

## Gemini Valve B.V.

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**GV5151AIT**



### 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

2 pieces split body ball valve JC with full bore for Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air.

Ball valve with firesafe certificate ISO 10497 and API 607 to reduce risks in case of fire.

Fugitive emission according to EN 15848-1 :2006 B Class and TA LUFT for an excellent tightness on the stem and to prevent external leakage.

PTFE seat for a temperature up to +230°C.

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22 thanks to the double antistatic device.

Handling possible with locking device, gearbox, oval handwheel or stem extension.

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



**Certificate**  
**3.1**



**JC**  
**VALVES**



**NACE MR01-75**

**Size :** DN15 to DN300 ( NPS 1/2" to 12" )

**Connection :** Flanges Class 150 PN20 RF

**Min Temperature :** -29°C

**Max Temperature :** +230°C

**Max Pressure :** 20 Bars

**Specifications :** PTFE seat

ISO 5211 mounting pad

Anti blow-out stem, full bore

Fire safe ISO 10497 : 2004, API 607 5th, BS

6755 Part 2 and API 6FA

**Materials :** Carbon steel ASTM A216 WCB

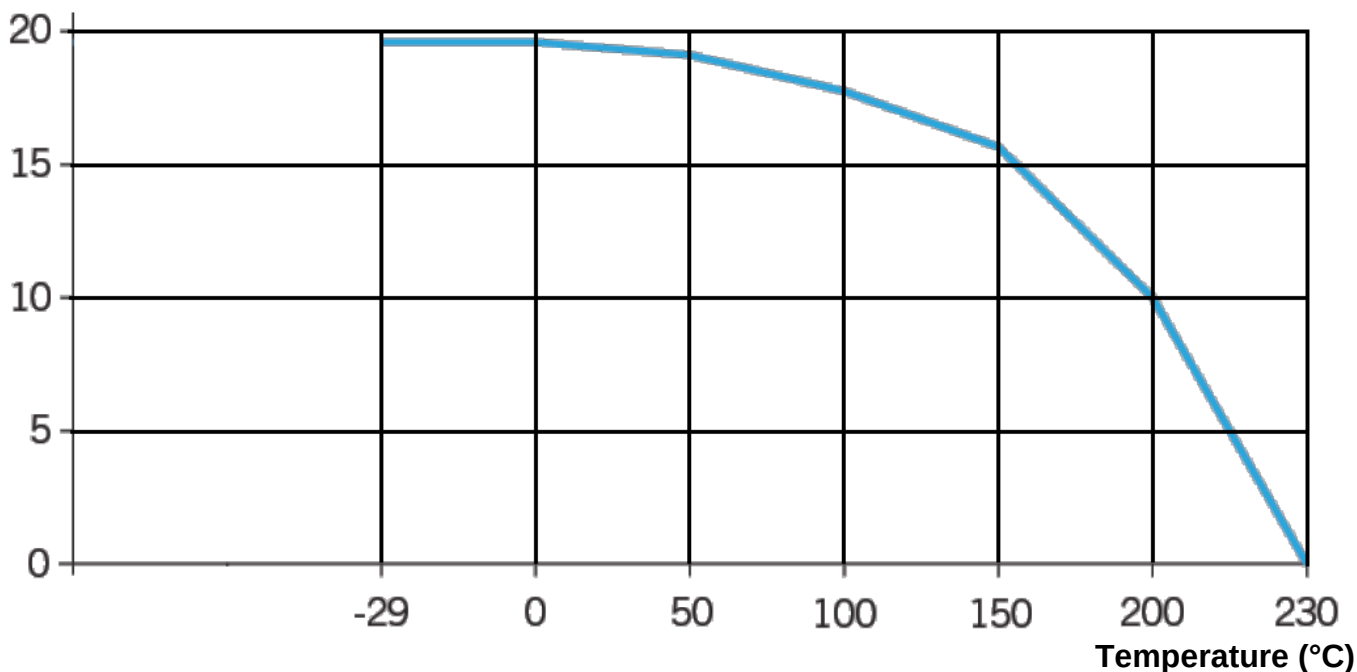
\*the installation defects and wear defects are not covered by the guarantee

**2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE  
LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT****SPECIFICATIONS :**

- Full bore
- Anti blow-out stem
- PTFE seat
- Locking device on request
- ISO 5211 mounting pad
- 2 pieces type ( Split body )
- Class 150 PN20 Flanges R.F.
- Antistatic device
- Fire safe ISO 10497 : 2004, API 607 5th, BS 6755 Part.2 and API 6FA
- Fugitive emissions EN 15848-1 : 2006 and TA LUFT VDI 2440
- Graphite packing + FKM O ring on stem
- With exhaust hole in the ball ( located in the top of the ball to avoid overpressure in it )
- Trunnion mounted hollow ball from DN250 (10") to DN300 (12")
- Painting color RAL 5009, 15-50 $\mu$  thickness

**USE :**

- Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air
- Min and max Temperature Ts : -29°C to + 230°C
- Max Pressure Ps : 20 bars ( see graph )
- Vacuum 10<sup>-2</sup> torr
- Compressed air (ambient temperature) : 16 bars maximum
- Steam : 12 bars maximum

**PRESSURE / TEMPERATURE GRAPH ( STEAM EXCLUDED ) :****Pressure (Bar)**

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

### FLOW COEFFICIENT Kvs ( in m3 / h ) :

| NPS ( " )      | 1/2" | 3/4" | 1" | 1"1/2 | 2"  | 2"1/2 | 3"   | 4"   | 6"   | 8"    | 10"   |
|----------------|------|------|----|-------|-----|-------|------|------|------|-------|-------|
| DN             | 15   | 20   | 25 | 40    | 50  | 80    | 100  | 150  | 200  | 250   | 300   |
| Kvs ( m3 / h ) | 20   | 40   | 75 | 170   | 270 | 1000  | 1650 | 4200 | 9000 | 15000 | 20800 |

