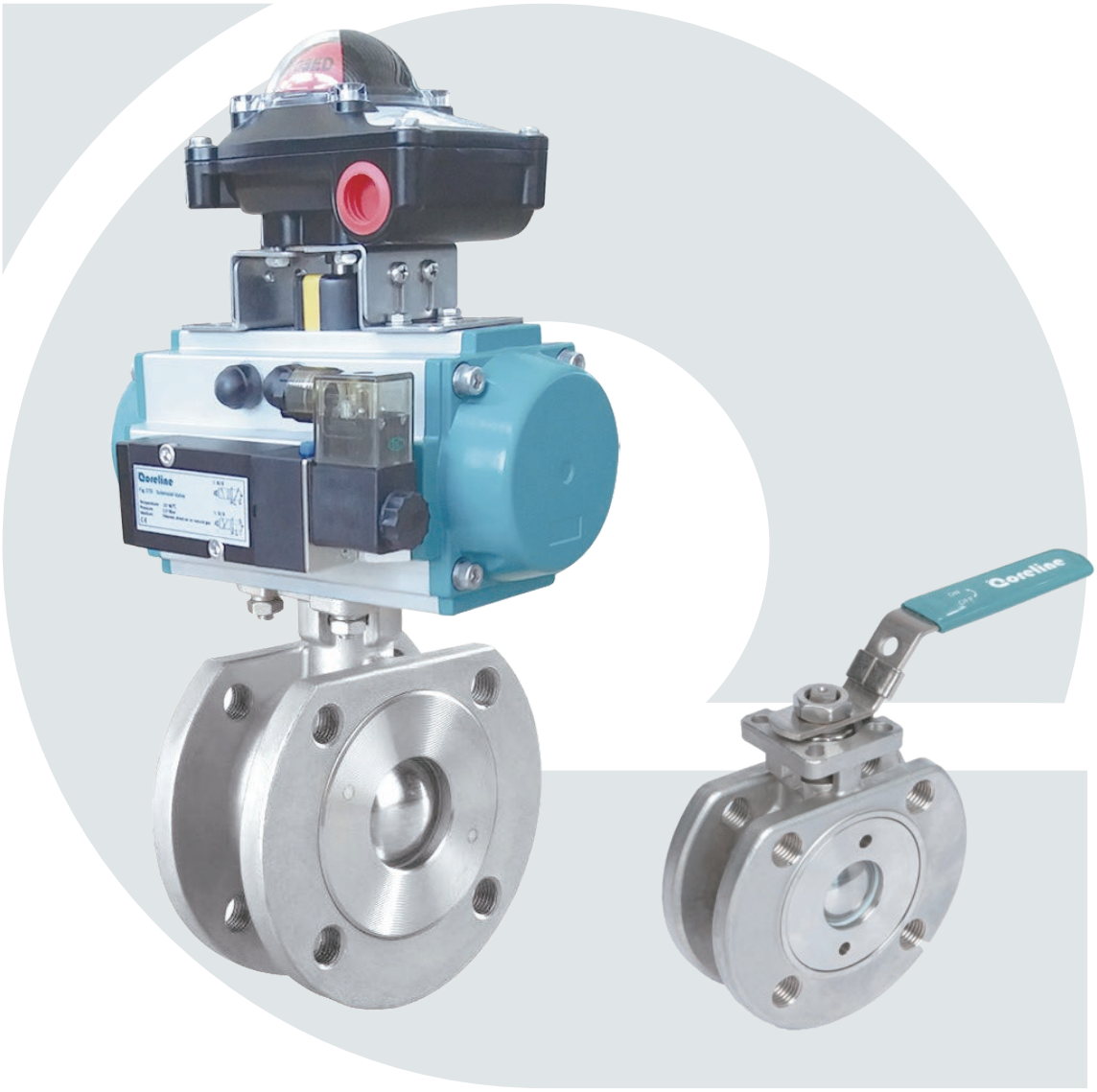
Coreline

# Wafer ball valve

## Fig.170




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# Fig.170 wafer ball valve with ISO mounting pad

## Features



- Wax casting with excellent surface finish.
- Full bore for better Kv value.
- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.
- ISO5211 direct mounting pad for easy automation.

