

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

Resilient seat gate valve full and total bore for water distribution.  
Sliding pad to facilitating the wedge movement up to DN200.  
3 NBR O ring on stem and NBR bonnet gasket.  
Possibility to change stem gasket under pressure from DN80 to DN600

**EN 1074**

**Certificate**

**3.1**



**Size :** DN40 to DN600  
**Connection :** Flanges PN10/16  
**Min Temperature :** -10°C  
**Max Temperature :** +70°C  
**Max Pressure :** 16 Bars up to DN400, 10 bars over  
**Specifications :** Non rising stem  
Clockwise to close (CTC)  
Full and total bore

**Materials :** Ductile iron body EN GJS-500-7

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

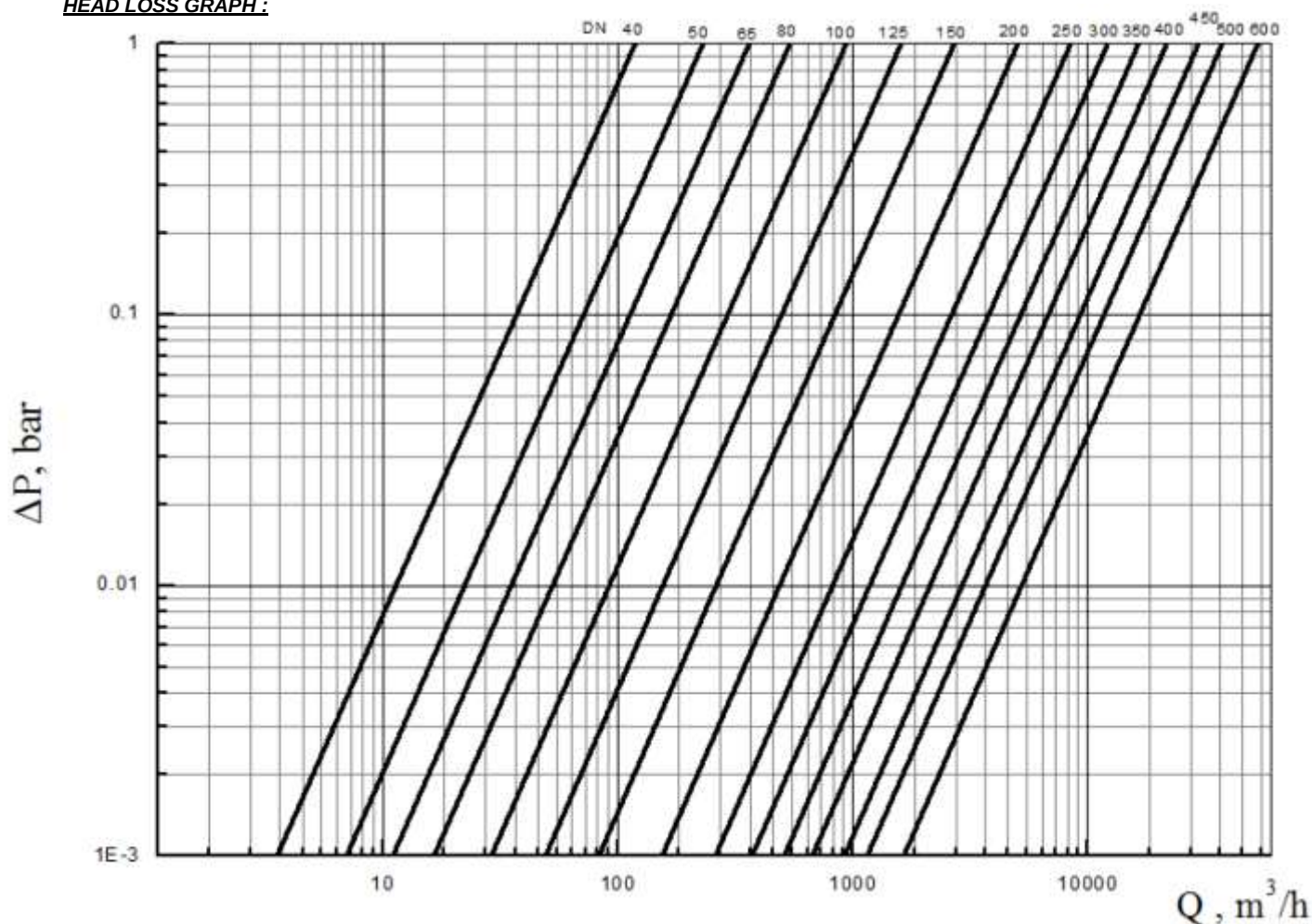
**SPECIFICATIONS :**

- Full and total bore
- Stainless steel non rising stem
- Clockwise to close
- Sliding pad ( to facilitating the wedge movement ) up to DN200
- Ductile iron wedge EPDM coated
- No retention area
- Heel positioning
- NBR bonnet gasket
- Screws bonnet protected
- 3 NBR O ring on stem
- Possibility to change stem gasket under pressure from DN80 to 600
- Epoxy painting RAL 5005 color 250 µm thickness GSK certified
- Dust-coat on stem
- PN10/16 flanges R.F.
- With square drive nut

**USE :**

- For water distribution
- Min and max Temperature Ts : - 10°C to + 70°C
- Max pressure Ps : 16 bars for PN16 flanged valves up to DN400
- Max pressure Ps : 10 bars for PN10 flanged valves from DN200 to 600

**HEAD LOSS GRAPH :**



**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**
**FLOW COEFFICIENT Kvs ( M3 / h ) :**

| DN           | 40  | 50  | 65  | 80  | 100 | 125  | 150  | 200  |
|--------------|-----|-----|-----|-----|-----|------|------|------|
| Kvs ( m3/h ) | 118 | 229 | 360 | 537 | 933 | 1595 | 2685 | 5004 |

| DN           | 250  | 300   | 350   | 400   | 450   | 500   | 600   |
|--------------|------|-------|-------|-------|-------|-------|-------|
| Kvs ( m3/h ) | 8393 | 12072 | 16348 | 21528 | 29372 | 37117 | 52626 |

