

### Butterfly Valve with Lug types

- Disc 304 stainless steel
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- Completely assembled and tested, ready for installation



5-year warranty

### Type overview

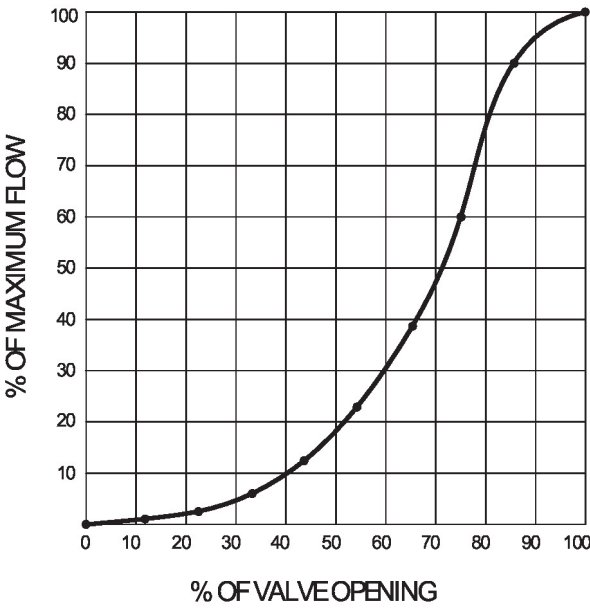
| Type   | DN |
|--------|----|
| F650HD | 50 |

### Technical data

|                    |                          |                                                |
|--------------------|--------------------------|------------------------------------------------|
| Functional data    | Valve size [mm]          | 2" [50]                                        |
|                    | Fluid                    | chilled or hot water, up to 60% glycol         |
|                    | Fluid Temp Range (water) | -22...250°F [-30...120°C]                      |
|                    | Body Pressure Rating     | ANSI Class Consistent with 125, 232 psi CWP    |
|                    | Close-off pressure Δps   | 200 psi                                        |
|                    | Flow characteristic      | modified equal percentage                      |
|                    | Leakage rate             | 0% leakage, leakage rateA                      |
|                    | Pipe connection          | Flange<br>for use with ASME/ANSI class 125/150 |
|                    | Servicing                | maintenance-free                               |
|                    | Flow Pattern             | 2-way                                          |
|                    | Controllable flow range  | 90° rotation                                   |
|                    | Cv                       | 115                                            |
|                    | Maximum Velocity         | 12 FPS                                         |
|                    | Lug threads              | 5/8-11 UNC                                     |
| Materials          | Valve body               | Ductile cast iron ASTM A536                    |
|                    | Body finish              | epoxy powder coating (blue RAL 5002)           |
|                    | Stem                     | 416 stainless steel                            |
|                    | Stem seal                | EPDM (lubricated)                              |
|                    | Seat                     | EPDM                                           |
|                    | Bearing                  | RPTFE                                          |
|                    | Disc                     | 304 stainless steel                            |
| Suitable actuators | Non Fail-Safe            | ARB(X)<br>GRB(X)                               |
|                    | Spring                   | AFRB(X)                                        |