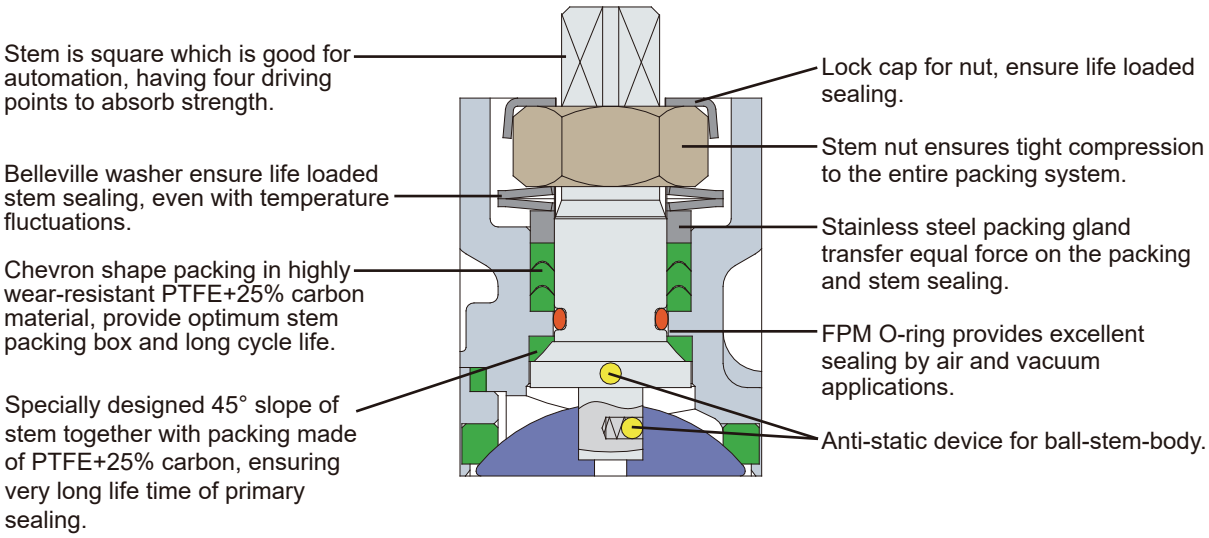
## Specifications

| | |
|---|---|
| Connection: | Flanged ends according to EN1092-1 |
| Size range: | DN15 to DN150 |
| Pressure rating: | DN15-DN50: PN16/PN40 |
| | DN65-DN150: PN16 |
| Body: | Stainless steel 316, carbon steel |
| Ball/stem: | Stainless steel 316 |
| Seat: | PTFE |
| Top flange: | ISO5211 |
| Tightness: | ANSI/FCI 70-2 - Class VI |
| | ISO 5208 / EN 12266-1 - Rate A |
| | API 598 - Bubble-tight |

