

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

Size : DN 15 to 150 mm (NPS 1/2" to 6")

Ends : Flanges ISO PN20 ANSI 150 R.F.

Min Temperature : - 10°C

Max Temperature : + 180°C

Max Pressure : 20 Bars

Specifications : ISO 5211 mounting pad
PTFE filled with glass seat
Anti blow-out stem
Double antistatic device

Materials : Carbon steel or stainless steel

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- Double antistatic device
- PTFE filled with glass seat
- Handle with locking device up to DN50 (NPS 2")
- ISO 5211 mounting pad
- 2 pieces type (Split body)
- Hollow ball for DN150 (NPS 6")
- Black anti-corrosive finish, 3-5µ thickness for carbon steel types Ref.793

USE :

- Chemical industries, petrochemical industries, hydraulic installation, heating and water distribution
- Min and max Temperature Ts : -10°C to + 180°C
- Max pressure Ps : 20 bars

RANGE :

- Ball valve with carbon steel body **Ref. 793** from DN 15 to DN 150 (NPS 1/2" to 6")
- Ball valve with stainless steel body **Ref. 794** from DN 15 to DN 150 (NPS 1/2" to 6")

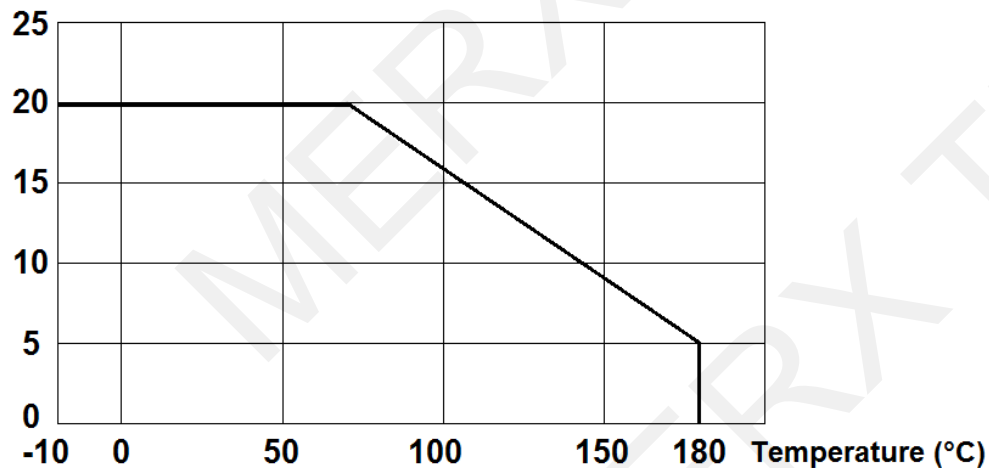
ENDS :

