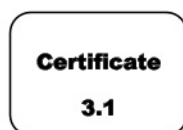


## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

Wafer butterfly valve initial range for non aromatic hydrocarbon, fuel, water, natural gas, grease, oil, compressed air, glycol.  
Cast iron EN GJL-250 body, stainless steel disc and NBR seat.  
Between flanges PN6, PN10, PN16, Class 150 or JIS10K according to DN.  
Handling possible with gearbox.  
Thanks to the ISO 5211 plate, an actuator can be installed on the valve.



*Painting color is actually  
changing for RAL5005*



*New painting*



*Old painting*

**Size :** DN32/40 to DN500  
**Connection :** Between flanges PN6, PN10/16, Class 150 and JIS10K\*  
**Min Temperature :** -10°C  
**Max Temperature :** +80°C  
**Max Pressure :** 16 Bars up to DN300  
**Specifications :** Long neck for isolation  
Stainless steel disc  
NBR vulcanized seat  
ISO 5211 mounting pad

**Materials :** Cast iron body EN GJL-250, NBR seat

\*according to DN



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

### SPECIFICATIONS :

- Long neck for isolation
- ISO 5211 mounting pad
- Wafer type
- Between flanges PN6 from DN40 to 150, PN10/16 from DN32 to 500, Class 150 (PN20) from DN40 to 350 and from DN450 to 500
- Between flanges JIS10K from DN40 to DN300
- Full crossing stem
- With 10 positions lever and locking device up to DN150
- Double PTFE gasket on stem
- Stainless steel disc
- Epoxy painting RAL003 80 microns thickness, **painting color is actually changing for RAL5005**
- Vulcanized NBR seat

### USE :

- No aromatic hydrocarbon, fuel, water, natural gas, grease, oil, compressed air, glycol
- Min and max Temperature Ts : - 10°C to + 80°C
- Max Pressure Ps : 16 bars up to DN300, 10 bars over

### FLOW COEFFICIENT Kv ( M3 / h ) :

| DN            |     | 32/40 | 50   | 65   | 80   | 100  | 125  | 150  | 200  | 250  | 300  | 350   | 400   | 450   | 500   |
|---------------|-----|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Opening Angle | 10° | 0,04  | 0,05 | 0,09 | 0,17 | 0,26 | 0,43 | 0,68 | 1,7  | 2,6  | 3,4  | 5,1   | 6,8   | 9,4   | 11,9  |
|               | 20° | 2     | 3    | 5    | 8    | 15   | 25   | 38   | 76   | 129  | 200  | 288   | 396   | 525   | 675   |
|               | 30° | 5     | 6    | 10   | 15   | 31   | 52   | 81   | 160  | 273  | 422  | 610   | 839   | 1101  | 1428  |
|               | 40° | 10    | 13   | 21   | 33   | 67   | 113  | 175  | 348  | 592  | 914  | 1321  | 1817  | 2407  | 3095  |
|               | 50° | 18    | 23   | 38   | 60   | 119  | 202  | 312  | 620  | 1055 | 1630 | 2355  | 3239  | 4289  | 5515  |
|               | 60° | 30    | 38   | 64   | 99   | 196  | 334  | 516  | 1025 | 1746 | 2697 | 3897  | 5359  | 7097  | 9125  |
|               | 70° | 48    | 60   | 102  | 156  | 310  | 529  | 817  | 1623 | 2764 | 4269 | 6167  | 8481  | 11232 | 14442 |
|               | 80° | 72    | 90   | 152  | 235  | 466  | 793  | 1226 | 2434 | 4145 | 6403 | 9250  | 12720 | 16848 | 21662 |
|               | 90° | 78    | 98   | 167  | 258  | 512  | 872  | 1347 | 2675 | 4555 | 7037 | 10165 | 13799 | 18514 | 23805 |

### TORQUE VALUE ( Nm, without safety coefficient ) :

We recommend a safety coefficient of 30% minimum to determinate the actuator.

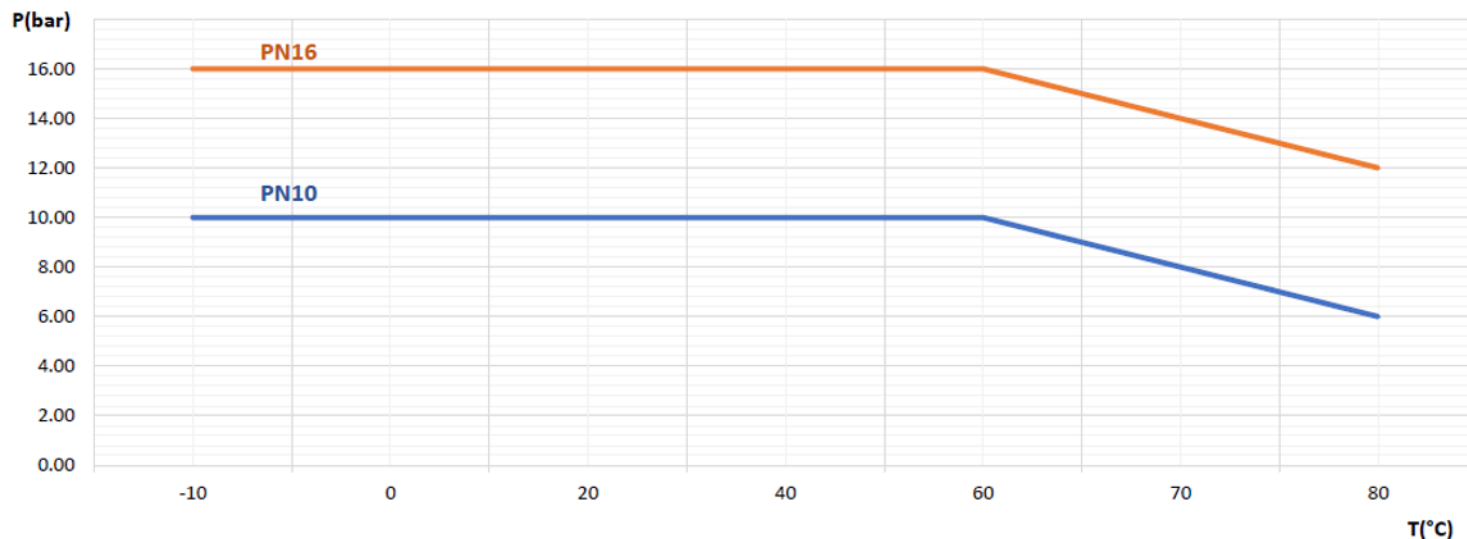
| DN   | 32/40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  |
|------|-------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| PN10 | 9     | 12 | 19 | 25 | 38  | 58  | 85  | 159 | 253 | 369 | 428 | 671 | 1001 | 1220 |
| PN16 | 10    | 13 | 21 | 26 | 42  | 65  | 95  | 175 | 277 | 536 | -   | -   | -    | -    |



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



RANGE :

- Wafer butterfly valve with lever from DN32/40 to DN300
- Wafer butterfly valve with gearbox from DN350 to DN500
- Gear box possible ( **Ref.1198** ) from DN32/40 to DN300

CONNECTION :