** Other materials or end connection are available on request.*

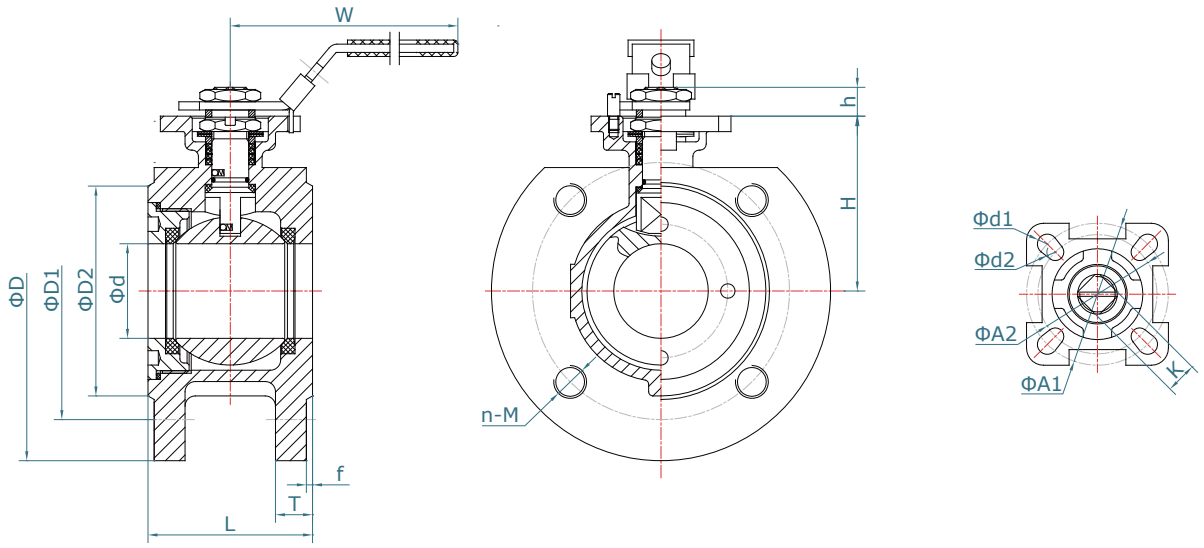
CE FDA SIL3

## Stem sealing system



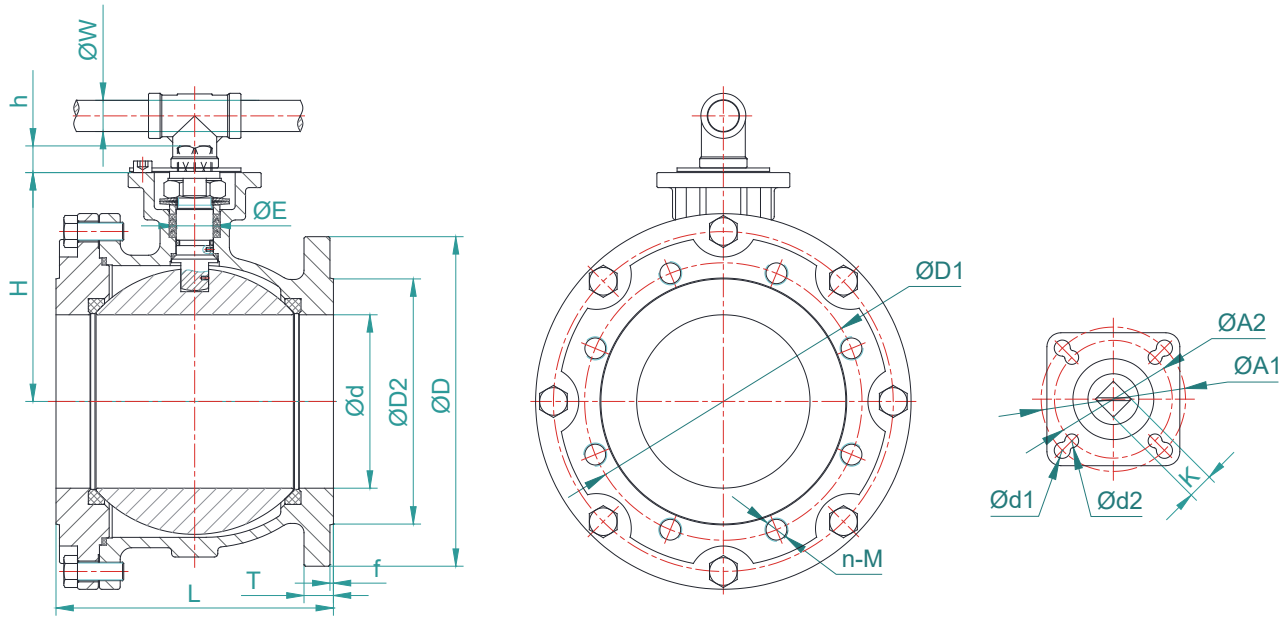
# Fig.170 wafer ball valve with ISO mounting pad

