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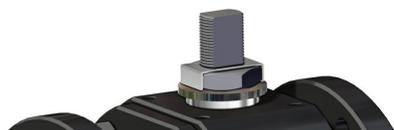
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## THOR Split Body PN 16-40 ANSI 150-300 carbon steel ball valve



Macro Ball valves

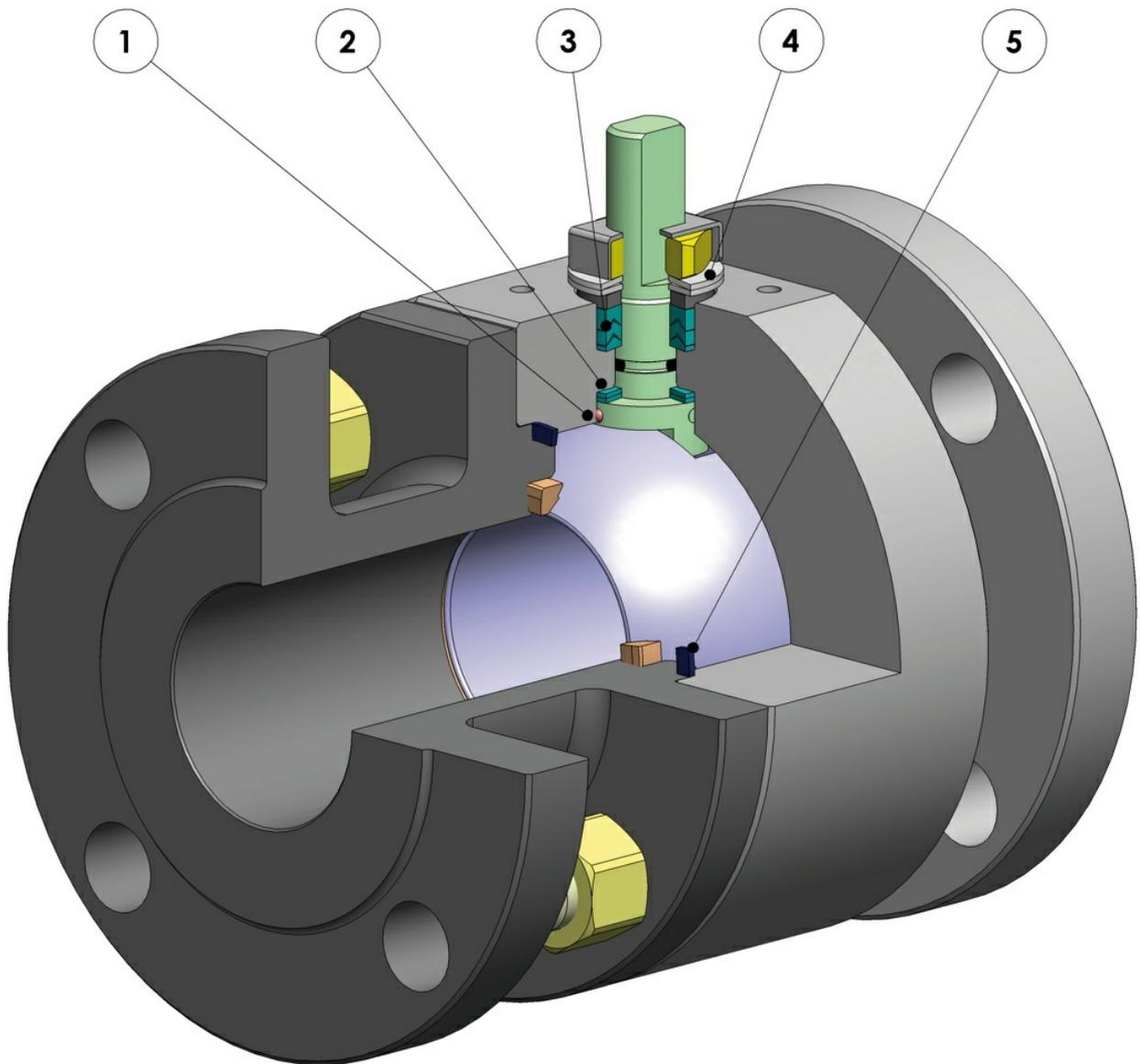
Category THOR



Subcategory THOR Split Body

Family THOR Split Body PN 16-40 ANSI 150-300

benefits





**1. Antistatic device (electrical continuity between ball, stem and body)**

Static electricity is avoided which can cause sparks and fire in an inflammable/explosive environment

Contact safety throughout the entire life of the valve

**2. Double antifriction washer**

Less Breakaway Torque is granted

Less wear comparing with the execution with the single washer

**3. "V" seals pack; 3 seals + o-ring**

It ensures a perfect tightness even after a high number of cycles

**4. Spring washer on the shaft seal**

Guarantee of the recovery of the gap due to the wear caused by the rotational movement of the shaft avoiding leakage towards the outside part.

Allow to maintain energized the "chevron" seals (V), thus avoiding any leakage to the outside, against huge temperature excursions

**5. Stretch Graphite seal**

Tightness towards outside is granted, independently by the thermal excursions to which the valve is subjected

**Greater precision in the alignment of axes due to a unique positioning in the process machining from raw material to finished valve**

Longer lifetime of the valve

Less breakaway torque

**Easy maintainance directly on site**

Reduced maintainance costs

**Valve body in carbon steel made with NACE certified material as standard**

Greater corrosion resistance

Greater ductility of the material

**100% in- house manufacturing process technology**

Maximum control and accuracy in all the stages of the manufacturing process

Flexibility in supply quickly special executions requested by customers

**"Fire safe" Certificate**

Guarantees the tightness of the valve also in case of fire

**ATEX Certificate**

Installation is possible in a potential explosive environment

**TA LUFT fugitive emission Certificate**

High level of safety of the tightness towards the outside is granted

**PED Certificate**

Full compliance with European Safety Standards for Pressure Equipment

**UP to SIL 3 certified**

Guarantee of the high level of functional safety



## features

### STANDARD FEATURES

- Floating ball, full bore. Available reduce bore version.
- Soft-seat seal Modified PTFE
- Standard for connecting flanges: EN 1092-1; ASME B16.5
- Operating temperature see temperature pressure diagram
- Pressure class: PN16-40; ANSI 150-300
- Tightness Class: EN12266-1 rate A
- Intercepted fluid: air, water, gas, petroleum and petrochemical products.
- Antistatic device EN12266-2
- Stem seal: Modified PTFE V-ring packing
- Additional seal on stem with FKM O-ring
- Anti Blow-out stem
- Actuator connection as per standard ISO 5211
- Closing angle >7°
- Superficial treatment: blueing

### FEATURES ON REQUEST

- LF2 carbon steel for low temperature execution (-40 C°)
- For other flange types please contact our sales department.
- Sealing in: PTFE reinforced with glass (PTFE-GF), PTFE reinforced with carbongraphite (PTFE-CF). For other types of materials please contact our sales department
- Mono-directional version with pressure-compensating hole in the ball
- Stainless steel lever
- For special versions in materials different from the standard (body, ball, stem), please contact our sales department.
- Stainless steel Stem nuts and springs
- Superficial treatment: white zinc coating ,epoxy coating
- For other coating please contact our sales department
- ATEX marking and certificate ON REQUEST