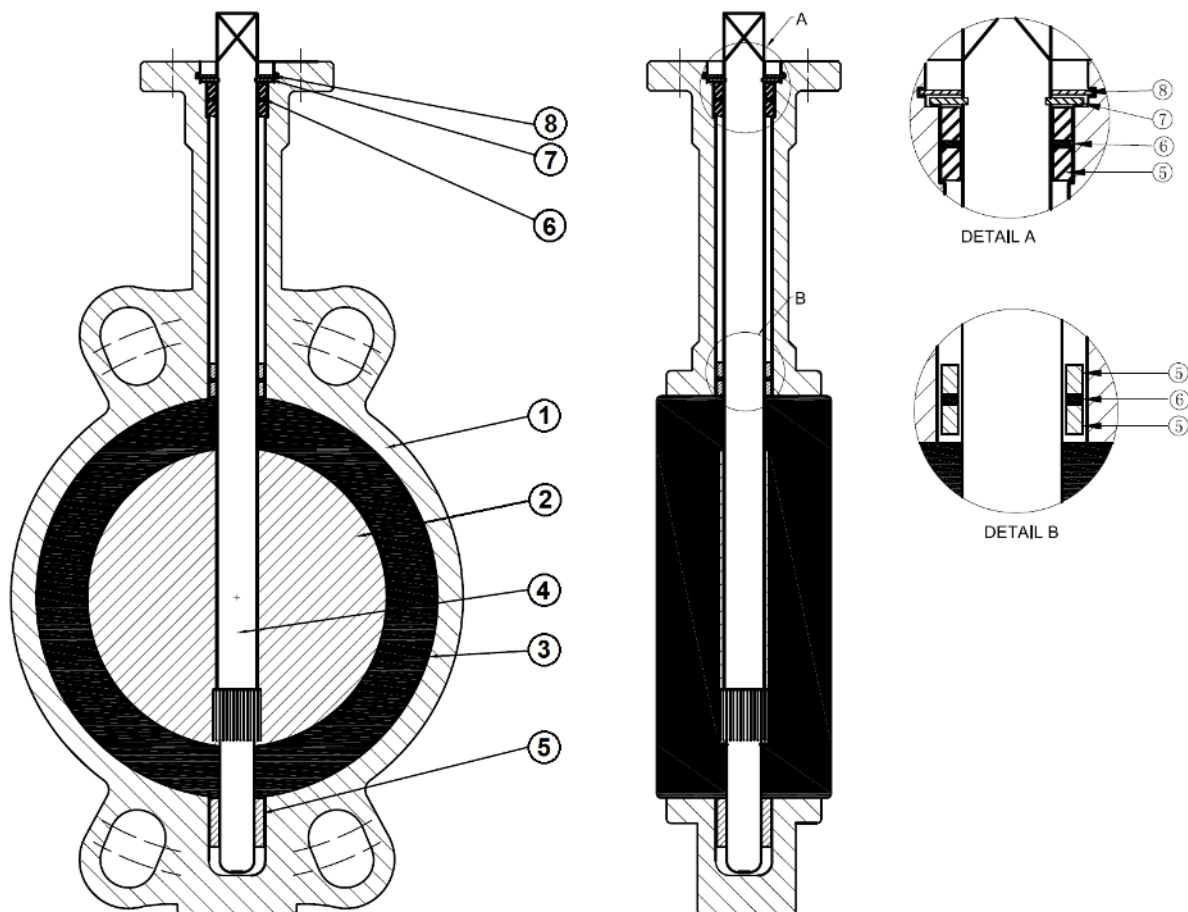
- Between flanges PN6 from DN40 to DN150
- Between flanges PN10/16 from DN32 to 500
- Between flanges Class 150 (PN20) from DN40 to DN350 and from DN450 to DN500
- Between flanges JIS10K from DN40 to DN300



**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**MATERIALS DN32/40-300 :**



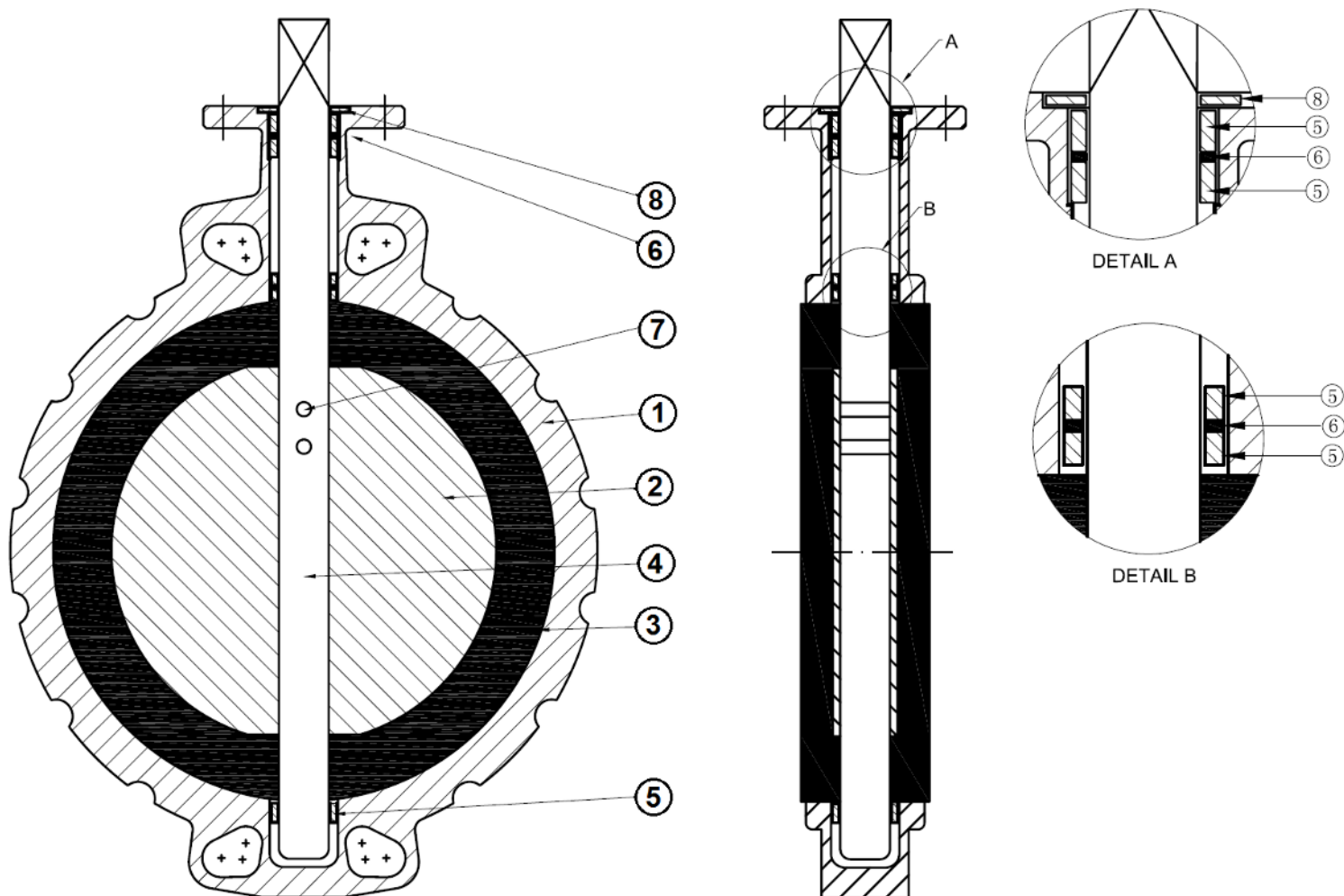
| Item | Designation | Materials            |
|------|-------------|----------------------|
| 1    | Body        | Cast iron EN GJL-250 |
| 2    | Disc        | ASTM A351 CF8M       |
| 3    | Seat        | NBR                  |
| 4    | Stem        | AISI 420             |
| 5    | Bushing     | PTFE                 |
| 6    | O ring      | NBR                  |
| 7    | Circlip     | Steel                |
| 8    | Circlip     | Steel                |
|      | Lever       | Aluminium            |



