# BALL VALVE
# FIG. 11

ALFA VALVOLE

## GENERAL FEATURES:
- Full bore ball valve, DN 10 - DN 100
- Available in PN 16 (DN 65 - DN 100) and PN 40 (DN 10 - DN 50)
- With threaded holes according to EN 1092-1 / DIN 2501
- With heating jacket
- Anti-static device
- Anti blow-out stem
- Mounting flange according to ISO 5211, DIN 3337

## FIGURE:
**11AIT:** in steel ASTM A 105
**11IITA:** in stainless steel ASTM A479 F304
**11IITB:** in stainless steel ASTM A479 F316



CE

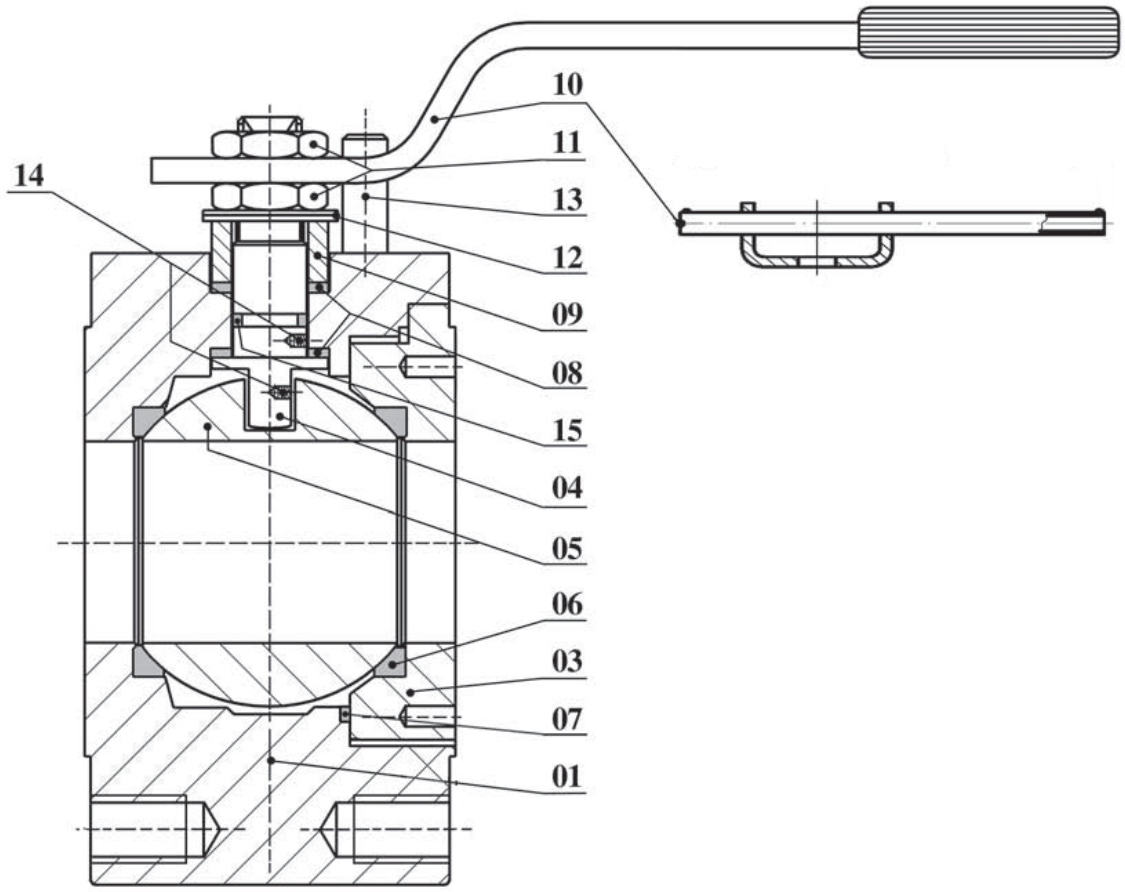
TÜV
TA Luft

Ex
ATEX

| DESIGN STANDARDS | |
|---|---|
| Flanges | DIN 2501, EN 1092-1 |
| Actuator mounting flange | ISO 5211, DIN 3337 |
| Marking | EN 19, CE-PED Module H (Category III) |
| **TESTS AND CERTIFICATES** | |
| Quality Assurance | ISO 9001, CE-PED Module H (Category III) |
| Pressure testing | EN 12266 |
| Other | ATEX: II 2 GD c T6 X, TA Luft |

