89   | 10.92<br>277  | 3.83<br>97   | 7.00<br>178   | 0.88<br>22 | 9.25<br>235   | 9.83<br>250  |
| 3"<br>80mm    | 9.50<br>241     | 10.00<br>254  | 4.50<br>114  | 11.00<br>279  | 4.00<br>102  | 7.00<br>178   | 0.75<br>19 | 9.39<br>239   | 10.64<br>270 |
| 4"<br>100mm   | 11.50<br>292    | 10.75<br>273  | 5.00<br>127  | 11.75<br>299  | 5.00<br>127  | 9.00<br>229   | 0.94<br>24 | 10.00<br>254  | 9.50<br>241  |
| 6"<br>150mm   | 14.00<br>356    | 11.75<br>299  | 5.75<br>146  | 13.50<br>343  | 6.50<br>165  | 11.00<br>279  | 1.00<br>25 | 10.90<br>277  | 9.50<br>241  |
| 8" 200mm      | 19.50<br>495    | 13.75<br>349  | 7.25<br>184  | 17.00<br>432  | 7.50<br>191  | 13.50<br>343  | 1.13<br>29 | 14.84<br>377  | 6.50<br>165  |
| 10"<br>250mm  | 24.50<br>622    | 15.00<br>381  | 9.38<br>238  | 16.25<br>413  | 9.00<br>229  | 16.00<br>406  | 1.19<br>30 | 17.63<br>448  | 13.24<br>336 |
| 12"<br>300mm  | 27.50<br>699    | 19.00<br>483  | 11.00<br>279 | 18.25<br>464  | 11.00<br>279 | 19.00<br>483  | 1.25<br>32 | 20.40<br>518  | 13.25<br>336 |
| 14"<br>350mm  | 31.00<br>787    | 22.50<br>572  | 13.50<br>343 | 26.00<br>660  | 14.00<br>356 | 21.00<br>533  | 1.38<br>35 | 25.22<br>641  | 18.75<br>476 |
| 16"<br>400mm  | 36.00<br>914    | 24.50<br>622  | 14.25<br>362 | 29.50<br>749  | 15.00<br>381 | 23.50<br>597  | 1.44<br>37 | 32.00<br>813  | 15.50<br>394 |
| 18"<br>450mm  | 40.00<br>1016   | 26.50<br>673  | 17.38<br>441 | 31.00<br>787  | 18.63<br>473 | 25.00<br>635  | 1.56<br>40 | 36.00<br>914  | 19.45<br>494 |
| 20"<br>500mm  | 40.00<br>1016   | 28.75<br>730  | 17.63<br>448 | 32.38<br>822  | 18.63<br>473 | 27.50<br>699  | 1.69<br>43 | 41.00<br>1041 | 14.50<br>368 |
| 24"<br>600mm  | 48.00<br>1219   | 32.50<br>826  | 20.13<br>511 | 34.00<br>864  | 21.00<br>533 | 32.00<br>813  | 1.88<br>48 | 38.00<br>965  | 20.83<br>529 |
| 30"<br>750mm  | 56.00<br>1422   | 44.13<br>1121 | 29.75<br>756 | 39.00<br>991  | 24.00<br>610 | 38.75<br>984  | 2.13<br>54 | 53.13<br>1349 | 17.71<br>450 |
| 36"<br>900mm  | 63.00<br>1600   | 50.50<br>1283 | 33.50<br>851 | 42.00<br>1067 | 27.00<br>686 | 46.00<br>1168 | 2.38<br>60 | 57.50<br>1461 | 13.45<br>342 |
| 42"<br>1100mm | Contact DeZURIK |               |              |               |              |               |            |               |              |

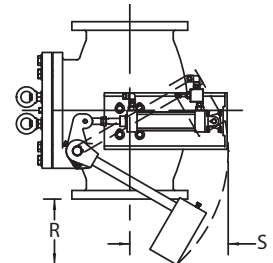
Inches  
Millimeters



# Dimensions

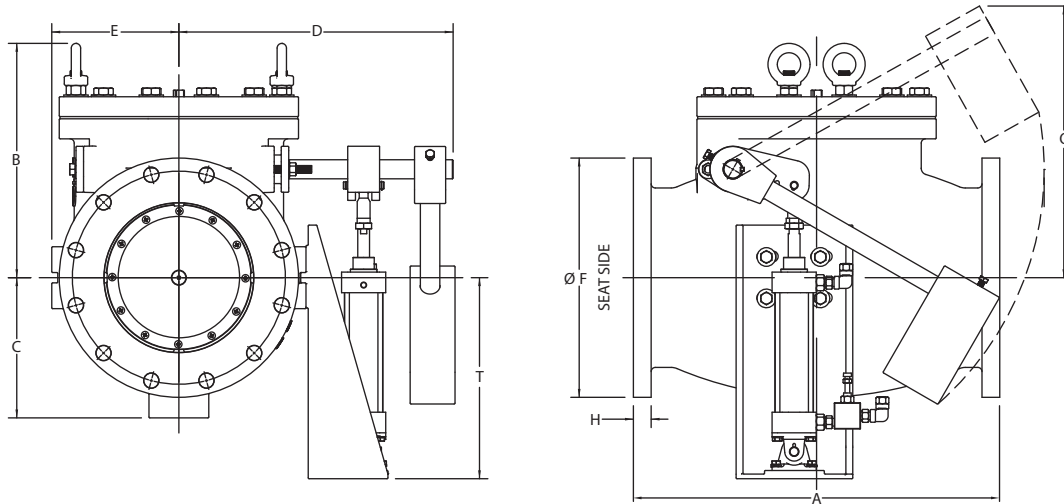
## Air Cushion Side Mounted Cylinder (Lever and Weight)