### CERTIFICATIONS

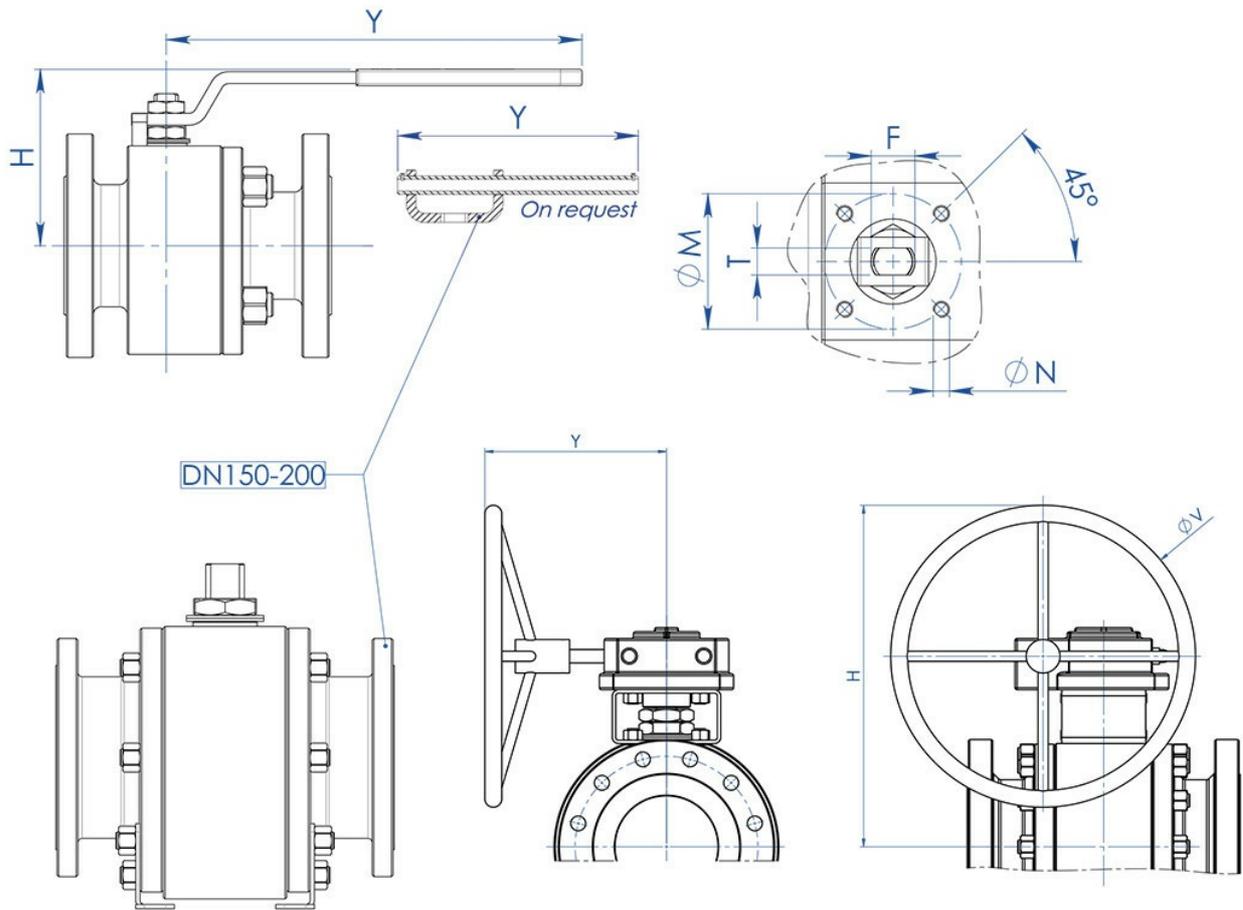
- In compliance with European Directive 2014/68/EU PED; Fugitive Emission ISO 15848 (ISO FE BH-C03-SSA 0); TA-LUFT VDI 2440; FIRE SAFE: ISO 10497 Third ed. 2010 / API 607 Fifth ed. 2005
- Safety integrity level up to SIL3 according to the IEC 61508
- In compliance with ATEX 2014/34/EU Directive , ATEX certificate ON REQUEST.

### ENGINEERING STANDARD

- Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516.
- API 6D ON REQUEST.
- Materials and rating in compliance with ASME B16.34 for ANSI valves and EN 12516 for PN valves



dimensions

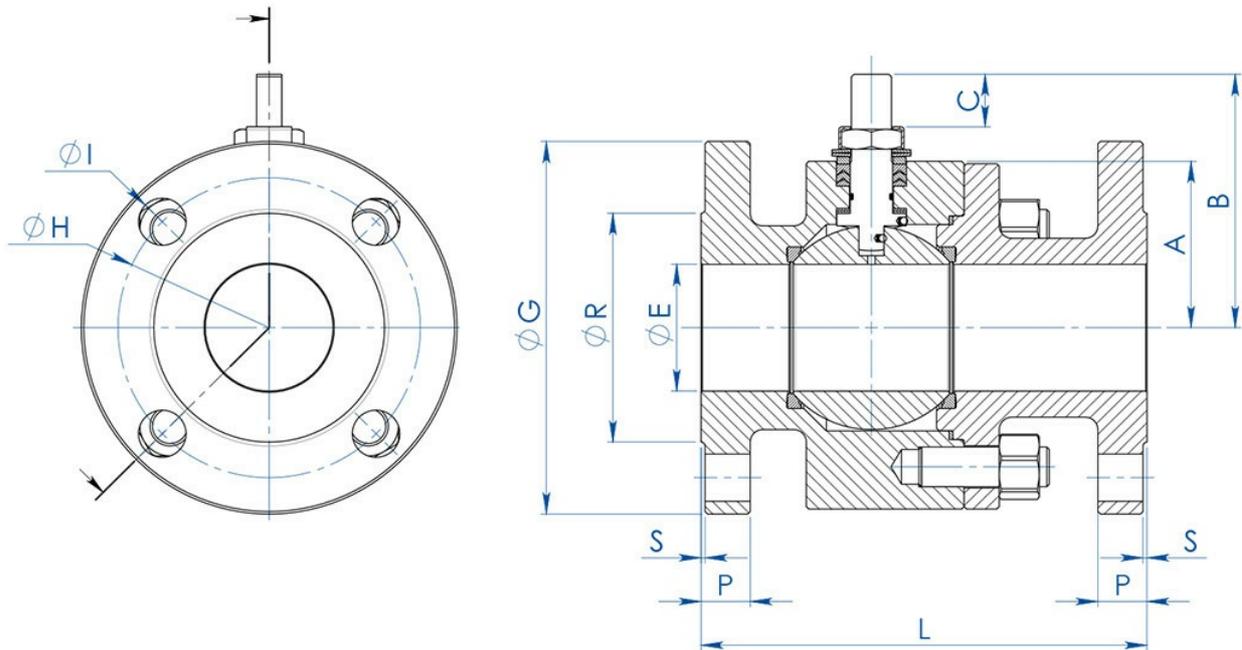




| SIZE                          |        | DIMENSIONS |       |     |     |     |       |          |           |
|-------------------------------|--------|------------|-------|-----|-----|-----|-------|----------|-----------|
| DN [mm]                       | [inch] | H          | Y     | øV  | øM  | øN  | F/T   | ATT. ISO | LEVER KIT |
| DN 15                         | 1/2"   | 71         | 140   | --- | 36  | M5  | 10/6  | F03      | KLV58004  |
| DN 20                         | 3/4"   | 73         | 140   | --- | 36  | M5  | 10/6  | F03      | KLV58004  |
| DN 25                         | 1"     | 87         | 150   | --- | 42  | M5  | 12/8  | F04      | KLV58006  |
| DN 32                         | 1" 1/4 | 91         | 150   | --- | 42  | M5  | 12/8  | F04      | KLV58006  |
| DN 40                         | 1" 1/2 | 108        | 275   | --- | 50  | M6  | 16/10 | F05      | KLV58008  |
| DN 50                         | 2"     | 118        | 275   | --- | 50  | M6  | 16/10 | F05      | KLV58008  |
| DN 65                         | 2" 1/2 | 143        | 350   | --- | 70  | M8  | 22/14 | F07      | KLV58010  |
| DN 80                         | 3"     | 150        | 350   | --- | 70  | M8  | 22/14 | F07      | KLV58010  |
| DN 100                        | 4"     | 198        | 450   | --- | 102 | M10 | 30/18 | F10      | KLV58012  |
| DN 125                        | 5"     | 208        | 450   | --- | 102 | M10 | 30/18 | F10      | KLV58012  |
| DN 150 PN16 - ANSI150 (*)     | 6"     | 522        | 326   | 400 | 140 | M16 | 45/30 | F14      | ---       |
| DN 150 PN25-40 - ANSI300      | 6"     | 522        | 347,5 | 600 | 140 | M16 | 45/30 | F14      | ---       |
| DN 200 PN16- PN25-ANSI150 (*) | 8"     | 516        | 347   | 500 | 140 | M16 | 52/35 | F14      | ---       |
| DN 200 PN40                   | 8"     | 614        | 348   | 500 | 140 | M16 | 52/35 | F14      | ---       |

STANDARD version with manual gearbox for DN150 and DN200.