## *Dimensions DN15 - DN100*




| Size | | Valve with handle | | | | | | | | | | Mounting flange | | | | | | Stem | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INCH | DN | d | L | H | W | D | D1 | D2 | T | f | n-M | ISO5211 | A1 | d1 | ISO5211 | A2 | d2 | K | h |
| 1/2" | 15 | 15 | 42 | 54 | 135 | 82 | 65 | 45 | 16 | 2 | 4-M12 | F04 | 42 | 6 | F03 | 36 | 6 | 9 | 9 |
| 3/4" | 20 | 20 | 44 | 59 | 135 | 98 | 75 | 58 | 16 | 2 | 4-M12 | F04 | 42 | 6 | F03 | 36 | 6 | 9 | 9 |
| 1" | 25 | 25 | 50 | 65 | 175 | 115 | 85 | 68 | 16 | 2 | 4-M12 | F05 | 50 | 7 | F04 | 42 | 6 | 11 | 11 |
| 11/4" | 32 | 32 | 60 | 75 | 175 | 140 | 100 | 78 | 18 | 2 | 4-M16 | F05 | 50 | 7 | F04 | 42 | 6 | 11 | 11 |
| 11/2" | 40 | 38 | 65 | 83 | 220 | 150 | 110 | 88 | 18 | 3 | 4-M16 | F07 | 70 | 9 | F05 | 50 | 7 | 14 | 15 |
| 2" | 50 | 50 | 82 | 93 | 220 | 165 | 125 | 102 | 18 | 3 | 4-M16 | F07 | 70 | 9 | F05 | 50 | 7 | 14 | 15 |
| 21/2" | 65 | 65 | 103 | 107 | 300 | 185 | 145 | 122 | 18 | 3 | 4-M16 | F10 | 102 | 11 | F07 | 70 | 9 | 17 | 18 |
| 3" | 80 | 76 | 120 | 117 | 300 | 200 | 160 | 138 | 20 | 3 | 8-M16 | F10 | 102 | 11 | F07 | 70 | 9 | 17 | 18 |
| 4" | 100 | 100 | 150 | 128 | 300 | 220 | 180 | 158 | 20 | 3 | 8-M16 | F10 | 102 | 11 | F07 | 70 | 9 | 17 | 18 |

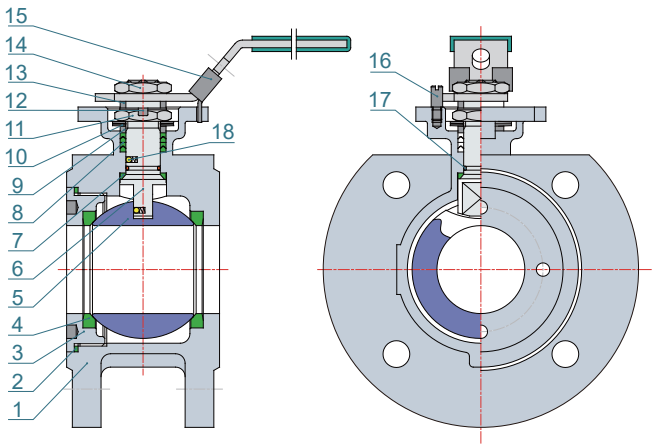
## *Dimensions DN125 - DN150*




| Size | | Valve with handle | | | | | | | | | | | Mounting flange | | | | | | Stem | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INCH | DN | d | L | H | D | D1 | D2 | E | W | T | f | n-M | ISO5211 | A1 | d1 | ISO5211 | A2 | d2 | K | h |
| 5" | 125 | 125 | 196 | 190 | 250 | 210 | 188 | 32 | 27 | 22 | 3 | 8-M16 | F12 | 125 | 14 | F10 | 102 | 11 | 22 | 24 |
| 6" | 150 | 150 | 234 | 198 | 285 | 240 | 212 | 32 | 27 | 22 | 3 | 8-M20 | F12 | 125 | 14 | F10 | 102 | 11 | 22 | 24 |