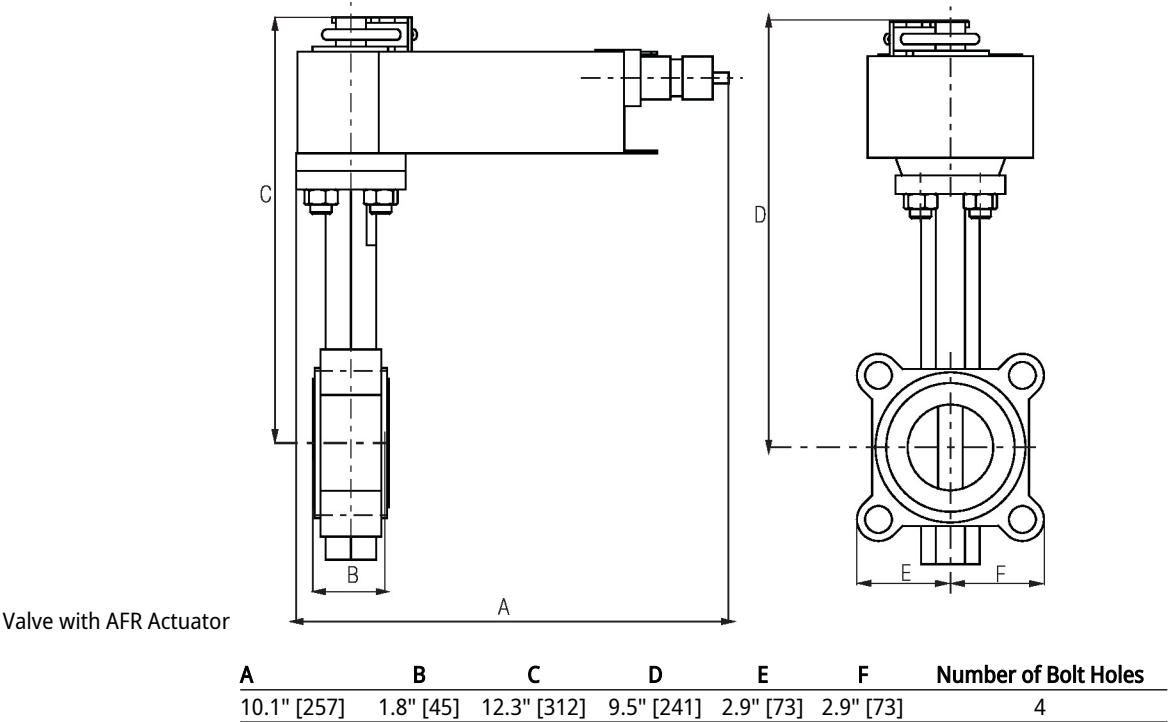
Product features

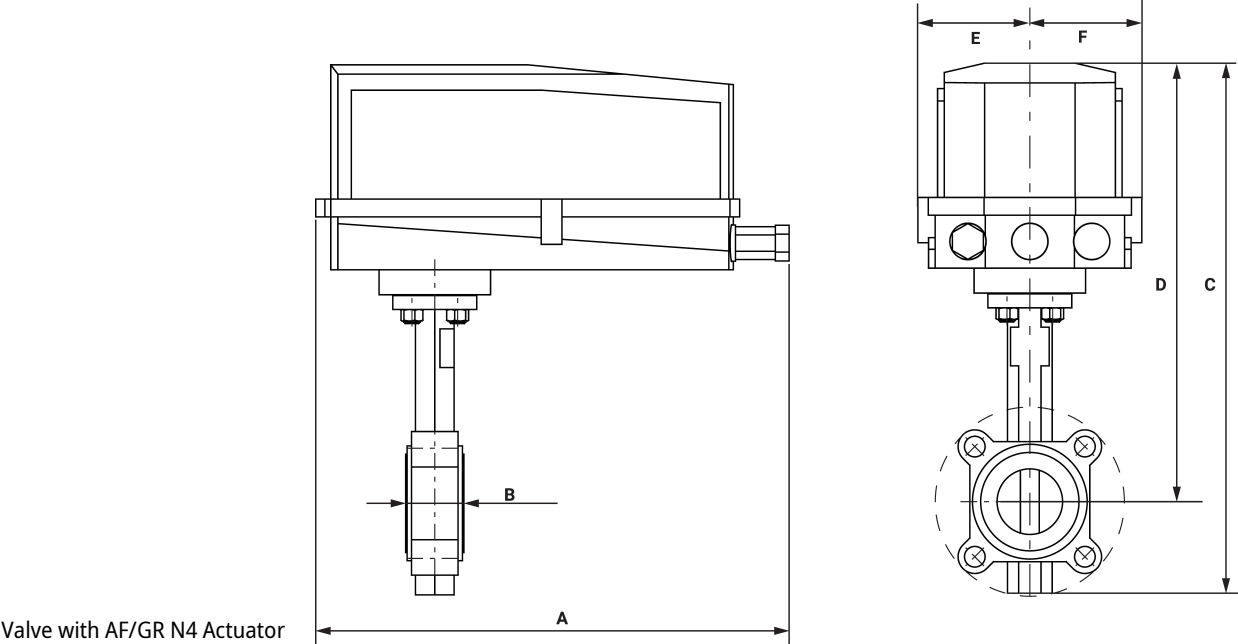
Flow/Mounting details