(\*) ON REQUEST version with manual lever.





**DIMENSIONS -PN-**

| SIZE       |        | øE  | PN       | A   | B     | C    | øG  | øR  | S | P  | øH  | HOLES<br>N° | øI | Kg   | L          | SEALS KIT  |
|------------|--------|-----|----------|-----|-------|------|-----|-----|---|----|-----|-------------|----|------|------------|------------|
| DN<br>[mm] | [inch] |     |          |     |       |      |     |     |   |    |     |             |    |      |            |            |
| DN 15      | 1/2"   | 13  | PN 16-40 | 32  | 52    | 10   | 95  | 45  | 2 | 16 | 65  | 4           | 14 | 3,0  | 115<br>(1) | KGBV485040 |
| DN 20      | 3/4"   | 19  | PN 16-40 | 35  | 55    | 10   | 105 | 58  | 2 | 18 | 75  | 4           | 14 | 3,8  | 120<br>(1) | KGBV485050 |
| DN 25      | 1"     | 25  | PN 16-40 | 42  | 68    | 15   | 115 | 68  | 2 | 18 | 85  | 4           | 14 | 5,2  | 125<br>(1) | KGBV485060 |
| DN 32      | 1" 1/4 | 32  | PN 16-40 | 47  | 73    | 15   | 140 | 78  | 2 | 18 | 100 | 4           | 18 | 7,6  | 130<br>(1) | KGBV485070 |
| DN 40      | 1" 1/2 | 38  | PN 16-40 | 58  | 93    | 21   | 150 | 88  | 3 | 18 | 110 | 4           | 18 | 10   | 140<br>(1) | KGBV485080 |
| DN 50      | 2"     | 51  | PN 16-40 | 67  | 102   | 21   | 165 | 102 | 3 | 20 | 125 | 4           | 18 | 14,3 | 150<br>(1) | KGBV485090 |
| DN 65      | 2" 1/2 | 64  | PN 16    | 83  | 130,5 | 28,4 | 185 | 122 | 3 | 18 | 145 | 4           | 18 | 20,2 | 170<br>(1) | KGBV485100 |
| DN 65      | 2" 1/2 | 64  | PN 25-40 | 83  | 130,5 | 28,4 | 185 | 122 | 3 | 22 | 145 | 8           | 18 | 28,2 | 270<br>(2) | KGBV485100 |
| DN 80      | 3"     | 76  | PN 16-40 | 90  | 137,5 | 28,4 | 200 | 138 | 3 | 24 | 160 | 8           | 18 | 25,4 | 180<br>(1) | KGBV485110 |
| DN 100     | 4"     | 102 | PN 16    | 111 | 172   | 35   | 220 | 158 | 3 | 20 | 180 | 8           | 18 | 38   | 190<br>(1) | KGBV485120 |
| DN 100     | 4"     | 102 | PN 25-40 | 111 | 172   | 35   | 235 | 162 | 3 | 24 | 190 | 8           | 22 | 57,8 | 300<br>(2) | KGBV485120 |
| DN 125     | 5"     | 118 | PN 16    | 117 | 182   | 35   | 250 | 188 | 3 | 22 | 210 | 8           | 18 | 68   | 325<br>(2) | KGBV485130 |
| DN 150(*)  | 6"     | 152 | PN 16    | 154 | 227,5 | 40,5 | 285 | 212 | 3 | 23 | 240 | 8           | 22 | 121  | 350<br>(2) | KGBV485140 |
| DN 150     | 6"     | 152 | PN 25-40 | 154 | 227,5 | 40,5 | 300 | 218 | 3 | 28 | 250 | 8           | 26 | 125  | 350        | KGBV48514D |
| DN 200(*)  | 8"     | 203 | PN 16    | 188 | 274   | 44,8 | 340 | 268 | 3 | 24 | 295 | 12          | 22 | 198  | 400<br>(2) | KGBV485150 |
| DN 200(*)  | 8"     | 203 | PN 25    | 188 | 274   | 44,8 | 360 | 310 | 3 | 30 | 310 | 12          | 26 | 220  | 457        | KGBV485150 |
| DN 200     | 8"     | 203 | PN 40    | 195 | 274   | 44,8 | 375 | 285 | 3 | 34 | 320 | 12          | 30 | 250  | 502        | KGBV48515D |