### TORQUE VALUE ( in Nm without safety coefficient ) at 20 bars :

| NPS (") | DN (mm) | BTO* | RTO | ETO | BTC  | RTC | ETC* | MAST Stem<br>A479 F316 | MAST Stem<br>A182 F51 |
|---------|---------|------|-----|-----|------|-----|------|------------------------|-----------------------|
| 1/2"    | 15      | 9    | 5   | 5   | 7    | 5   | 7    | 26                     | 57                    |
| 3/4"    | 20      | 13   | 7   | 8   | 10   | 7   | 10   | 26                     | 57                    |
| 1"      | 25      | 17   | 9   | 10  | 13   | 9   | 14   | 26                     | 57                    |
| 1"1/2   | 40      | 30   | 15  | 18  | 23   | 15  | 24   | 85                     | 185                   |
| 2"      | 50      | 43   | 22  | 26  | 32   | 22  | 34   | 85                     | 185                   |
| 2"1/2   | 65      | 66   | 33  | 40  | 50   | 33  | 53   | 176                    | 386                   |
| 3"      | 80      | 95   | 48  | 57  | 71   | 48  | 76   | 246                    | 539                   |
| 4"      | 100     | 150  | 75  | 90  | 113  | 75  | 120  | 305                    | 668                   |
| 6"      | 150     | 326  | 163 | 196 | 245  | 163 | 261  | 974                    | 2131                  |
| 8"      | 200     | 729  | 365 | 437 | 547  | 365 | 583  | 1387                   | 3034                  |
| 10"     | 250     | 1280 | 640 | 768 | 960  | 640 | 1024 | 1387                   | 3034                  |
| 12"     | 300     | 1500 | 750 | 900 | 1125 | 750 | 1200 | 2541                   | 5559                  |

### RANGE :

- Carbon steel body ball valve with handle flanged Class 150 PN20 **Ref. 515AIT** from DN 15 to DN 150 (NPS 1/2" to 6" )
- Carbon steel body ball valve with free stem Class 150 PN20 **Ref. 515AIT** DN200 (NPS 8")
- Carbon steel body ball valve with free stem Class 150 PN20 **Ref. 1515AIT** from DN250 to 300 (NPS 10" to 12")

### CONNECTION :

- Class 150 PN20 R.F. Flanges

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

### ACCESSORIES :



- Reinforced locking device

| DN (mm)   | 15      | 20      | 25      | 32      | 40      | 50      | 65      | 80      | 100     | 125     | 150 | 200 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|
| NPS ( " ) | 1/2"    | 3/4"    | 1"      | 1"1/4   | 1"1/2   | 2"      | 2"1/2   | 3"      | 4"      | 5"      | 6"  | 8"  |
| Ref.      | 9830120 | 9830121 | 9830122 | 9830123 | 9830124 | 9830125 | 9830126 | 9830127 | 9830128 | 9830129 |     |     |

- Stainless steel handle

| DN (mm)   | 15      | 20      | 25      | 32      | 40      | 50      | 65      | 80      | 100 | 125 | 150 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|
| NPS ( " ) | 1/2"    | 3/4"    | 1"      | 1"1/4   | 1"1/2   | 2"      | 2"1/2   | 3"      | 4"  | 5"  | 6"  |
| Ref.      | 9830513 | 9830514 | 9830515 | 9830516 | 9830517 | 9830518 | 9830519 | 9830520 |     |     |     |

- Stainless steel oval handwheel

| DN (mm)   | 15      | 20      | 25      | 32      | 40    | 50 |
|-----------|---------|---------|---------|---------|-------|----|
| NPS ( " ) | 1/2"    | 3/4"    | 1"      | 1"1/4   | 1"1/2 | 2" |
| Ref.      | 9830575 | 9830578 | 9830576 | 9830577 |       |    |

- Gearbox

| DN (mm)   | 125     | 150     | 200     | 250     |
|-----------|---------|---------|---------|---------|
| NPS ( " ) | 5"      | 6"      | 8"      | 10"     |
| Ref.      | 9830598 | 9830592 | 9830593 | 9830596 |

- Single Stainless steel stem extension 100 mm

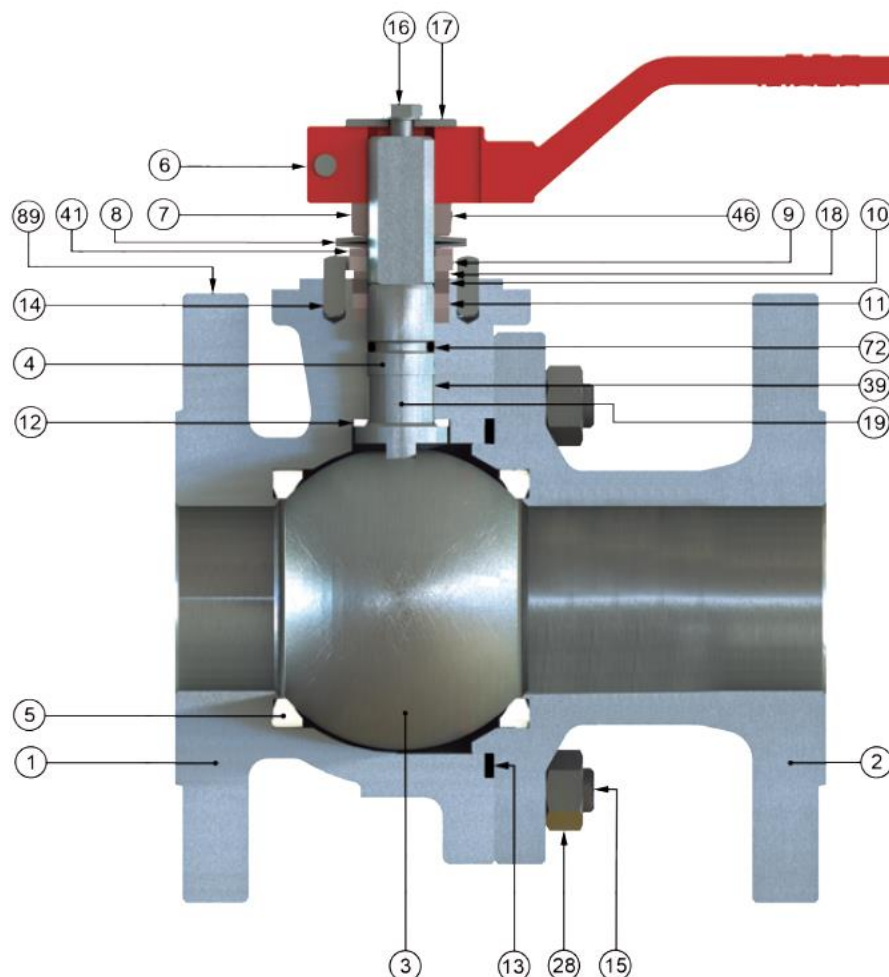
| DN (mm)   | 15      | 20      | 25      | 32      | 40      | 50      | 65      | 80      | 100 | 125 | 150 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|
| NPS ( " ) | 1/2"    | 3/4"    | 1"      | 1"1/4   | 1"1/2   | 2"      | 2"1/2   | 3"      | 4"  | 5"  | 6"  |
| Ref. JC   | 9810615 | 9810616 | 9810617 | 9810618 | 9810619 | 9810620 | 9810621 | 9810622 |     |     |     |