Subject to changes

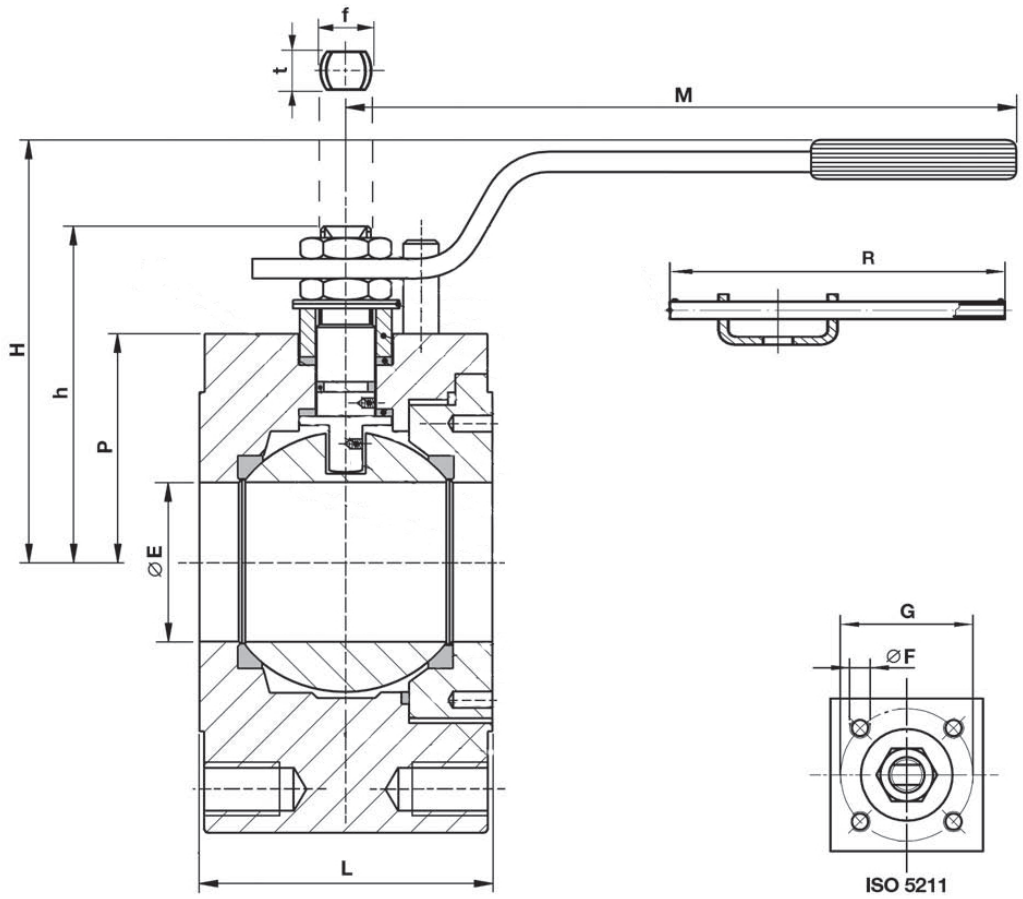
# BALL VALVE
# FIG. 11 - Materials




| Item | Description | Materials | | |
|---|---|---|---|---|
| | | 11AIT | 11IITA | 11IITB |
| 1 | Body | ASTM A 105 | ASTM A479 F304 | ASTM A479 316/316L |
| 3 | Closure | ASTM A 105 | ASTM A479 F304 | ASTM A479 316/316L |
| 4 | Stem | ASTM A479 F6a (AISI 410) | ASTM A182 316/316L | |
| 5 | Ball | ASTM A351 CF8 | ASTM A351 CF8M | |
| 6 | Seats | TFM | | |
| 7 | Body gasket | PTFE + graphite | PTFE | |
| 8 | Washer | PTFE + graphite | PTFE | |
| 9 | Gland | CF9SMnPb36 UNI 4838, zinc plated | AISI 316 | |
| 10 | Lever | Fe37 UNI 7070, zinc plated | | |
| 11 | Nut/lock nut | Cl.8 | A4-40 (AISI 316) | |
| 12 | Spring washer | 51 CrV4, zinc plated | AISI 316 | |
| 13 | Stop device | Cl. 8.8, zinc plated | AISI 316 | |
| 14 | Antistatic device | AISI 316 | | |
| 15 | Stem O-ring | Viton | | |