| DIMENSIONS -ANSI- |        |     |          |     |       |      |     |       |     |      |       |          |    |      |         |            |
|-------------------|--------|-----|----------|-----|-------|------|-----|-------|-----|------|-------|----------|----|------|---------|------------|
| SIZE              |        | øE  | ANSI     | A   | B     | C    | øG  | øR    | S   | P    | øH    | HOLES N° | øI | Kg   | L       | SEALS KIT  |
| DN [mm]           | [inch] |     |          |     |       |      |     |       |     |      |       |          |    |      |         |            |
| DN 15             | 1/2"   | 13  | ANSI 150 | 32  | 52    | 10   | 90  | 35,1  | 1,6 | 11,4 | 60,5  | 4        | 16 | 3,0  | 108 (3) | KGBV485040 |
| DN 15             | 1/2"   | 13  | ANSI 300 | 32  | 52    | 10   | 95  | 35,1  | 1,6 | 14,5 | 66,5  | 4        | 16 | 2,7  | 140 (3) | KGBV485040 |
| DN 20             | 3/4"   | 19  | ANSI 150 | 35  | 55    | 10   | 100 | 42,9  | 1,6 | 13   | 69,8  | 4        | 16 | 3,1  | 117(3)  | KGBV485050 |
| DN 20             | 3/4"   | 19  | ANSI 300 | 35  | 55    | 10   | 118 | 42,9  | 1,6 | 16,6 | 82,6  | 4        | 19 | 4,2  | 152(3)  | KGBV485050 |
| DN 25             | 1"     | 25  | ANSI 150 | 42  | 68    | 15   | 110 | 50,8  | 1,6 | 14,5 | 79,2  | 4        | 16 | 4,5  | 127 (3) | KGBV485060 |
| DN 25             | 1"     | 25  | ANSI 300 | 42  | 68    | 15   | 125 | 50,8  | 1,6 | 18   | 88,9  | 4        | 19 | 5,9  | 165 (3) | KGBV485060 |
| DN 32             | 1" 1/4 | 32  | ANSI 150 | 47  | 73    | 15   | 118 | 63,5  | 1,6 | 16,1 | 88,9  | 4        | 16 | 6,2  | 140 (3) | KGBV485070 |
| DN 32             | 1" 1/4 | 32  | ANSI 300 | 47  | 73    | 15   | 135 | 63,5  | 1,6 | 19,5 | 98,6  | 4        | 19 | 8,7  | 178 (3) | KGBV485070 |
| DN 40             | 1" 1/2 | 38  | ANSI 150 | 58  | 93    | 21   | 128 | 73    | 1,6 | 18   | 98,6  | 4        | 16 | 9,4  | 165 (3) | KGBV485080 |
| DN 40             | 1" 1/2 | 38  | ANSI 300 | 58  | 93    | 21   | 155 | 73    | 1,6 | 21   | 114,3 | 4        | 22 | 12   | 190 (3) | KGBV485080 |
| DN 50             | 2"     | 51  | ANSI 150 | 67  | 102   | 21   | 153 | 91,9  | 1,6 | 19,6 | 120,6 | 4        | 19 | 13,3 | 178 (4) | KGBV485090 |
| DN 50             | 2"     | 51  | ANSI 300 | 67  | 102   | 21   | 165 | 91,9  | 1,6 | 22,6 | 127,0 | 8        | 19 | 16,5 | 216 (4) | KGBV485090 |
| DN 65             | 2" 1/2 | 64  | ANSI 150 | 83  | 130,5 | 28,4 | 180 | 104,6 | 1,6 | 22,6 | 139,7 | 4        | 19 | 23,1 | 191 (4) | KGBV485100 |
| DN 65             | 2" 1/2 | 64  | ANSI 300 | 83  | 130,5 | 28,4 | 190 | 104,6 | 1,6 | 26,1 | 149,4 | 8        | 22 | 27,3 | 241 (4) | KGBV485100 |
| DN 80             | 3"     | 76  | ANSI 150 | 90  | 137,5 | 28,4 | 190 | 127   | 1,6 | 24   | 152,4 | 4        | 19 | 27   | 203 (4) | KGBV485110 |
| DN 80             | 3"     | 76  | ANSI 300 | 96  | 137,5 | 28,4 | 210 | 127   | 1,6 | 29   | 168,1 | 8        | 22 | 38,1 | 282 (4) | KGBV485110 |
| DN 100            | 4"     | 102 | ANSI 150 | 111 | 172   | 35   | 230 | 157,2 | 1,6 | 24,6 | 190,5 | 8        | 19 | 46   | 229 (4) | KGBV485120 |
| DN 100            | 4"     | 102 | ANSI 300 | 111 | 172   | 35   | 255 | 157,2 | 1,6 | 32,6 | 200,2 | 8        | 22 | 67,7 | 305 (4) | KGBV485120 |
| DN 125            | 5"     | 118 | ANSI 150 | 117 | 182   | 35   | 255 | 185,7 | 1,6 | 24,5 | 215,9 | 8        | 22 | 62   | 254 (3) | KGBV485130 |
| DN 125            | 5"     | 118 | ANSI 300 | 125 | 182   | 35   | 280 | 185,7 | 1,6 | 36,6 | 235   | 8        | 22 | 94   | 381 (3) | KGBV485130 |
| DN 150(*)         | 6"     | 152 | ANSI 150 | 154 | 227,5 | 40,5 | 280 | 215,9 | 1,6 | 25,6 | 241,3 | 8        | 22 | 126  | 394 (4) | KGBV485140 |
| DN 150            | 6"     | 152 | ANSI 300 | 154 | 227,5 | 40,5 | 320 | 215,9 | 1,6 | 37,6 | 269,7 | 12       | 22 | 147  | 403     | KGBV48514D |
| DN 200(*)         | 8"     | 203 | ANSI 150 | 188 | 274   | 44,8 | 345 | 269,7 | 1,6 | 29,5 | 298,4 | 8        | 22 | 210  | 457 (4) | KGBV485150 |

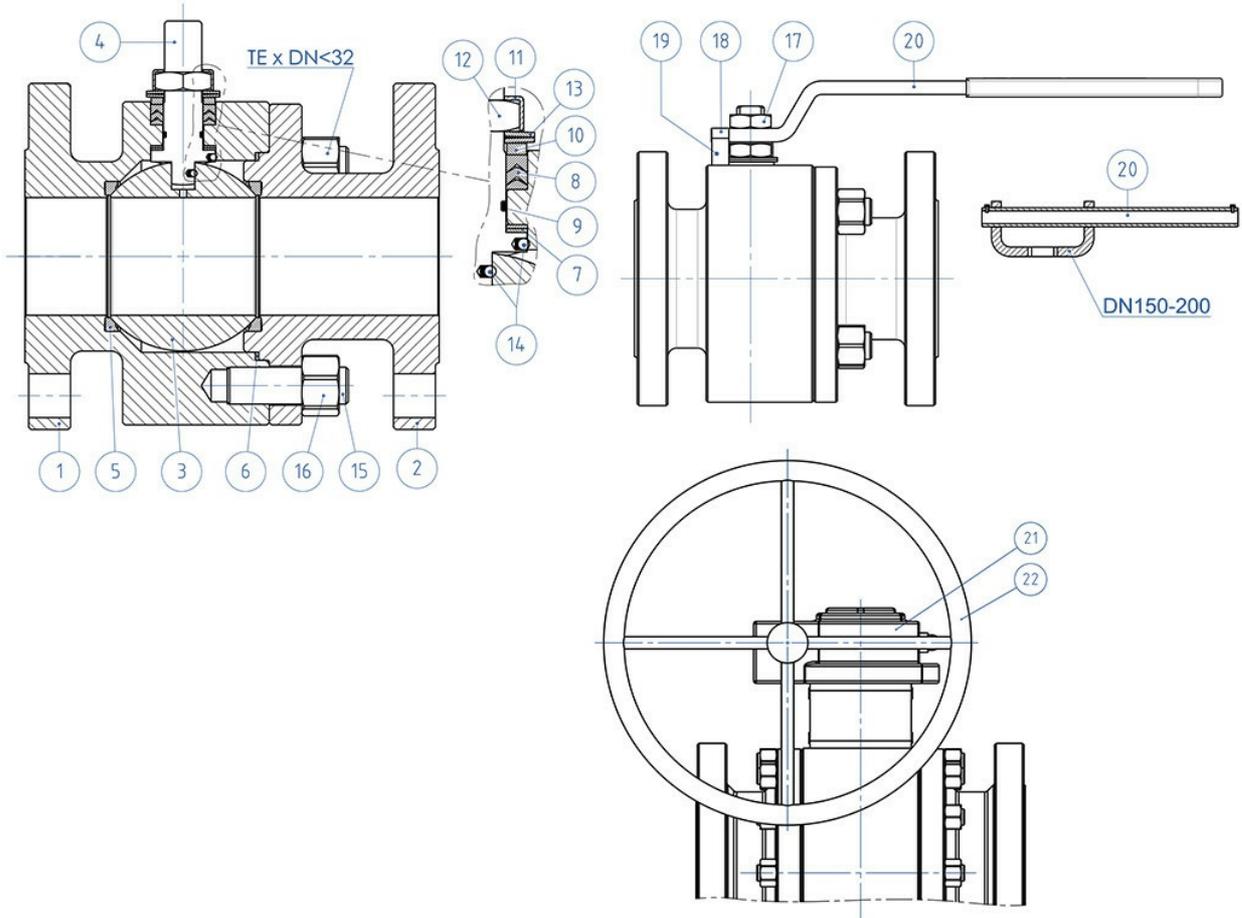
STANDARD version with manual gearbox for DN150 and DN200.

(\*) ON REQUEST version with manual lever.