- Stainless steel stem extension 100 mm with ISO plate

| DN (mm)   | 15           | 20        | 25        | 32           | 40        | 50        | 65        | 80         | 100        | 125        | 150 | 200 |
|-----------|--------------|-----------|-----------|--------------|-----------|-----------|-----------|------------|------------|------------|-----|-----|
| NPS ( " ) | 1/2"         | 3/4"      | 1"        | 1"1/4        | 1"1/2     | 2"        | 2"1/2     | 3"         | 4"         | 5"         | 6"  | 8"  |
| Ref. SF   | JCRISO015020 | JCRISO025 | JCRISO032 | JCRISO040050 | JCRISO065 | JCRISO080 | JCRISO100 | JCVSSBI125 | JCVSSBI150 | JCVSSBI200 |     |     |

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

**VALVE MATERIALS DN15-200 (NPS 1/2" to 8") :**



### Repairability :



| *Gaskets kit<br>(Item 5,11, 12, 13, 18, 46 and 72) |         |
|----------------------------------------------------|---------|
| DN15                                               | 9804600 |
| DN20                                               | 9804601 |
| DN25                                               | 9804602 |
| DN32                                               | 9804603 |
| DN40                                               | 9804604 |
| DN50                                               | 9804605 |
| DN65                                               | 9804606 |
| DN80                                               | 9804607 |
| DN100                                              | 9804608 |
| DN125                                              | 9804609 |
| DN150                                              | 9804610 |
| DN200                                              | 9804611 |

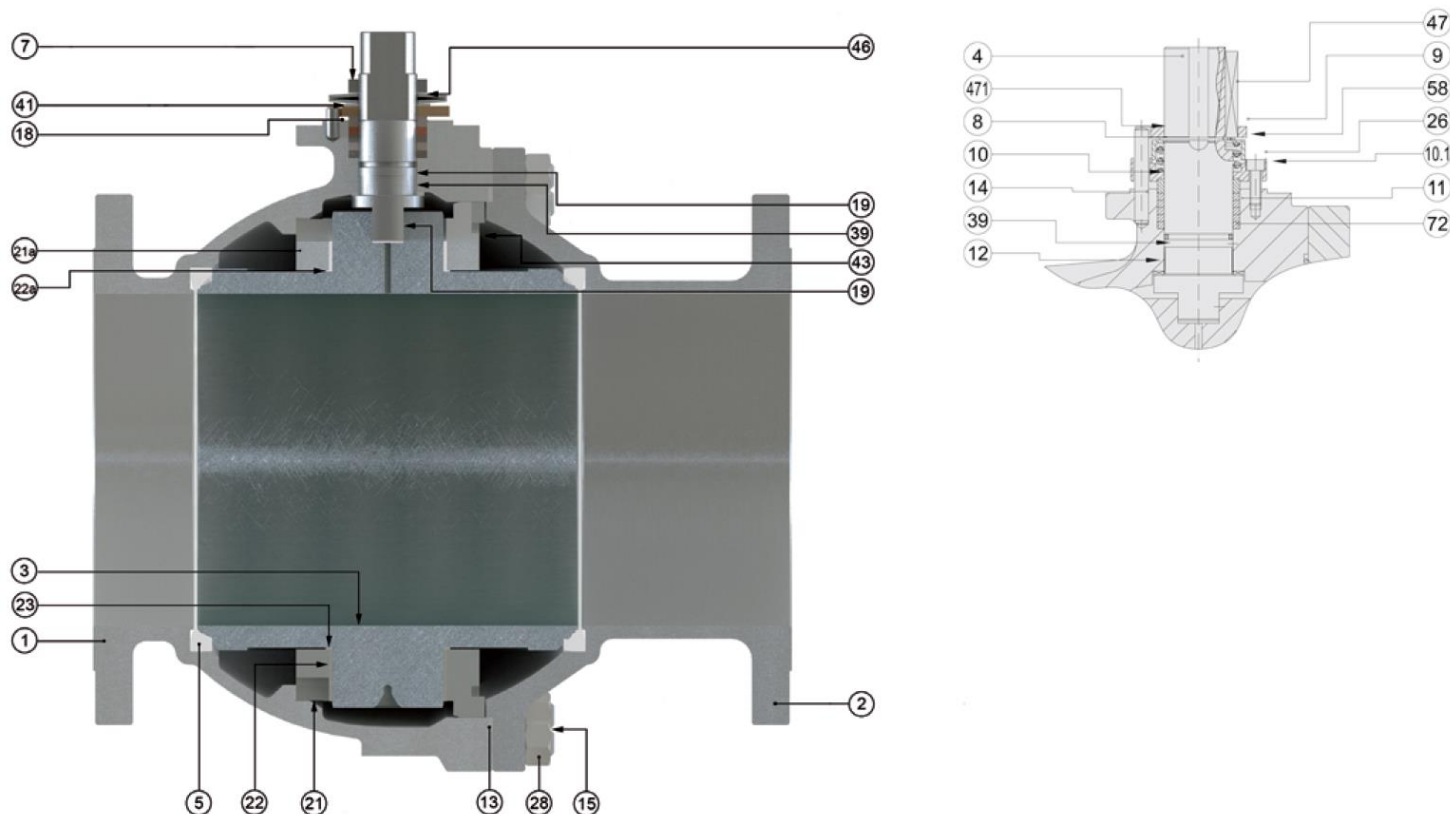
( \* : Included in gaskets kit )

| Item | Designation    | Materials                                |
|------|----------------|------------------------------------------|
| 1    | Body           | ASTM A216 WCB                            |
| 2    | Ends           |                                          |
| 3    | Ball DN15-25   | ASTM A479 Tp.316                         |
|      | Ball DN 32-200 | Inox ASTM A 351 CF8M                     |
| 4    | Stem           | ASTM A479 Tp.316 or Duplex ASTM A182 F51 |
| 5*   | Seat           | PTFE                                     |
| 6    | Handle         | Ductile iron                             |
| 7    | Packing nut    | Carbon Steel                             |
| 8    | Elastic ring   | Carbon Steel                             |
| 9    | Stop washer    | Carbon Steel                             |
| 10   | Packing gland  | AISI 303                                 |
| 11*  | Packing        | Graphite                                 |
| 12*  | Gasket         | PTFE filled with 25% glass               |

| Item | Designation             | Materials                   |
|------|-------------------------|-----------------------------|
| 13*  | Body spiral seat        | AISI 316L + PTFE + Graphite |
| 14   | Pin                     | Carbon Steel                |
| 15   | Screw (stud DN32-100)   | A193 Gr. B7M zinc dichr .   |
| 16   | Handle screw            | DIN 933 A2-70               |
| 17   | Washer                  | Zinc plated carbon steel    |
| 18*  | Thrust washer           | PTFE filled with 25% glass  |
| 19   | Antistatic device       | Stainless steel             |
| 28   | Nut (DN32-100)          | A 194 Gr. 2HM zinc dichr .  |
| 39   | Stem bushing (DN25-200) | PTFE filled with 25% glass  |
| 41   | Spacer (DN40-200)       | Carbon Steel                |
| 46*  | Washer                  | AISI 304                    |
| 72*  | O ring                  | FKM                         |
| 89   | ID plate                | Stainless steel             |