**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS  
STEEL DISC AND NBR SEAT**

**MATERIALS DN 350 :**



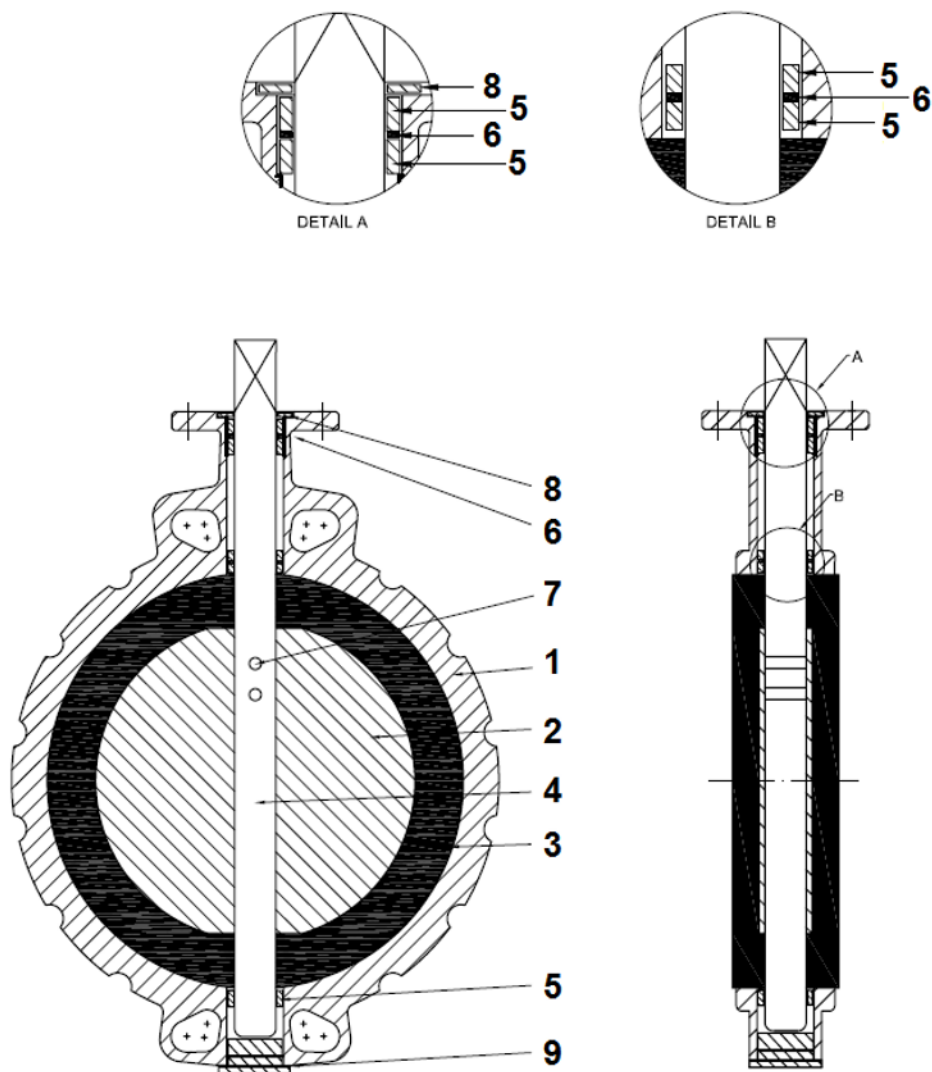
| Item | Designation | Materials            |
|------|-------------|----------------------|
| 1    | Body        | Cast iron EN GJL-250 |
| 2    | Disc        | ASTM A351 CF8M       |
| 3    | Seat        | NBR                  |
| 4    | Stem        | AISI 431             |
| 5    | Bushing     | PTFE                 |
| 6    | O ring      | NBR                  |
| 7    | Pin         | AISI 316             |
| 8    | Gasket      | NBR                  |



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

### MATERIALS DN 400-500 :



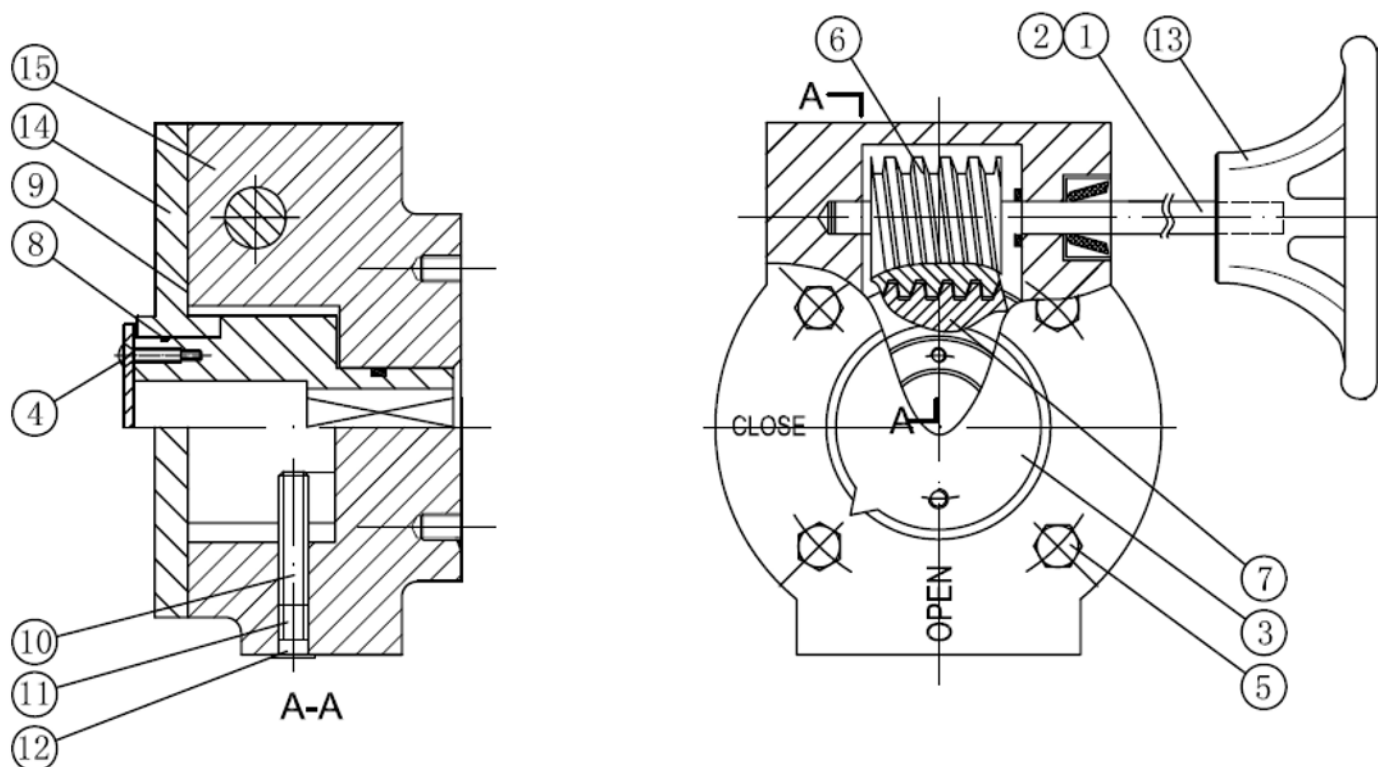
| Item | Designation | Materials            |
|------|-------------|----------------------|
| 1    | Body        | Cast iron EN GJL-250 |
| 2    | Disc        | ASTM A351 CF8M       |
| 3    | Seat        | NBR                  |
| 4    | Stem        | AISI 431             |
| 5    | Bushing     | PTFE                 |
| 6    | O ring      | NBR                  |
| 7    | Pin         | AISI 316             |
| 8    | Gasket      | NBR                  |
| 9    | Gasket      | NBR                  |