(1) EN558 TAB. 2 COL. 14 / DIN 3202-1 F4 (2) EN558 TAB. 2 COL. 15 / DIN 3202-1 F5 (3) ANSI B16.10 (4) B16.10 / API6D



materials





| <b>MATERIALS</b>                                    |                       |   |                              |
|---|-----------------------|---|------------------------------|
| <b>SPLIT BODY PN16-40 ANSI 150-300 carbon steel</b> |                       |   |                              |
| <b>N°</b>   | <b>Description</b>    | <b>A105 Carbon steel</b>                | <b>A350 LF2 Carbon steel</b> |
| 1   | Body                  | ASTM A105                               | ASTM A350 LF2                |
| 2   | Connector             |   |                              |
| 3   | Ball                  | ASTM A351 CF8 (*) (1.4308/Gx5CrNi19-10) |                              |
| 4   | Stem                  | ASTM A182F6A / A479 Tp.410 (**)         |                              |
| 5*  | Seat                  | Modified PTFE (.) (2)                   |                              |
| 6*  | Body-connector gasket | GRAFOIL                                 |                              |
| 7*  | Stem lower sealing    | Modified PTFE (.)                       |                              |
| 8*  | Chevron rings         | Modified PTFE (.)                       |                              |
| 9*  | Stem o-ring           | FKM (.)                                 |                              |
| 10  | Packing gland ring    | Carbon steel galvanized (x) (1)         |                              |
| 11  | Stop nut plate        | 304 S.S.                                |                              |
| 12  | Stem nut              | Carbon steel galvanized (x)             |                              |
| 13  | Springs washer        | Carbon steel galvanized (xx)            |                              |
| 14  | Antistatic device     | 316 S.S.                                |                              |
| 15  | Stud bolt             | A193-B7                                 | A320-L7M                     |
| 16  | Nut                   | A194-Gr.2H                              | A194-Gr.7M                   |
| 17  | Lock nut              | Carbon steel galvanized (x)             |                              |
| 18  | Holder screw          | A2-70 (304 S.S.)                        |                              |
| 19  | Holder screw          | Carbon steel galvanized (x)             |                              |
| 20  | Lever                 | Fe37 Galvanized (x)                     |                              |
| 21  | Gear box              | Cast iron (painted)                     |                              |
| 22  | Handwheel             | Carbon steel painted                    |                              |
| * Components of seals kit                           |                       |   |                              |

Available on request:

(\*): A351 CF8M

(\*\*): A564 TP.630 (17-4PH)

(x): 304 s.s.

(xx): 301 s.s.

(1): for DN150 & 200 available only in 304 S.S.

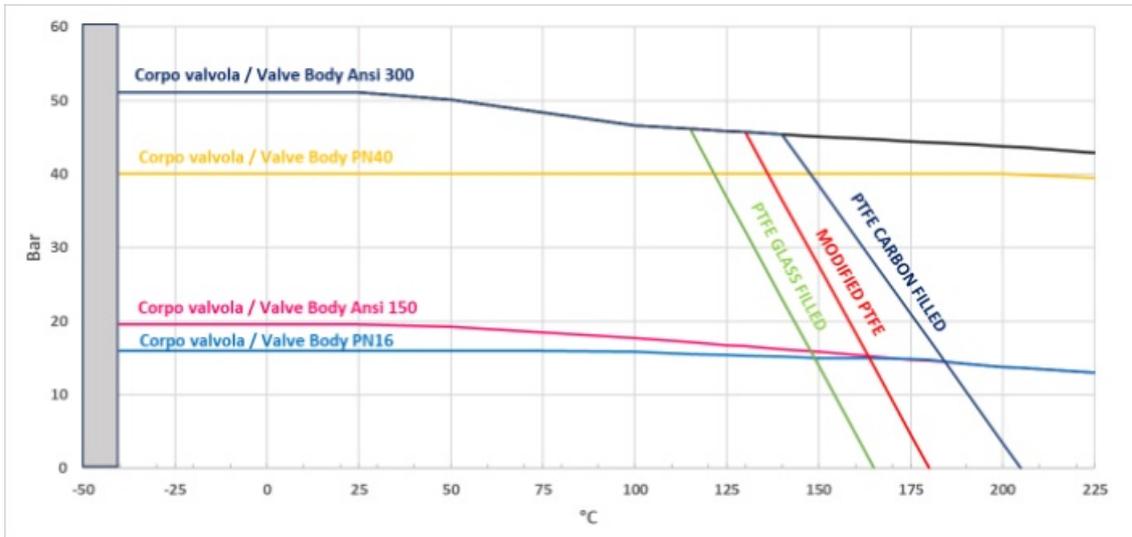
(2) DEVLON for DN150 PN25-40 - ANSI300, DN200 PN40

(.): Other materials available on request

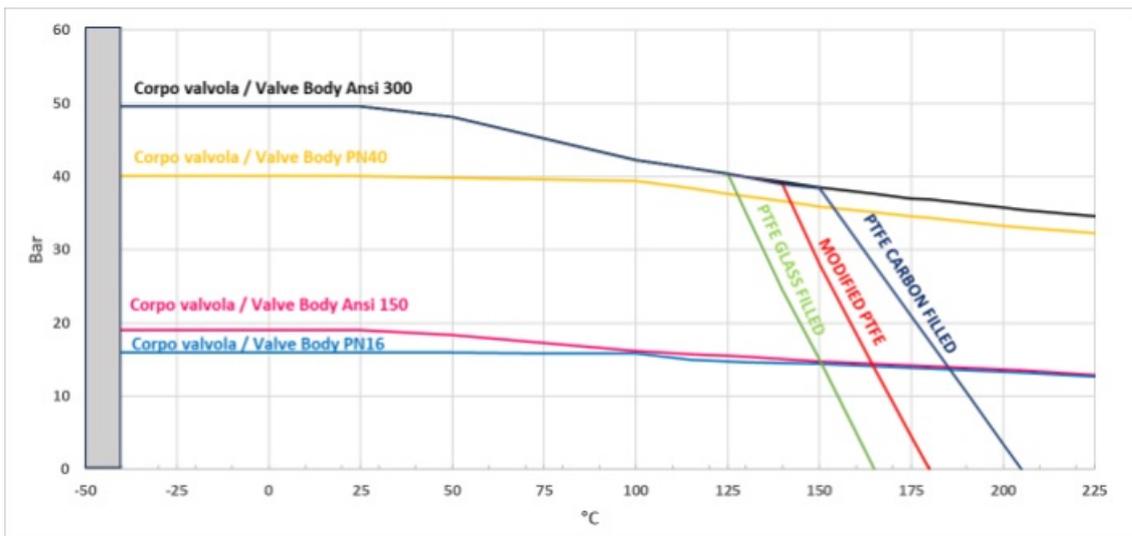


## diagrams and breakaway torque

Temperature/pressure diagram for carbon steel valve

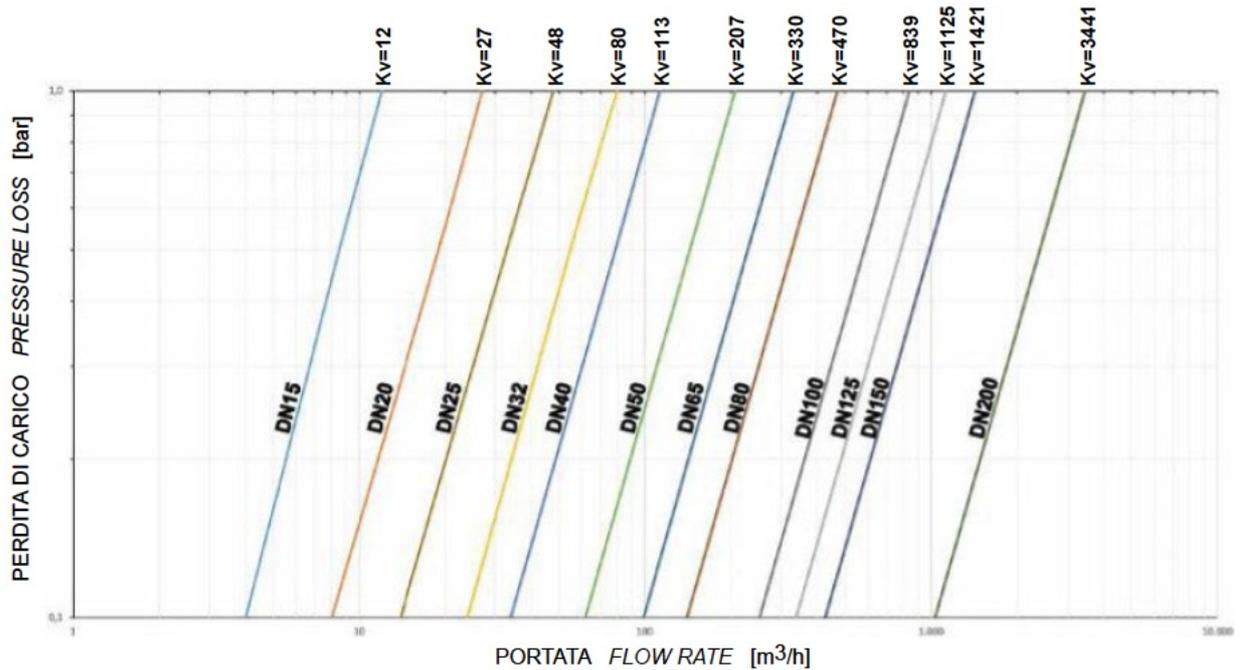


Temperature/pressure diagram for stainless steel valve





**Flow/pressure loss diagram and Kv nominal coefficient**



Kv is the coefficient, expressed in m<sup>3</sup>/h (with water at 15°C) causing a pressure loss of 1 bar.

