

## STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE

Stainless steel double offset butterfly valve wafer for steam, heating, geothermics, industrial cold, shipbuilding and petrochemical.

PTFE filled with 15% graphite packing and seat for a temperature up to +210°C.

Valve with firesafe certificate ISO 10497 to reduce risks in case of fire.

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.

Handle up to DN150, gearbox over.

Thanks to the ISO 5211 plate, an actuator can be installed directly on the valve.



**Certificate**  
**3.1**



**Size :** DN50 to DN600

**Connection :** Between flanges PN25

**Min Temperature :** -50°C

**Max Temperature :** +210°C

**Max Pressure :** 25 Bars

**Specifications :** Full crossing stem

ISO 5211 mounting pad

Wafer type

**Materials :** Stainless steel ASTM A351 CF8M

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**SPECIFICATIONS :**

- 100% tightness
- Wafer type
- Between PN25 flanges
- Double offset
- Bidirectional with preferential flow direction indicated by the arrow
- Fire safe according to ISO 10497 : 2010
- ISO 5211 mounting pad
- Stainless steel CF8M disc
- Full crossing stem
- 10 positions ductile iron handle, with locking device up to DN150
- Gear box from DN 200 to DN600
- Ductile iron EN GJS-400-15 handle with silver painting RAL 9006 color

**USE :**

- Heating, geothermics, industrial cold, shipbuilding, petrochemical
- Steam : 10 bars maximum
- Min and max Temperature Ts : - 50°C to + 210°C
- Max Pressure Ps : 25 bars ( see graph )
- Vacuum : 10<sup>-3</sup> torr
- When using at dead end of pipeline, reverse preferential flow direction

**RANGE :**

- Wafer type with stainless steel body , and handle **Ref. 1114** DN 50 to DN 150
- Wafer type with stainless steel body , and gear box **Ref. 1114** DN 200 to DN 600
- Gear box **Ref. 1193** from DN 50 to DN 350

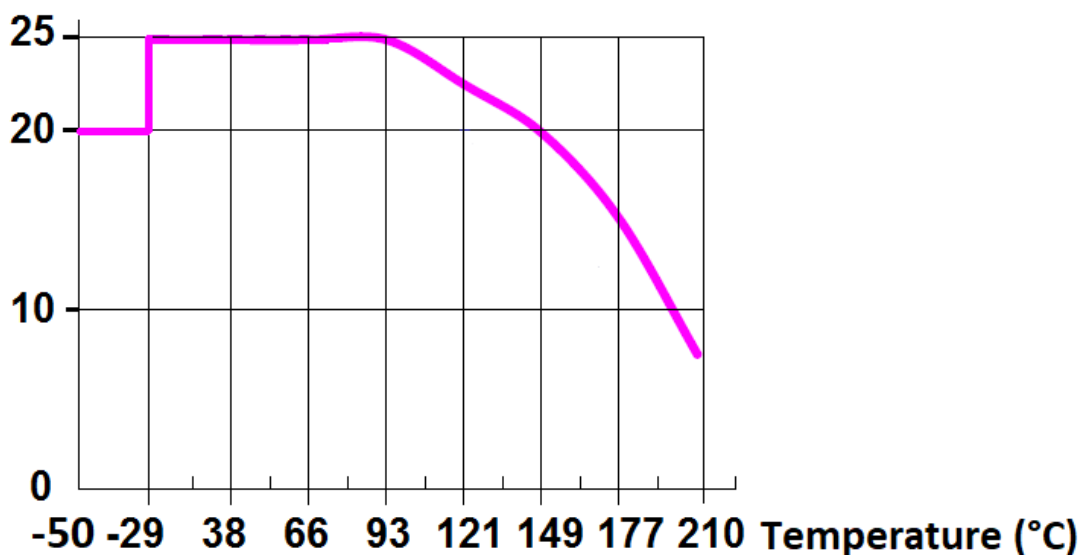
**CONNECTION :**

- Between PN25 flanges

**PRESSURE / TEMPERATURE GRAPH :**

**PRESSURE**

**(Bar)**



**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**TORQUE VALUE ( in Nm with safety coefficient of 30 % included ) :**

| DN                      | 50 | 65 | 80  | 100 | 125 | 150 | 200 | 250 | 300  | 350  | 400  | 450  | 500  | 600  |
|-------------------------|----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Torque ( Nm ) at 0 Bar  | 29 | 37 | 50  | 76  | 118 | 147 | 176 | 255 | 333  | 461  | 657  | 843  | 1078 | 1274 |
| Torque ( Nm ) at 5 Bar  | 32 | 46 | 61  | 88  | 137 | 196 | 235 | 323 | 470  | 725  | 960  | 1058 | 1382 | 1617 |
| Torque ( Nm ) at 10 Bar | 39 | 61 | 76  | 103 | 170 | 225 | 294 | 421 | 549  | 833  | 1264 | 1362 | 1803 | 2225 |
| Torque ( Nm ) at 15 Bar | 43 | 69 | 92  | 118 | 194 | 265 | 353 | 480 | 686  | 990  | 1509 | 1705 | 2166 | 2783 |
| Torque ( Nm ) at 20 Bar | 49 | 83 | 107 | 140 | 223 | 294 | 421 | 568 | 862  | 1196 | 1686 | 2087 | 2920 | 3783 |
| Torque ( Nm ) at 25 Bar | 59 | 97 | 127 | 162 | 242 | 333 | 480 | 647 | 1009 | 1421 | 1882 | 2646 | 3410 | 4704 |

**MAX TORQUE MAST ( in Nm ) :**

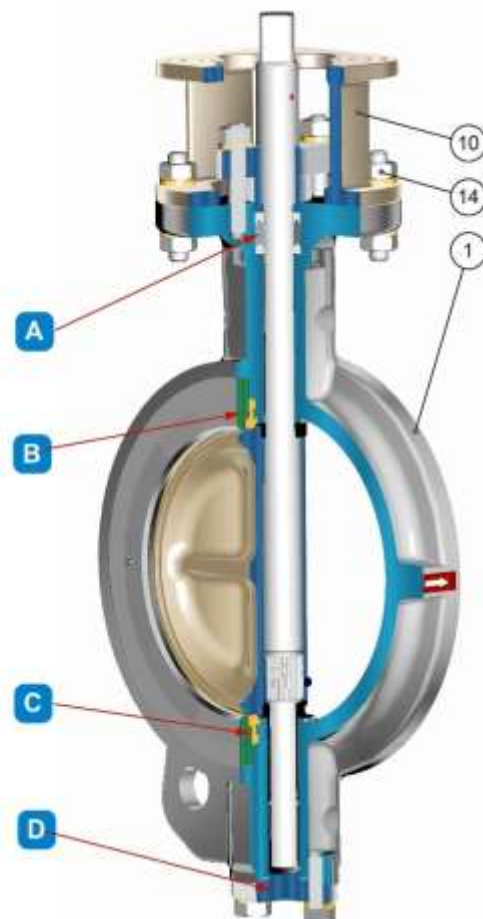
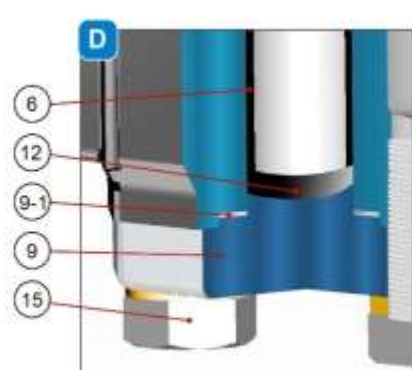
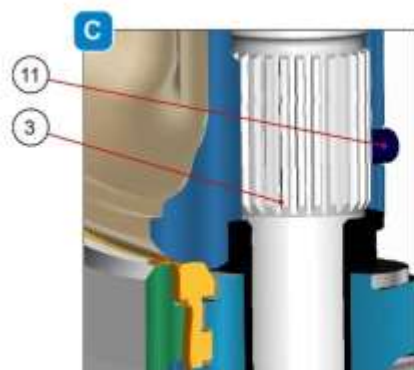
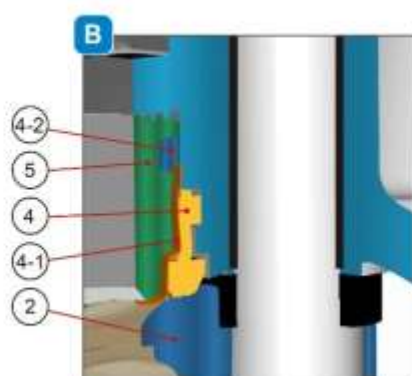
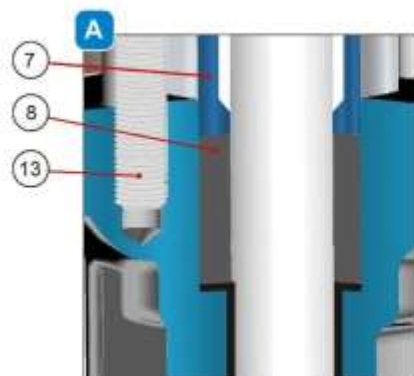
| DN   | 50  | 65 | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350 | 400  | 450 | 500   | 600 |
|------|-----|----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-------|-----|
| MAST | 163 |    | 324 |     | 647 |     | 906 | 1295 | 2589 |     | 5179 |     | 10357 |     |