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

**MATERIALS GEARBOX DN40-450 :**



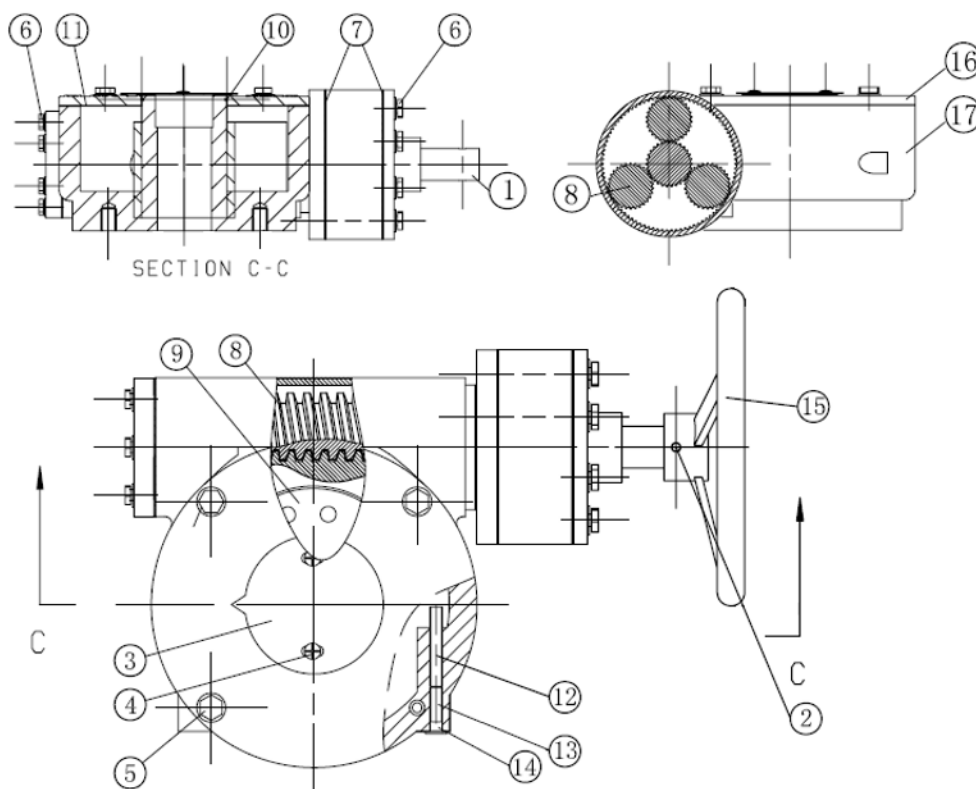
| Item | Designation             | Materials                          |
|------|-------------------------|------------------------------------|
| 1    | Stem                    | Chromed steel                      |
| 2    | Pin                     | AISI 316                           |
| 3    | Indicator plate         | Aluminium + NBR gasket             |
| 4    | Indicator bolt, washer  | AISI 316                           |
| 5    | Bolt, washer            | AISI 316                           |
| 6    | Gear 1                  | Steel                              |
| 7    | Gear 2                  | Ductile iron EN GJS-400-15         |
| 8    | O ring                  | NBR                                |
| 9    | Bonnet gasket           | NBR                                |
| 10   | Internal set screw      | Carbon steel                       |
| 11   | External set screw      | AISI 316                           |
| 12   | Plastic cap             | Plastic                            |
| 13   | Handwheel               | Cast iron EN GJL-250 epoxy coating |
| 14   | Bonnet                  | Cast iron EN GJL-250 epoxy coating |
| 15   | Body                    | Cast iron EN GJL-250 epoxy coating |
|      | Bolting to fix on valve | AISI 304                           |



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

### MATERIALS GEARBOX DN500 :



| Item | Designation             | Materials                          |
|------|-------------------------|------------------------------------|
| 1    | Stem                    | Chromed carbon steel               |
| 2    | Pin                     | AISI 316                           |
| 3    | Indicator plate         | Aluminium with NBR gasket          |
| 4    | Indicator bolting       | AISI 316                           |
| 5    | Bonnet bolting          | AISI 316                           |
| 6    | Bolting                 | AISI 316                           |
| 7    | Body gasket             | NBR                                |
| 8    | Worm gear               | Steel                              |
| 9    | Gear                    | Ductile iron EN GJS-400-15         |
| 10   | O ring                  | NBR                                |
| 11   | Bonnet gasket           | NBR                                |
| 12   | Internal screw          | Steel                              |
| 13   | External screw          | AISI 316                           |
| 14   | Cap                     | Plastic                            |
| 15   | Handwheel               | Cast iron EN GJL-250 epoxy coating |
| 16   | Bonnet                  |                                    |
| 17   | Body                    |                                    |
|      | Bolting to fix on valve | AISI 304                           |

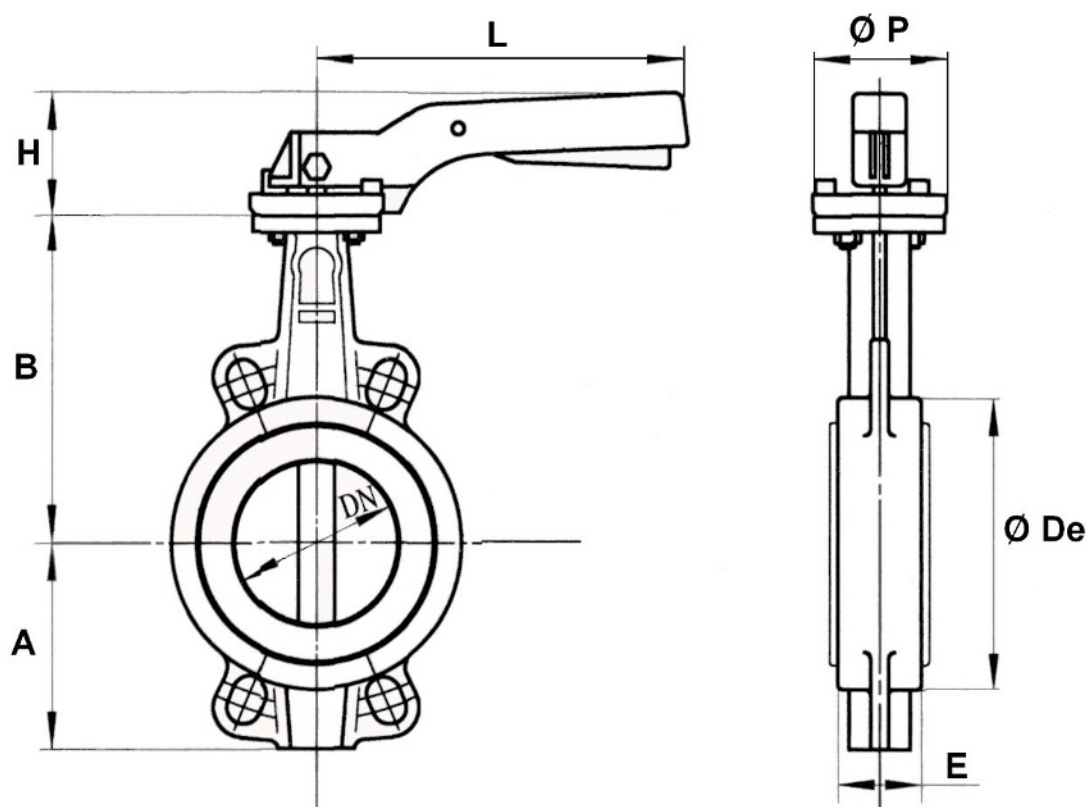


**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

VALVES SIZE ( in mm ) :