| BREAKAWAY TORQUE IN Nm WITH TFM 1600 SEAT AND WATER INTERCEPTED FLUID (*) |       |       |       |       |       |       |       |       |        |        |        |        |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| SIZE  | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 | DN 200 |
| 0 bar   |       |       |       |       |       |       |       |       |        |        |        |        |
| PN16 bar  | 8     | 13    | 19    | 28    | 42    | 61    | 85    | 128   | 220    | 245    | 405    | 690    |
| PN25 bar  | 9,5   | 14,5  | 20    | 29    | 43    | 66    | 98    | 158   | 252    | 383    |        |        |
| PN40 bar  | 11    | 16    | 21    | 31    | 44    | 72    | 108   | 165   | 292    | 510    |        |        |
| ANSI 150-20 bar   | 9     | 14    | 19,5  | 30    | 43    | 65    | 96    | 153   | 243    | 360    | 480    | 750    |
| ANSI 300-50 bar   | 12    | 18    | 22    | 32    | 46    | 80    | 115   | 180   | 302    | 570    |        |        |

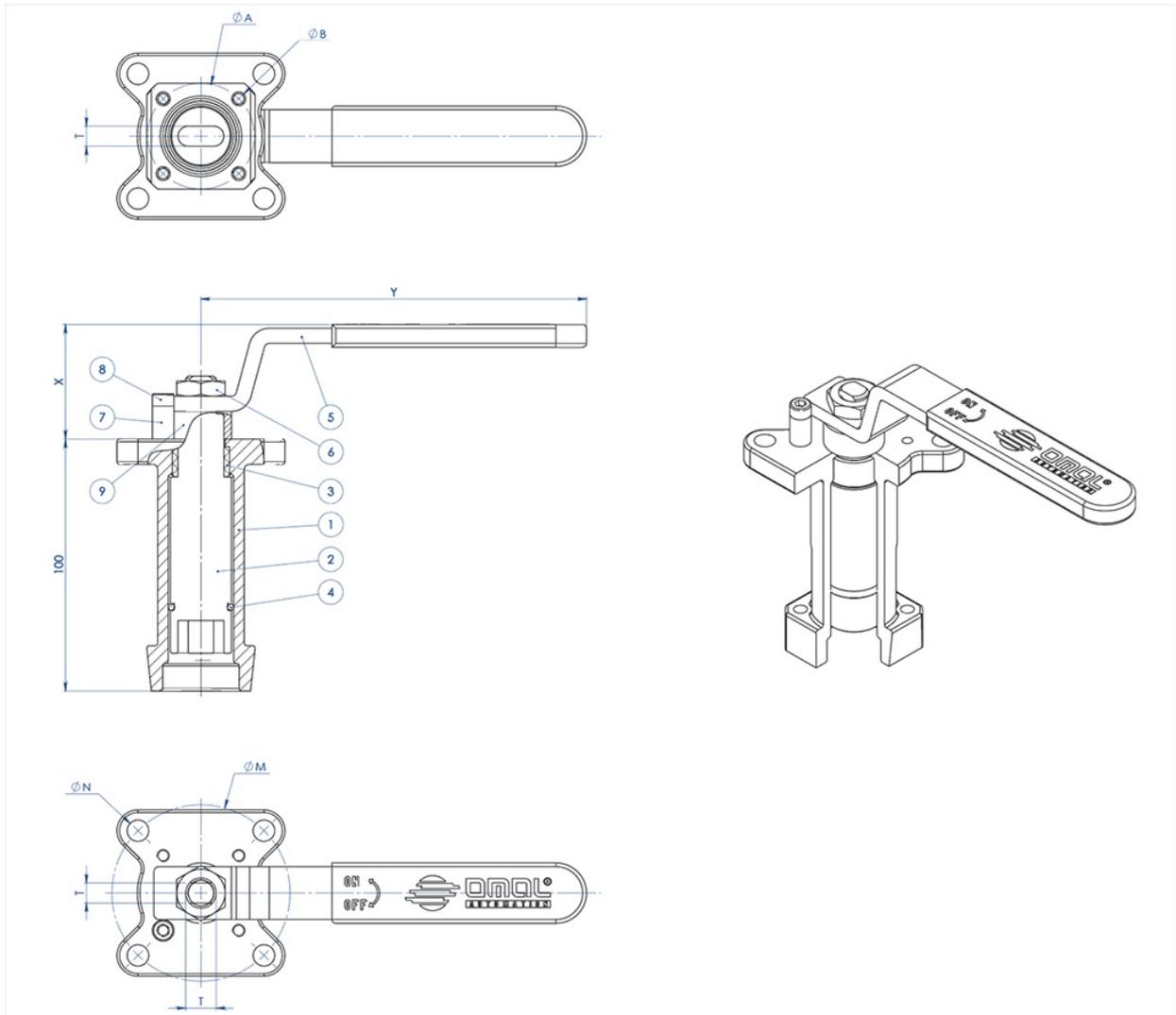
(\*): If not lubricated fluids and/or fluids containing solid particles are intercepted, torques could be higher than those in the table. Torque can vary depending on temperature and type of fluid, a safety factor 1.4 must be applied. Torque can drop on high frequency of operation.

The sizing of pneumatic actuators has been done considering a minimum supply pressure of 5,6 barg.



accessories

**CASTING STEM EXTENSION WITH LEVER**



**MATERIALS**

| PART. N° | DESCRIPTION  | MATERIAL                    |
|----------|--------------|-----------------------------|
| 1        | Extension    | AISI304 S.S.                |
| 2        | Pin          | AISI 430 F                  |
| 3        | Bush         | DELRIN                      |
| 4        | O-RING       | NBR                         |
| 5        | Lever        | Fe 37 galvanized (*)        |
| 6        | Nut          | galvanized carbon steel (*) |
| 7        | Holder Lever | galvanized carbon steel (*) |
| 8        | Holder screw | A2-70                       |
| 9        | Spacer       | PTFE Carbon Filled          |

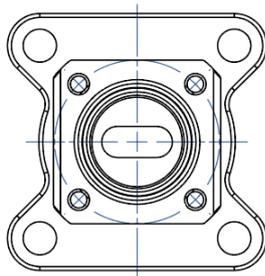
(\*): On request available in Aisi 304 s.s.