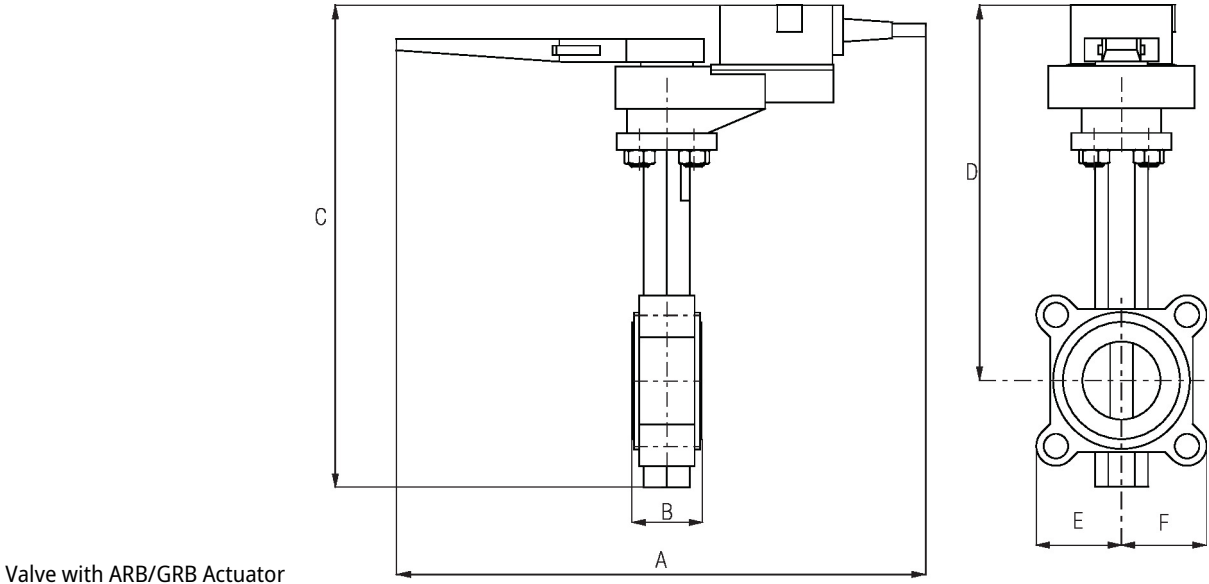
Dimensions

| Type   | DN | Weight         |
|--------|----|----------------|
| F650HD | 50 | 12 lb [5.3 kg] |