**HEAD LOSS CALCULATION FOR WATER :**

$$\Delta p = ( Q / Kvs )^2$$

Q : flow in m³/h

Δp : Head loss in bar

**TORQUE VALUE ( in Nm without safety coefficient ) :**

| DN            | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|---------------|----|----|----|----|-----|-----|-----|-----|-----|-----|
| Torque ( Nm ) | 15 | 20 | 20 | 30 | 40  | 40  | 75  | 125 | 175 | 200 |

| DN            | 350 | 400 | 450 | 500 | 600 |
|---------------|-----|-----|-----|-----|-----|
| Torque ( Nm ) | 325 | 350 | 430 | 460 | 480 |

**NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :**

| DN               | 40 | 50   | 65    | 80   | 100  | 125  | 150 | 200 | 250   | 300   |
|------------------|----|------|-------|------|------|------|-----|-----|-------|-------|
| Number of cycles | 13 | 14.5 | 18.75 | 21.5 | 21.5 | 24.5 | 30  | 34  | 45.25 | 49.75 |

| DN               | 350 | 400 | 450 | 500 | 600 |
|------------------|-----|-----|-----|-----|-----|
| Number of cycles | 55  | 61  | 52  | 57  | 66  |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**RANGE :**

- Ductile iron body flanged R.F. PN10/16 with square drive nut and ductile iron wedge EPDM coated **Ref. 184** from DN 40 to 600

**ACCESSORIES :**



- Possible with handwheel ( option ) **Ref. 9801594-9801598** from DN40 to DN400



- Stem extension 1 meter long **Ref. 9802020** from DN50 to DN300 and **Ref. 9802029** from DN350 to DN400

- Stem extension 1,25 meter long **Ref. 9802031** from DN50 to DN300 and **Ref. 9802040** from DN350 to DN400

- Stem extension 1,5 meter long **Ref. 9802042** from DN50 to DN300 and **Ref. 9802051** from DN350 to DN400



- Stem extension 1,3 to 1,8 meter long **Ref. 9802060** from DN50 to DN200

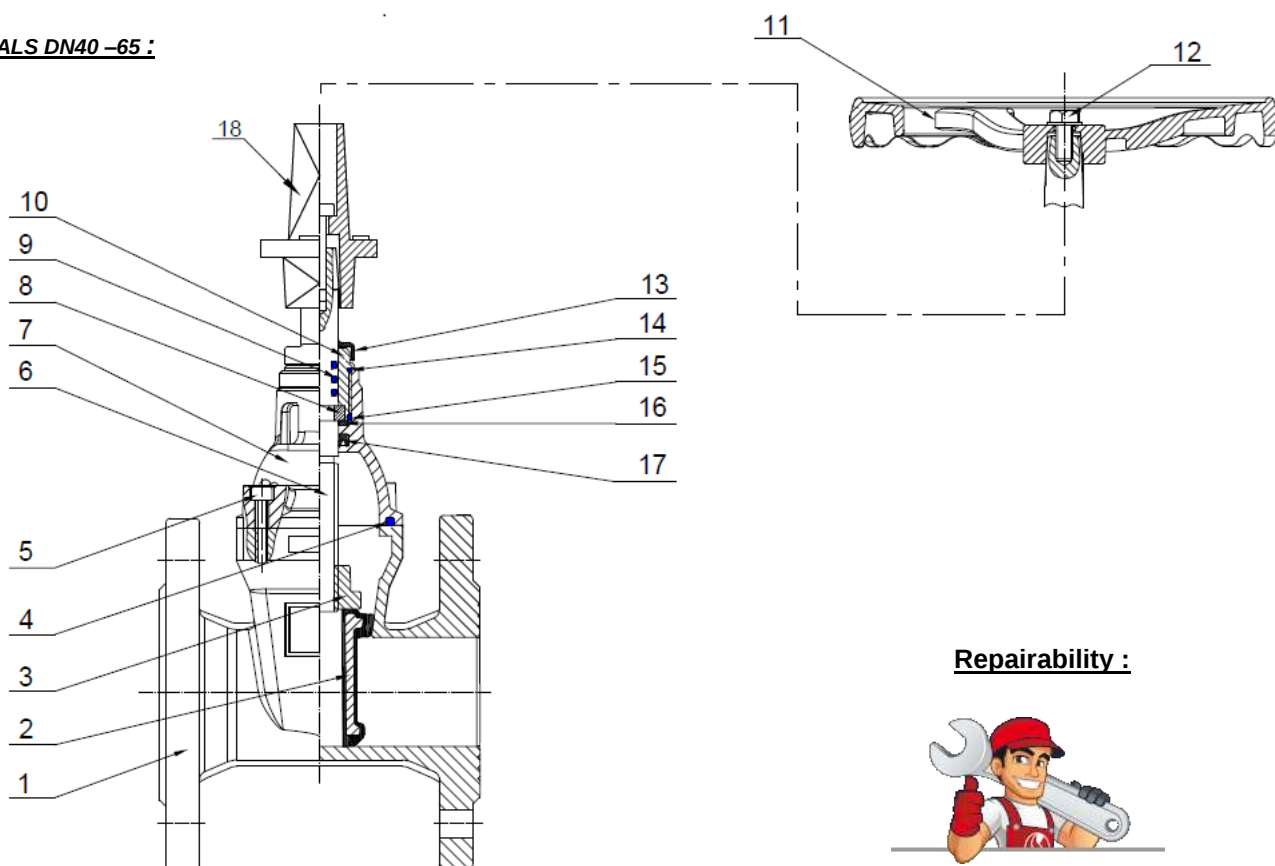
- Stem extension 2 to 2,5 meter long **Ref. 9802070** from DN50 to DN200



- Tee key
  - 1 meter long square 35 mm **Ref.9802080** from DN50 to DN300
  - 1.8 meter long square 35 mm **Ref.9802081** from DN50 to DN300
  - 1 meter long square 35 mm **Ref.9802082** from DN350 to DN400