**FLOW COEFFICIENT Kv ( m<sup>3</sup> / h ) :**

| DN  | Percent of Rated Travel |        |        |        |        |        |        |         |         |         |
|-----|-------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
|     | 10%                     | 20%    | 30%    | 40%    | 50%    | 60%    | 70%    | 80%     | 90%     | 100%    |
| 50  | 3,5                     | 11,2   | 22,5   | 33,7   | 62,3   | 109,0  | 132,3  | 176,4   | 201,5   | 138,4   |
| 65  | 6,1                     | 19,9   | 38,9   | 57,1   | 105,5  | 185,1  | 223,1  | 298,4   | 339,9   | 224,0   |
| 80  | 8,6                     | 29,4   | 58,8   | 87,4   | 160,0  | 280,2  | 338,2  | 452,3   | 515,5   | 344,2   |
| 100 | 9,5                     | 35,5   | 62,3   | 95,1   | 185,1  | 324,3  | 359,8  | 467,9   | 497,3   | 530,2   |
| 125 | 14,7                    | 45,8   | 91,7   | 135,8  | 250,8  | 437,6  | 528,4  | 705,7   | 805,2   | 847,6   |
| 150 | 20,8                    | 66,6   | 131,5  | 195,5  | 360,7  | 629,6  | 761,1  | 1017,1  | 1158,9  | 1189,2  |
| 200 | 36,3                    | 118,5  | 234,4  | 347,7  | 472,2  | 661,6  | 851,0  | 1126,9  | 1254,1  | 1513,5  |
| 250 | 108,1                   | 263,8  | 425,5  | 504,2  | 798,3  | 1089,7 | 1427,1 | 1781,7  | 2110,3  | 2306,6  |
| 300 | 147,0                   | 358,9  | 578,6  | 834,6  | 1124,3 | 1517,9 | 2645,7 | 2987,3  | 3328,9  | 3776,1  |
| 350 | 192,0                   | 437,6  | 688,4  | 1007,6 | 1395,9 | 1938,2 | 2700,2 | 3658,4  | 4635,8  | 5158,1  |
| 400 | 272,4                   | 464,4  | 780,1  | 1145,1 | 1646,7 | 2149,2 | 3202,7 | 4666,0  | 5956,4  | 6713,2  |
| 450 | 339,0                   | 818,2  | 1259,3 | 1764,4 | 2435,5 | 3388,6 | 4684,2 | 6106,9  | 7381,8  | 8090,1  |
| 500 | 443,7                   | 1035,3 | 1586,2 | 2212,4 | 3031,4 | 4275,1 | 6216,8 | 7867,8  | 9523,2  | 10226,3 |
| 600 | 730,8                   | 1609,5 | 2380,1 | 3382,5 | 4757,7 | 6628,4 | 9375,3 | 12475,0 | 15868,0 | 17178,2 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**MATERIALS VALVES :**



( \* : Included in gaskets kit )

| Item | Designation         | Materials                                |
|------|---------------------|------------------------------------------|
| 1    | Body                | ASTM A351 CF8M                           |
| 2    | Disc                | ASTM A351 CF8M                           |
| 3    | Shaft               | ASTM A564 630                            |
| 4*   | Seat                | PTFE filled with 15% graphite            |
| 4-1  | Metal seat          | Inconel 718                              |
| 4-2* | Gasket              | Graphite                                 |
| 5    | Retainer            | ASTM A351 CF8                            |
| 6*   | Bushing             | PTFE + AISI 316                          |
| 7    | Gland               | ASTM A351 CF8                            |
| 8*   | Gland packing       | Graphite                                 |
| 9    | Bottom cover        | ASTM A351 CF8M                           |
| 9-1* | Bottom cover gasket | Graphite                                 |
| 10   | Yoke                | ASTM A351 CF8                            |
| 11*  | Stop stud           | ASTM A193 Gr. B8M                        |
| 12*  | Lock plate          | PTFE filled with 15% graphite + AISI 316 |
| 13   | Stud                | ASTM A193 Gr. B8                         |
| 14   | Nut                 | ASTM A194 Gr. 8                          |
| 15   | Bolt                | ASTM A193 Gr. B8                         |

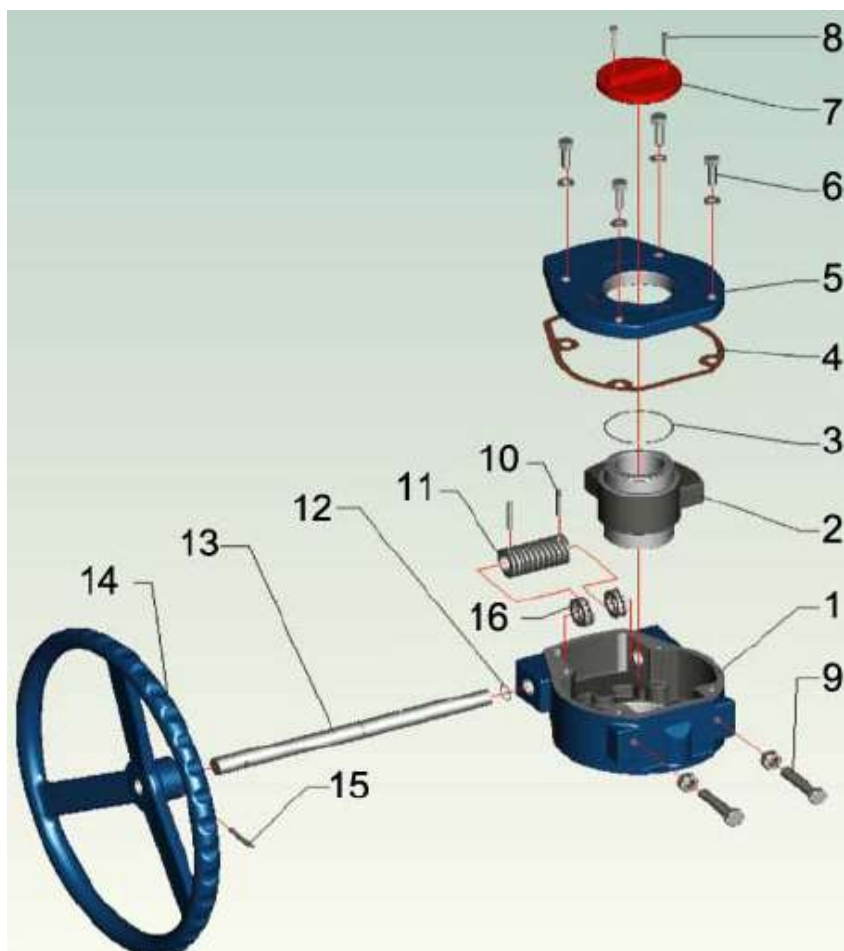
**Repairability :**



| *Gaskets kit<br>(Items 4, 4-2, 6, 8, 9-1, 11 et 12) |         |
|-----------------------------------------------------|---------|
| DN50                                                | 9865290 |
| DN65                                                | 9865291 |
| DN80                                                | 9865292 |
| DN100                                               | 9865293 |
| DN125                                               | 9865294 |
| DN150                                               | 9865295 |
| DN200                                               | 9865296 |
| DN250                                               | 9865297 |
| DN300                                               | 9865298 |
| DN350                                               | 9865299 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

