# WAFER BUTTERFLY VALVE

The valve is designed to clamp between two flanges in your pipe work. Most wafer butterfly valves fit the majority of flange standards. The rubber or EPDM valve seat creates an exceptionally strong seal between the valve and flange connection.

## FEATURES:

The wafer type butterfly valve maintains a tight seal. The same happens against the pressure differential of the line, it remains sealed with the in the event of reverse flow.

- Assembly between ANSI B16.5 class 150 lbs flanges.
- Multiple service conditions.
- Low maintenance.
- More economical than ball valves.
- They have a protective Epoxy coating.
- They do not require welding.
- The EPDM gasket is interchangeable.

## TECHNICAL DATA:

- Mounting between 150 lbs Series flanges.
- Dimensional standard ASME B16.5.
- Hydrostatic test according to API 598.
- Actuator mounting according to ISO 5211.
- Length between faces according to API 609.
- EPOXY coating.
- Working temp.: EPDM -46 to 135°C
  : NBR -23 to 93°C
  : PTFE -20 to 180°C
- Max. working pressure: 16 BAR (limited by the series of the installed flange).

## OPERATION:

The central disc called “butterfly or clap”, is integral with the valve shaft operated by the valve handle. To open (on), turn 1/4 of a turn allowing the passage of fluid. The valve is not full flow, it has a small restriction by the clapper. To regulate the flow in the handle, there is a rack, which, depending on the position assigned to it, reduces the flow of fluid. To close the valve, turn until the fluid is cut off (off).

## APPLICATION:

Wafer Butterfly valve are used in a variety of industrial and commercial applications as they are able to regulate through any position of the disc and have relatively low cost and ease of installation compared to other types of valves.

Assembly is carried out between 150Lbs series flanges, and is fastened by means of a wafer bolt kit or studs with the corresponding nuts and washers can also be used.

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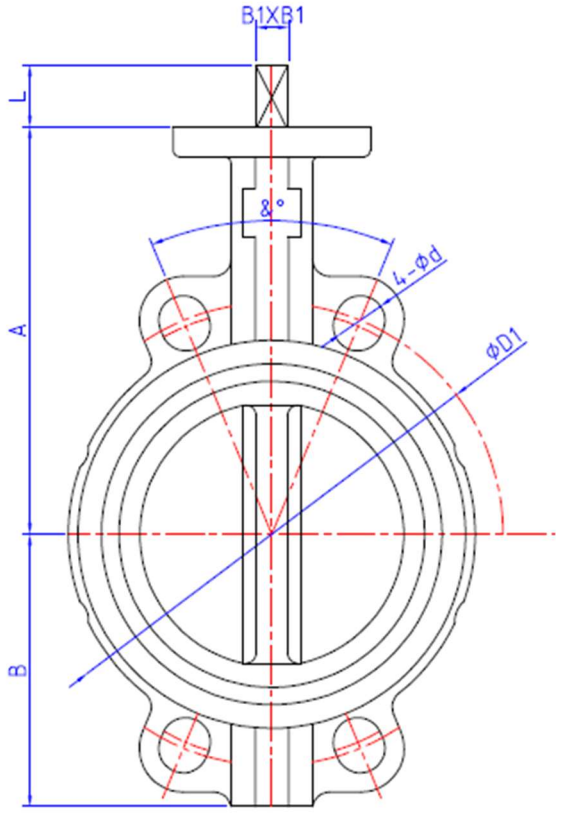
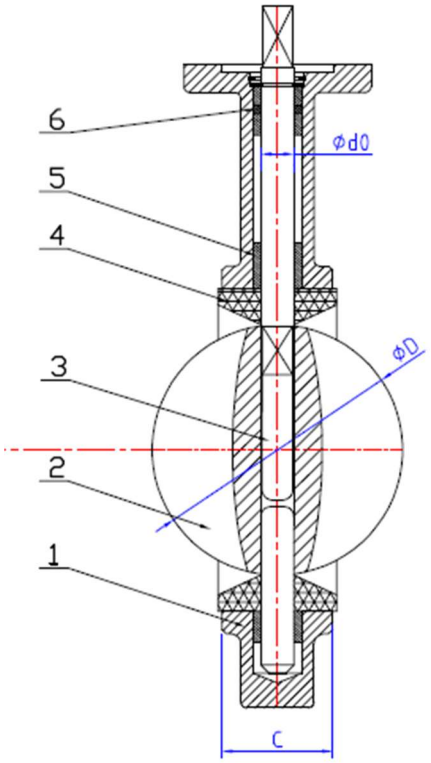
## GENERAL DIMENSIONS:




| Sr. No. | Part Name | Material | Qty. |
|---|---|---|---|
| 1 | Body | ☐ CI<br>☑ WCB | 1 |
| 2 | Disc | ☐ C95400<br>☐ CF8M<br>☑ CF8<br>☐ DI | 1 |
| 3 | Shaft | ☐ SS304<br>☑ SS316 | 1 |
| 4 | Seat | ☐ VITON<br>☑ NBR<br>☐ EPDM | 1 |
| 5 | Bushing | PTFE | 4 |
| 6 | O-Ring | NBR | 1 |
| 7 | Lever | Malleble Iron | 1 |
| 8 | Indicator | Carbon Steel | 1 |
| 9 | Handwheel | CI | 1 |
| 10 | Gear | Cast Iron | 1 |

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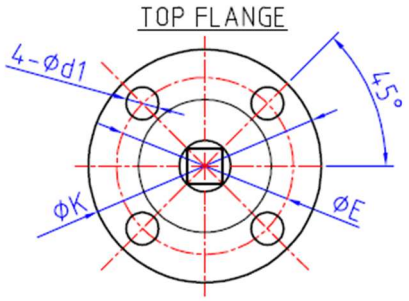
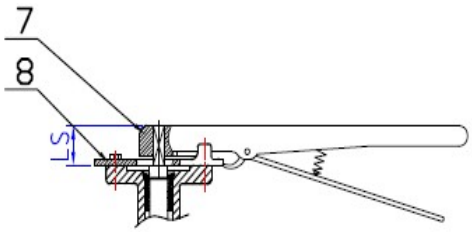
| MAIN DIMENSIONS | | | | | | | | | ☐ PN10 | | | ☐ PN16 | | | ☑ 150 LBS | | | ☐ JIS 10K | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | SIZE | A | B | C | D | d0 | B1 | L | D1 | 4 - Ød | &° | D1 | 4 - Ød | &° | D1 | 4 - Ød | &° | D1 | 4 - Ød | &° |
| 40 | 1.5" | 120 | 70 | 34 | 41.8 | 12.6 | 11 | 26 | 110 | 4 - 19 | 90° | 110 | 4 - 19 | 90° | 98.5 | 4 - 15.9 | 90° | 105 | 4 - 19 | 90° |
| 50 | 2" | 140 | 80 | 42 | 52.9 | 12.6 | 11 | 26 | 125 | 4 - 19 | 90° | 125 | 4 - 19 | 90° | 120.5 | 4 - 19 | 90° | 120 | 4 - 19 | 90° |
| 65 | 2.5" | 150 | 89 | 44.7 | 64.5 | 12.6 | 11 | 26 | 145 | 4 - 19 | 90° | 145 | 4 - 19 | 90° | 139.5 | 4 - 19 | 90° | 140 | 4 - 19 | 90° |
| 80 | 3" | 158 | 95 | 46 | 78.8 | 12.6 | 11 | 26 | 160 | 4 - 19 | 45° | 160 | 4 - 19 | 45° | 152.5 | 4 - 19 | 90° | 150 | 4 - 19 | 45° |
| 100 | 4" | 176 | 114 | 52 | 104 | 15.8 | 11 | 28 | 180 | 4 - 19 | 45° | 180 | 4 - 19 | 45° | 190.5 | 4 - 19 | 45° | 175 | 4 - 19 | 45° |
| 125 | 5" | 190 | 127 | 54.4 | 123 | 18.9 | 14 | 28 | 210 | 4 - 19 | 45° | 210 | 4 - 19 | 45° | 216.0 | 4 - 22.5 | 45° | 210 | 4 - 23 | 45° |
| 150 | 6" | 211 | 139 | 55.8 | 155 | 18.9 | 14 | 28 | 240 | 4 - 23 | 45° | 240 | 4 - 23 | 45° | 241.5 | 4 - 22.5 | 45° | 240 | 4 - 23 | 45° |
| 200 | 8" | 235 | 175 | 60.6 | 203 | 22.1 | 17 | 38 | 295 | 4 - 23 | 45° | 295 | 4 - 23 | 30° | 298.5 | 4 - 22.5 | 45° | 290 | 4 - 23 | 30° |
| 250 | 10" | 265 | 203 | 65.6 | 251 | 28.5 | 22 | 38 | 350 | 4 - 23 | 30° | 355 | 4 - 28 | 30° | 362.0 | 4 - 25.5 | 30° | 355 | 4 - 25 | 30° |
| 300 | 12" | 305 | 242 | 76.9 | 302 | 31.6 | 22 | 40 | 400 | 4 - 23 | 30° | 410 | 4 - 28 | 30° | 432.0 | 4 - 25.5 | 30° | 400 | 4 - 25 | 22.5° |
| 350 | 14" | 368 | 267 | 76.5 | 333 | 31.6 | 22 | 42 | 460 | 4 - 23 | 22.5° | 470 | 4 - 28 | 22.5° | 476.5 | 4 - 28.5 | 30° | 445 | 4 - 25 | 22.5° |