- VALVES WITH LEVER DN 32/40 - 300 :



| DN         | 32/40   | 50      | 65      | 80      | 100     | 125     | 150     | 200     | 250     | 300     |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A          | 61      | 77      | 87,5    | 95      | 107     | 121,5   | 144     | 171     | 205     | 235     |
| B          | 130     | 136,5   | 142     | 158     | 180     | 192     | 215     | 242     | 280     | 310     |
| Ø De       | 82      | 95      | 109     | 121     | 152     | 180     | 207     | 260     | 315     | 370     |
| E          | 33      | 43      | 46      | 46      | 52      | 56      | 56      | 60      | 68      | 78      |
| H          | 70      | 70      | 70      | 70      | 70      | 71      | 71      | 40      | 44      | 44      |
| L          | 195     | 195     | 195     | 195     | 195     | 278     | 278     | 355     | 507     | 507     |
| Ø P        | 65      | 65      | 65      | 65      | 65      | 90      | 90      | 125     | 150     | 150     |
| Weig. (Kg) | 1.85    | 2.53    | 2.86    | 3.16    | 4.21    | 6.67    | 7.66    | 14.67   | 23.4    | 33.8    |
| Ref.       | 1121040 | 1121050 | 1121065 | 1121080 | 1121100 | 1121125 | 1121150 | 1121200 | 1121250 | 1121300 |

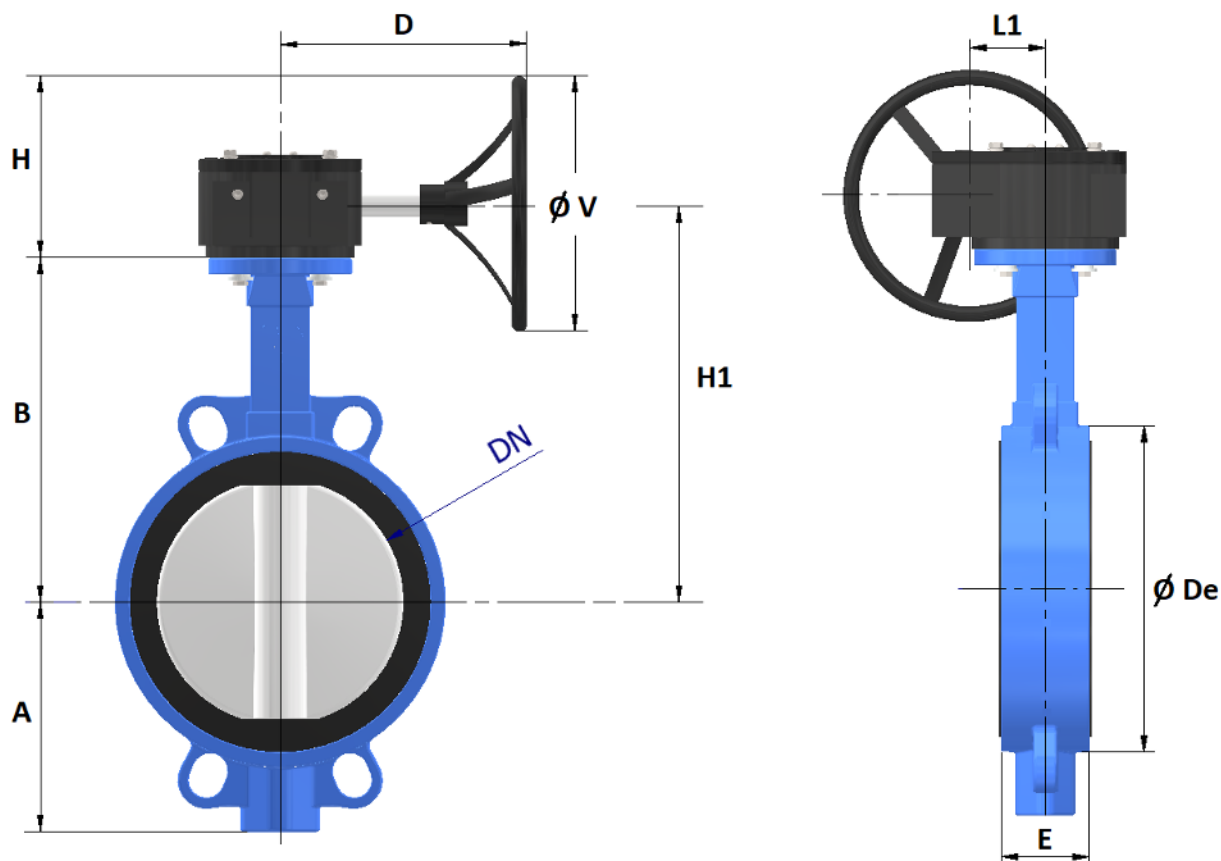


**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**VALVES SIZE ( in mm ) :**

- VALVES WITH GEARBOX DN 32/40 - 300 :**



| DN         | 32/40 | 50   | 65   | 80   | 100  | 125  | 150   | 200   | 250   | 300  |
|------------|-------|------|------|------|------|------|-------|-------|-------|------|
| A          | 61    | 77   | 88   | 95   | 107  | 122  | 144   | 171   | 205   | 235  |
| B          | 130   | 137  | 142  | 158  | 180  | 192  | 215   | 242   | 280   | 310  |
| D          | 162   |      |      |      |      |      |       | 224   |       | 223  |
| Ø De       | 82    | 95   | 109  | 121  | 152  | 180  | 207   | 260   | 315   | 370  |
| E          | 33    | 43   | 46   | 46   | 52   | 56   | 56    | 60    | 68    | 78   |
| H          | 112   |      |      |      |      | 162  |       | 191   |       | 192  |
| H1         | 167   | 174  | 179  | 195  | 217  | 229  | 252   | 283   | 321   | 352  |
| L1         | 44    |      |      |      |      |      |       | 66    |       | 77   |
| Ø V        | 150   |      |      |      |      | 250  |       | 300   |       |      |
| Weig. (Kg) | 5.36  | 6.04 | 6.37 | 6.67 | 8.43 | 10.2 | 11.19 | 21.66 | 30.82 | 43.4 |

