



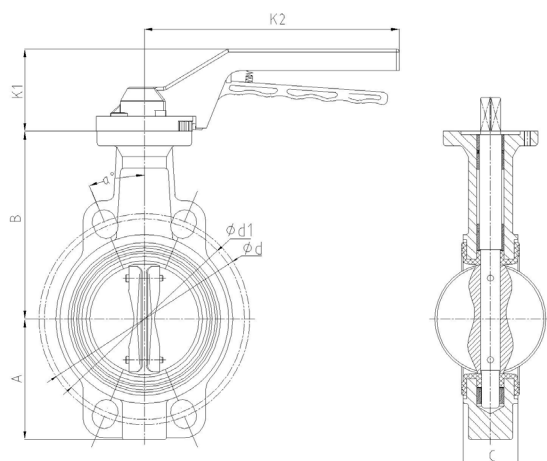
SPECIFICATIONS

| | |
|----------------------|---|
| DN mm | DN50 - DN300 |
| DN inch | 2" - 12" |
| Liner | EPDM, NBR |
| Temperature | EPDM -10°C to 100°C, NBR -10°C to 80°C |
| Type of body | Lug, Wafer |
| Application | EPDM : Hot water, Cold water, HVAC, Irrigation NBR : Hydrocarbons, Waste water, Sea water, Fuel, Natural gas, Oil, Grease, Compressed air, Glyco |
| Flange | PN25 |
| Valve standard | EN 593 |
| Face to face | EN 558-1 series 20, ISO 5752 series 20, API 609 table 2 |
| Shell tightness test | According to EN 12266-1 resistance and tightness of the body : test P11 (1,5 x allowable operating pressure) |
| Seat tightness test | According to EN 12266-1 seat tightness : test P12 rate A (1,1 x allowable operating pressure) |
| Top flange | EN ISO 5211 |
| Options | Other specifications on request |

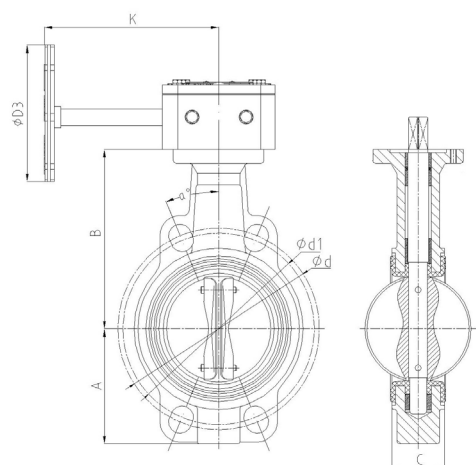
ADVANTAGES

1. Omeax Z400 butterfly guarantee perfect tightness thanks to precise machining of disc and shaft.
2. 1 piece shaft and spline driven disc design assure accurate torque transmission.
3. The spherical disc machining allows the disc to have equal penetration into the liner.
4. Environmental friendly design thanks to tongue and groove design (dove tail) replacable vulcanised liner.
5. Extended neck for insulation - no fabricated extensions required.