- R.F. flanges ISO PN20 ANSI 150

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

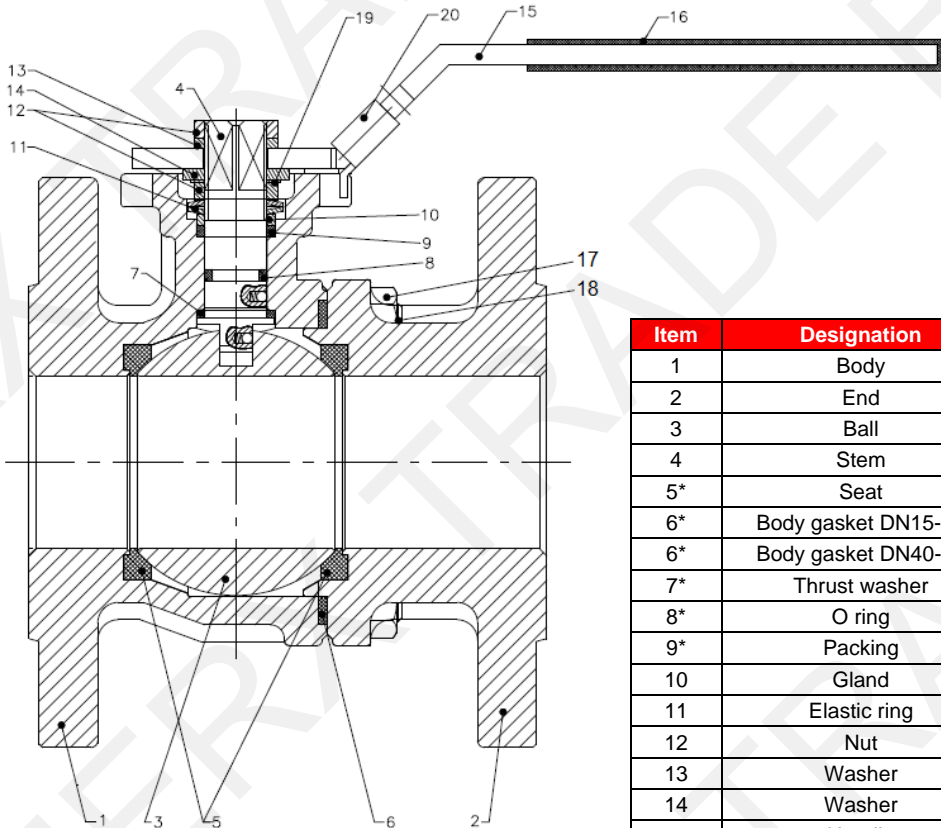
Pressure

(Bar)



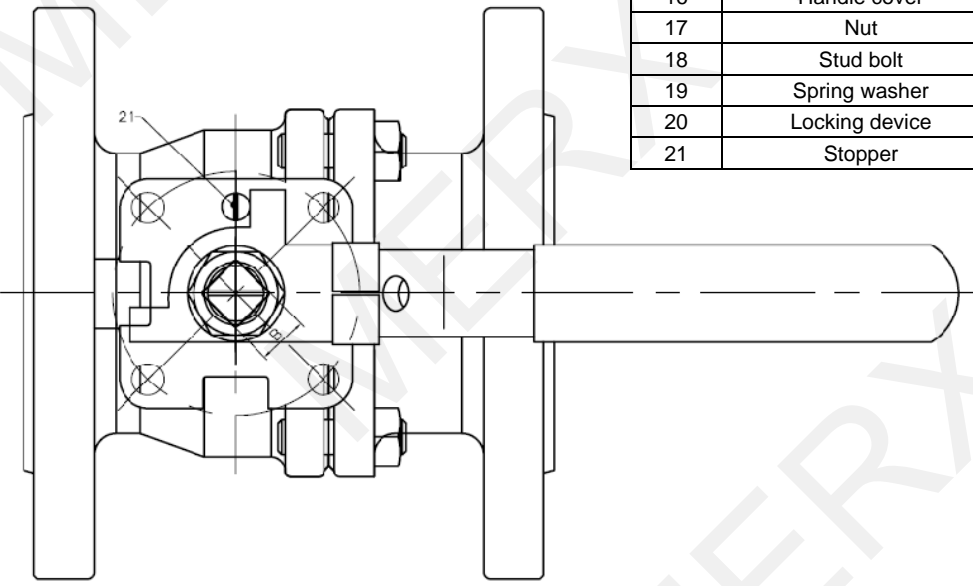
2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

MATERIALS DN 15 – 50 (NPS 1/2" to 2") :