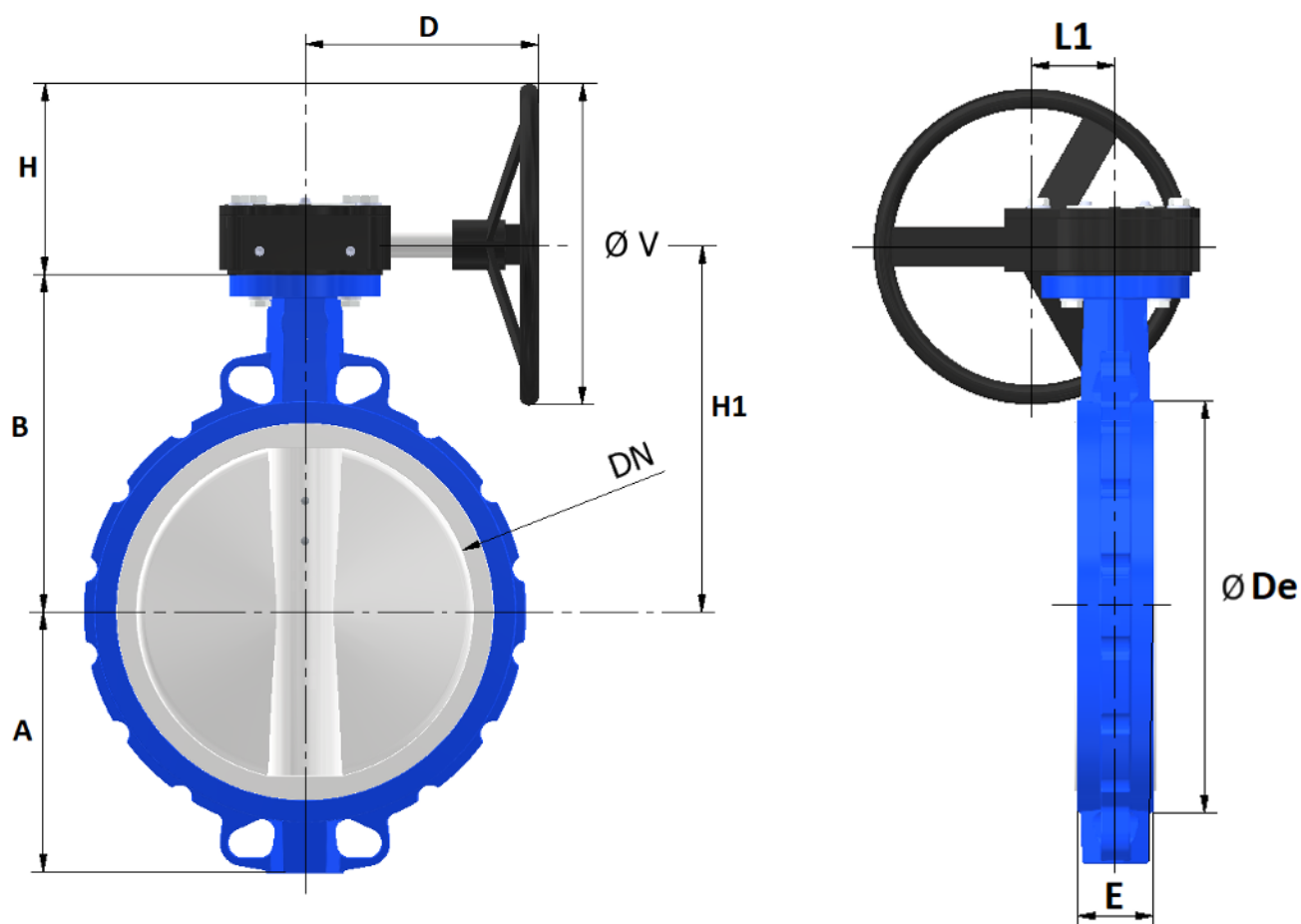


**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**VALVES SIZE ( in mm ) :**

- VALVES WITH GEARBOX DN 350 :**



| DN          | 350     |
|-------------|---------|
| A           | 260     |
| B           | 334     |
| D           | 223     |
| Ø De        | 418     |
| E           | 78      |
| H           | 190     |
| H1          | 379     |
| L1          | 78      |
| Ø V         | 300     |
| Weight (Kg) | 54.5    |
| Ref.        | 1121350 |