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**MATERIALS DN40 -65 :**



**Repairability :**

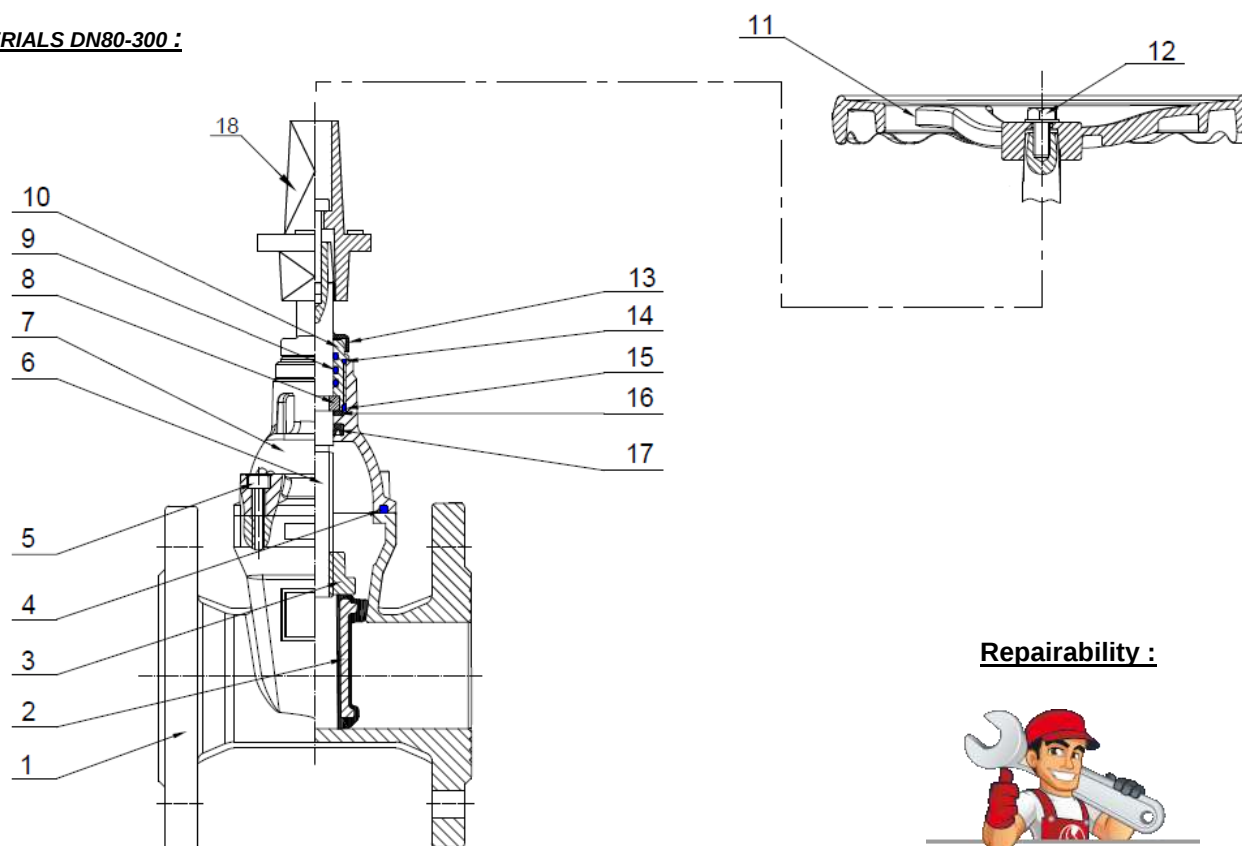


| Item | Designation       | Materials                             |
|------|-------------------|---------------------------------------|
| 1    | Body              | Ductile iron EN GJS-500-7             |
| 2    | Wedge             | Ductile iron EN GJS-500-7 EPDM coated |
| 3    | Stem nut          | Brass CuZn39Pb2                       |
| 4    | Bonnet gasket     | NBR                                   |
| 5    | Bonnet screw      | C35                                   |
| 6    | Stem              | SS 420                                |
| 7    | Bonnet            | Ductile iron EN GJS-500-7             |
| 8    | Holding ring      | Brass CuZn39Pb2                       |
| 9    | Stem O ring       | NBR                                   |
| 10   | Nut               | Brass CuZn39Pb2                       |
| 11   | Handwheel         | Ductile iron EN GJS-500-7             |
| 12   | Handwheel screw   | SS 304                                |
| 13   | Dust-coat         | NBR                                   |
| 14   | Stem O ring       | NBR                                   |
| 15   | Stem O ring       | NBR                                   |
| 16   | Ring              | Nylon 66                              |
| 17   | Auto sealing ring | NBR                                   |
| 18   | Square drive nut  | Ductile iron EN GJS-500-7             |

| *Gaskets refs |                   |                |
|---------------|-------------------|----------------|
| DN (mm)       | Bonnet gasket (4) | Dust-coat (13) |
| 40            | 9801260           | 9802123        |
| 50            | 9801261           |                |
| 65            | 9802162           |                |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**MATERIALS DN80-300 :**