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

**VALVE MATERIALS DN 250-300 (NPS 10" to 12") :**



(\* : Included in gaskets kit)

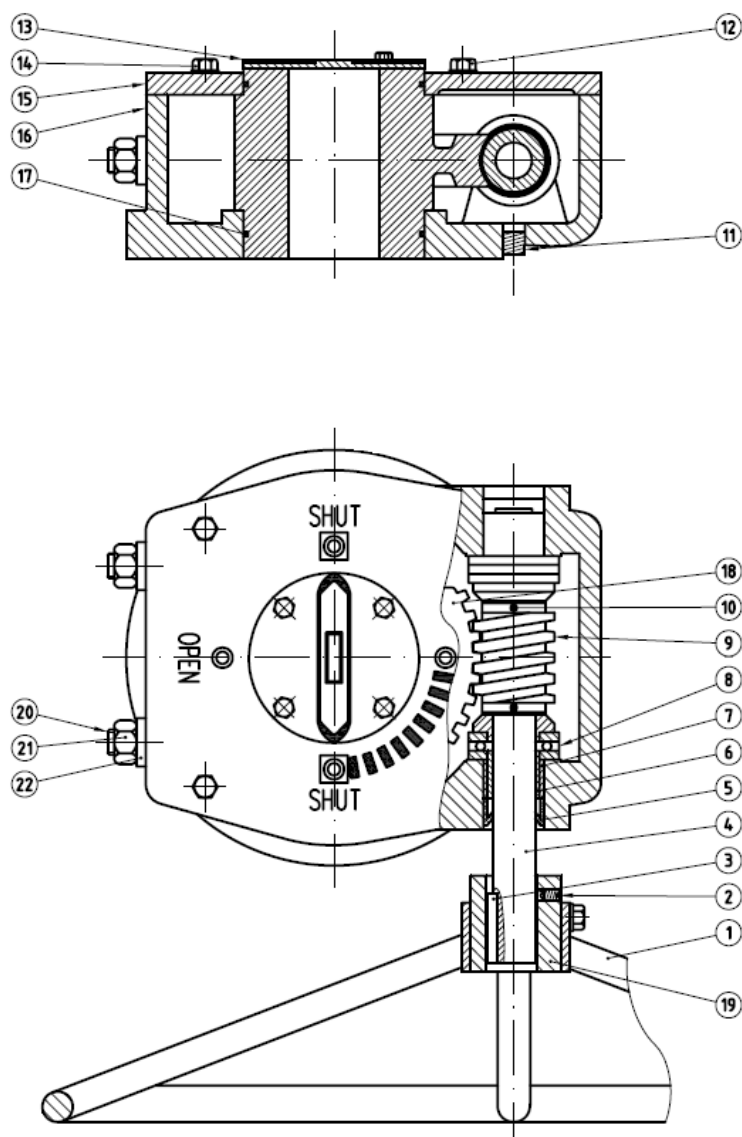
| Item | Designation    | Materials                                |
|------|----------------|------------------------------------------|
| 1    | Body           | ASTM A216 WCB                            |
| 2    | Ends           |                                          |
| 3    | Ball           | ASTM A 351 CF8M                          |
| 4    | Stem           | ASTM A479 Tp.316 or Duplex ASTM A182 F51 |
| 5*   | Seat           | PTFE                                     |
| 7    | Packing gland  | Ductile iron                             |
| 8    | Elastic washer | Zinc plated carbon steel                 |
| 9    | Pin            | Carbon steel                             |
| 10   | Gland          |                                          |
| 10.1 | Ring           | AISI 303                                 |
| 11*  | Packing        | PTFE                                     |
| 12*  | Gasket         | PTFE filled with 25% glass               |
| 13*  | Body seat      | AISI 316L + PTFE+ Graphite               |
| 14   | Stop pin       | Carbon steel                             |
| 15   | Stud           | A193 Gr. B7M                             |

| Item   | Designation          | Materials                  |
|--------|----------------------|----------------------------|
| 18*    | Bushing              | PTFE filled with 25% glass |
| 19     | Antistatic device    | Stainless steel            |
| 21/21a | Ball trunnion        | AISI 316                   |
| 22/22a | Trunnion bearing     | PTFE + 50% Stainless steel |
| 23     | Bearing              | PTFE                       |
| 26     | Bolt                 | DIN 912 8.8 zinc plated    |
| 28     | Nut (only for DN250) | A 194 Gr. 2HM              |
| 39     | Stem bushing         | PTFE + 50% Stainless steel |
| 41     | Spacer               | Carbon steel               |
| 43-47  | Key                  | AISI 316                   |
| 46*    | Locking washer       | AISI 304                   |
| 58     | Spring protection    | Carbon steel               |
| 72*    | O ring               | FKM                        |
| 89     | ID plate             | Stainless steel            |
| 471    | Retainer             | DIN 933 A2-70              |



## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

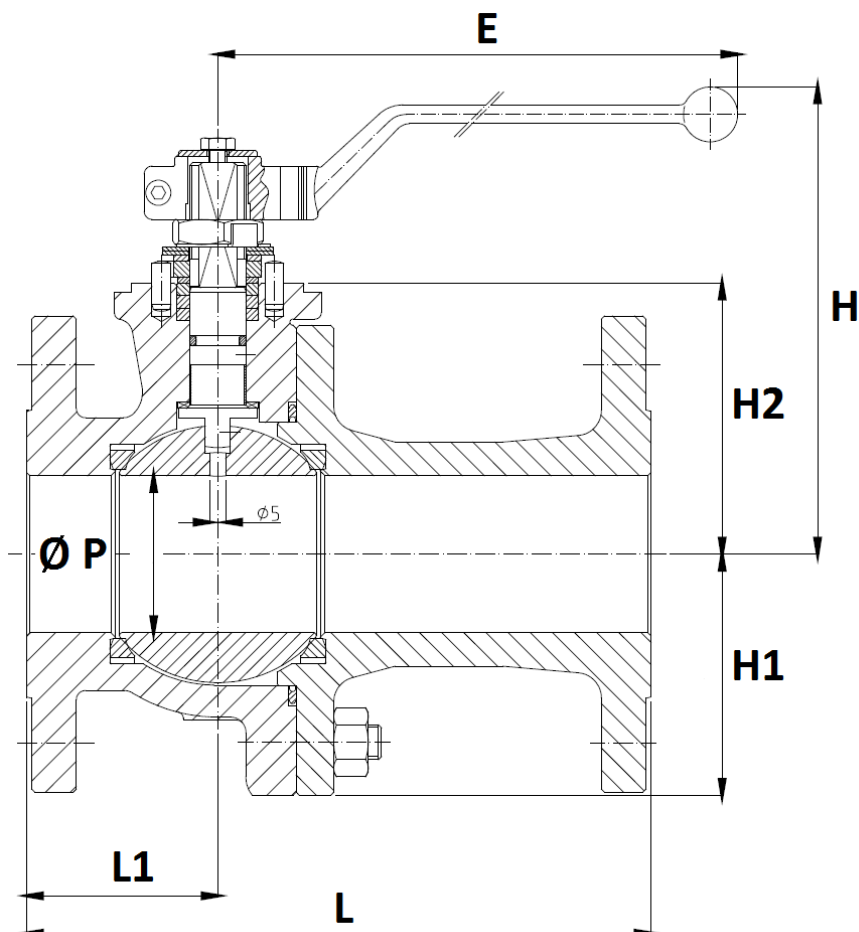
### GEARBOX MATERIALS :