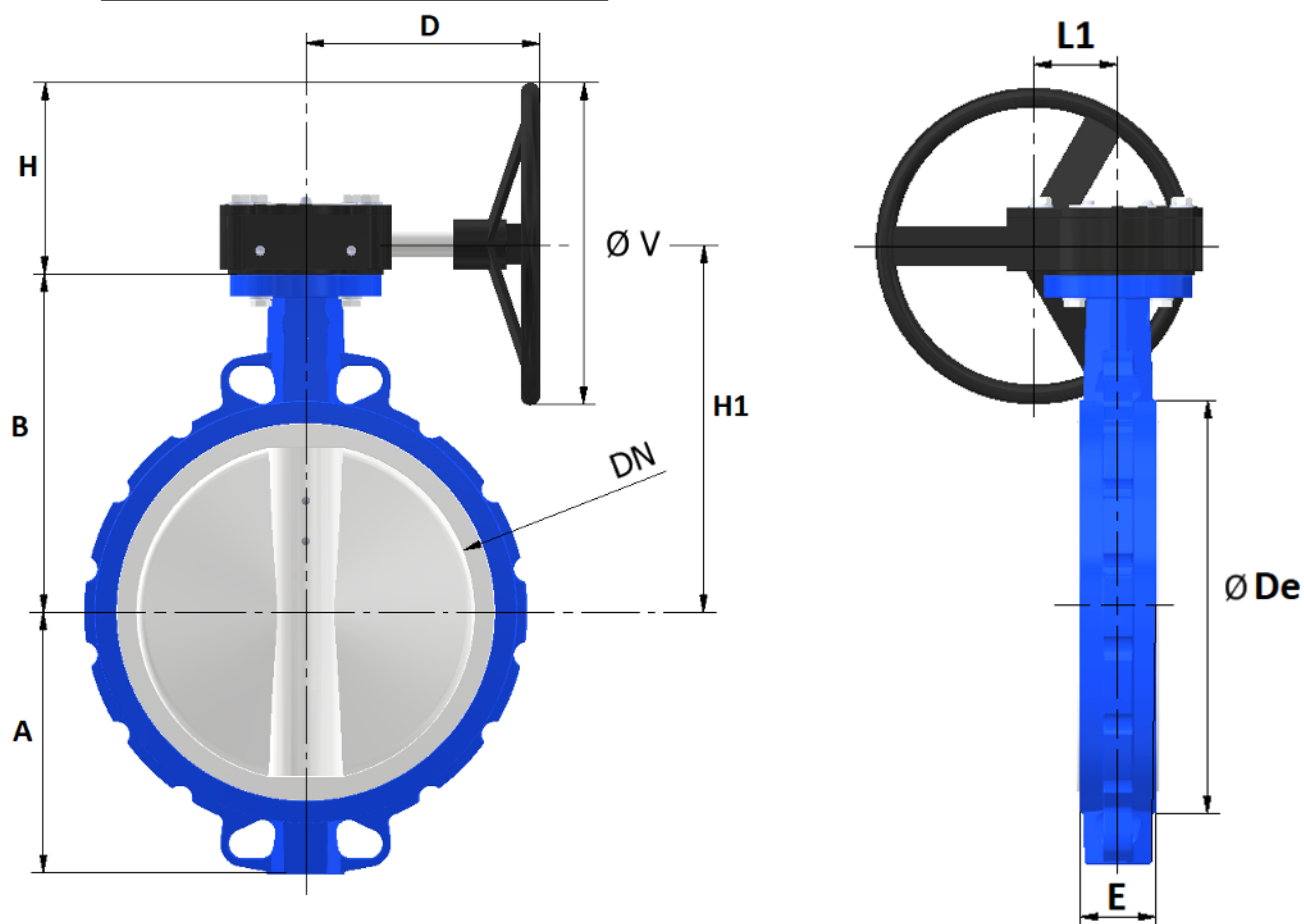


**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**VALVES SIZE ( in mm ) :**

- **VALVES WITH GEARBOX DN 400 - 500 :**



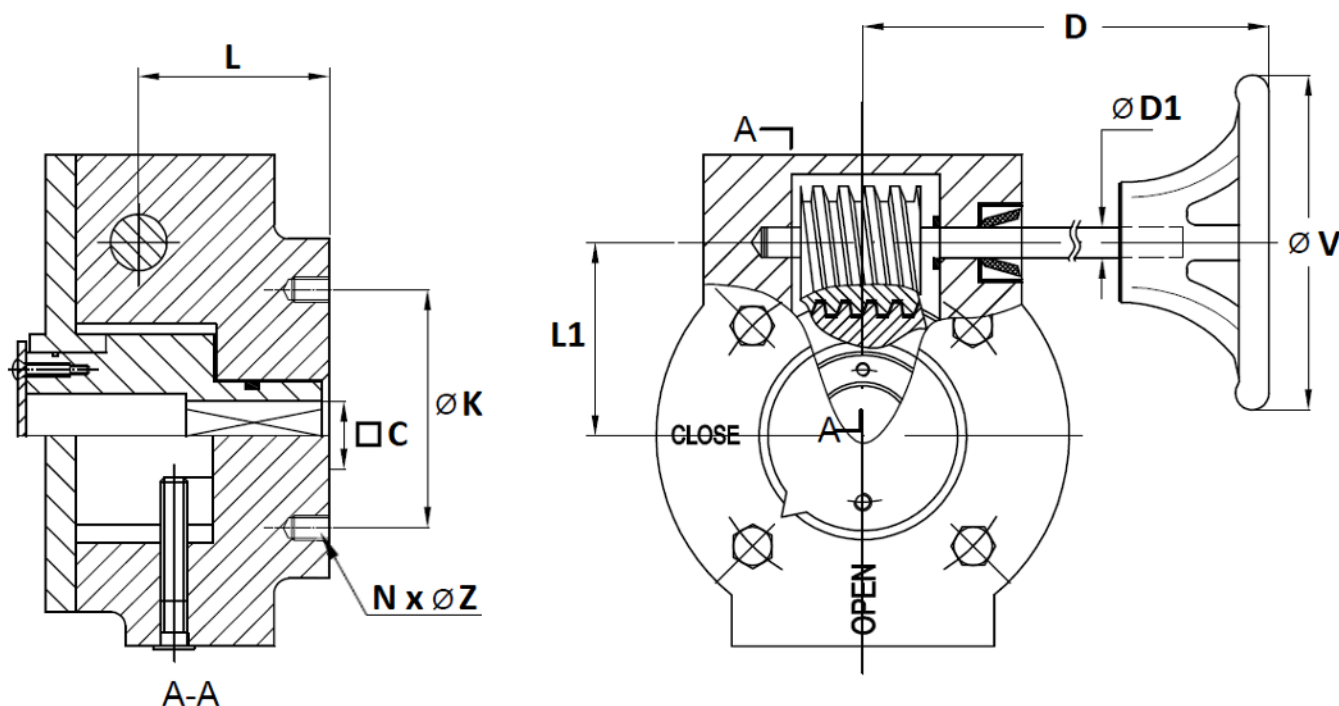
| DN          | 400     | 450     | 500     |
|-------------|---------|---------|---------|
| A           | 307     | 339     | 368     |
| B           | 361     | 401     | 480     |
| D           | 270     | 270     | 339     |
| Ø De        | 470     | 525     | 570     |
| E           | 102     | 114     | 127     |
| H           | 208     | 258     | 222     |
| H1          | 423     | 463     | 545     |
| L1          | 120     | 120     | 120     |
| Ø V         | 400     | 400     | 300     |
| Weight (Kg) | 89.85   | 107.4   | 155.8   |
| Ref.        | 1121400 | 1121450 | 1121500 |



**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**GEAR BOX SIZE ( in mm ) :**



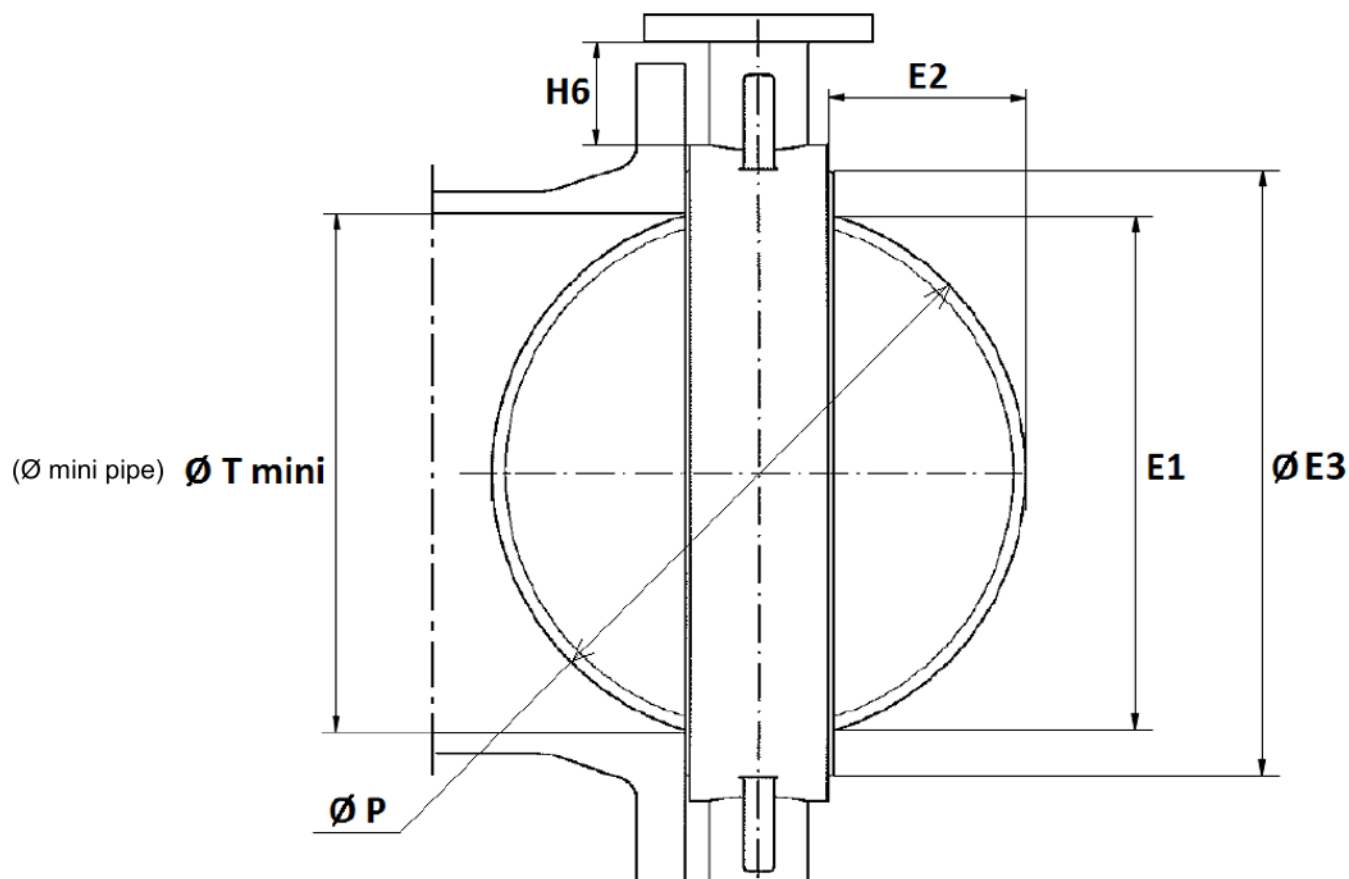
| DN          | 32/80   | 100     | 125/150 | 200     | 250     | 300-350 |
|-------------|---------|---------|---------|---------|---------|---------|
| C           | 9       | 11      | 14      | 17      | 22      | 27      |
| Ø K         | 50      | 50      | 70      | 102     | 125     | 125     |
| ISO         | F05     | F05     | F07     | F10     | F12     | F12     |
| N x ØZ      | 4 x M6  | 4 x M6  | 4 x M8  | 4 x M10 | 4 x M12 | 4 x M12 |
| L           | 37      |         |         | 41      |         | 42      |
| D           | 162     |         |         | 224     |         | 223     |
| L1          | 44      |         |         | 66      |         | 77      |
| Ø D1        | 16      |         |         | 19      |         |         |
| Ø V         | 150     |         | 250     | 300     |         |         |
| Weight (kg) | 3.51    | 4.22    | 3.53    | 6.99    | 7.42    | 9.6     |
| Ref.        | 1198001 | 1198002 | 1198003 | 1198004 | 1198005 | 1198006 |