**Repairability :**

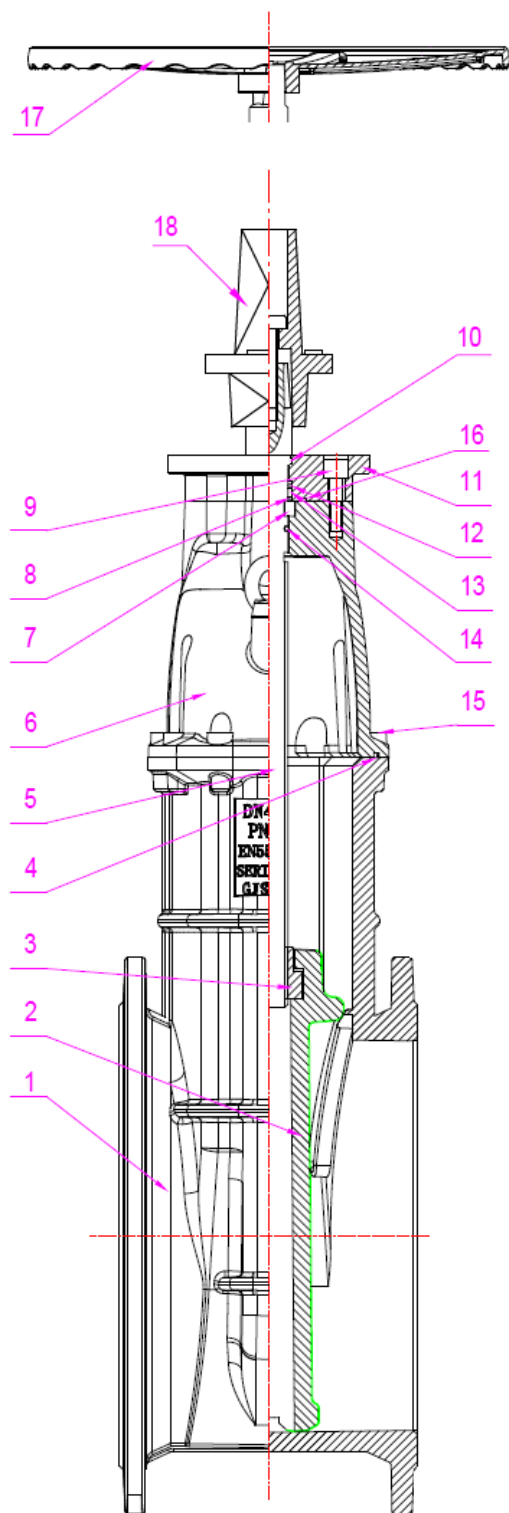


| Item | Designation       | Materials                             |
|------|-------------------|---------------------------------------|
| 1    | Body              | Ductile iron EN GJS-500-7             |
| 2    | Wedge             | Ductile iron EN GJS-500-7 EPDM coated |
| 3    | Stem nut          | Brass CuZn39Pb2                       |
| 4    | Bonnet gasket     | NBR                                   |
| 5    | Bonnet screw      | C35                                   |
| 6    | Stem              | SS 420                                |
| 7    | Bonnet            | Ductile iron EN GJS-500-7             |
| 8    | Holding ring      | Brass CuZn39Pb2                       |
| 9    | Stem O ring       | NBR                                   |
| 10   | Nut               | Brass CuZn39Pb2                       |
| 11   | Handwheel         | Ductile iron EN GJS-500-7             |
| 12   | Handwheel screw   | SS 304                                |
| 13   | Dust-coat         | NBR                                   |
| 14   | Stem O ring       | NBR                                   |
| 15   | Stem O ring       | NBR                                   |
| 16   | Ring              | Nylon 66                              |
| 17   | Auto sealing ring | NBR                                   |
| 18   | Square drive nut  | Ductile iron EN GJS-500-7             |

| *Gaskets refs |                   |                |
|---------------|-------------------|----------------|
| DN (mm)       | Bonnet gasket (4) | Dust-coat (13) |
| 80            | 9802163           | 9802124        |
| 100           | 9802164           | 9802125        |
| 125           | 9802165           |                |
| 150           | 9802166           |                |
| 200           | 9802167           | 9802126        |
| 250           | 9802168           | 9802127        |
| 300           | 9802169           | 9802128        |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