| Item     | Designation             | Materials     |
|----------|-------------------------|---------------|
| 1        | Handwheel               | Carbon steel  |
| 2        | Screw                   |               |
| 3        | Stem key                |               |
| 4        | Input shaft             | AISI 1045     |
| 5        | Oil seal                | Rubber        |
| 6        | Bearing                 | Cu Base Alloy |
| 7        | Oil bearing             |               |
| 8        | Thrust bearing          | Carbon steel  |
| 9        | Worm                    | AISI 1045     |
| 10       | Pin                     | Carbon steel  |
| 11       | Plug                    |               |
| 12       | Screw                   |               |
| 13       | Indicator plate         | Cast iron     |
| 14       | Screw                   | Carbon steel  |
| 15       | Cover                   | Cast iron     |
| 16       | Housing                 |               |
| 17       | O ring                  | Rubber        |
| 18       | Worm gear               | Ductile iron  |
| 19       | Nut                     | Carbon steel  |
| 20       | Stop screw              |               |
| 21       | Nut                     |               |
| 22       | Hex nut                 |               |
| 23-24    | Spur gear cover+housing | Cast iron     |
| 25       | Seal cover              | Rubber        |
| 26-27-28 | Screw+washer            | Carbon steel  |
| 29       | Gear                    |               |
| 30       | Bearing                 | Cu Base Alloy |
| 31       | Bolt                    | Carbon steel  |
| 32       | Slotted spring pin      |               |
| 33       | Spur gear               |               |
| 34       | Locator pins            |               |

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

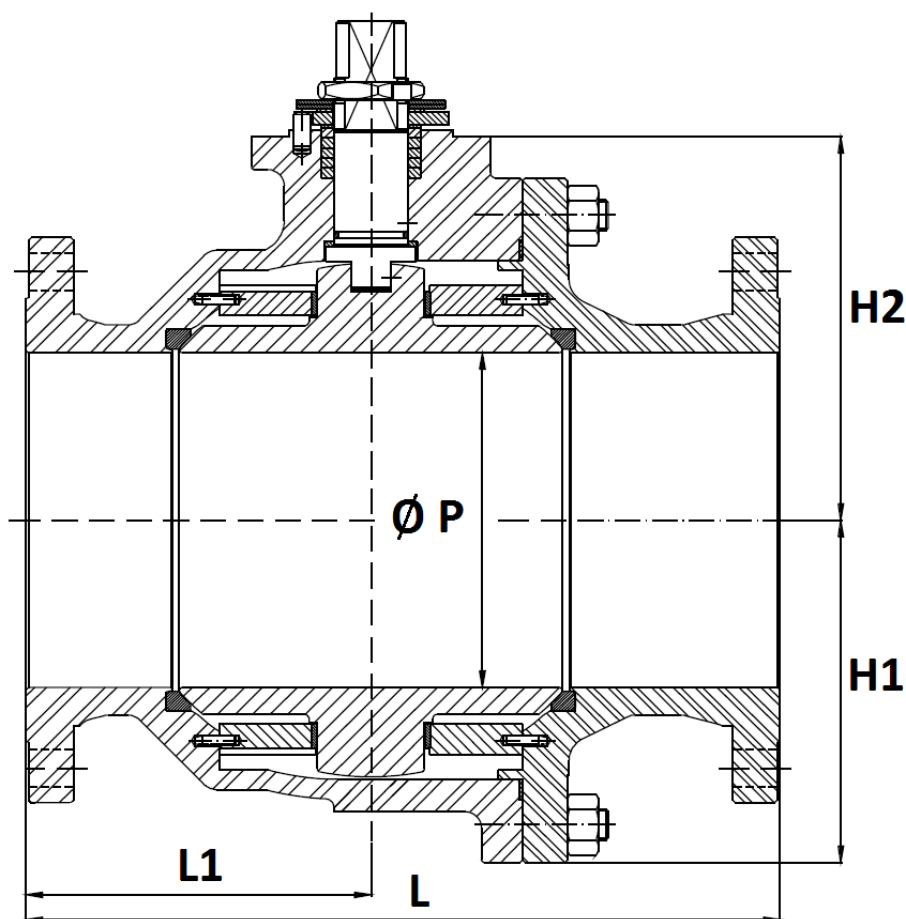
**VALVE SIZE DN15-200 (NPS 1/2" to 8") ( in mm ) :**



| NPS ( " )  | 1/2"      | 3/4"      | 1"        | 1"1/2     | 2"        | 2"1/2     | 3"        | 4"        | 6"        | 8"*       |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DN         | 15        | 20        | 25        | 40        | 50        | 65        | 80        | 100       | 150       | 200*      |
| Ø P        | 15        | 20        | 25        | 40        | 50        | 65        | 80        | 100       | 151       | 203       |
| L          | 108       | 117       | 127       | 165       | 178       | 190       | 203       | 229       | 394       | 457       |
| L1         | 47        | 50        | 52        | 65        | 61        | 75        | 78.5      | 90        | 174       | 200       |
| E          | 164       | 164       | 164       | 213       | 213       | 348       | 445       | 495       | 698       | 868       |
| H          | 111       | 118       | 130       | 148       | 155       | 169       | 207       | 232       | 299       | 353       |
| H1         | -         | -         | -         | -         | -         | -         | -         | 120       | 168       | 208       |
| H2         | 46        | 53        | 58        | 76        | 83.5      | 97        | 111       | 133       | 183       | 233       |
| Weig. (Kg) | 2         | 3         | 3.5       | 8         | 11        | 16        | 23        | 38        | 88        | 155       |
| Ref.       | 515AIT015 | 515AIT020 | 515AIT025 | 515AIT040 | 515AIT050 | 515AIT065 | 515AIT080 | 515AIT100 | 515AIT150 | 515AIT200 |