## DIMENSIONS OF TOP FLANGE:




| Size | ISO 5211 | ØK | ØE | 4 - Ød1 |
|---|---|---|---|---|
| ☐ 1.5" - 3" | F05 | 65 | 50 | 4 - 7 |
| ☐ 1.5" - 3" | F07 | 90 | 70 | 4 - 10 |
| 4" - 6" | F07 | 90 | 70 | 4 - 10 |
| 8" - 14" | F10 | 125 | 102 | 4 - 12 |

## DIMENSIONS OF MALLEBLE IRON LEVER:




| Size | S | LS |
|---|---|---|
| 1.5" - 3" | 220 | 26 |
| 4" - 6" | 260 | 28 |
| 8" - 10" | 355 | 38 |
| 12" | 505 | 40 |

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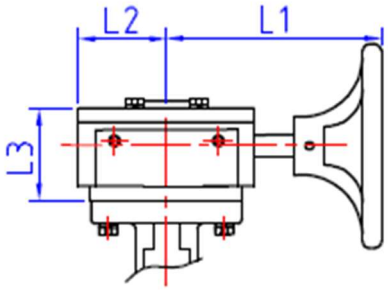
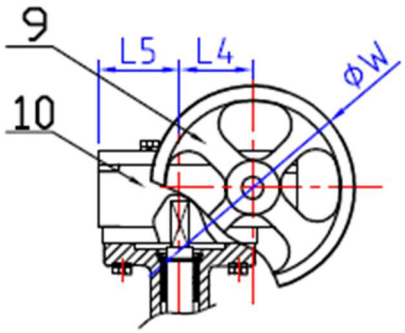
## DIMENSIONS OF GEAR ACTUATOR:




| Size | W | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|
| 1.5" - 6" | 150 | 152 | 52 | 75 | 45 | 52 |
| 8" - 10" | 290 | 250 | 75 | 86 | 63 | 75 |
| 12" - 14" | 290 | 227 | 81 | 83 | 81 | 81 |

## THE HYDROSTATIC TEST:




| | Pressure (Mpa) | | Duration Time (S) | | | |
|---|---|---|---|---|---|---|
| | ☐ PN10 | ☑ PN16 | 1.5" - 2" | 2.5" - 6" | 8" - 12" | 14" |
| Shell | 1.5 | 2.4 | 15 | 60 | 120 | 300 |
| Seal | 1.1 | 1.76 | 15 | 60 | 120 | 120 |

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