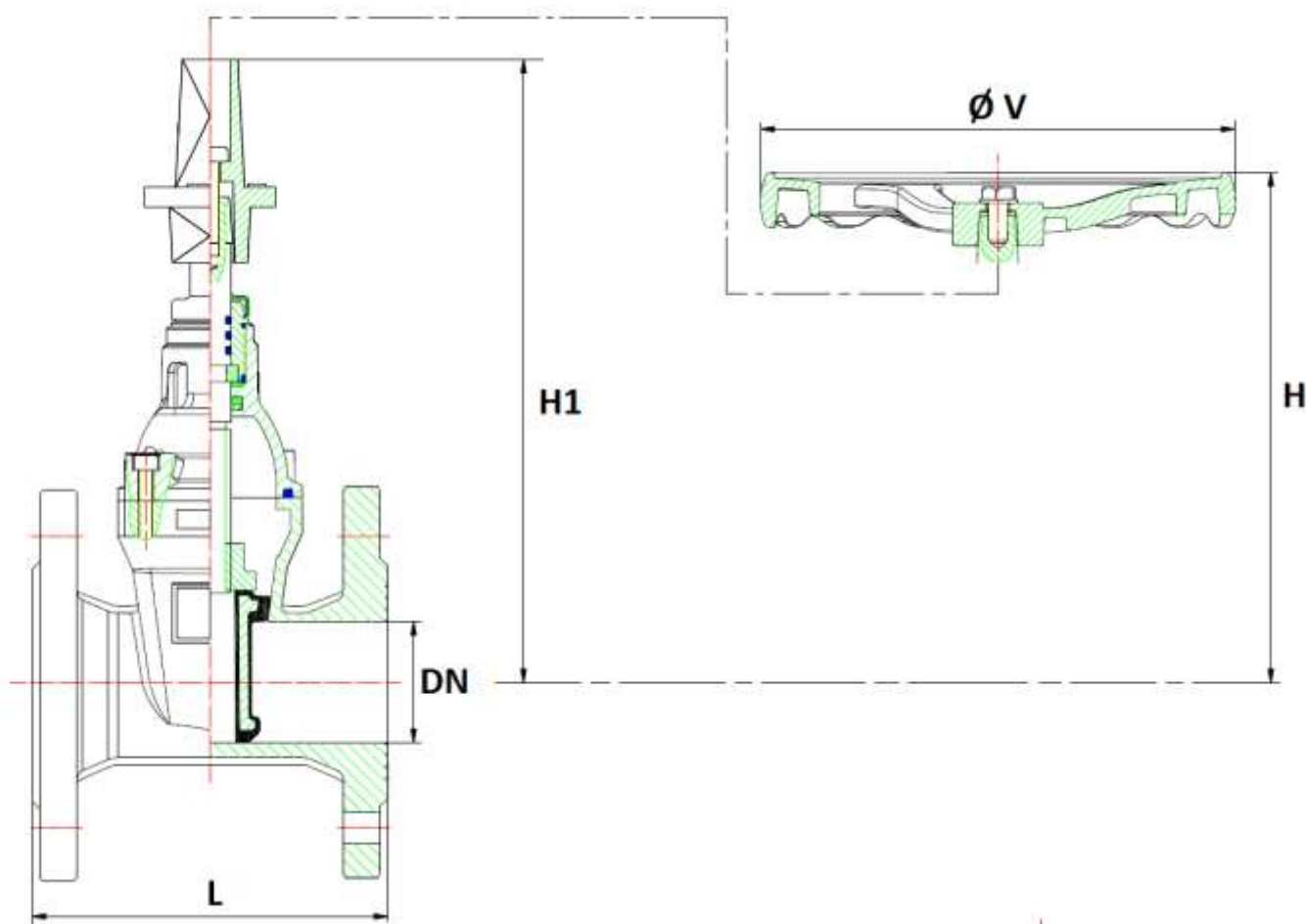
**MATERIALS DN350 – 600 :**



| Item | Designation      | Materials                        |
|------|------------------|----------------------------------|
| 1    | Body             | Ductile iron EN GJS-500-7        |
| 2    | Wedge            | Ductile iron EN GJS-500-7 + EPDM |
| 3    | Stem nut         | Brass CuZn39Pb2                  |
| 4    | Bonnet gasket    | NBR                              |
| 5    | Stem             | SS 420                           |
| 6    | Bonnet           | Ductile iron EN GJS-500-7        |
| 7    | Holding ring     | Brass CuZn39Pb2                  |
| 8    | O ring           | NBR                              |
| 9    | Screw            | RSt37-2                          |
| 10   | Dust-coat        | NBR                              |
| 11   | Gland            | Ductile iron EN GJS-500-7        |
| 12   | O ring           | NBR                              |
| 13   | Ring             | Nylon 66                         |
| 14   | O ring           | NBR                              |
| 15   | Bonnet bolt      | Steel C35                        |
| 16   | O ring           | NBR                              |
| 17   | Handwheel        | Ductile iron EN GJS-500-7        |
| 18   | Square drive nut | Ductile iron EN GJS-500-7        |

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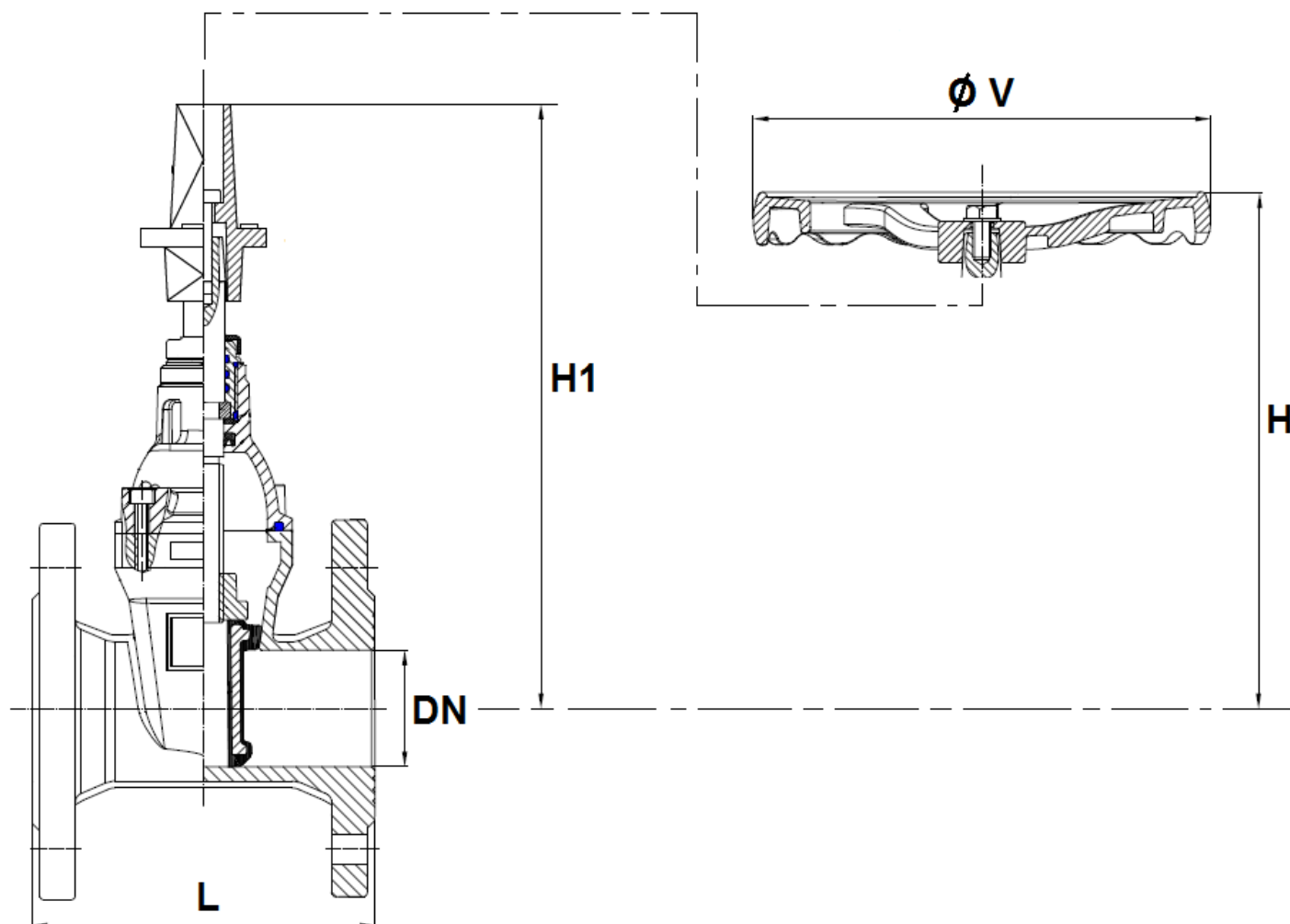
SIZE DN40 - 65 ( in mm ) :



| DN             | 40     | 50     | 65     |
|----------------|--------|--------|--------|
| L              | 240    | 250    | 270    |
| H              | 190    | 215    | 235    |
| H1             | 260    | 285    | 300    |
| Ø V            | 200    | 200    | 200    |
| Weight (in Kg) | 7.80   | 9.48   | 13.10  |
| Ref.           | 184040 | 184050 | 184065 |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