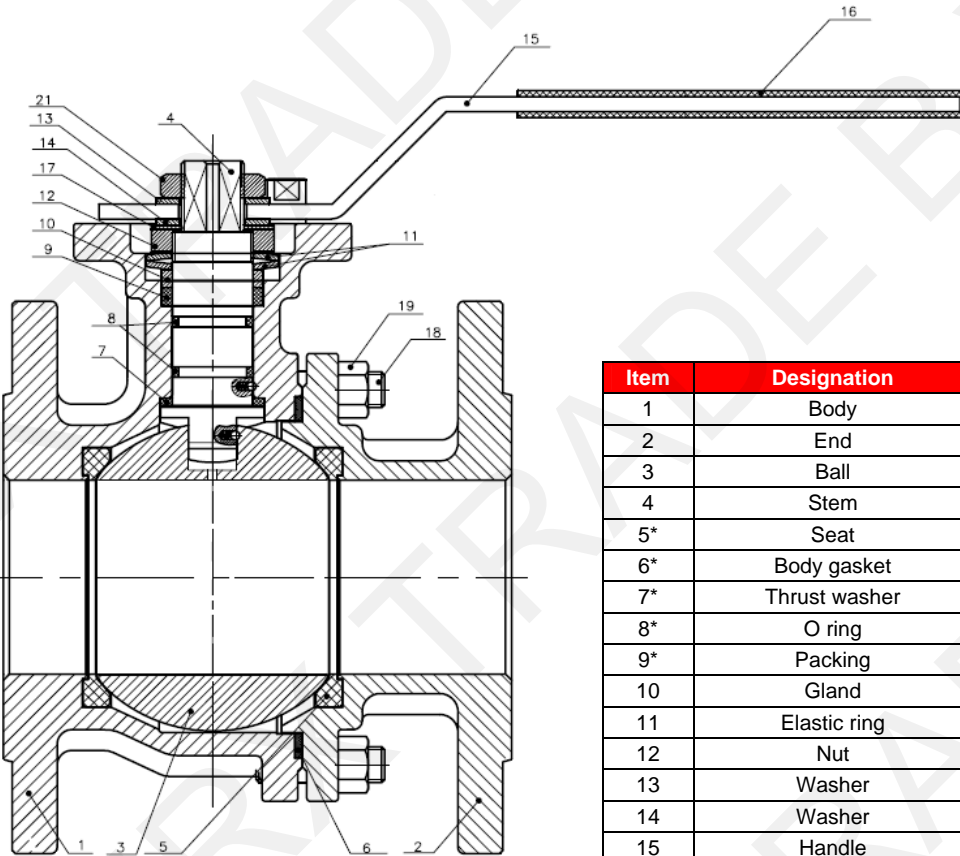
| Item | Designation | Materials 793 | Materials 794 |
|------|---------------------|---------------------------------|----------------|
| 1 | Body | ASTM A216 WCB | ASTM A351 CF8M |
| 2 | End | ASTM A216 WCB | ASTM A351 CF8M |
| 3 | Ball | SS 304 | SS 316 |
| 4 | Stem | SS 316 | |
| 5* | Seat | PTFE filled with 3% glass fiber | |
| 6* | Body gasket DN15-32 | PTFE filled with 15% graphite | |
| 6* | Body gasket DN40-50 | SS 304 + graphite | |
| 7* | Thrust washer | PTFE filled with 15% graphite | |
| 8* | O ring | FKM | |
| 9* | Packing | PTFE | |
| 10 | Gland | SS 304 | |
| 11 | Elastic ring | SS 301 | |
| 12 | Nut | SS 304 | |
| 13 | Washer | SS 304 | |
| 14 | Washer | SS 304 | |
| 15 | Handle | SS 304 | |
| 16 | Handle cover | Plastic | |
| 17 | Nut | SS 304 | |
| 18 | Stud bolt | SS 304 | |
| 19 | Spring washer | SS 304 | |
| 20 | Locking device | SS 304 | |
| 21 | Stopper | SS 304 | |

(* : Included in gaskets kit)



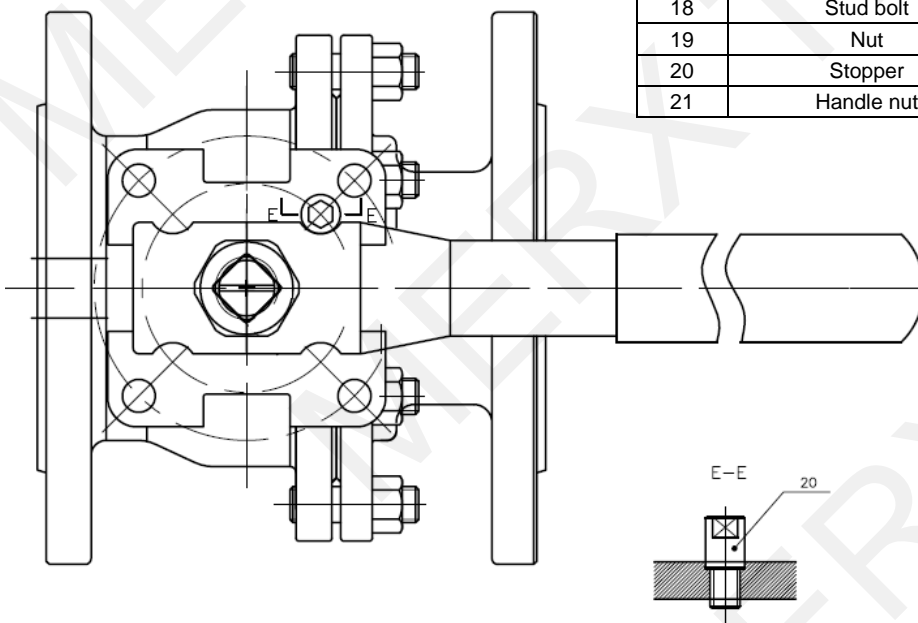
2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