| Valve Size    | A               | B             | C            | D             | E            | F             | H          | Q             | R            | S            | T            |
|---------------|-----------------|---------------|--------------|---------------|--------------|---------------|------------|---------------|--------------|--------------|--------------|
| 2"<br>50mm    | 8.00<br>203     | 9.25<br>235   | 3.50<br>89   | 10.92<br>277  | 3.83<br>97   | 6.00<br>152   | 0.63<br>16 | 10.00<br>254  | 6.00<br>152  | 9.38<br>238  | 11.25<br>286 |
| 2.5"<br>65mm  | 8.50<br>216     | 9.72<br>247   | 3.50<br>89   | 10.92<br>277  | 3.83<br>97   | 7.00<br>178   | 0.88<br>22 | 9.88<br>251   | 6.13<br>156  | 9.38<br>238  | 11.13<br>283 |
| 3"<br>80mm    | 9.50<br>241     | 10.00<br>254  | 4.50<br>114  | 11.00<br>279  | 4.00<br>102  | 7.50<br>191   | 0.75<br>19 | 10.13<br>257  | 5.50<br>140  | 9.25<br>235  | 12.00<br>305 |
| 4"<br>100mm   | 11.50<br>292    | 10.75<br>273  | 5.00<br>127  | 11.75<br>299  | 5.00<br>127  | 9.00<br>229   | 0.94<br>24 | 10.75<br>273  | 4.88<br>124  | 8.75<br>222  | 10.88<br>276 |
| 6"<br>150mm   | 14.00<br>356    | 11.75<br>299  | 5.75<br>146  | 13.50<br>343  | 6.50<br>165  | 11.00<br>279  | 1.00<br>25 | 11.63<br>295  | 4.63<br>118  | 7.88<br>200  | 10.88<br>276 |
| 8"<br>200mm   | 19.50<br>495    | 13.75<br>349  | 7.25<br>184  | 17.00<br>432  | 7.50<br>191  | 13.50<br>343  | 1.13<br>29 | 15.50<br>394  | 5.88<br>149  | 10.38<br>264 | 13.50<br>343 |
| 10"<br>250mm  | 24.50<br>622    | 15.00<br>381  | 9.38<br>238  | 16.25<br>413  | 9.00<br>229  | 16.00<br>406  | 1.19<br>30 | 18.38<br>467  | 9.00<br>229  | 13.63<br>346 | 13.50<br>343 |
| 12"<br>300mm  | 27.50<br>699    | 19.00<br>483  | 11.00<br>279 | 18.25<br>464  | 11.00<br>279 | 19.00<br>483  | 1.25<br>32 | 21.13<br>537  | 9.00<br>229  | 14.25<br>362 | 13.50<br>343 |
| 14"<br>350mm  | 31.00<br>787    | 22.50<br>572  | 13.50<br>343 | 26.00<br>660  | 14.00<br>356 | 21.00<br>533  | 1.38<br>35 | 25.88<br>657  | 11.75<br>299 | 18.75<br>476 | 13.50<br>343 |
| 16"<br>400mm  | 36.00<br>914    | 24.50<br>622  | 14.25<br>362 | 29.50<br>749  | 15.00<br>381 | 23.50<br>597  | 1.44<br>37 | 32.00<br>813  | 7.25<br>184  | 15.88<br>403 | 14.50<br>368 |
| 18"<br>450mm  | 40.00<br>1016   | 26.50<br>673  | 17.38<br>441 | 31.00<br>787  | 18.63<br>473 | 25.00<br>635  | 1.56<br>40 | 36.00<br>914  | 9.25<br>235  | 21.25<br>540 | 13.00<br>330 |
| 20"<br>500mm  | 40.00<br>1016   | 28.75<br>730  | 17.63<br>448 | 32.38<br>822  | 18.63<br>473 | 27.50<br>699  | 1.69<br>43 | 41.00<br>1041 | —            | —            | 14.50<br>368 |
| 24"<br>600mm  | 48.00<br>1219   | 32.50<br>826  | 20.13<br>511 | 34.00<br>864  | 21.00<br>533 | 32.00<br>813  | 1.88<br>48 | 38.00<br>965  | 8.75<br>222  | 19.25<br>489 | 11.75<br>299 |
| 30"<br>750mm  | 56.00<br>1422   | 44.13<br>1121 | 29.75<br>756 | 39.00<br>991  | 24.00<br>610 | 38.75<br>984  | 2.13<br>54 | 53.13<br>1349 | 15.50<br>394 | 24.00<br>610 | 17.25<br>438 |
| 36"<br>900mm  | 63.00<br>1600   | 50.50<br>1283 | 33.50<br>851 | 42.00<br>1067 | 27.00<br>686 | 46.00<br>1168 | 2.38<br>60 | 57.50<br>1461 | 15.00<br>381 | 21.00<br>533 | 13.00<br>330 |
| 42"<br>1100mm | Contact DeZURIK |               |              |               |              |               |            |               |              |              |              |



VP, VERTICAL FLOW UP  
POSITION INSTALLATION  
LEVER ARM SWING

Inches  
Millimeters



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