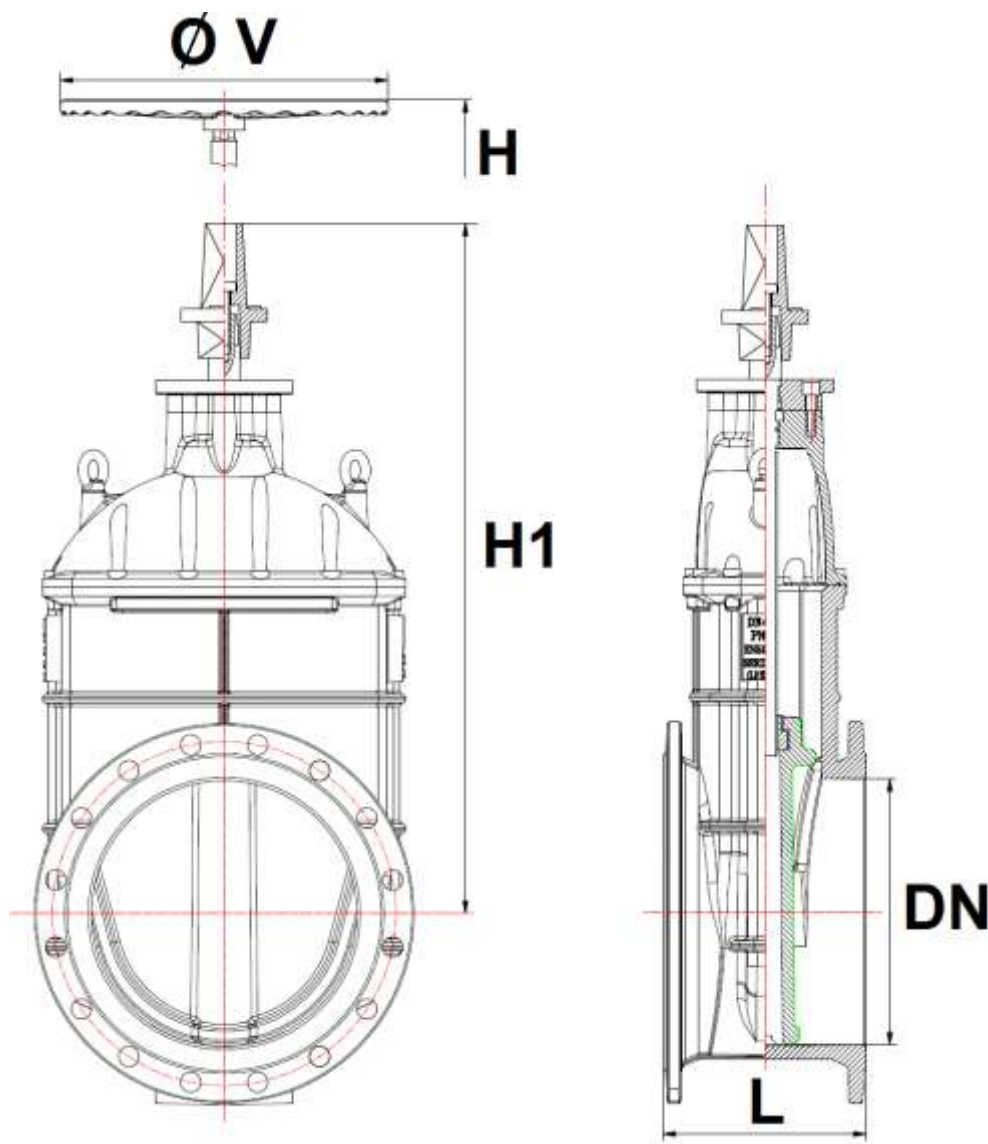
SIZE DN80-300 ( in mm ) :



| DN             | 80     | 100    | 125    | 150    | 200    | 250    | 300    |
|----------------|--------|--------|--------|--------|--------|--------|--------|
| L              | 280    | 300    | 325    | 350    | 400    | 450    | 500    |
| H              | 265    | 315    | 350    | 385    | 485    | 600    | 680    |
| H1             | 320    | 390    | 430    | 470    | 560    | 680    | 770    |
| Ø V            | 254    | 254    | 315    | 315    | 315    | 406    | 406    |
| Weight (in Kg) | 15.30  | 20.50  | 24.70  | 35.90  | 61.20  | 98.90  | 134.90 |
| Ref.           | 184080 | 184100 | 184125 | 184150 | 184200 | 184250 | 184300 |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

SIZE DN350 - 600 ( in mm ) :



| DN             | 350    | 400    | 450    | 500    | 600    |
|----------------|--------|--------|--------|--------|--------|
| L              | 550    | 600    | 650    | 700    | 800    |
| H              | 810    | 890    | 1050   | 1230   | 1260   |
| H1             | 900    | 1000   | 1150   | 1330   | -      |
| $\emptyset V$  | 500    | 500    | 500    | 650    | 650    |
| Weight (in Kg) | 225.90 | 248.50 | 410    | 517.30 | 810    |
| Ref.           | 184350 | 184400 | 184450 | 184500 | 184600 |