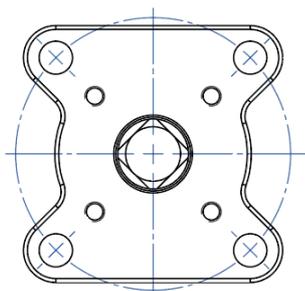
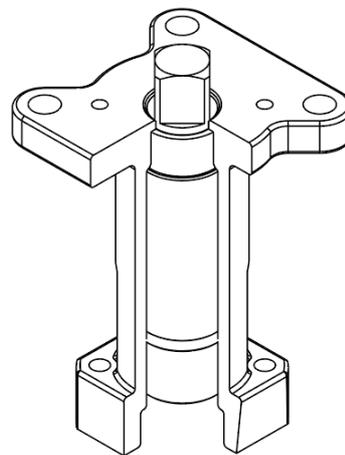
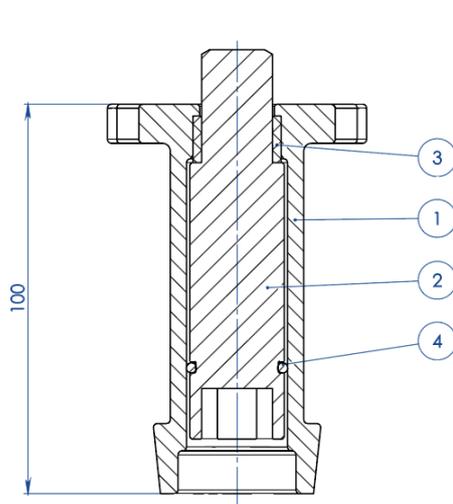
| DIMENSIONS |     |     |     |     |       |      |       |
|------------|-----|-----|-----|-----|-------|------|-------|
| ISO VALVE  | ØA  | ØB  | ØM  | ØN  | F/T   | X    | Y     |
| F03        | 36  | 5,5 | 36  | 5,5 | 10/6  | 38,5 | 141,5 |
| F04        | 42  | 5,5 | 42  | M5  | 12/8  | 45,5 | 151,5 |
| F05        | 50  | 6,5 | 50  | 6,5 | 16/10 | 48,5 | 276,5 |
| F07        | 70  | 8,5 | 70  | 8,5 | 22/14 | 57,5 | 351,5 |
| F10        | 102 | 11  | 102 | 11  | 30/18 | 79,5 | 451,5 |

**NOTE:** Code of the spindle extension depending from drive's type and valve's connection; to be requested at the order.

**CASTING STEM EXTENSION FOR ACTUATORS**



**NOTA:** Le dimensioni dipendono dalle dimensioni dell'attacco valvola  
**NOTE:** Dimensions depending from valve's connection



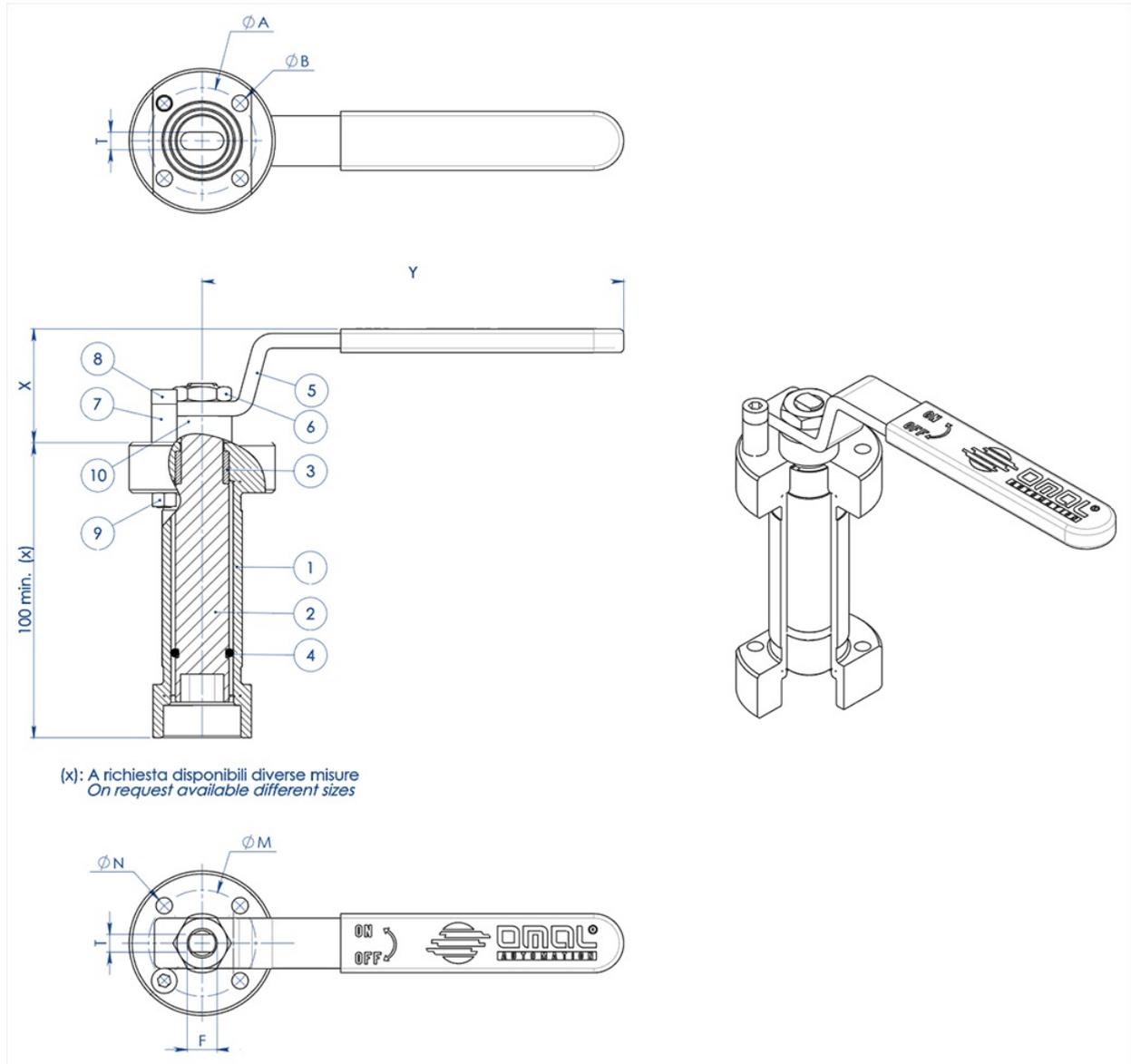
**NOTA:** Le dimensioni dipendono dalla taglia dell'attuatore  
**NOTE:** Dimensions depending from actuator's size



| MATERIALS |             |                |
|-----------|-------------|----------------|
| PART. N°  | DESCRIPTION | MATERIAL       |
| 1         | Extension   | ASTM A351 CF8M |
| 2         | Pin         | AISI 430 F     |
| 3         | Bush        | DELRIN         |
| 4         | O-RING      | NBR            |

NOTE: Code of the spindle extension depending from drive's type and valve's connection; to be requested at the order

### WELDED STEM EXTENSION WITH LEVER





| MATERIALS |              |                             |
|-----------|--------------|-----------------------------|
| PART. N°  | DESCRIPTION  | MATERIAL                    |
| 1         | Extension    | 304 s.s.                    |
| 2         | Pin          | AISI 430 F                  |
| 3         | Bush         | DELTRIN                     |
| 4         | O-Ring       | NBR                         |
| 5         | Lever        | Fe 37 galvanized (*)        |
| 6         | Nut          | galvanized carbon steel (*) |
| 7         | Holder Lever | galvanized carbon steel (*) |
| 8         | Holder screw | A2-70                       |
| 9         | Holder nut   | A2-70 (**)                  |
| 10        | Spacer       | PTFE Carbon Filled          |

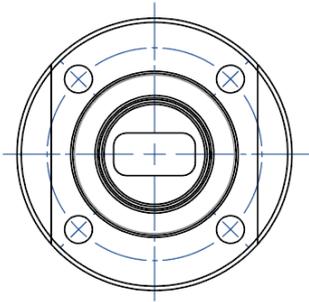
(\*): On request available in Aisi 304 s.s.