# Fig.170 wafer ball valve with ISO mounting pad

## *Material part list, technical data*

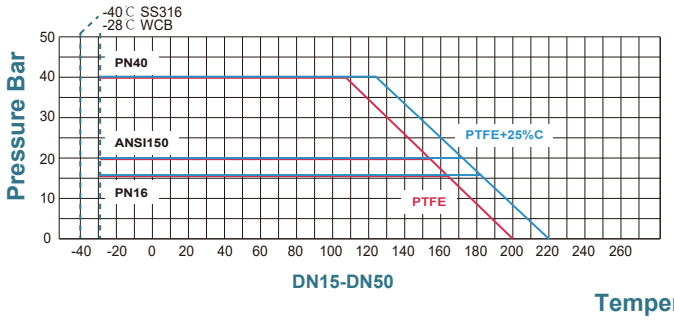


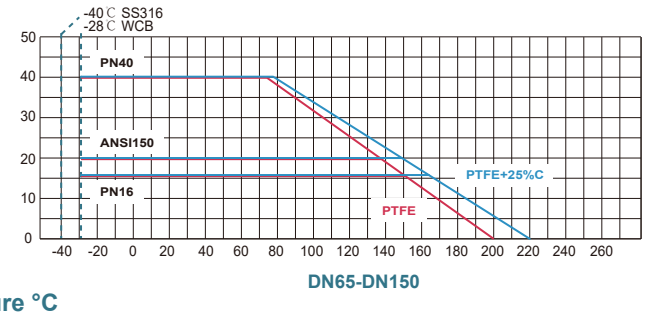

| No. | Part name | Material | | |
|---|---|---|---|---|
| 1 | Body | A351 CF8 | A351 CF8M | A216 WCB |
| 2 | Gasket | PTFE | | |
| 3 | Bonnet | A351 CF8 | A351 CF8M | A216 WCB |
| 4 | Seat | PTFE | | |
| 5 | Ball | AISI304 | AISI316 | AISI304 |
| 6 | Stem | AISI304 | AISI316 | AISI304 |
| 7 | Stem washer | PTFE | | |
| 8 | V-ring packing | PTFE | | |
| 9 | Gland | AISI304 | | |
| 10 | Belleville washer | AISI304 | | |
| 11 | Nut | AISI304 | | |
| 12 | Stop lock cap | AISI304 | | |
| 13 | Washer | AISI304 | | |
| 14 | Nut | AISI304 | | |
| 15 | Handle | AISI201 | | |
| 16 | Stop bolt | AISI304 | | |
| 17 | O-ring | FPM | | |
| 18 | Anti-static device | AISI304 | | |

| Size | | 1) Break away torque | 2) Kv - 90° | Weight |
|---|---|---|---|---|
| INCH | DN | [Nm] | [m³/h] | [kg] |
| 1/2" | 15 | 6.5 | 10 | 1.1 |
| 3/4" | 20 | 9.1 | 27 | 1.8 |
| 1" | 25 | 13 | 48 | 2.5 |
| 1 1/4" | 32 | 20.2 | 70 | 3.9 |
| 1 1/2" | 40 | 28.6 | 120 | 5.2 |
| 2" | 50 | 38.4 | 205 | 6.7 |
| 2 1/2" | 65 | 68 | 270 | 11.5 |
| 3" | 80 | 112 | 495 | 15 |
| 4" | 100 | 160 | 870 | 20.5 |
| 5" | 125 | 340 | 1320 | 45 |
| 6" | 150 | 680 | 1960 | 64 |

*1) The torque value is including a safety factor of 1.3 at max. pressure rating, clean water, PTFE sealing.*
*2) Kv-valve rated flow coefficients (m³/h at 1 bar △P)*

## *Pressure temperature curve*




Temperature °C

**Remark:**
*The pressure-temperature curve above represents the theoretical performance of PTFE and PTFE+25% carbon materials. However, actual pipeline conditions may impact the valve's overall performance. Please evaluate and consider the specific application conditions comprehensively.*


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