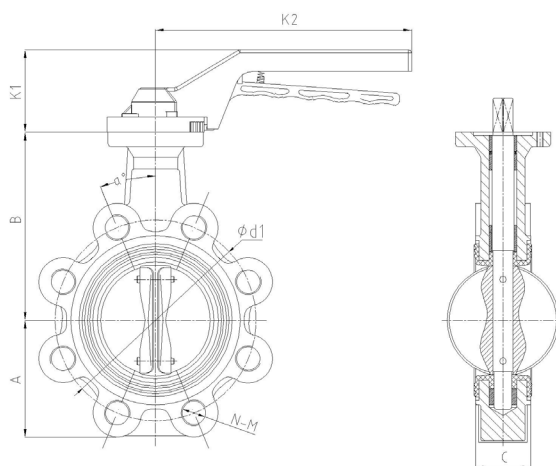
DIMENSIONS



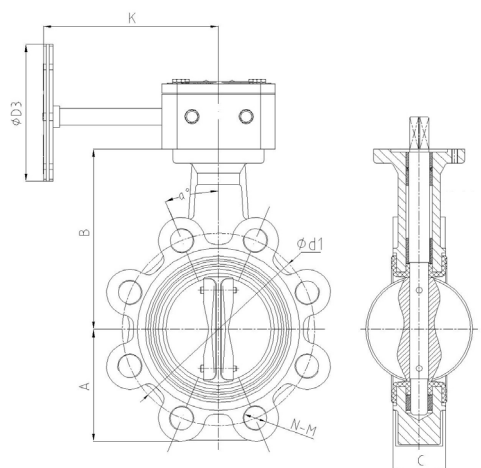
| DN mm | DN inch | PFA | A | B | C | Ød1 | Ød | α° | K1 | K2 |
|-------|---------|-----|-----|-----|----|-----|-----|-------|----|-----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 135 | 45° | 72 | 190 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 155 | 22.5° | 72 | 190 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 170 | 22.5° | 72 | 190 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 200 | 22.5° | 76 | 239 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 230 | 22.5° | 76 | 283 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 260 | 22.5° | 76 | 283 |



| DN mm | DN inch | PFA | A | B | C | Ød1 | Ød | α° | K | ØD3 |
|-------|---------|-----|-----|-----|----|-----|-----|--------|-----|-----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 135 | 45° | 105 | 100 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 155 | 22.5° | 105 | 100 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 170 | 22.5° | 105 | 100 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 200 | 22.5° | 125 | 150 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 230 | 22.5° | 125 | 150 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 260 | 22.5° | 125 | 150 |
| 200 | 8" | 25 | 240 | 170 | 60 | 310 | 320 | 15° | 205 | 270 |
| 250 | 10" | 25 | 285 | 208 | 68 | 370 | 380 | 15° | 205 | 270 |
| 300 | 12" | 25 | 315 | 240 | 78 | 430 | 440 | 11.25° | 205 | 270 |

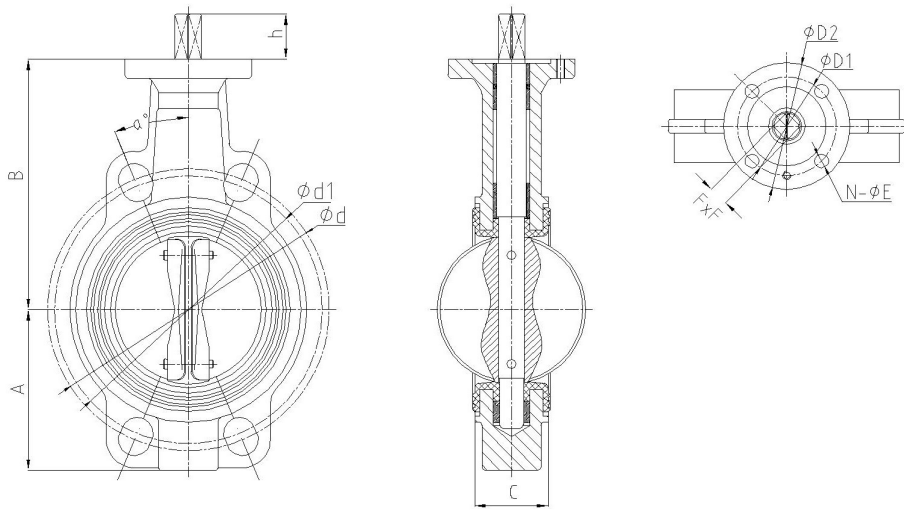


| DN mm | DN inch | PFA | A | B | C | Ød1 | N-M | α° | K1 | K2 |
|-------|---------|-----|-----|-----|----|-----|---------|-------|----|-----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 4 - M16 | 45° | 72 | 190 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 8 - M16 | 22.5° | 72 | 190 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 8 - M16 | 22.5° | 72 | 190 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 8 - M20 | 22.5° | 76 | 239 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 8 - M24 | 22.5° | 76 | 283 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 8 - M24 | 22.5° | 76 | 283 |