(\*\*): No available on valves with Iso connection F04

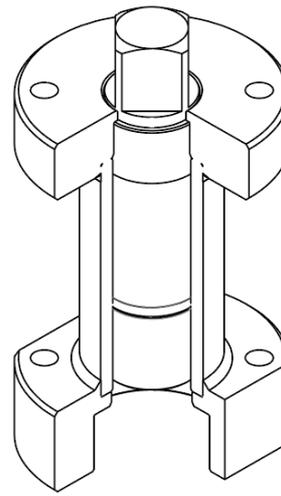
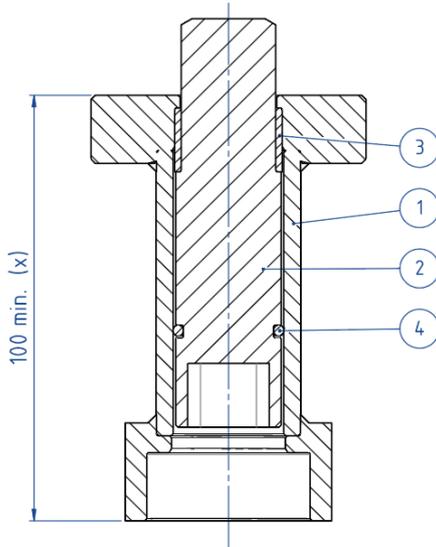
| DIMENSIONS |     |     |     |     |       |      |       |
|------------|-----|-----|-----|-----|-------|------|-------|
| ISO VALVE  | ØA  | ØB  | ØM  | ØN  | F/T   | X    | Y     |
| F03        | 36  | 5,5 | 36  | 5,5 | 10/6  | 38,5 | 141,5 |
| F04        | 42  | 5,5 | 42  | M5  | 12/8  | 45,5 | 151,5 |
| F05        | 50  | 6,5 | 50  | 6,5 | 16/10 | 48,5 | 276,5 |
| F07        | 70  | 9   | 70  | 9   | 22/14 | 57,5 | 351,5 |
| F10        | 102 | 11  | 102 | 11  | 30/18 | 79,5 | 451,5 |

**NOTE:** Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.

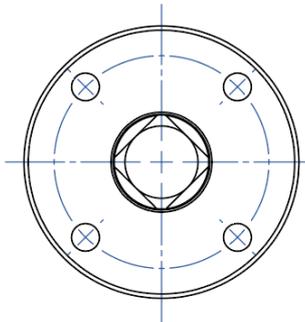
#### WELDED STEM EXTENSION FOR ACTUATORS



**NOTA: Le dimensioni dipendono dalle dimensioni dell'attacco valvola**  
**NOTE: Dimensions depending from valve's connection**



(x): A richiesta disponibili diverse misure  
*On request available different sizes*



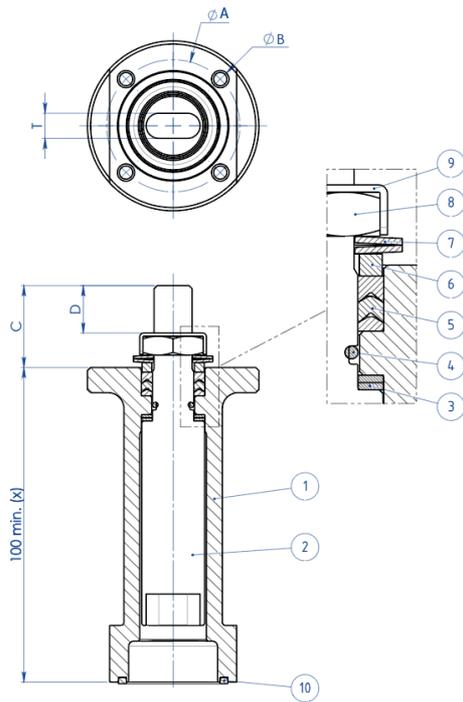
**NOTA: Le dimensioni dipendono dalla taglia dell'attuatore**  
**NOTE: Dimensions depending from actuator's size**

| MATERIALS |             |            |
|-----------|-------------|------------|
| PART. N°  | DESCRIPTION | MATERIAL   |
| 1         | Extension   | 304 S.S.   |
| 2         | Pin         | AISI 430 F |
| 3         | Bush        | DELRIN     |
| 4         | O-RING      | NBR        |

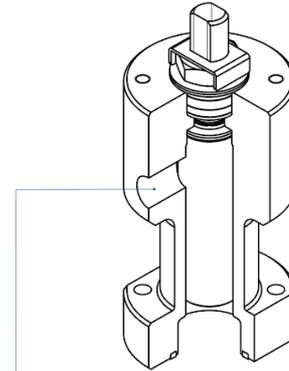
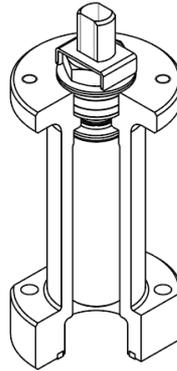
**NOTE:** Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.



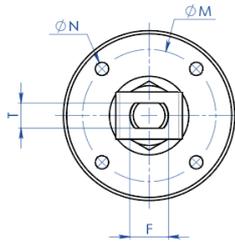
**STEM EXTENSION WITH ADDITIONAL SEAL**



(x): A richiesta disponibili diverse misure  
On request available different sizes



A richiesta disponibile anche la versione con presa per Sniffer  
Stem extension with sniffer also available on request



**MATERIALS**

| PART. N° | DESCRIPTION        | MATERIAL                 |
|----------|--------------------|--------------------------|
| 1        | Extension          | 304 s.s.                 |
| 2        | Pin                | A564 TP.630 (17-4ph)     |
| 3        | Bottom Sealing     | TFM1600                  |
| 4        | O-Ring             | FKM                      |
| 5        | Chevron Ring       | TFM1600                  |
| 6        | Packing Gland Ring | 304 s.s.                 |
| 7        | Spring Washer      | 50CrV4 Galvanized        |
| 8        | Stem Nut           | UNI 3740-1 6S Galvanized |
| 9        | Stop Nut Plate     | 304 s.s.                 |
| 10       | Gasket             | GRAFOIL                  |



| DIMENSIONS |     |      |     |     |       |      |      |
|------------|-----|------|-----|-----|-------|------|------|
| ISO VALVE  | ØA  | ØB   | ØM  | ØN  | F/T   | C    | D    |
| F03        | 36  | 5,5  | 36  | M5  | 10/6  | 20   | 10,2 |
| F04        | 42  | 5,5  | 42  | M5  | 12/8  | 26   | 15,1 |
| F05        | 50  | 6,5  | 50  | M6  | 16/10 | 35   | 21,2 |
| F07        | 70  | 8,5  | 70  | M8  | 22/14 | 47,5 | 28,4 |
| F10        | 102 | 10,5 | 102 | M10 | 30/18 | 61   | 35,2 |

**NOTE:** Code of the spindle extension depending from drive's type and valve's connection; to be requested at the order.



**OMAL**<sup>®</sup>  
A U T O M A T I O N

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## documents

### Certificati

TA LUFT - MAGNUM & THOR

ATEX - Ball Valves

SIL IEC 61508 - MAGNUM & THOR

FUGITIVE EMISSION DN25 CL.300 T1-T2-T3-M1-M4-M5-M6

FUGITIVE EMISSION DN100 CL.300 T1-T2-T3-M1-M4-M5-M6

PED

FIRE SAFE - SPLIT BODY DN100-200 API6FA - ANSI

FIRE SAFE - SPLIT BODY DN50-100 API6FA - ANSI

FIRE SAFE - SPLIT BODY DN100-200 A105

FIRE SAFE - SPLIT BODY DN15-100 A105

API Licence number 6D-1007

UKCA

### Istruzioni

ISTRUZIONI ATEX 8\_0486

ISTRUZIONI USO 8\_0844-35

### Manuali

MANUALE UMAH1000