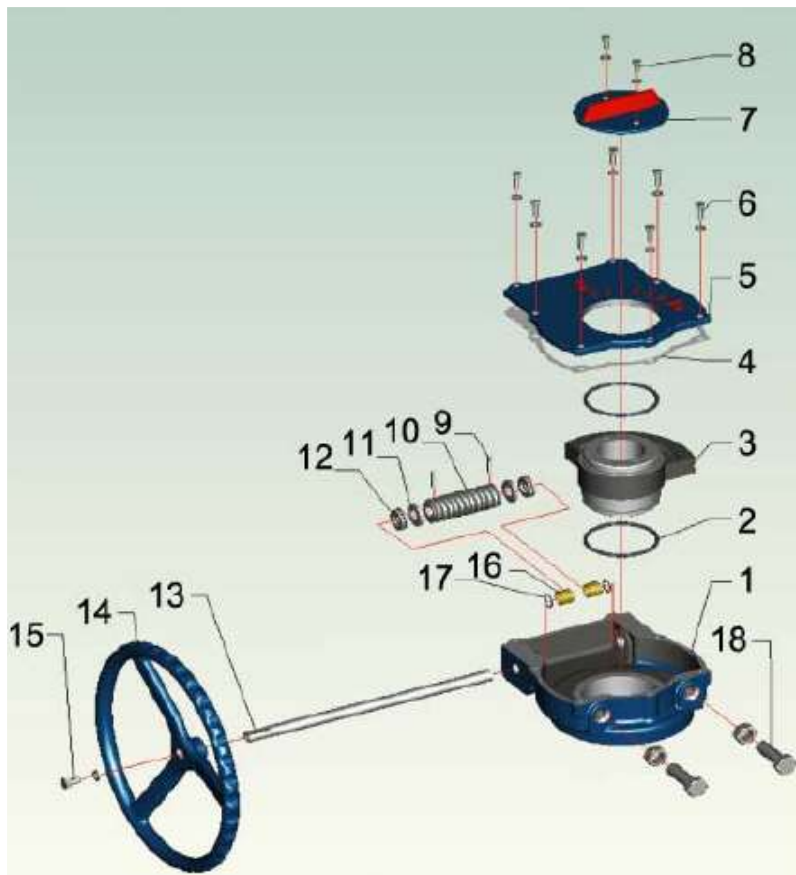
**MATERIALS GEARBOX DN50 - 350 :**



| Item | Designation | Materials    |
|------|-------------|--------------|
| 1    | Body        | Cast iron    |
| 2    | Worm gear   | Ductile iron |
| 3    | O ring      | NBR          |
| 4    | Gasket      | Paper        |
| 5    | Cover       | Cast iron    |
| 6    | Screw       | Steel        |
| 7    | Indicator   | Cast iron    |
| 8    | Screw       | Steel        |
| 9    | Stop bolt   | Steel        |
| 10   | Pin         | Steel        |
| 11   | Worm        | Steel        |
| 12   | O ring      | NBR          |
| 13   | Worm shaft  | Steel        |
| 14   | Handwheel   | Cast iron    |
| 15   | Pin         | Steel        |
| 16   | Bearing     | Steel        |

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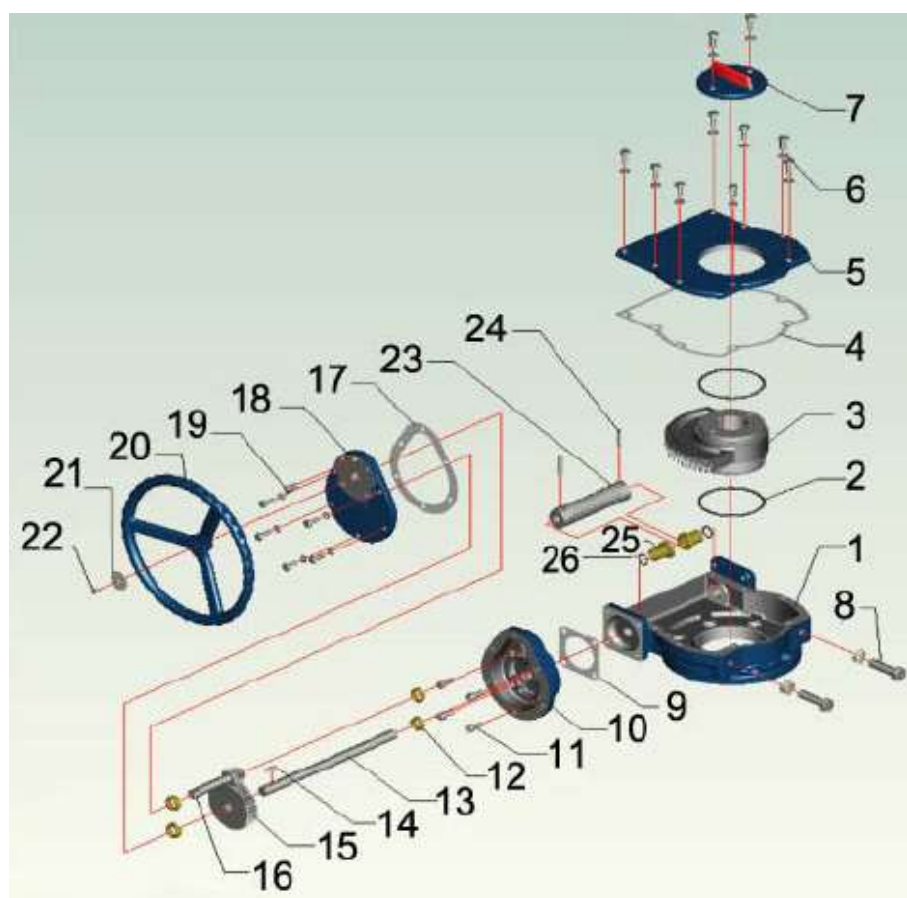
**MATERIALS GEARBOX DN400 - 500 :**



| Item | Designation | Materials    |
|------|-------------|--------------|
| 1    | Body        | Cast iron    |
| 2    | O ring      | NBR          |
| 3    | Worm gear   | Ductile iron |
| 4    | Gasket      | Paper        |
| 5    | Cover       | Cast iron    |
| 6    | Screw       | Steel        |
| 7    | Indicator   | Cast iron    |
| 8    | Screw       | Steel        |
| 9    | Pin         | Steel        |
| 10   | Worm        | Steel        |
| 11   | Ring        | Steel        |
| 12   | Bearing     | Steel        |
| 13   | Worm shaft  | Steel        |
| 14   | Handwheel   | Cast iron    |
| 15   | Screw       | Steel        |
| 16   | Bushing     | Copper       |
| 17   | O ring      | NBR          |
| 18   | Stop bolt   | Steel        |