Subject to changes

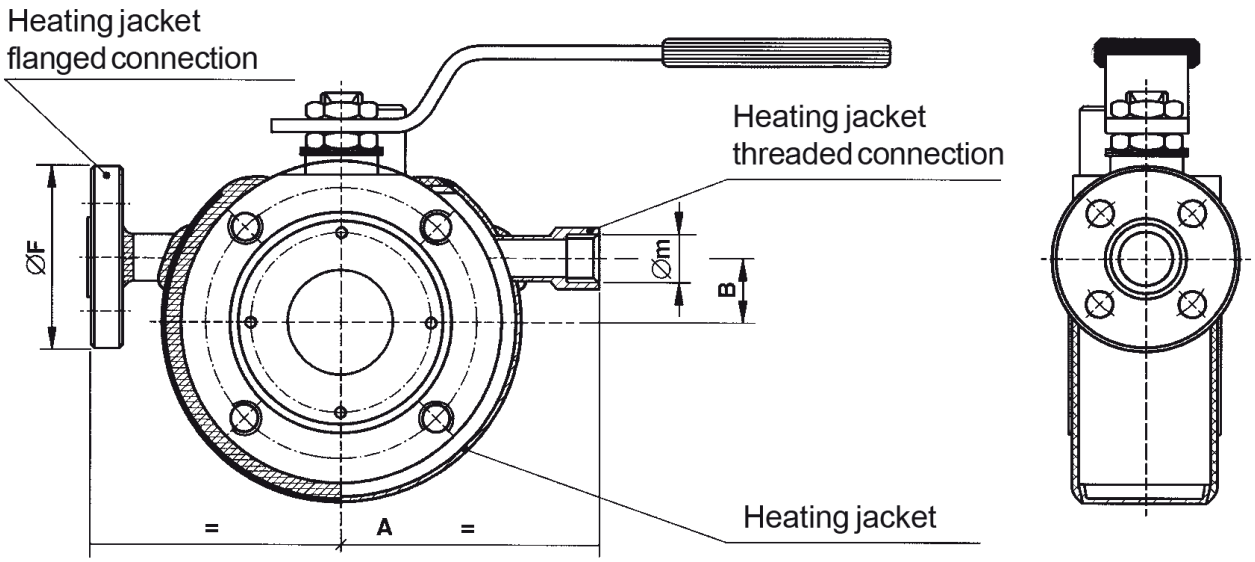
# BALL VALVE
# FIG. 11 - Dimensions




**DIMENSIONS:** (mm)

| DN | Ø | ØE | L | M | R | H | h | P | f | t | ISO 5211 | ØF | G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 3/8" | 14 | 36 | 150 | - | 84 | 52 | 33 | 10 | 6 | F03 | M5 | 36 |
| 15 | 1/2" | 14 | 36 | 150 | - | 84 | 52 | 33 | 10 | 6 | F03 | M5 | 36 |
| 20 | 3/4" | 19 | 39 | 150 | - | 87 | 54 | 36 | 10 | 6 | F03 | M5 | 36 |
| 25 | 1" | 24 | 43 | 185 | - | 95 | 69 | 43 | 12 | 8 | F03 | M5 | 36 |
| 32 | 1 1/4" | 29 | 51 | 185 | - | 99 | 72 | 48 | 12 | 8 | F03 | M5 | 36 |
| 40 | 1 1/2" | 38 | 63 | 275 | - | 118 | 95 | 63 | 16 | 10 | F05 | M6 | 50 |
| 50 | 2" | 48 | 83 | 275 | - | 126 | 101 | 68,5 | 16 | 10 | F05 | M6 | 50 |
| 65 | 2 1/2" | 64 | 107 | 380 | - | 143 | 122 | 82 | 22 | 14 | F07 | M8 | 70 |
| 80 | 3" | 76 | 120 | 380 | - | 149 | 127 | 88,5 | 22 | 14 | F07 | M8 | 70 |
| 100 | 4" | 95 | 152 | 440 | 500 | 185 | 151 | 103 | 30 | 18 | F10 | M10 | 102 |
| 125 | 5" | 118 | 180 | 440 | 500 | 200 | 167 | 122 | 30 | 18 | F10 | M10 | 102 |
| 150 | 6" | 152 | 243 | - | 800 | 273 | 220 | 153 | 45 | 30 | F14 | M16 | 140 |
| 200 | 8" | 203 | 314 | - | 800 | 322 | 270 | 200 | 52 | 30 | F14 | M16 | 140 |