\* Handle on request for DN200 (free stem in standard)

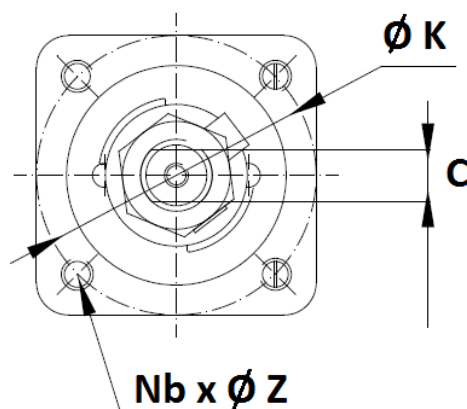
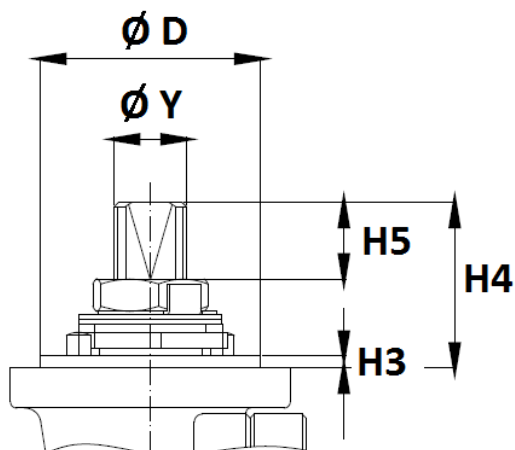


**2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE  
LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT****VALVE SIZE DN 250-300 (NPS 10" to 12") ( in mm ) :**

| NPS ( " )      | 10"       | 12"       |
|----------------|-----------|-----------|
| DN             | 250       | 300       |
| Ø P            | 254       | 305       |
| L              | 533       | 610       |
| L1             | 225       | 245       |
| H1             | 239       | 288       |
| H2             | 256       | 297       |
| Weight (in Kg) | 237       | 357       |
| Ref.           | 515AIT250 | 515AIT300 |

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

**ISO MOUNTING PAD AND STEM SIZE DN15-200, (NPS 1/2" to 8") ( in mm ) :**

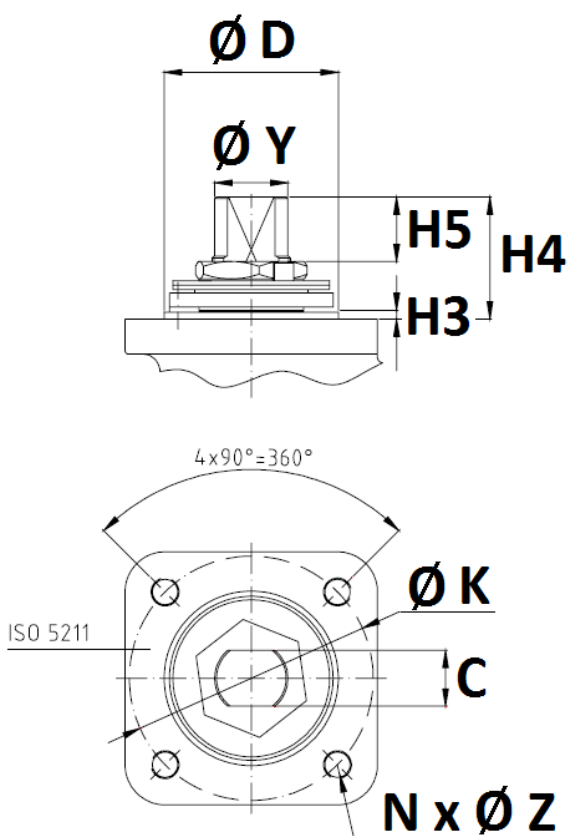


| NPS ( " ) | 1/2"    | 3/4" | 1"   | 1 1/2"  | 2"   | 2 1/2"  | 3"      | 4"      | 6"      | 8"      |
|-----------|---------|------|------|---------|------|---------|---------|---------|---------|---------|
| DN        | 15      | 20   | 25   | 40      | 50   | 65      | 80      | 100     | 150     | 200     |
| H3        | 1.5     |      |      | 3       |      |         |         |         |         | 4       |
| H4        | 11.2    | 14.7 | 22.7 | 41.5    | 41.5 | 44      | 44.5    | 56.5    | 68      | 72      |
| H5        | 5       | 8.5  | 9.5  | 18.3    | 18.3 | 18.6    | 18.6    | 27.8    | 37.1    | 36.5    |
| C         | 9       | 9    | 9    | 13      | 13   | 16      | 18      | 20      | 29      | 32      |
| Ø Y       | M12x1.5 |      |      | M18x1.5 |      | M22x1.5 | M25x1.5 | M28x1.5 | M40x2   | M45x2   |
| Ø D       | 35      |      |      | 55      |      |         | 70      |         | 85      | 100     |
| Ø K       | 50      |      |      | 70      |      |         | 102     |         | 125     | 140     |
| ISO       | F05     |      |      | F07     |      |         | F10     |         | F12     | F14     |
| N x Ø Z   | 4 x M6  |      |      | 4 x M8  |      |         | 4 x M10 |         | 4 x M12 | 4 x M16 |

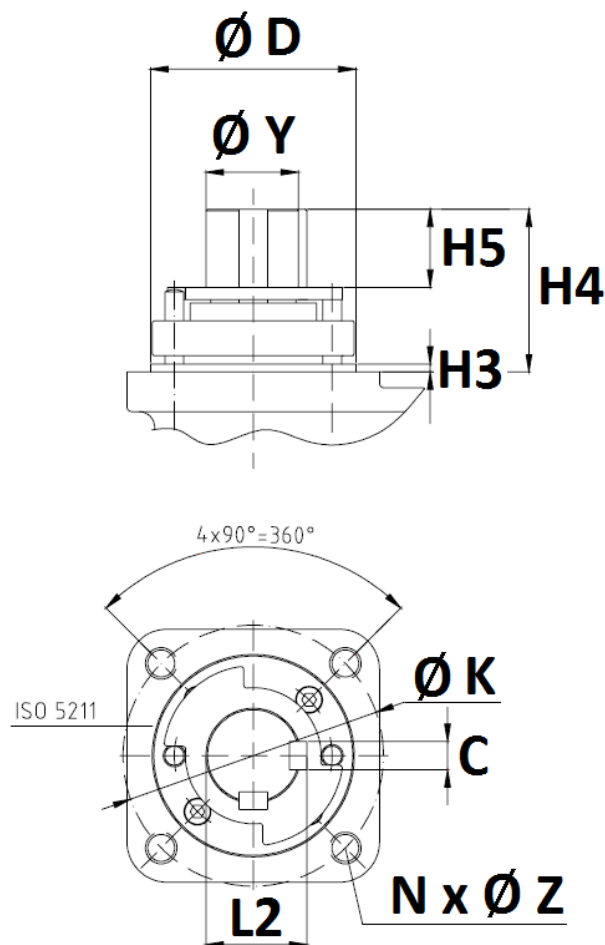
**2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE  
LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT**