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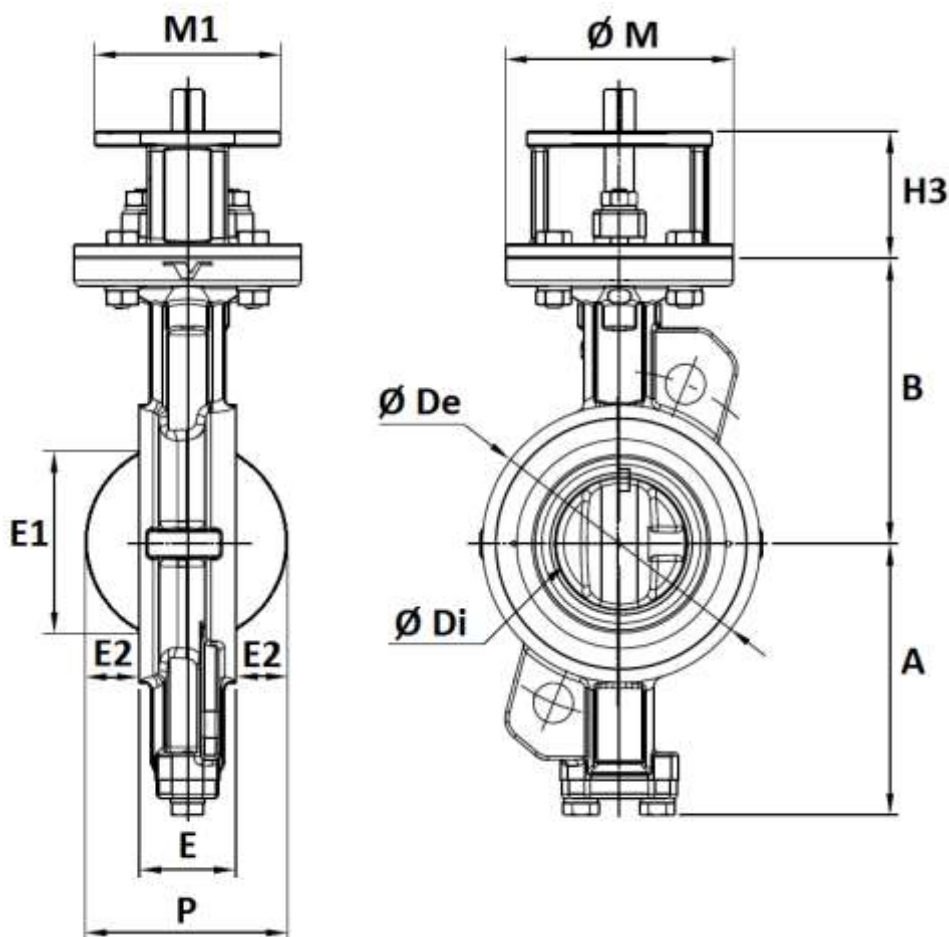
**MATERIALS GEARBOX DN600 :**



| Item | Designation     | Materials    |
|------|-----------------|--------------|
| 1    | Body            | Cast iron    |
| 2    | O ring          | NBR          |
| 3    | Worm gear       | Ductile iron |
| 4    | Gasket          | Paper        |
| 5    | Cover           | Cast iron    |
| 6    | Screw           | Steel        |
| 7    | Indicator       | Cast iron    |
| 8    | Stop bolt       | Steel        |
| 9    | Gasket          | Paper        |
| 10   | Spur gear body  | Cast iron    |
| 11   | Screw           | Steel        |
| 12   | Bearing         | Steel        |
| 13   | Worm shaft      | Steel        |
| 14   | Key             | Steel        |
| 15   | Spur gear       | Steel        |
| 16   | Spur gear shaft | Steel        |
| 17   | Gasket          | Paper        |
| 18   | Cover           | Cast iron    |
| 19   | Screw           | Steel        |
| 20   | Handwheel       | Cast iron    |
| 21   | Washer          | Steel        |
| 22   | Screw           | Steel        |
| 23   | Worm            | Steel        |
| 24   | Pin             | Steel        |
| 25   | Bushing         | Copper       |
| 26   | O ring          | NBR          |

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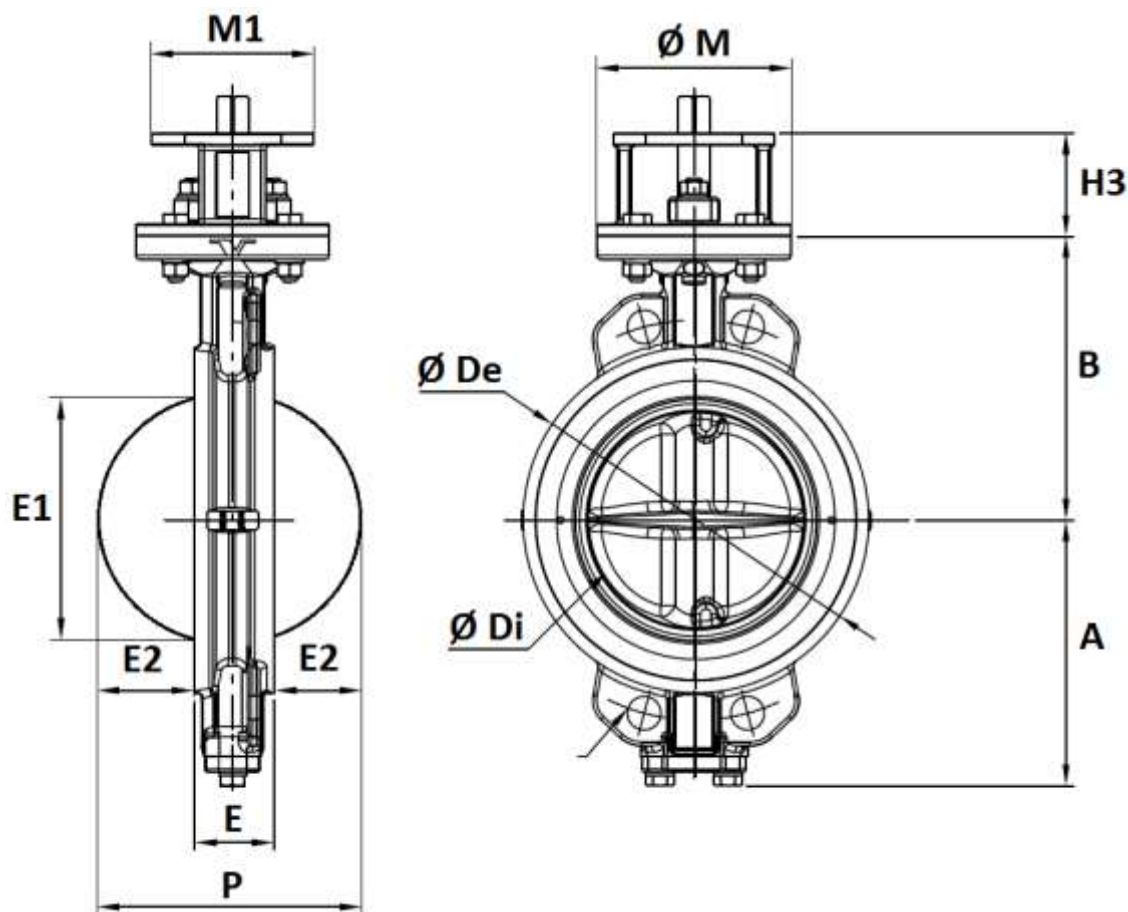
**VALVE SIZE DN50 - 150 ( in mm ) :**



| DN                | 50      | 65      | 80      | 100     | 125     | 150     |
|-------------------|---------|---------|---------|---------|---------|---------|
| E                 | 43      | 46      | 47      | 53      | 57      | 56      |
| A                 | 99      | 110     | 128     | 150     | 163     | 176     |
| B                 | 118     | 125     | 140     | 157     | 170     | 185     |
| H3                | 60      | 60      | 70      | 70      | 70      | 70      |
| Ø M               | 90      | 90      | 125     | 125     | 125     | 125     |
| M1                | 70      | 70      | 102     | 102     | 102     | 102     |
| P                 | 47      | 76      | 91      | 103     | 129     | 156     |
| E1                | 49.5    | 62.3    | 65.9    | 93      | 120     | 149     |
| E2                | 2       | 15      | 22      | 25      | 36      | 50      |
| Ø De              | 92      | 108     | 126     | 153     | 184     | 212     |
| Ø Di              | 37      | 63      | 78      | 95      | 118     | 143     |
| Min pipe diameter | 49      | 62      | 78      | 93      | 120     | 149     |
| Weight (in Kg)    | 3.9     | 4.5     | 7       | 9       | 12      | 13.5    |
| Ref.              | 1114050 | 1114065 | 1114080 | 1114100 | 1114125 | 1114150 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