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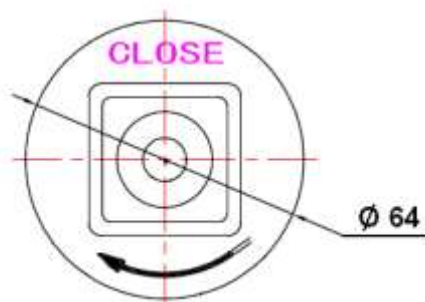
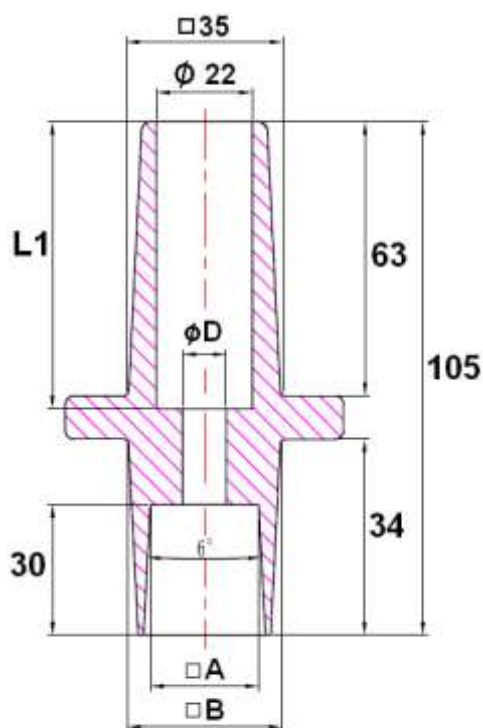
Date : 03/25

Rev.11

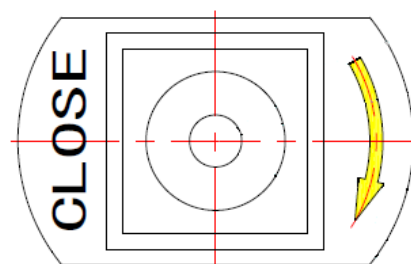
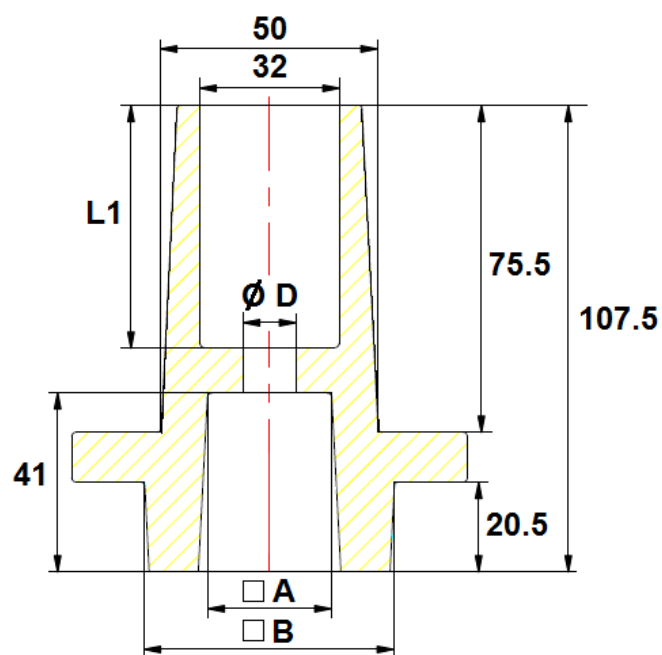
**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

SQUARE DRIVE NUT SIZE ( in mm ) :

**DN 40 – 300**



**DN 350 - 400**

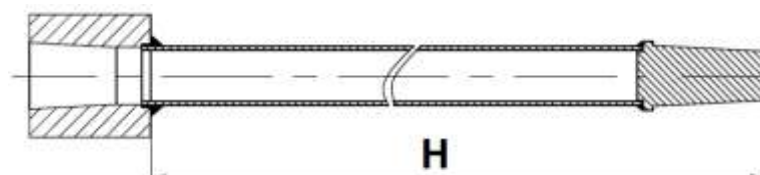


| DN            | 40      | 50      | 65      | 80      | 100     | 125     | 150     | 200     | 250     | 300     | 350     | 400     |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A             | 14      | 14      | 14      | 17      | 17      | 19      | 19      | 19      | 24      | 24      | 28.5    | 28.5    |
| B             | 34      | 34      | 34      | 34      | 34      | 36      | 36      | 36      | 42.5    | 42.5    | 57.5    | 57.5    |
| L1            | 66      | 66      | 66      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 56      | 56      |
| Ø D           | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 12      | 12      | 12      | 12      |
| Weight ( Kg ) | 0.7     | 0.7     | 0.7     | 0.6     | 0.6     | 0.6     | 0.6     | 0.6     | 0.7     | 0.7     | 0.96    | 0.96    |
| Ref.          | 9801831 | 9801831 | 9801831 | 9801832 | 9801832 | 9801833 | 9801833 | 9801833 | 9801834 | 9801834 | 9801838 | 9801838 |

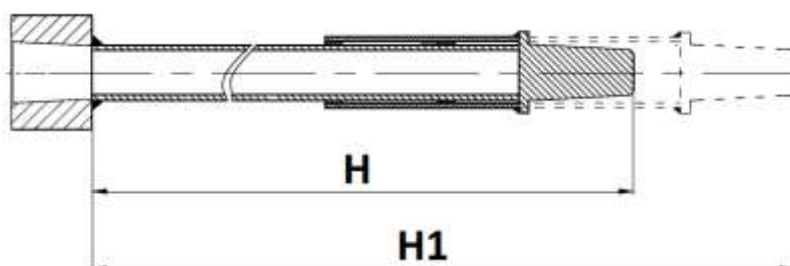
**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**STEM EXTENSION SIZE DN50-400 ( in mm ) :**