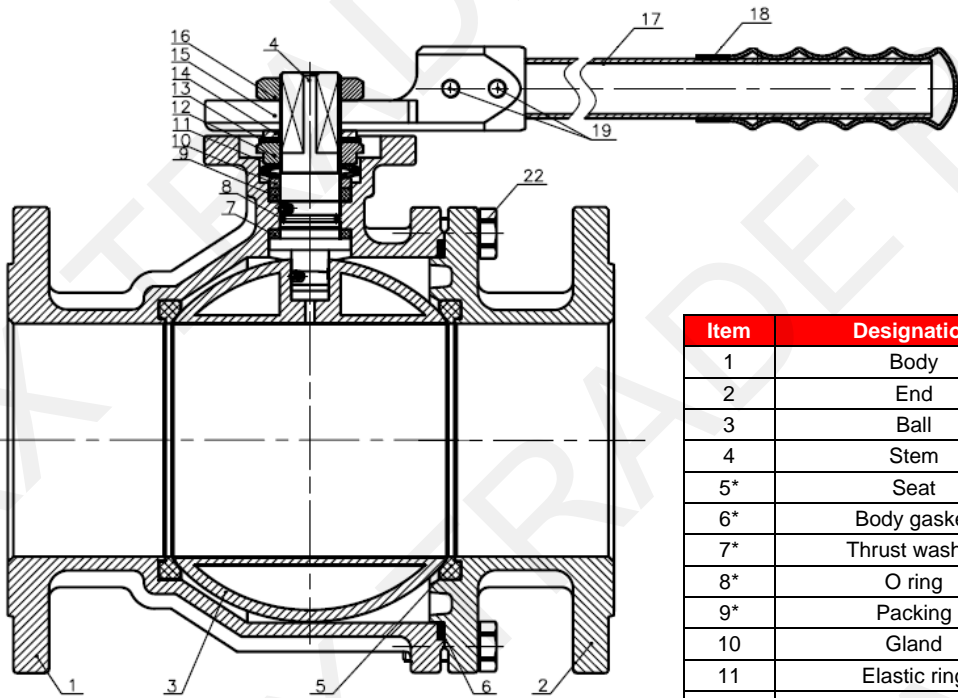
MATERIALS DN 65 - 100 (NPS 2"1/2 to 4") :



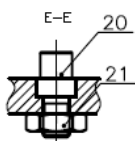
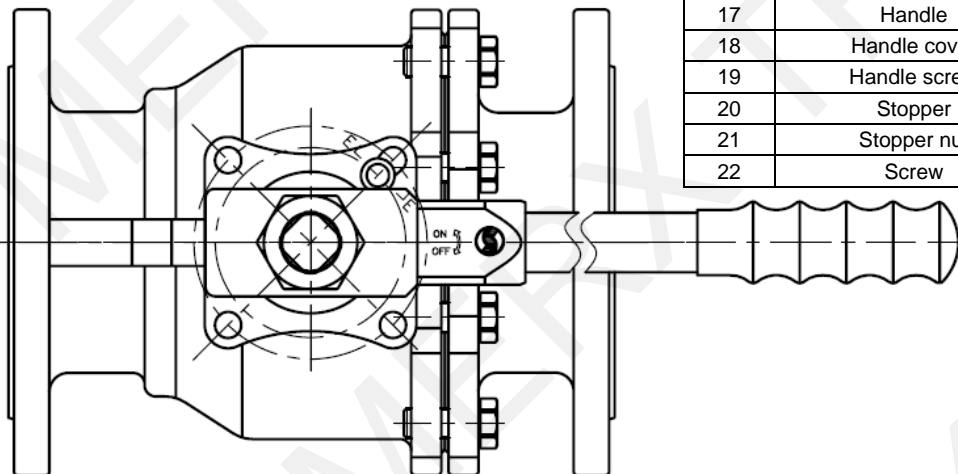
| Item | Designation | Materials 793 | Materials 794 |
|------|---------------|---------------------------------|----------------|
| 1 | Body | ASTM A216 WCB | ASTM A351 CF8M |
| 2 | End | ASTM A216 WCB | ASTM A351 CF8M |
| 3 | Ball | SS 304 | SS 316 |
| 4 | Stem | SS 316 | |
| 5* | Seat | PTFE filled with 3% glass fiber | |
| 6* | Body gasket | SS 304 + graphite | |
| 7* | Thrust washer | PTFE filled with 15% graphite | |
| 8* | O ring | FKM | |
| 9* | Packing | PTFE | |
| 10 | Gland | SS 304 | |
| 11 | Elastic ring | SS 301 | |
| 12 | Nut | SS 304 | |
| 13 | Washer | SS 304 | |
| 14 | Washer | SS 304 | |
| 15 | Handle | SS 304 | |
| 16 | Handle cover | Plastic | |
| 17 | Spring washer | SS 304 | |
| 18 | Stud bolt | SS 304 | |
| 19 | Nut | SS 304 | |
| 20 | Stopper | SS 304 | |
| 21 | Handle nut | SS 304 | |