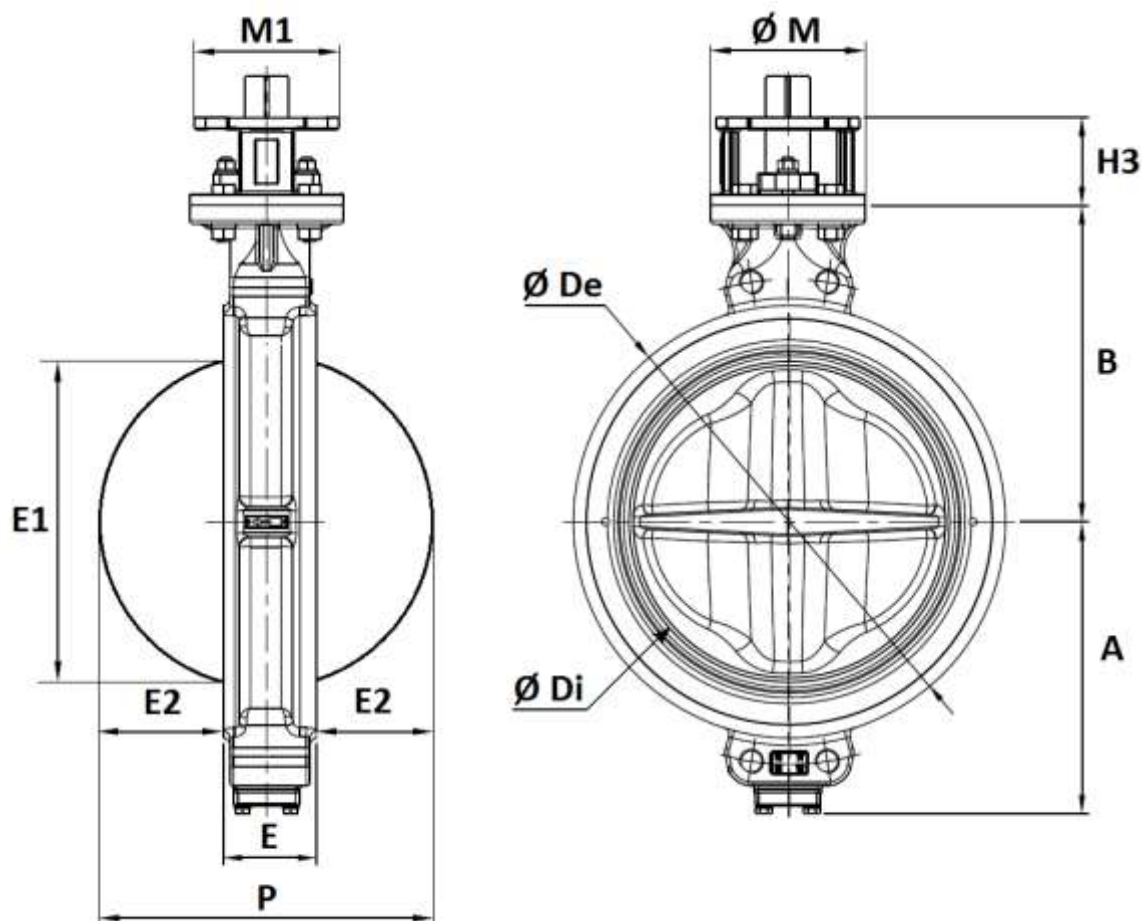
**VALVE SIZE DN200 - 400 ( in mm ) :**



| DN                | 200     | 250     | 300     | 350     | 400     |
|-------------------|---------|---------|---------|---------|---------|
| E                 | 62      | 68      | 78      | 78      | 102     |
| A                 | 206     | 238     | 269     | 306     | 342     |
| B                 | 220     | 260     | 290     | 326     | 370     |
| H3                | 80      | 80      | 100     | 100     | 120     |
| Ø M               | 150     | 150     | 175     | 175     | 210     |
| M1                | 125     | 125     | 160     | 160     | 195     |
| P                 | 202     | 248     | 290     | 328     | 382     |
| E1                | 196     | 243     | 289     | 329     | 377     |
| E2                | 70      | 90      | 106     | 125     | 140     |
| Ø De              | 268     | 326     | 375     | 416     | 476     |
| Ø Di              | 187.6   | 235.5   | 282     | 322     | 371     |
| Min pipe diameter | 196     | 243     | 289     | 329     | 377     |
| Weight (in Kg)    | 22      | 32      | 48      | 66      | 107     |
| Ref.              | 1114200 | 1114250 | 1114300 | 1114350 | 1114400 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**VALVE SIZE DN450 - 600 ( in mm ) :**



| DN                | 450     | 500     | 600     |
|-------------------|---------|---------|---------|
| E                 | 114     | 127     | 154     |
| A                 | 370     | 399     | 455     |
| B                 | 395     | 430     | 490     |
| H3                | 120     | 120     | 150     |
| Ø M               | 210     | 210     | 300     |
| M1                | 195     | 195     | 300     |
| P                 | 428     | 481     | 574     |
| E1                | 423     | 471     | 572     |
| E2                | 157     | 177     | 210     |
| Ø De              | 534     | 588     | 692     |
| Ø Di              | 418     | 466     | 570     |
| Min pipe diameter | 423     | 471     | 572     |
| Weight (in Kg)    | 130     | 163     | 278     |
| Ref.              | 1114450 | 1114500 | 1114600 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

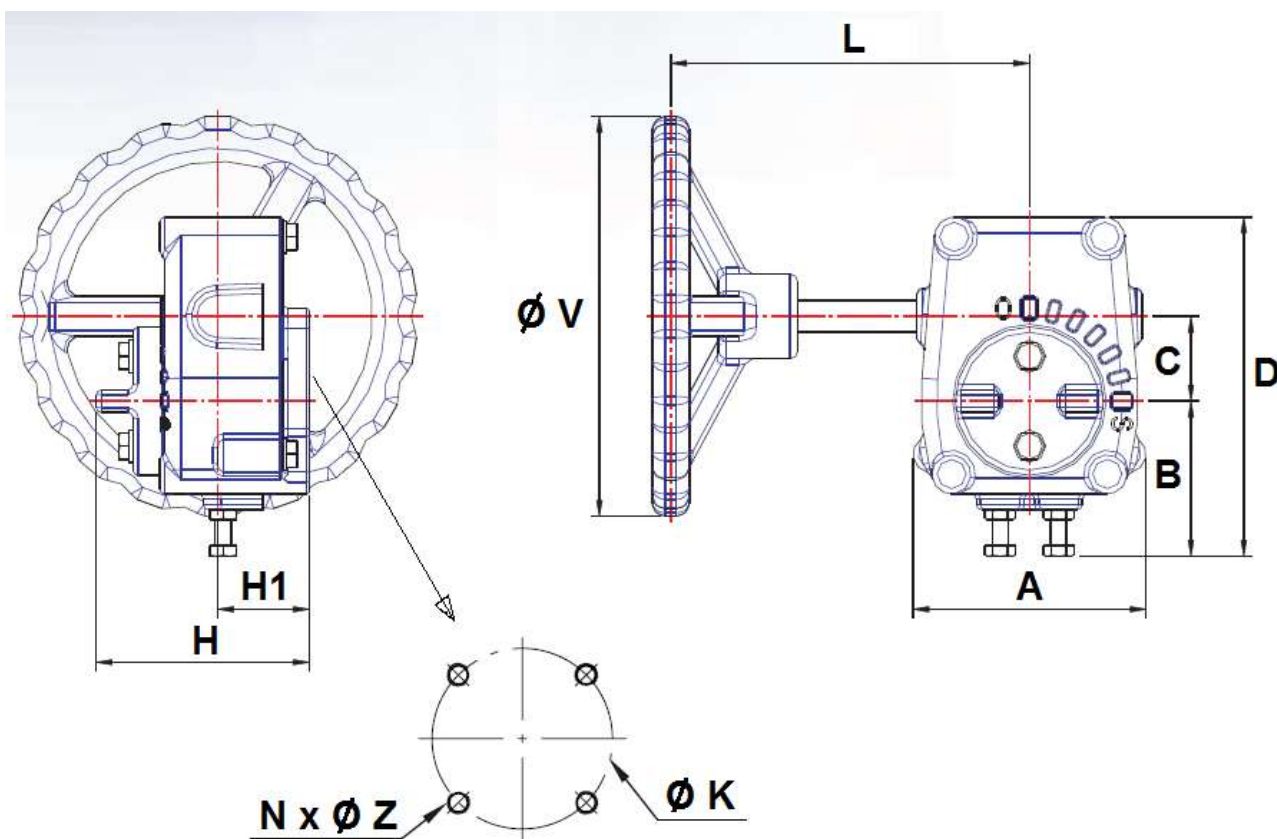
**HANDLE SIZE (in ductile iron EN GJS-400-15 with silver painting RAL 9006 color ) :**