**FIXED TYPE**



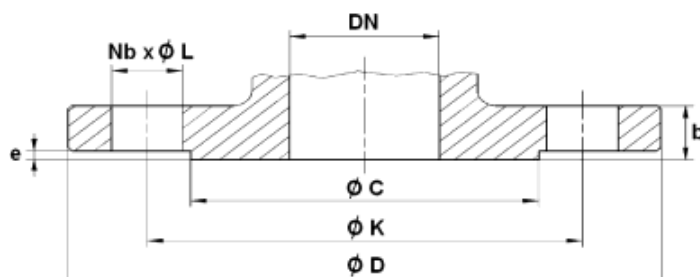
**TELESCOPIC TYPE**



| Ref.    | DN      | H    | H1   | Weight (Kg) |
|---------|---------|------|------|-------------|
| 9802020 | 50-300  | 1000 | -    | 3.7         |
| 9802031 | 50-300  | 1250 | -    | 4.2         |
| 9802042 | 50-300  | 1500 | -    | 4.5         |
| 9802060 | 50-200  | 1300 | 1800 | 9.6         |
| 9802070 | 50-200  | 2000 | 2500 | 11.8        |
| 9802029 | 350-400 | 1000 | -    | 5.7         |
| 9802040 | 350-400 | 1250 | -    | 6.5         |
| 9802051 | 350-400 | 1500 | -    | 7.4         |

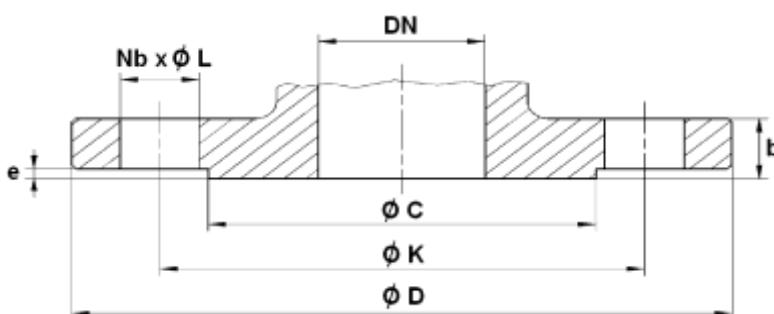
**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**SIZE PN10 FLANGES ( in mm ) :**



| PN       | PN10/16 |        |        |        |        |        |        | PN10   |         |         |         |         |         |         |         |
|----------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| DN       | 40      | 50     | 65     | 80     | 100    | 125    | 150    | 200    | 250     | 300     | 350     | 400     | 450     | 500     | 600     |
| Ø C      | 84      | 99     | 118    | 132    | 156    | 184    | 211    | 266    | 319     | 370     | 429     | 480     | 530     | 582     | 682     |
| Ø D      | 150     | 165    | 185    | 200    | 220    | 250    | 285    | 340    | 405     | 460     | 520     | 580     | 640     | 715     | 840     |
| Ø K      | 110     | 125    | 145    | 160    | 180    | 210    | 240    | 295    | 350     | 400     | 460     | 515     | 565     | 620     | 725     |
| Nb x Ø L | 4 x 19  | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 8 x 23 | 12 x 23 | 12 x 23 | 16 x 23 | 16 x 28 | 20 x 28 | 20 x 28 | 20 x 31 |
| b        | 19      | 19     | 19     | 19     | 19     | 19     | 19     | 20     | 22      | 24.5    | 26.5    | 28      | 30      | 31.5    | 36      |
| e        | 3       | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3       | 4       | 4       | 4       | 4       | 4       | 5       |
| Ref.     | 184040  | 184050 | 184065 | 184080 | 184100 | 184125 | 184150 | 184200 | 184250  | 184300  | 184350  | 184400  | 184450  | 184500  | 184600  |

**SIZE PN16 FLANGES ( in mm ) :**



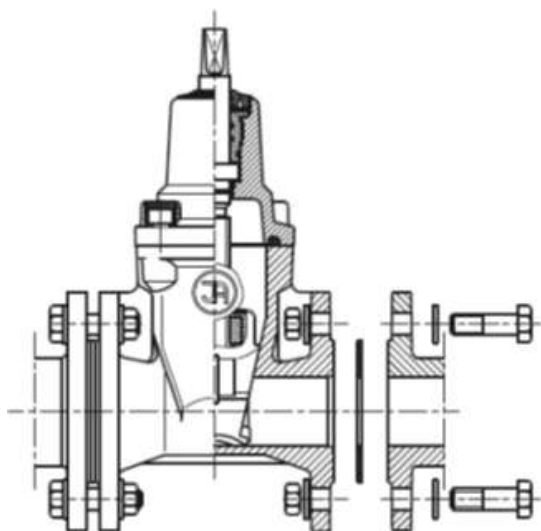
| PN       | PN16    |         |         |         |         |
|----------|---------|---------|---------|---------|---------|
| DN       | 200     | 250     | 300     | 350     | 400     |
| Ø C      | 266     | 319     | 370     | 429     | 480     |
| Ø D      | 340     | 405     | 460     | 520     | 580     |
| Ø K      | 295     | 355     | 410     | 470     | 525     |
| Nb x Ø L | 12 x 23 | 12 x 28 | 12 x 28 | 16 x 28 | 16 x 31 |
| b        | 20      | 22      | 24.5    | 26.5    | 28      |
| e        | 3       | 3       | 4       | 4       | 4       |
| Ref.     | 184201  | 184251  | 184301  | 184351  | 184401  |

**RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 CTC EPDM**

**STANDARDS :**

- Manufacturer certified ISO 9001 :2015 and ISO 14001 : 2015
- Designing according to DIN EN 1171
- Pressure tests according to EN 12266-1, Rate A
- DIRECTIVE 2014/68/EU : For liquids of Group 2
  - Products excluded (article 1, § 2b)
- Certificate 3.1 on request
- Length according to EN 558 series 15 ( DIN 3202 F5 )
- Flanges R.F. according to EN 1092-2 PN10/16
- **GSK** Certified Epoxy Powder Coating

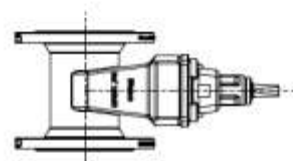
**INSTALLATION POSITIONS :**



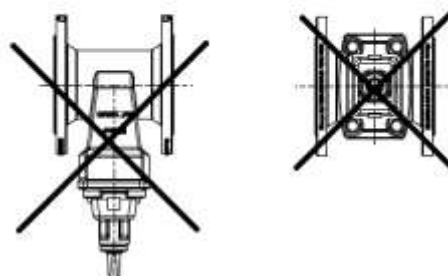
**Recommended :**



**Acceptable :**



**Non acceptable :**



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