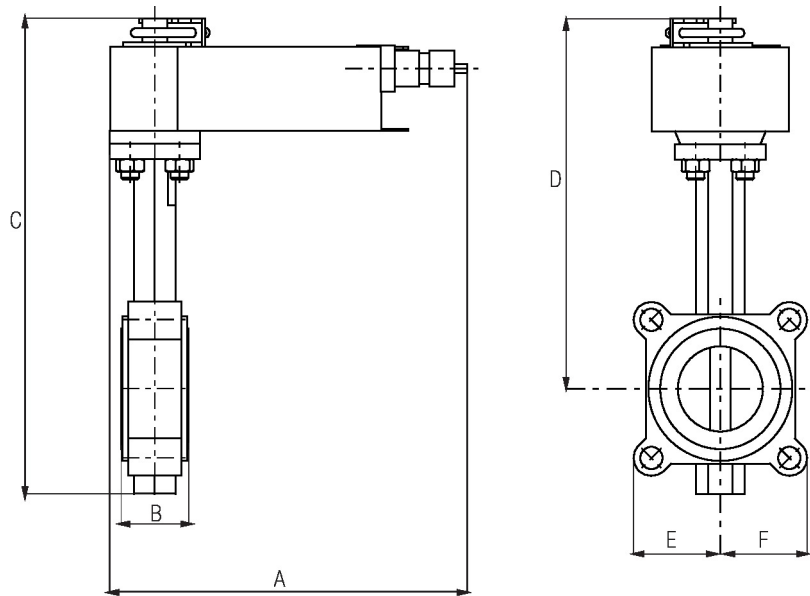




| A           | B         | C           | D           | E         | F         | Number of Bolt Holes |
|-------------|-----------|-------------|-------------|-----------|-----------|----------------------|
| 14.5" [368] | 1.8" [45] | 16.1" [409] | 13.3" [338] | 3.4" [86] | 3.4" [86] | 4                    |

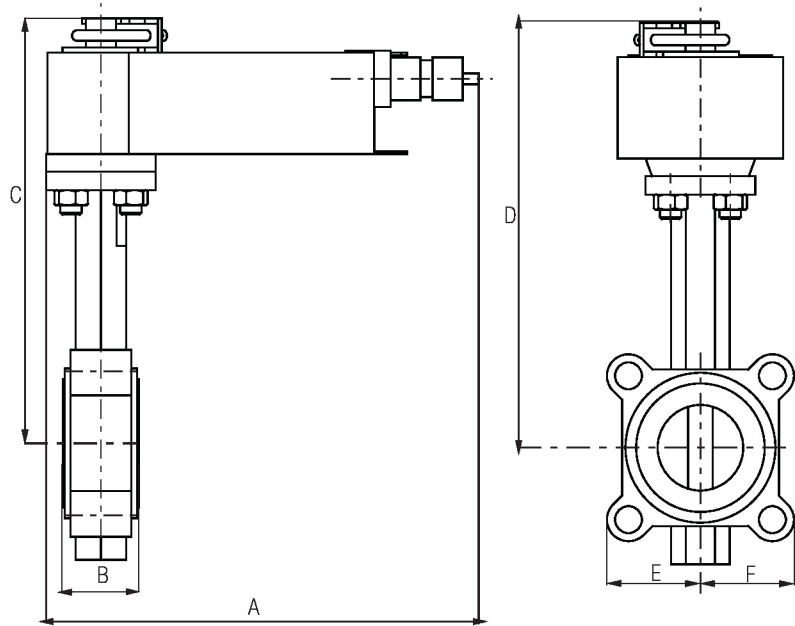


| A           | B         | C           | D          | E         | F         | Number of Bolt Holes |
|-------------|-----------|-------------|------------|-----------|-----------|----------------------|
| 14.6" [370] | 1.8" [45] | 12.4" [314] | 9.7" [246] | 2.9" [73] | 2.9" [73] | 4                    |



Valve with AFB/AFX Actuator

| A           | B         | C           | D           | E         | F         | Number of Bolt Holes |
|-------------|-----------|-------------|-------------|-----------|-----------|----------------------|
| 10.1" [257] | 1.8" [45] | 15.1" [384] | 12.4" [315] | 2.9" [73] | 2.9" [73] | 4                    |

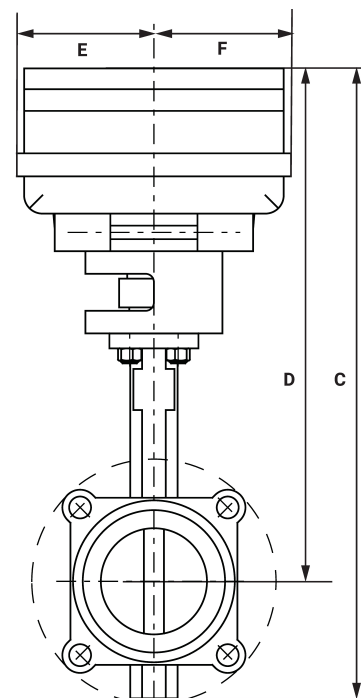
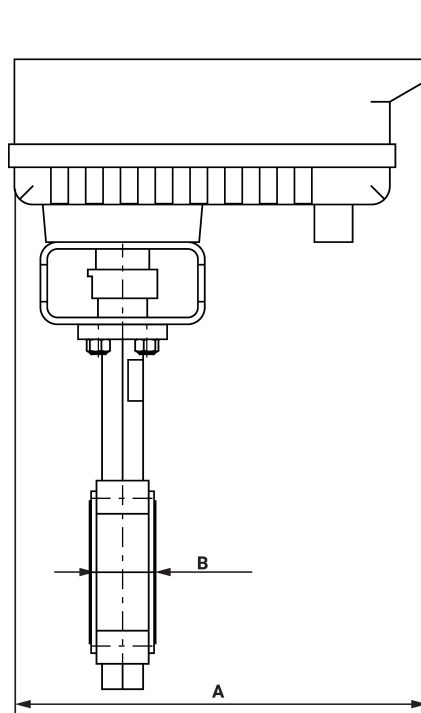