(* : Included in gaskets kit)



2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150
MATERIALS DN 150 (NPS 6") :


| Item | Designation | Materials 793 | Materials 794 |
|------|----------------|---------------------------------|----------------|
| 1 | Body | ASTM A216 WCB | ASTM A351 CF8M |
| 2 | End | ASTM A216 WCB | ASTM A351 CF8M |
| 3 | Ball | SS 304 | SS 316 |
| 4 | Stem | SS 316 | |
| 5* | Seat | PTFE filled with 3% glass fiber | |
| 6* | Body gasket | SS 304 + graphite | |
| 7* | Thrust washer | PTFE filled with 15% graphite | |
| 8* | O ring | FKM | |
| 9* | Packing | PTFE | |
| 10 | Gland | SS 304 | |
| 11 | Elastic ring | SS 301 | |
| 12 | Nut | ASTM A351 CF8 | |
| 13 | Spring washer | SS 304 | |
| 14 | Washer | SS 304 | |
| 15 | Handle adaptor | ASTM A351 CF8 | |
| 16 | Nut | ASTM A351 CF8 | |
| 17 | Handle | SS 304 | |
| 18 | Handle cover | Plastic | |
| 19 | Handle screw | SS 304 | |
| 20 | Stopper | SS 304 | |
| 21 | Stopper nut | SS 304 | |
| 22 | Screw | SS 304 | |