| DN          | 50  | 65  | 80  | 100 | 125 | 150 |
|-------------|-----|-----|-----|-----|-----|-----|
| L           | 200 | 200 | 250 | 250 | 355 | 355 |
| Weight (Kg) | 0.7 | 0.7 | 0.8 | 0.8 | 1.6 | 1.6 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

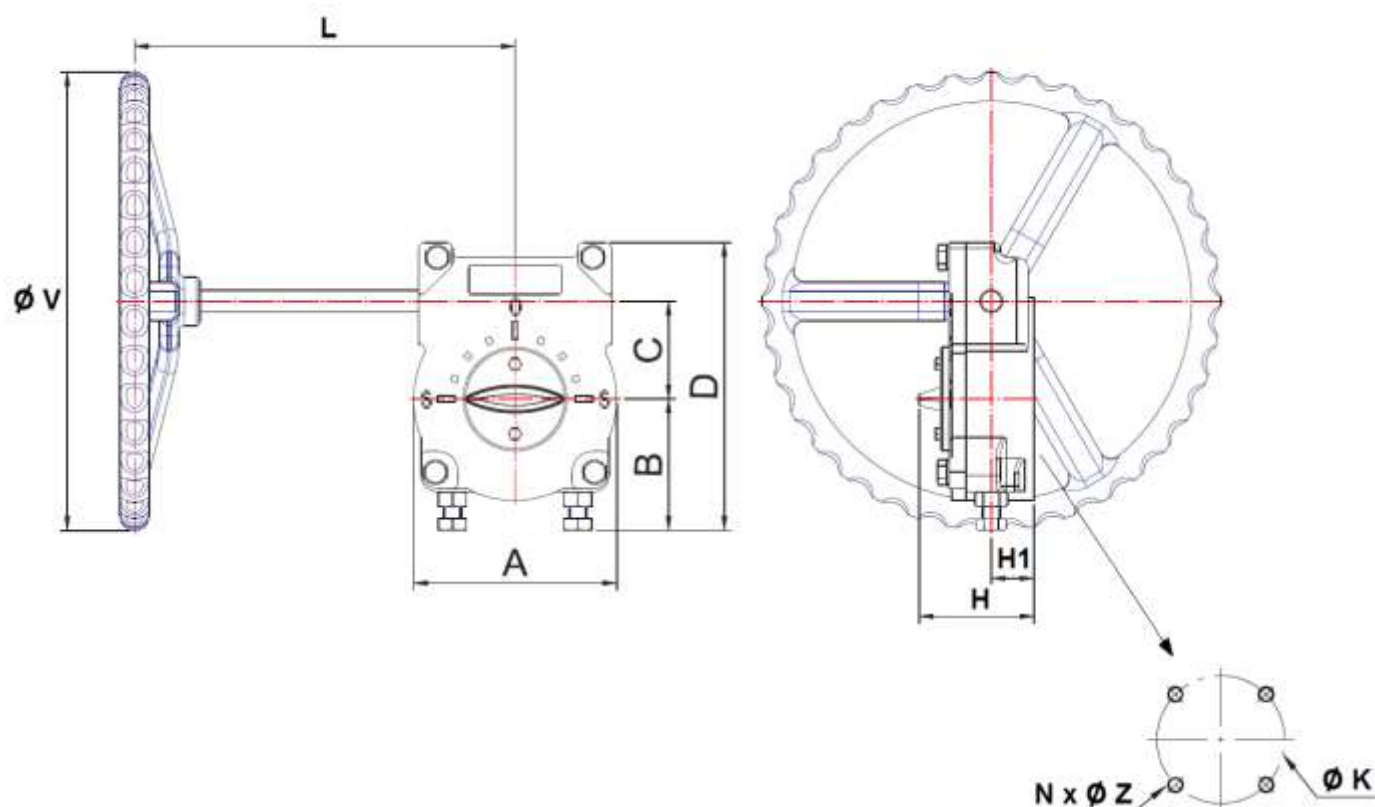
GEARBOX SIZE DN 50-350 :



| DN          | 50-65   | 80      | 100     | 125-150 | 200     | 250     | 300-350 |
|-------------|---------|---------|---------|---------|---------|---------|---------|
| L           | 155     | 155     | 195     | 195     | 258     | 258     | 346     |
| A           | 87      | 87      | 117     | 117     | 153     | 153     | 181     |
| B           | 49      | 49      | 81      | 81      | 97      | 97      | 102     |
| C           | 41      | 41      | 63      | 63      | 61      | 61      | 81      |
| D           | 130     | 130     | 176     | 176     | 186     | 186     | 223     |
| H           | 81      | 81      | 91      | 91      | 88      | 88      | 117     |
| H1          | 37      | 37      | 41.5    | 41.5    | 41      | 41      | 52      |
| Ø V         | 150     | 150     | 200     | 200     | 310     | 310     | 400     |
| Ø K         | 70      | 70      | 102     | 102     | 125     | 125     | 140     |
| ISO         | F07     | F07     | F10     | F10     | F12     | F12     | F14     |
| N x Ø Z     | 4 x M8  | 4 x M8  | 4 x M10 | 4 x M10 | 4 x M12 | 4 x M12 | 4 x M16 |
| Weight (Kg) | 3.3     | 3.3     | 7.5     | 7.5     | 9       | 9       | 22      |
| Ref.        | 1193001 | 1193002 | 1193003 | 1193004 | 1193005 | 1193006 | 1193007 |