**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

**DISC AND NECK SIZE ( in mm ) :**



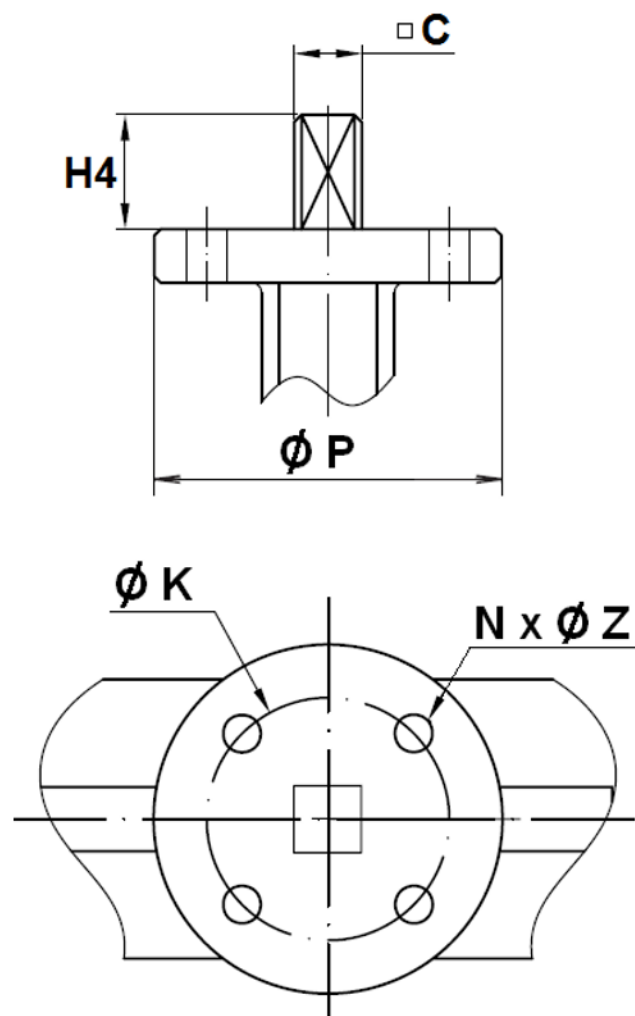
| DN       | 40   | 50    | 65    | 80    | 100    | 125    | 150    | 200   | 250   | 300   | 350   | 400   | 450   | 500   |
|----------|------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| E1       | 37.7 | 47.06 | 59.81 | 75.56 | 98.37  | 117.02 | 147.65 | 195.3 | 242.5 | 292.6 | 325.4 | 379.8 | 429   | 480.2 |
| E2       | 4.9  | 5     | 9.4   | 16.5  | 26.1   | 33.9   | 49.7   | 71.2  | 91.2  | 111.8 | 127.8 | 143.9 | 163.3 | 182.3 |
| Ø E3 ±2  | 70   | 76    | 90    | 104   | 135    | 159    | 188    | 238   | 292   | 344   | 375   | 439   | 490   | 535   |
| H6 ±2    | 76.7 | 79    | 79    | 87.5  | 92.3   | 90.3   | 99.2   | 99.5  | 103.8 | 105.8 | 105.8 | 109.5 | 113   | 172   |
| Ø P      | 42.8 | 53    | 64.8  | 79.1  | 104.25 | 123.8  | 155.4  | 202.4 | 250.5 | 301.6 | 333.7 | 389.8 | 440.7 | 491.8 |
| Ø T mini | 43   | 53    | 65    | 79.5  | 104.5  | 124    | 155.5  | 202.5 | 250.5 | 302   | 334   | 390   | 441   | 492   |



**REF. 1121**

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT**

ISO MOUNTING PAD SIZE ( in mm ) :



| DN    | 32/40 | 50    | 65    | 80    | 100   | 125   | 150   | 200    | 250    | 300    | 350    | 400    | 450    | 500    |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| C     | 9     | 9     | 9     | 9     | 11    | 14    | 14    | 17     | 22     | 27     | 27     | 27     | 30     | 36     |
| Ø K   | 50    | 50    | 50    | 50    | 50    | 70    | 70    | 102    | 125    | 125    | 125    | 125    | 165    | 165    |
| ISO   | F05   | F05   | F05   | F05   | F05   | F07   | F07   | F10    | F12    | F12    | F12    | F12    | F16    | F16    |
| Nx ØZ | 4 x 7 | 4 x 7 | 4 x 7 | 4 x 7 | 4 x 7 | 4 x 9 | 4 x 9 | 4 x 11 | 4 x 13 | 4 x 13 | 4 x 14 | 4 x 14 | 4 x 22 | 4 x 22 |
| H4    | 32    | 32    | 32    | 32    | 32    | 42    | 42    | 36     | 38     | 38     | 45     | 50     | 50     | 65     |
| Ø P   | 65    | 65    | 65    | 65    | 65    | 90    | 90    | 125    | 150    | 150    | 150    | 150    | 210    | 210    |



**REF. 1121**

## CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY WITH STAINLESS STEEL DISC AND NBR SEAT

### GEARBOX SPECIFICATIONS :

| DN                 | 32/80 | 100   | 125/150 | 200   | 250   | 300-350 | 400   | 450   | 500    |
|--------------------|-------|-------|---------|-------|-------|---------|-------|-------|--------|
| Ratio factor       | 24 :1 | 24 :1 | 24 :1   | 30 :1 | 30 :1 | 50 :1   | 80 :1 | 80 :1 | 260 :1 |
| Input torque (Nm)  | 6     | 6     | 6       | 7.5   | 7.5   | 12.5    | 20    | 20    | 65     |
| Output torque (Nm) | 170   | 170   | 170     | 700   | 700   | 1200    | 2500  | 2500  | 2500   |

### STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- Designing according to API 609
- DIRECTIVE 2014/68/EU: For liquids and gas of Group 1
  - DN32-50: Risk Category I, CE marking
  - DN65-200: Risk Category II, CE 0035 marking
  - DN250-300: Risk Category III, CE 0035 marking
  - DN350: Risk Category II, CE 0035 marking
  - DN400-500: Risk Category III, CE 0035 marking
- Certificate 3.1 on request
- Pressure tests according to API 598, table 6
- Length according to ISO 5752 series 20, EN 558 series 20 ( NF 29305 )
- ISO 5211 mounting pad
- Between flanges according to EN 1092-1 PN6-PN10/16 and ASME B16.5 Class 150 (PN20)
- Valves according to LR Rules and Regulation for the classification of Ships, July 2018 (Type Approval Certificate) **Marine LLOYD'S REGISTER**. Marine and offshore subject to the valves complying LR Rules and Regulations for the particular services.
- API 607 - 2016
- ISO 19921:2005
- GB/T 22218 - 2008