Valve with AMB/AMX Actuator

| A          | B         | C           | D           | E         | F         | Number of Bolt Holes |
|------------|-----------|-------------|-------------|-----------|-----------|----------------------|
| 8.3" [211] | 1.8" [45] | 15.1" [384] | 12.4" [315] | 2.9" [73] | 2.9" [73] | 4                    |

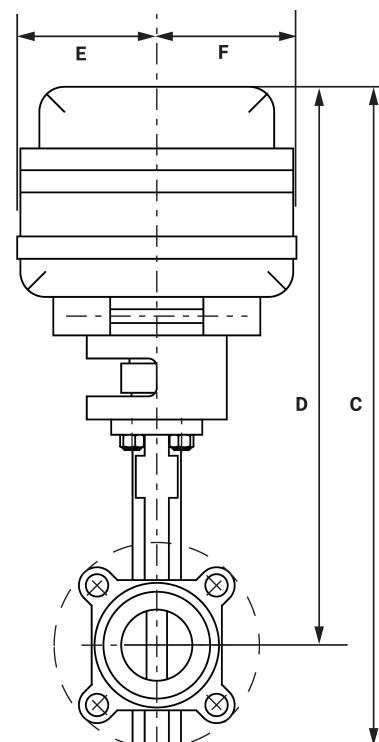
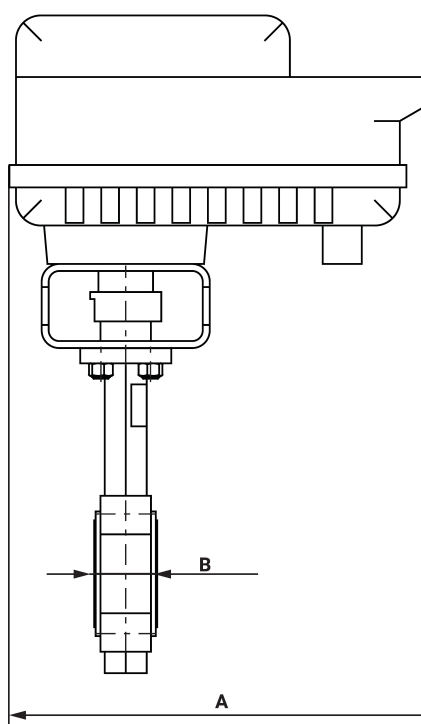
## Dimensions

Valve with PR Actuator



| A           | B         | C           | D           | E          | F          | Number of Bolt Holes |
|-------------|-----------|-------------|-------------|------------|------------|----------------------|
| 12.0" [304] | 1.8" [45] | 16.7" [425] | 13.9" [354] | 3.9" [100] | 3.9" [100] | 4                    |

Valve with PK Actuator



| A           | B         | C           | D           | E          | F          | Number of Bolt Holes |
|-------------|-----------|-------------|-------------|------------|------------|----------------------|
| 12.0" [304] | 1.8" [45] | 18.5" [470] | 15.7" [399] | 3.9" [100] | 3.9" [100] | 4                    |
| A           | B         | C           | D           | E          | F          | Number of Bolt Holes |
| 10.8" [275] | 1.8" [45] | 13.0" [330] | 10.2" [260] | 2.9" [73]  | 2.9" [73]  | 4                    |