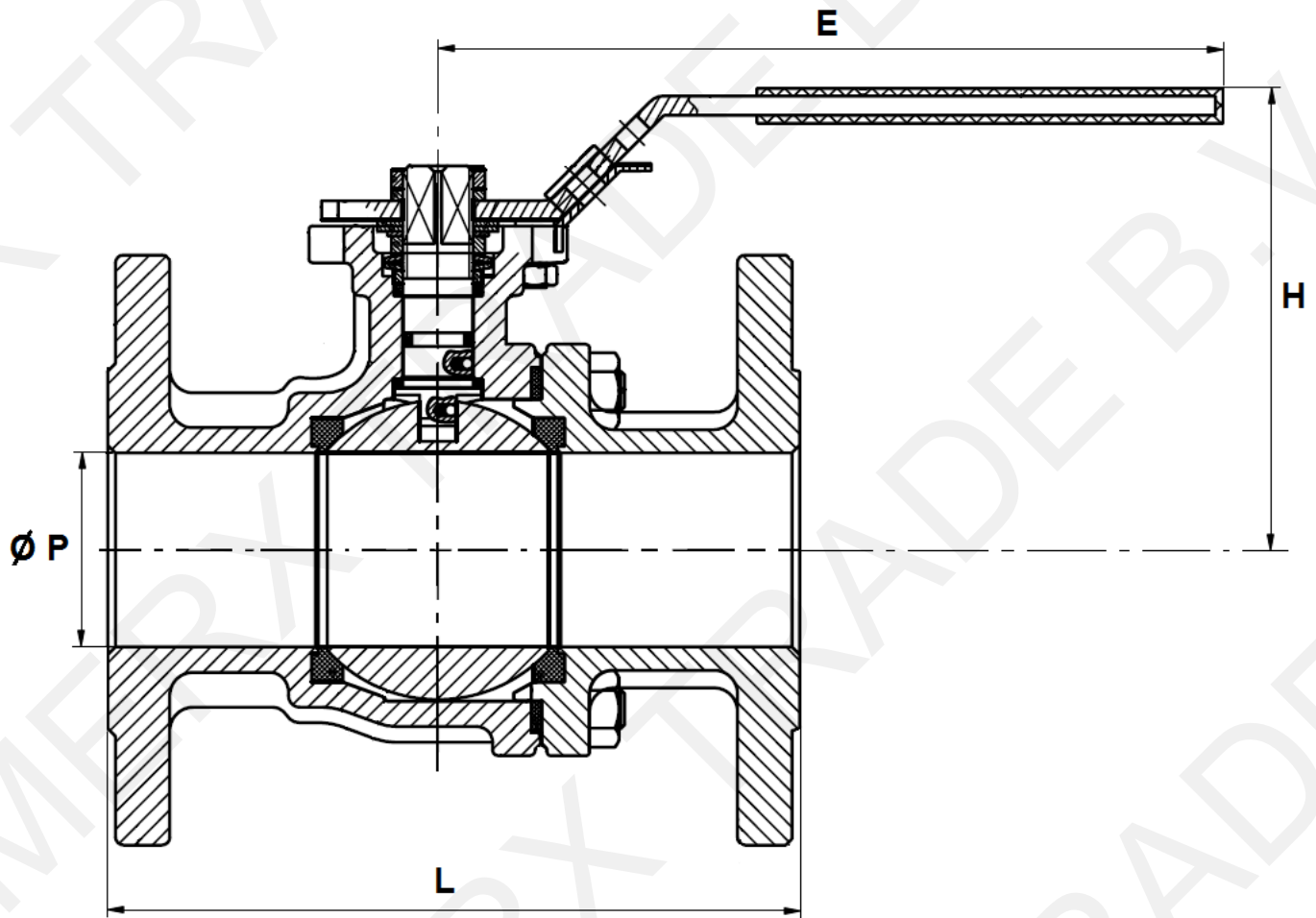


(* : Included in gaskets kit)

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

SIZE DN 15 – 50 (NPS 1/2" to 2") (in mm) :

DN 15 – 50 (NPS 1/2" to 2")