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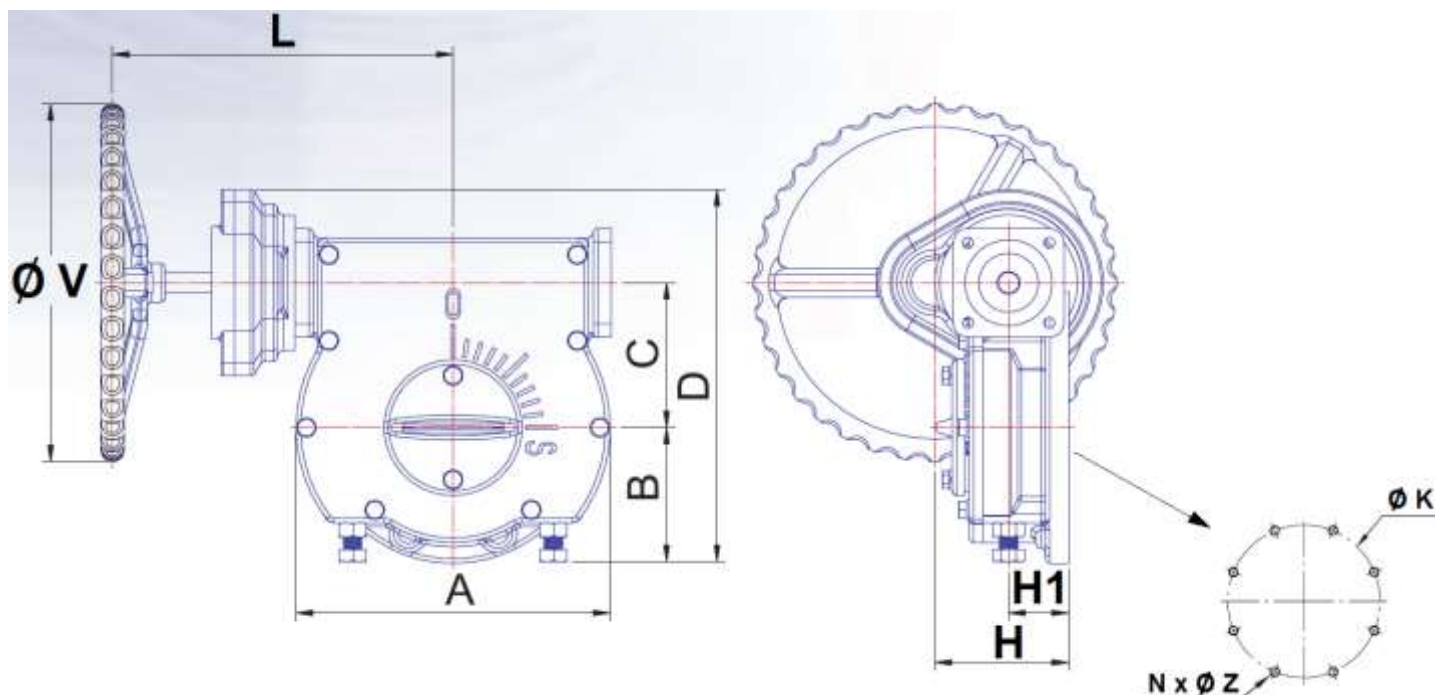
GEARBOX SIZE DN 400-500 :



| DN          | 400-500 |
|-------------|---------|
| L           | 307     |
| A           | 251     |
| B           | 113     |
| C           | 123     |
| D           | 293     |
| H           | 127     |
| H1          | 56      |
| Ø V         | 400     |
| Ø K         | 165     |
| ISO         | F16     |
| N x Ø Z     | 4 x M20 |
| Weight (Kg) | 35      |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**GEARBOX SIZE DN 600 :**



| DN          | 600     |
|-------------|---------|
| L           | 370     |
| A           | 341     |
| B           | 148     |
| C           | 160     |
| D           | 411     |
| H           | 145     |
| H1          | 65      |
| Ø V         | 400     |
| Ø K         | 254     |
| ISO         | F25     |
| N x Ø Z     | 8 x M16 |
| Weight (Kg) | 109     |

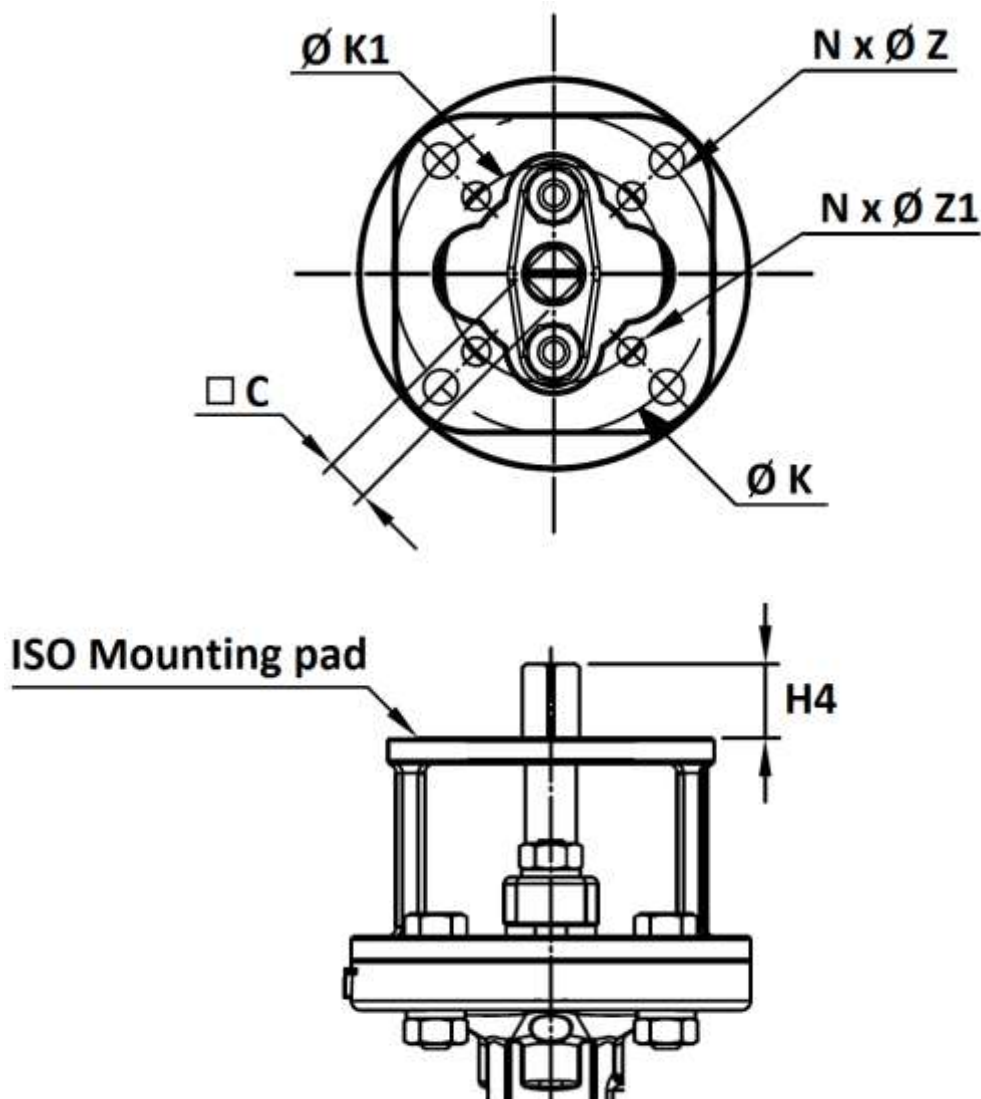
**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**GEARBOX SPECIFICATIONS :**

| DN                                      | 50-65   | 80      | 100     | 125-150 | 200-250 | 300-350 | 400-500 | 600    |
|-----------------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| Ref.                                    | 1193001 | 1193002 | 1193003 | 1193004 | -       | -       | -       | -      |
| Ratio factor                            | 40 :1   | 40 :1   | 36 :1   | 36 :1   | 36 :1   | 52 :1   | 70 :1   | 207 :1 |
| Number of cycles for opening or closing | 10      | 10      | 9       | 9       | 9       | 13      | 17.5    | 52     |
| Input torque ( Nm )                     | 24.5    | 24.5    | 54      | 54      | 109     | 150     | 225     | 451    |
| Output torque ( Nm )                    | 245     | 245     | 490     | 490     | 980     | 1960    | 3922    | 7845   |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

ISO MOUNTING PAD AND STEM SIZE ( in mm ) :