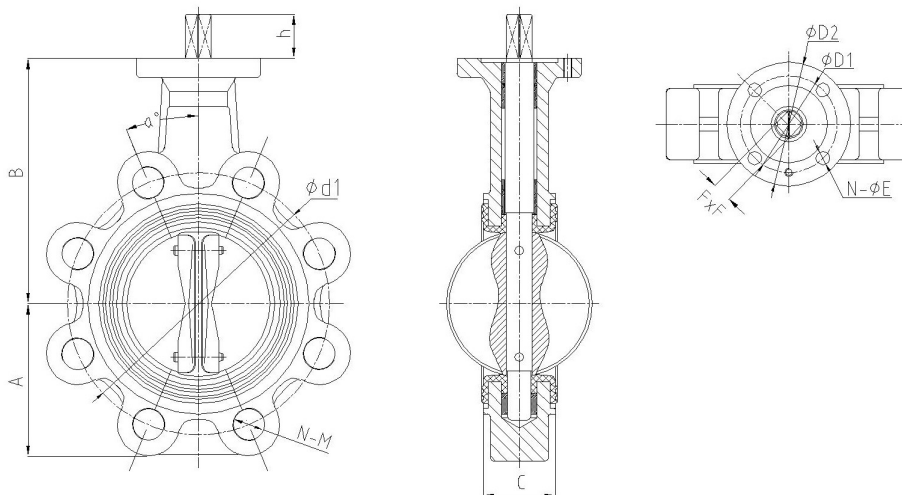


| DN mm | DN inch | PFA | A | B | C | Ød1 | N-M | α° | K | ØD3 |
|-------|---------|-----|-----|-----|----|-----|----------|--------|-----|-----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 4 - M16 | 45° | 105 | 100 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 8 - M16 | 22.5° | 105 | 100 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 8 - M16 | 22.5° | 105 | 100 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 8 - M20 | 22.5° | 125 | 150 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 8 - M24 | 22.5° | 125 | 150 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 8 - M24 | 22.5° | 125 | 150 |
| 200 | 8" | 25 | 240 | 170 | 60 | 310 | 12 - M24 | 15° | 205 | 270 |
| 250 | 10" | 25 | 285 | 208 | 68 | 370 | 12 - M27 | 15° | 205 | 270 |
| 300 | 12" | 25 | 315 | 240 | 78 | 430 | 16 - M27 | 11.25° | 205 | 270 |





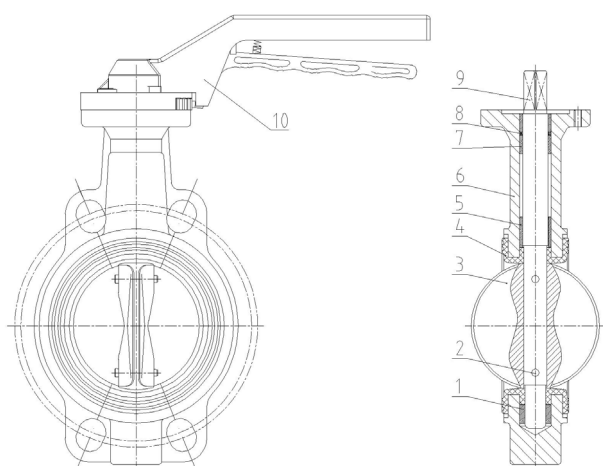
| DN mm | DN inch | PFA | A | B | C | Ød1 | Ød | α° | ØD2 | ØD1 | N - ØE | F x F | h |
|----------|------------|-----|-----|-----|----|-----|-----|--------|-----|-----|---------|---------|----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 135 | 45° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 155 | 22.5° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 170 | 22.5° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 200 | 22.5° | 90 | 70 | 4 - Ø10 | 14 x 14 | 32 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 230 | 22.5° | 90 | 70 | 4 - Ø10 | 17 x 17 | 32 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 260 | 22.5° | 90 | 70 | 4 - Ø10 | 17 x 17 | 32 |
| 200 | 8" | 25 | 240 | 170 | 60 | 310 | 320 | 15° | 125 | 102 | 4 - Ø12 | 22 x 22 | 32 |
| 250 | 10" | 25 | 285 | 208 | 68 | 370 | 380 | 15° | 125 | 102 | 4 - Ø12 | 22 x 22 | 32 |
| 300 | 12" | 25 | 315 | 240 | 78 | 430 | 440 | 11.25° | 150 | 125 | 4 - Ø14 | 27 x 27 | 32 |