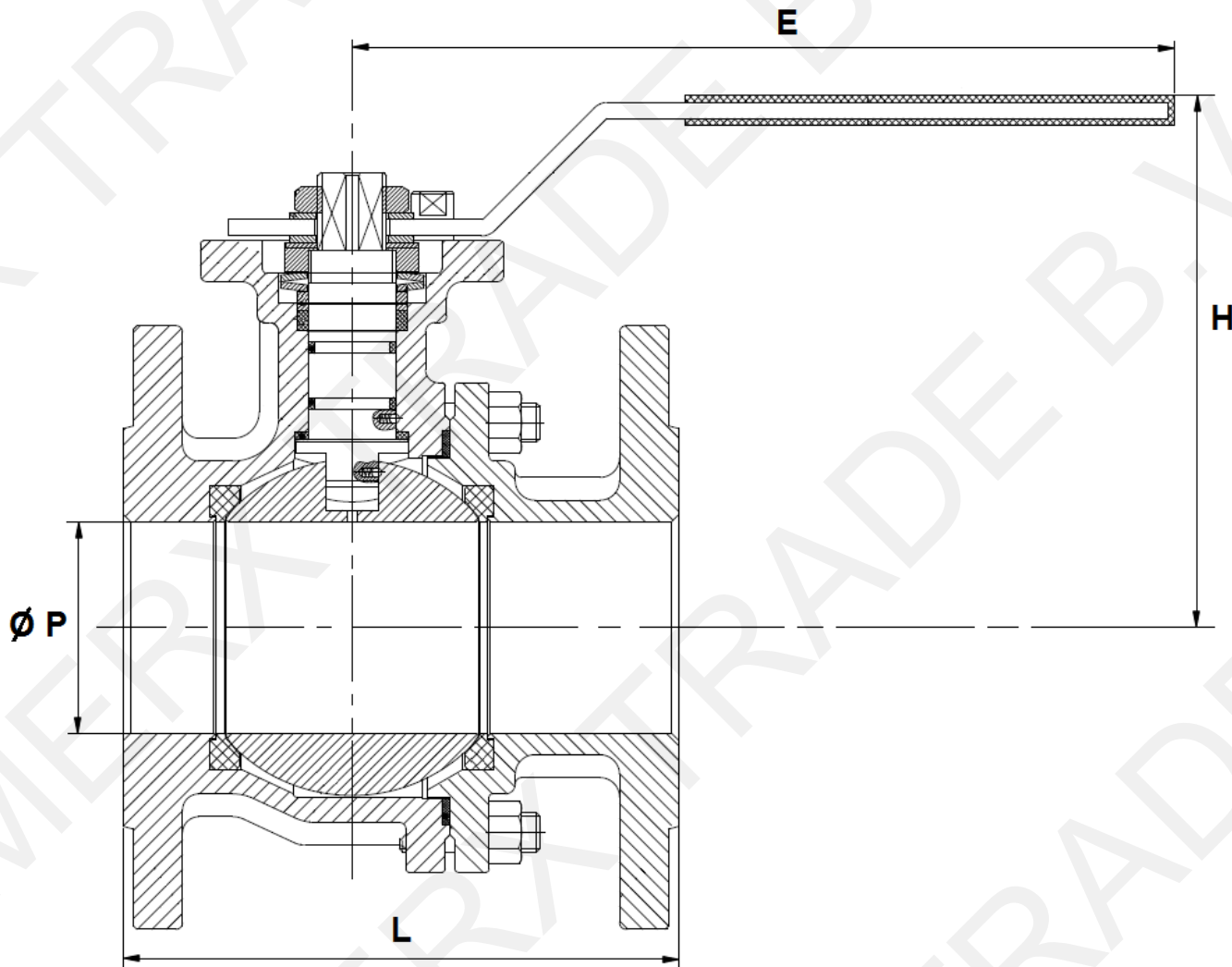


| Ref. | DN | 15 | 20 | 25 | 32 | 40 | 50 |
|-----------|--------------|-------|-------|-------|--------|--------|-------|
| | NPS | 1/2" | 3/4" | 1" | 1"1/4" | 1"1/2" | 2" |
| 793 / 794 | Ø P | 15 | 20 | 25 | 32 | 40 | 50 |
| | L | 108 | 117 | 127 | 140 | 165 | 178 |
| | E | 111.5 | 137.5 | 137.5 | 160 | 205 | 205 |
| | H | 75 | 82.5 | 87.5 | 107.5 | 108.5 | 116.5 |
| | Weight (Kg) | 1.58 | 1.84 | 2.85 | 3.65 | 6.3 | 8.15 |

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

SIZE DN 65 – 100 (NPS 2"1/2 to 4") (in mm) :

DN 65 – 100 (NPS 2"1/2 to 4")