ISO MOUNTING PAD AND STEM SIZE DN250-300 (NPS 10" to 12") ( in mm ) :

**DN 250 (10")**



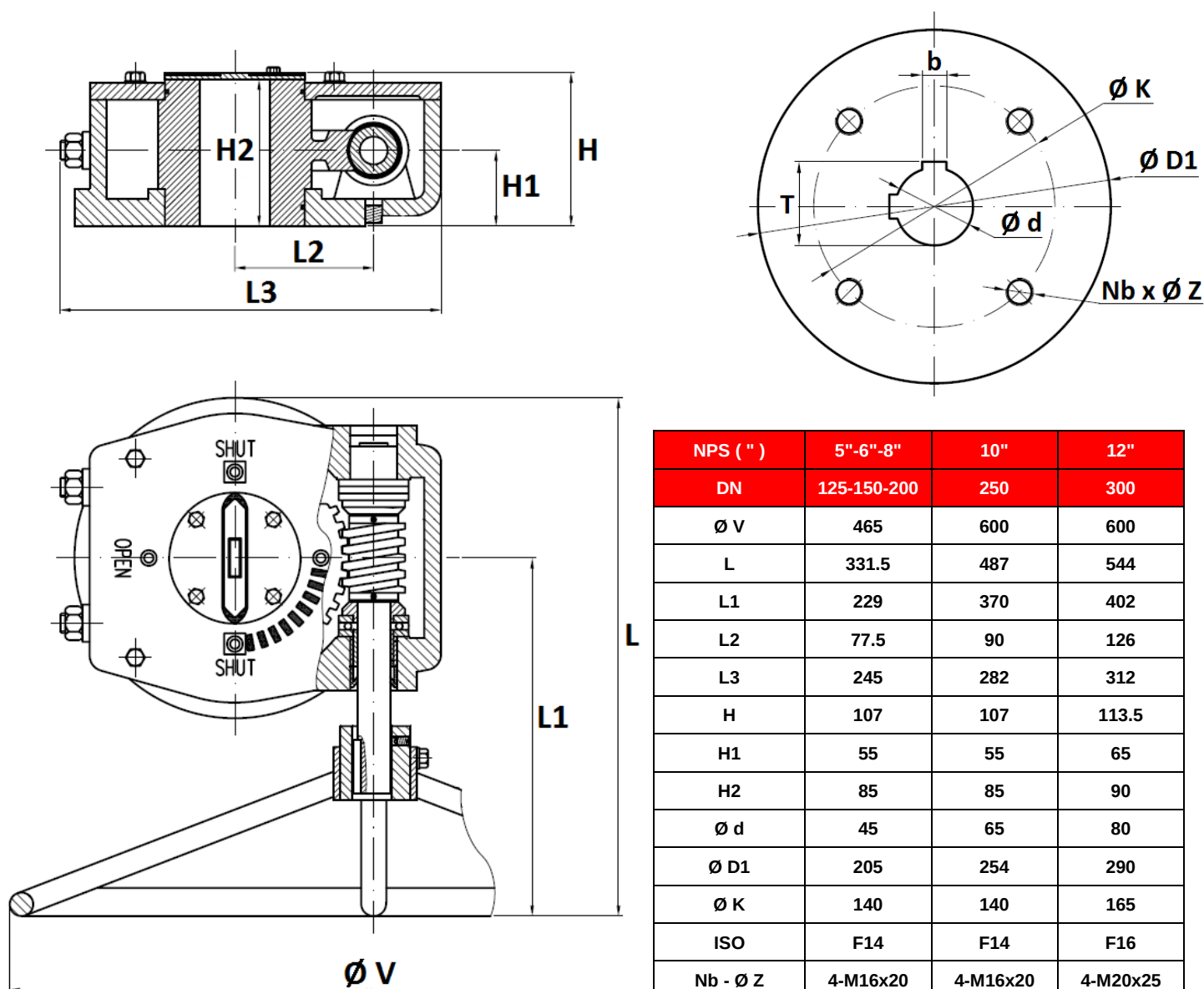
**DN300 (12")**



| NPS ( " ) | 10"     | 12"     |
|-----------|---------|---------|
| DN        | 250     | 300     |
| H3        | 4       | 3       |
| H4        | 72      | 106     |
| H5        | 36.5    | 58      |
| L2        | -       | 53.5    |
| C         | 32      | 14      |
| Ø Y       | M45x2   | Ø50     |
| Ø D       | 100     | 100     |
| Ø K       | 140     | 140     |
| ISO       | F14     | F14     |
| N x Ø Z   | 4 x M16 | 4 x M16 |

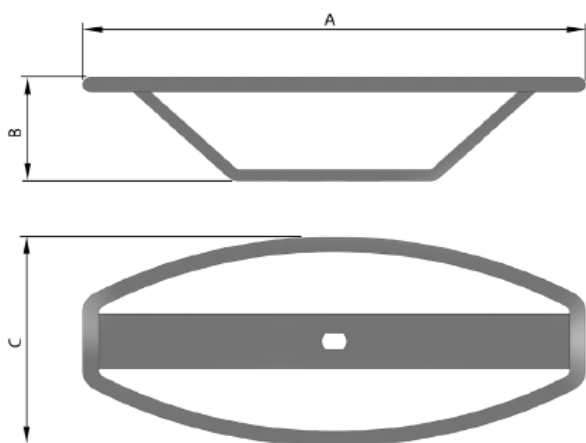
**2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE  
LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT**

**GEARBOX SIZE DN125-300 NPS 5" to 12" ( in mm ) :**



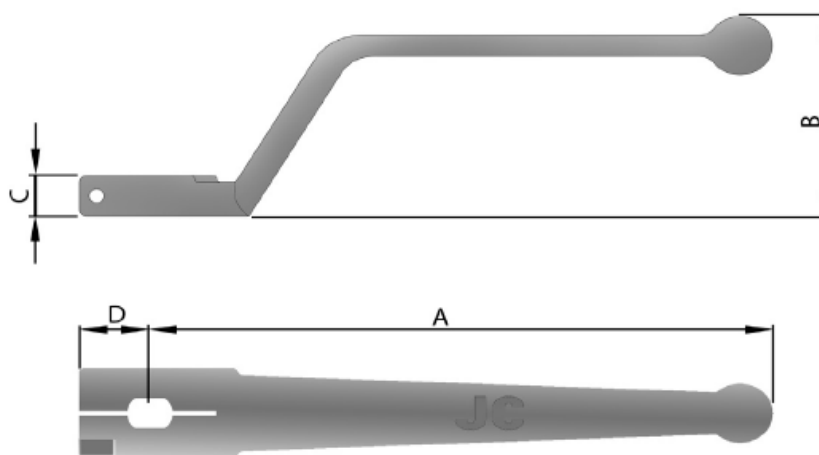
## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