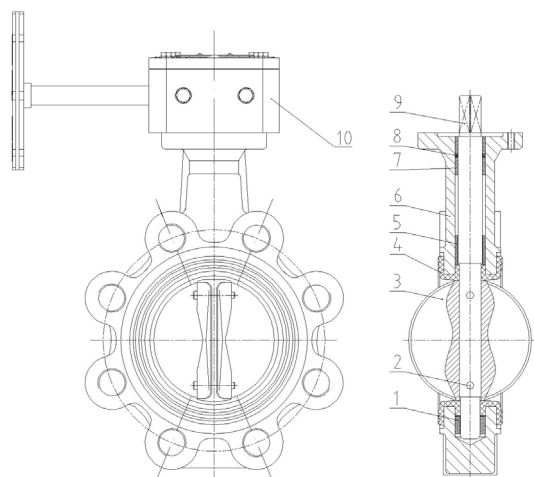
| DN mm | DN inch | PFA | A | B | C | Ød1 | N-M | α° | ØD2 | ØD1 | N - ØE | F x F | h |
|----------|------------|-----|-----|-----|----|-----|----------|--------|-----|-----|---------|---------|----|
| 50 | 2" | 25 | 138 | 65 | 43 | 125 | 4 - M16 | 45° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 65 | 2 1/2" | 25 | 153 | 75 | 46 | 145 | 8 - M16 | 22.5° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 80 | 3" | 25 | 155 | 95 | 46 | 160 | 8 - M16 | 22.5° | 90 | 70 | 4 - Ø10 | 11 x 11 | 32 |
| 100 | 4" | 25 | 178 | 114 | 52 | 190 | 8 - M20 | 22.5° | 90 | 70 | 4 - Ø10 | 14 x 14 | 32 |
| 125 | 5" | 25 | 193 | 126 | 56 | 220 | 8 - M24 | 22.5° | 90 | 70 | 4 - Ø10 | 17 x 17 | 32 |
| 150 | 6" | 25 | 210 | 140 | 56 | 250 | 8 - M24 | 22.5° | 90 | 70 | 4 - Ø10 | 17 x 17 | 32 |
| 200 | 8" | 25 | 240 | 170 | 60 | 310 | 12 - M24 | 15° | 125 | 102 | 4 - Ø12 | 22 x 22 | 32 |
| 250 | 10" | 25 | 285 | 208 | 68 | 370 | 12 - M27 | 15° | 125 | 102 | 4 - Ø12 | 22 x 22 | 32 |
| 300 | 12" | 25 | 315 | 240 | 78 | 430 | 16 - M27 | 11.25° | 150 | 125 | 4 - Ø14 | 27 x 27 | 32 |