Subject to changes




**DIMENSIONS:** (mm)

| DN | Ø | A | B | Øm | ØF PN16 | kg |
|---|---|---|---|---|---|---|
| 10 | 3/8" | 160 | 0 | Ø 1/2" gas | DN 15 | 3 |
| 15 | 1/2" | 160 | 0 | Ø 1/2" gas | DN 15 | 3 |
| 20 | 3/4" | 160 | 0 | Ø 1/2" gas | DN 15 | 3,5 |
| 25 | 1" | 190 | 0 | Ø 1/2" gas | DN 15 | 4,5 |
| 32 | 1 1/4" | 210 | 25 | Ø 1/2" gas | DN 15 | 6 |
| 40 | 1 1/2" | 230 | 30 | Ø 1/2" gas | DN 15 | 9 |
| 50 | 2" | 250 | 30 | Ø 1/2" gas | DN 15 | 11,5 |
| 65 | 2 1/2" | 270 | 45 | Ø 1/2" gas | DN 15 | 20 |
| 80 | 3" | 300 | 50 | Ø 1/2" gas | DN 15 | 25 |
| 100 | 4" | 340 | 70 | Ø 1" gas | DN 25 | 40 |
| 125 | 5" | 360 | 80 | Ø 1" gas | DN 25 | 60 |
| 150 | 6" | 420 | 95 | Ø 1" gas | DN 25 | 108 |
| 200 | 8" | 500 | 130 | Ø 1" gas | DN 25 | 146 |

Subject to changes

## PRESSURE-TEMPERATURE CHART:

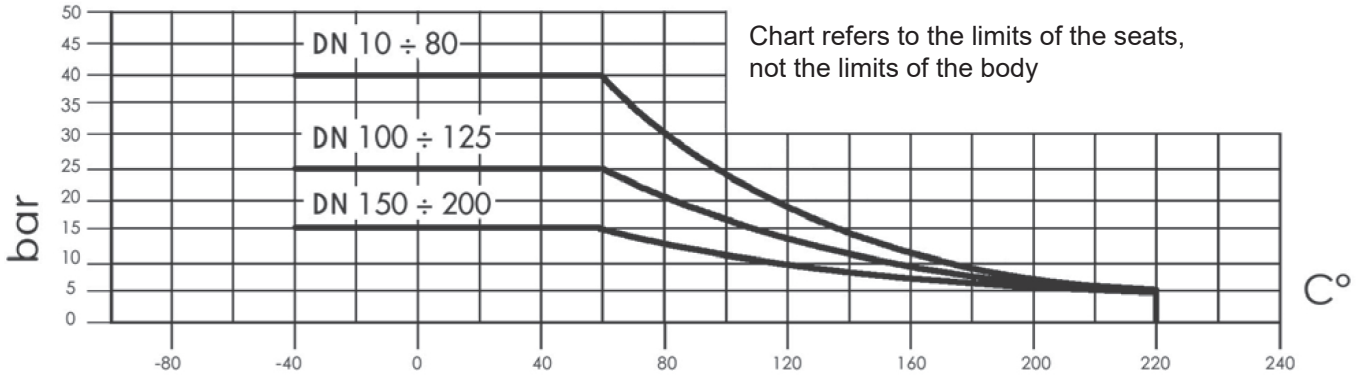



Chart refers to the limits of the seats, not the limits of the body

## TORQUES: (Nm)

| DN | Differential pressure | |
|---|---|---|
| | 16 bar | 40 bar |
| 10 | 4 | 5 |
| 15 | 6 | 9 |
| 20 | 9 | 13 |
| 25 | 13 | 18 |
| 32 | 15 | 21 |
| 40 | 28 | 39 |
| 50 | 36 | 50 |
| 65 | 64 | - |
| 80 | 76 | - |
| 100 | 127 | - |
| 125 | 153 | - |
| 150 | 319 | - |
| 200 | 509 | - |

Subject to changes