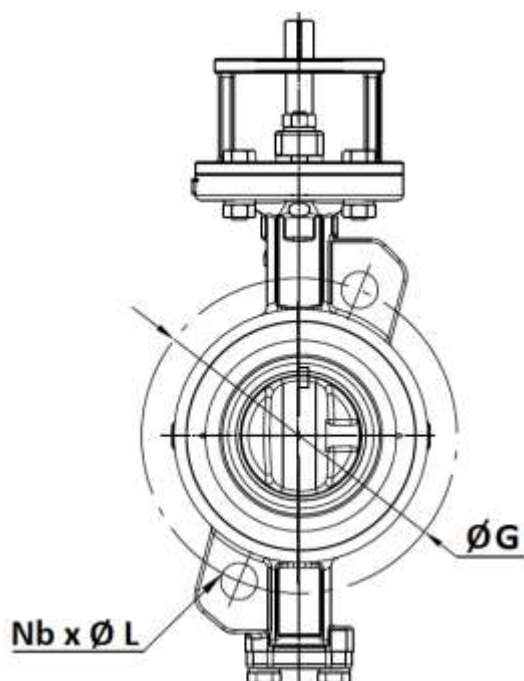


| DN     | 50    | 65    | 80     | 100    | 125    | 150    | 200    | 250    | 300    | 350    | 400    | 450    | 500    | 600    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C      | 11    | 11    | 14     | 14     | 17     | 17     | 19     | 22     | 27     | 27     | 36     | 36     | 46     | 46     |
| H4     | 18    | 18    | 23     | 23     | 23     | 23     | 28     | 28     | 37     | 37     | 47     | 47     | 56     | 56     |
| Ø K    | 70    | 70    | 102    | 102    | 102    | 102    | 125    | 125    | 140    | 140    | 165    | 165    | 165    | 254    |
| ISO    | F07   | F07   | F10    | F10    | F10    | F10    | F12    | F12    | F14    | F14    | F16    | F16    | F16    | F25    |
| N x ØZ | 4 x 8 | 4 x 8 | 4 x 10 | 4 x 10 | 4 x 10 | 4 x 10 | 4 x 12 | 4 x 12 | 4 x 16 | 4 x 16 | 4 x 22 | 4 x 22 | 4 x 22 | 8 x 17 |
| Ø K1   | 50    | 50    | 70     | 70     | 70     | 70     | 102    | 102    | 125    | 125    | 140    | 140    | 140    | -      |
| ISO1   | F05   | F05   | F07    | F07    | F07    | F07    | F10    | F10    | F12    | F12    | F14    | F14    | F14    | -      |
| NxØZ1  | 4 x 6 | 4 x 6 | 4 x 8  | 4 x 8  | 4 x 8  | 4 x 8  | 4 x 10 | 4 x 10 | 4 x 12 | 4 x 12 | 4 x 16 | 4 x 16 | 4 x 16 | -      |

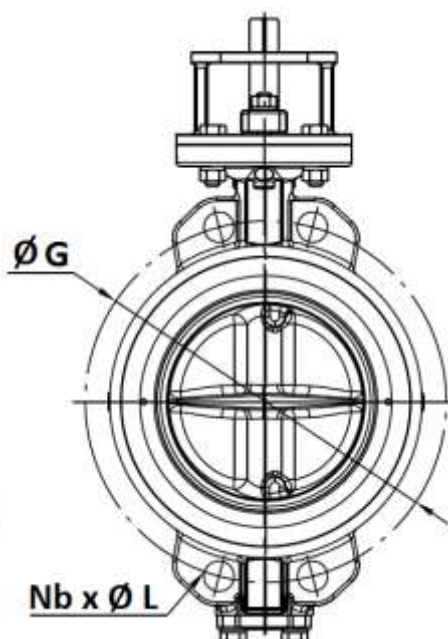
**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

BETWEEN FLANGES PN25 SIZE ( in mm ) :

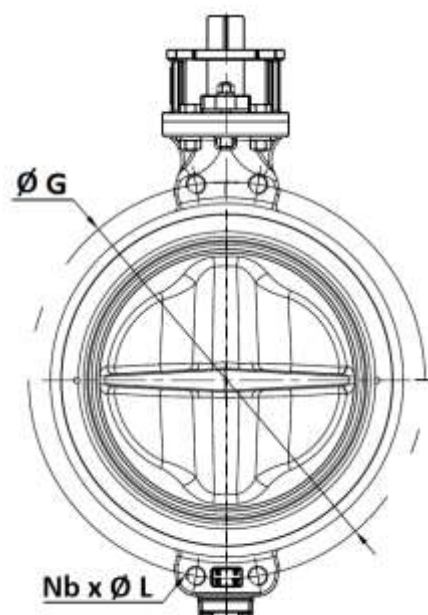
**DN 50 – 150**



**DN 200 - 400**



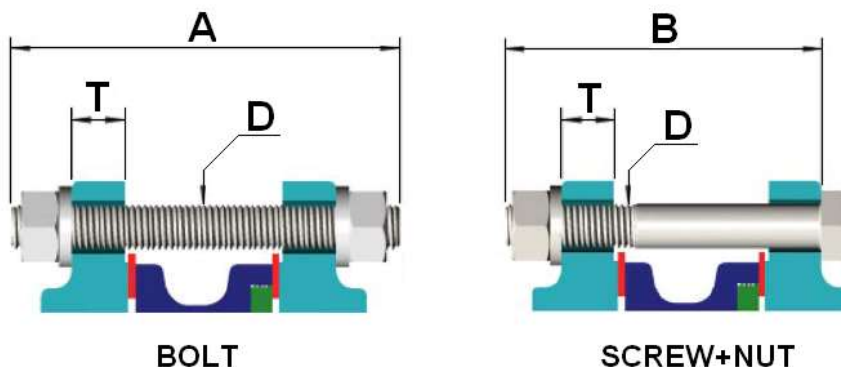
**DN 450 - 600**



| DN       | 50      | 65      | 80      | 100     | 125     | 150     | 200     | 250     | 300     | 350     | 400     | 450     | 500     | 600     |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ø G      | 125     | 145     | 160     | 190     | 220     | 250     | 310     | 370     | 430     | 490     | 550     | 600     | 660     | 770     |
| Nb x Ø L | 2 x 18  | 2 x 18  | 2 x 18  | 2 x 22  | 2 x 26  | 2 x 26  | 4 x 26  | 4 x 30  | 4 x 30  | 4 x 33  | 4 x 36  | 4x M33  | 4x M33  | 4x M36  |
| Ref.     | 1114050 | 1114065 | 1114080 | 1114100 | 1114125 | 1114150 | 1114200 | 1114250 | 1114300 | 1114350 | 1114400 | 1114450 | 1114500 | 1114600 |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**BOLTING SIZE PN25 ( in mm, not included with valves ) :**



| PN25 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DN   | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
| A    | 130 | 140 | 145 | 160 | 180 | 180 | 190 | 210 | 220 | 235 | 270 | 300 | 310 | 370 |
| B    | 125 | 125 | 130 | 140 | 155 | 155 | 165 | 180 | 195 | 205 | 240 | 265 | 280 | 330 |
| D    | M16 | M16 | M16 | M20 | M24 | M24 | M24 | M27 | M27 | M30 | M33 | M33 | M33 | M36 |
| T    | 22  | 22  | 24  | 24  | 26  | 28  | 30  | 32  | 34  | 38  | 40  | 48  | 48  | 58  |

**BOLTING TIGHTENING TORQUE :**

| Bolting size | Max torque (Nm) |
|--------------|-----------------|
| M16          | 150             |
| M20          | 270             |
| M22          | 434             |
| M24          | 450             |
| M26          | 650             |
| M27          | 700             |
| M28          | 815             |
| M30          | 950             |
| M32          | 1140            |
| M33          | 1300            |
| M36          | 1700            |

**STAINLESS STEEL DOUBLE OFFSET WAFER BUTTERFLY VALVE PN25 FIRE SAFE**

**STANDARDS :**

- Manufacturer certified ISO 9001:2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
  - DN50-125 : Risk Category II, CE 0035 marking
  - DN150-600 : Risk Category III, CE 0035 marking
- Designing according to API 609
- Marking according to MSS SP-25
- Tightness tests according to ISO 5208, Rate A
- Between flanges according to EN 1092-1 PN25
- ISO 5211 mounting pad
- Length according to EN 558 series 20 ( ISO 5752 series 20 )
- Fire safe according to ISO 10497 : 2010
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 according to directive 2014/34/EU (Optional marking)
- SIL2 according to IEC/EN 61508, SIL 3 possible according to installation

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.  
The customer must check the right choice of the products with the real service conditions.