NOMENCLATURE



| Designation | Materials |
|-----------------|---------------------|
| 1.Long bushing | Aluminium-bronze |
| 2.Pin | Stainless steel 431 |
| 3.Disc | Stainless steel 316 |
| 4.Seat | EPDM, NBR |
| 5. Long bushing | Aluminium-bronze |
| 6.Body | Ductile iron |
| 7.Short bushing | Aluminium-bronze |
| 8.O-ring | NBR |
| 9.Stem | Stainless steel 431 |
| 10.Handlever | Aluminium |



| Designation | Materials |
|-----------------|---------------------|
| 1.Long bushing | Aluminium-bronze |
| 2.Pin | Stainless steel 431 |
| 3.Disc | Stainless steel 316 |
| 4.Seat | EPDM, NBR |
| 5. Long bushing | Aluminium-bronze |
| 6.Body | Ductile iron |
| 7.Short bushing | Aluminium-bronze |
| 8.O-ring | NBR |
| 9.Stem | Stainless steel 431 |
| 10.Gearbox | Ductile iron |

TORQUE TABLE

Torque are given in N.m for EPDM and NBR liner with water at 25°C.
Safety factor not include.

| DN mm | DN inch | PFA 25 |
|----------|------------|--------|
| 50 | 2" | 20 |
| 65 | 2"1/2 | 40 |
| 80 | 3" | 53 |
| 100 | 4" | 105 |
| 125 | 5" | 125 |
| 150 | 6" | 210 |
| 200 | 8" | 440 |
| 250 | 10" | 635 |
| 300 | 12" | 760 |



Full Rubber Lining

Full Rubber lined valve interior completely isolating the line media from the body eliminating unnecessary contacts between media and body, body material therefore does not have to be corrosion resistance materials, which usually being expensive, this feature lowers the overall cost.

Dry Shaft Design

Alternative to high corrosion resistance shaft materials, this valve is equipped with the dry shaft provision, in that case the shaft with standard material is protected from the medium by applying rubber lining, and this lining protects the standard shaft material against corrosive environments.



Smaller Operating Torque

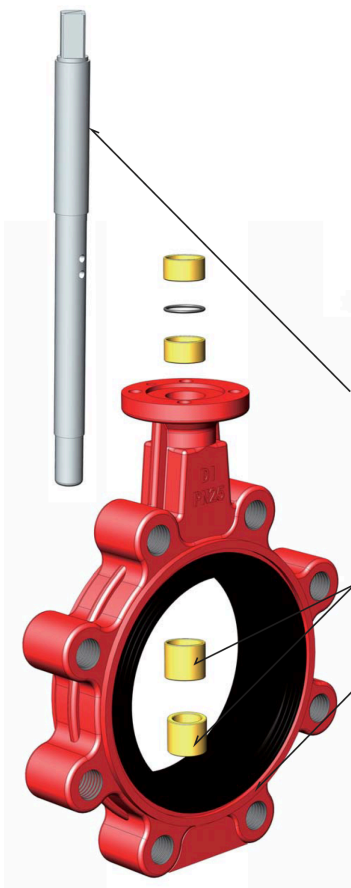
Disc of precise calculation , interference fit of seat and polishing disc sealing surface greatly reduces the operating torque, thus closing torque which makes operation easier as well as saving cost in actuator selection.

Easy Installation & Maintenance

Light weight and volume lowering cost and achieving easy installation

Full Bore Feature

Full bore feature results in extremely higher Cv value and minimized the flow loss.



Blow-out Proof

Reliable blow-out proof provides full retention of the shaft in the unlikely event of internal shaft failure. According to connection difference between shaft and disc there are two kind of blow-out proof designing as below:



Non-pin connection blow-out proof



Pin connection blow-out proof

Shaft

One unique shaft without any groove on it so that minimized hysteresis and produces maximum strength engagements.

Single shaft pin-less disc connection and single shaft pin disc connection are both available to be chosen according to customers' preference.

Shaft Bushing

Using bronze alloy bushing to keep self-lubricating nature, absorbs actuator side thrust in the meantime, provides additional support for the shaft.

Body

We offer WAFER and LUG type so that could be mounted in the middle or the end of the pipe. One-piece structure casted by high standard ductile iron material, both wafer and lug type of RBV-S/PN25 series have passed the shell test of 125 Bar(5 times of working pressure).