### OVAL HANDWHEEL SIZE DN15-50 NPS 1/2" to 2" ( in mm ) :



| NPS ( " )   | 1/2"    | 3/4"    | 1"   | 1 1/2"  | 2"   |
|-------------|---------|---------|------|---------|------|
| DN          | 15      | 20      | 25   | 40      | 50   |
| A           | 160     | 160     | 160  | 216     | 216  |
| B           | 54      | 54      | 54   | 57      | 57   |
| C           | 75      | 75      | 75   | 100     | 100  |
| Weight (Kg) | 0.25    | 0.25    | 0.25 | 0.55    | 0.55 |
| Ref.        | 9830575 | 9830578 |      | 9830577 |      |

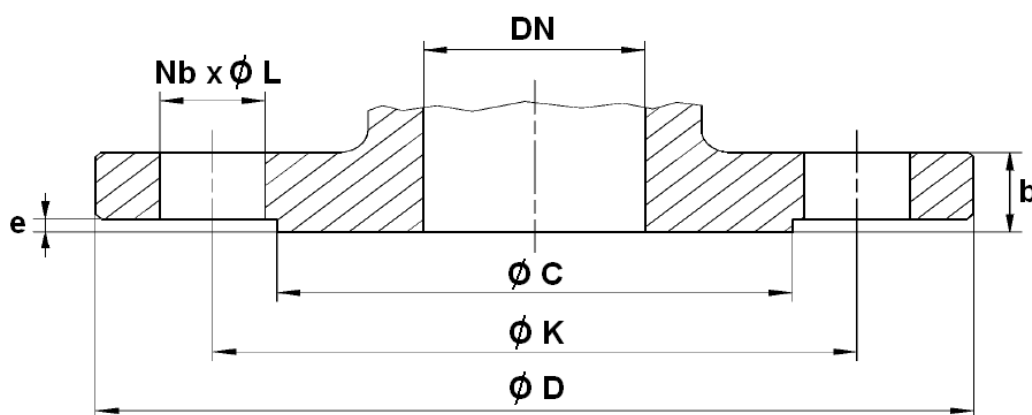
### STAINLESS STEEL HANDLE SIZE DN15-200 NPS 1/2" to 8" ( in mm ) :



| NPS ( " )   | 1/2"    | 3/4" | 1" | 1 1/2"  | 2" | 2 1/2"  | 3"      | 4"      | 6"      | 8"    |
|-------------|---------|------|----|---------|----|---------|---------|---------|---------|-------|
| DN          | 15      | 20   | 25 | 40      | 50 | 65      | 80      | 100     | 150     | 200   |
| A           | 163.5   |      |    | 212.5   |    | 347.5   | 445     | 495     | 697.5   | 867.5 |
| B           | 58.5    |      |    | 48.5    |    | 46.5    | 70      | 70      | 84.5    | 84.5  |
| C           | 12      |      |    | 21      |    | 20      |         | 29      | 40      |       |
| D           | 18.5    |      |    | 25.5    |    |         | 33      |         | 47      | 55    |
| Weight (Kg) | 0.2     |      |    | 0.53    |    | 0.63    | 1.52    | 1.85    | 3.4     | 4.6   |
| Ref.        | 9830513 |      |    | 9830515 |    | 9830516 | 9830517 | 9830518 | 9830520 |       |

## 2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT

**FLANGES SIZE ( in mm ) :**



| NPS ( " ) | 1/2"     | 3/4" | 1"   | 1 1/2" | 2"       | 2 1/2" | 3"    | 4"       | 6"       | 8"    | 10"       | 12"   |
|-----------|----------|------|------|--------|----------|--------|-------|----------|----------|-------|-----------|-------|
| DN        | 15       | 20   | 25   | 40     | 50       | 65     | 80    | 100      | 150      | 200   | 250       | 300   |
| Ø C       | 34.9     | 42.9 | 50.8 | 73     | 92.1     | 104.8  | 127   | 157.2    | 215.9    | 269.9 | 323.8     | 381   |
| Ø D       | 90       | 100  | 110  | 125    | 150      | 180    | 190   | 230      | 280      | 345   | 405       | 485   |
| Ø K       | 60.3     | 69.9 | 79.4 | 98.4   | 120.7    | 139.7  | 152.4 | 190.5    | 241.3    | 298.5 | 362       | 431.8 |
| Nb x Ø L  | 4 x 15.9 |      |      |        | 4 x 19.1 |        |       | 8 x 19.1 | 8 x 22.2 |       | 12 x 25.4 |       |
| b         | 11.2     | 11.2 | 11.2 | 14.3   | 15.8     | 17.6   | 19    | 24.6     | 25.5     | 28.5  | 30.2      | 31.8  |
| e         | 1.6      |      |      |        |          |        |       |          |          |       |           |       |



**2 PIECES CARBON STEEL BALL VALVE FLANGED CLASS 150 PN20 JC RANGE  
LONG PATTERN (ASME B16.10 TABLE 1-18) PTFE SEAT**

**STANDARDS :**

- Manufacturer certified ISO 9001:2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU: For liquids or Gas of Group 1
  - DN15-25 (NPS 1/2"-1"): Article 4, §3 (SEP), no CE marking
  - DN40-100 (NPS 1 1/2-4"): Risk category I, CE marking
  - DN150-200 (NPS 6"-8"): Risk category II, CE 0056 marking
- Certificate 3.1 on request
- Valve designing according to EN 1983 – ISO 17292, API 6D and ASME B16.34
- Body design according to ASME VIII Div.1
- Materials according to NACE MR 01-75
- Pressure Tests according to API 598
- Marking according to EN 19
- Fire safe according to ISO 10497 : 2004, API 607 5th, BS6755 Part 2, and API 6FA 1994
- Fugitive Emissions according to EN 15848-1 : 2006 B Class and TA LUFT VDI 2440
- SIL2 according to IEC/EN 61508, SIL 3 possible according to the type of installation
- Flanges R.F. type B1 Class 150 according to ASME B16.5
- Shell finishing quality MSS SP 55
- ISO 5211 mounting pad
- Length according to ASME B16.10 Table 1 Column 18 (EN 558 series 3 up to DN100, series 12 from DN150 to 300)
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 ( optional marking ) according to directive 2014/34/EU
- Russian certificate TRCU 10, TRCU 12 and TRCU 32 (EAC marking and declaration **on request**)