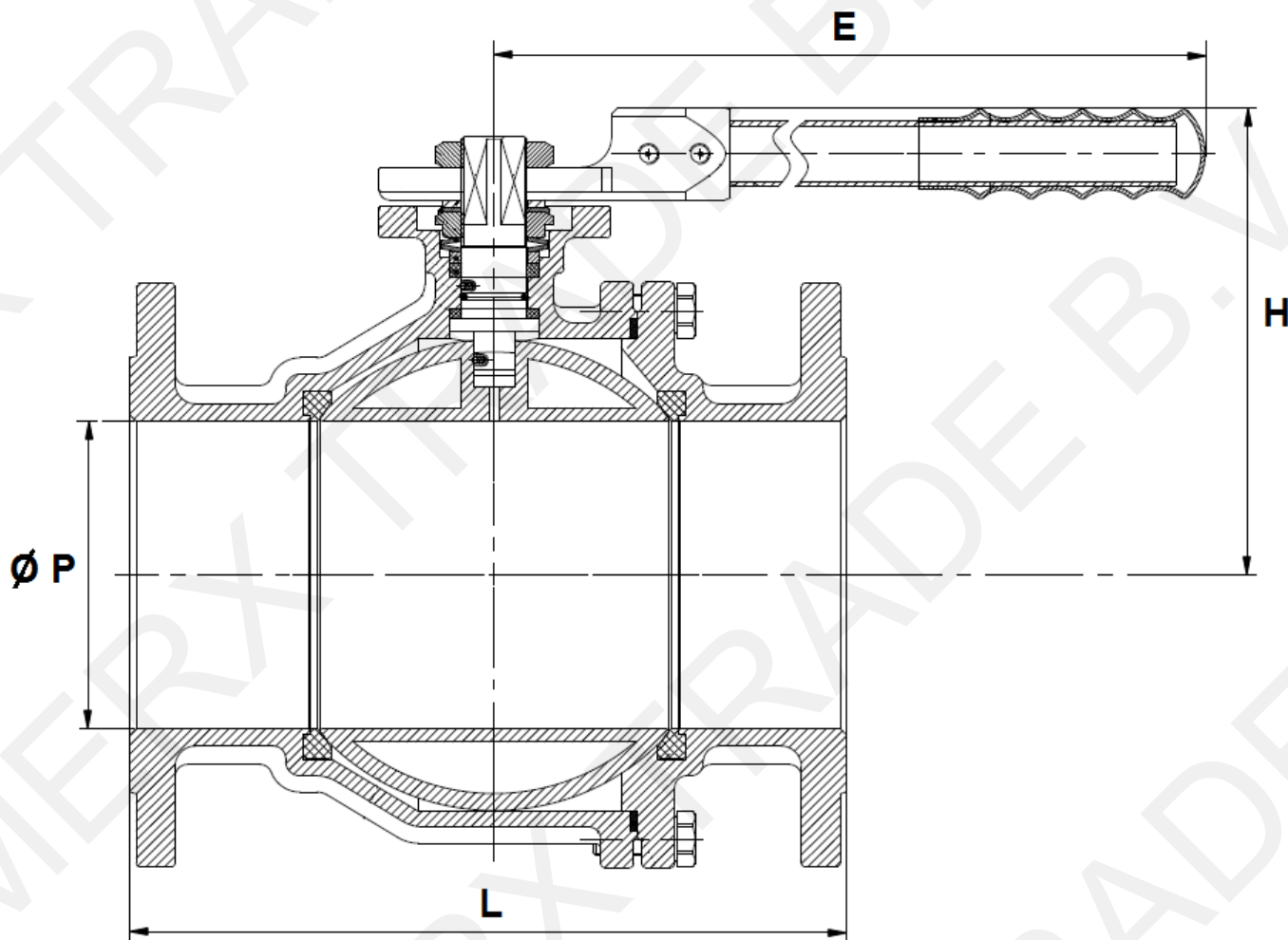


| Ref. | DN | 65 | 80 | 100 |
|-----------|-------------|-------|-------|-----|
| | NPS | 2"1/2 | 3" | 4" |
| 793 / 794 | Ø P | 65 | 80 | 100 |
| | L | 190 | 203 | 229 |
| | E | 323 | 323 | 323 |
| | H | 160 | 170 | 186 |
| | Weight (Kg) | 12.81 | 16.97 | 29 |

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

SIZE DN 150 (NPS 6") (in mm) :

DN 150 (NPS 6")



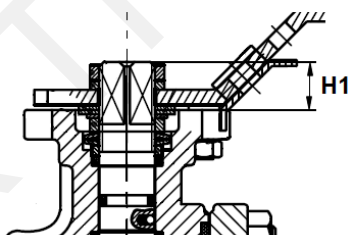
| Ref. | DN | 150 |
|-----------|----------------|------|
| | NPS | 6" |
| 793 / 794 | Ø P | 150 |
| | L | 394 |
| | E | 620 |
| | H | 228 |
| | Weight (in Kg) | 55.8 |

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

ISO MOUNTING PAD AND STEM SIZE (in mm) :

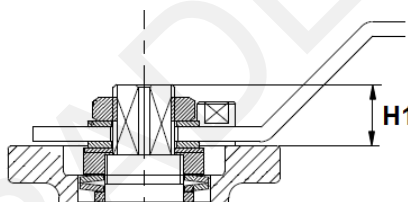
DN 15 – 50

(NPS 1/2" - 2")



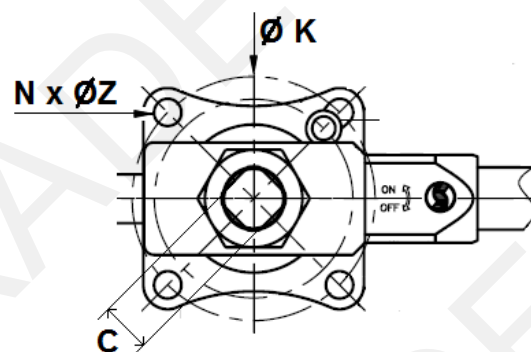
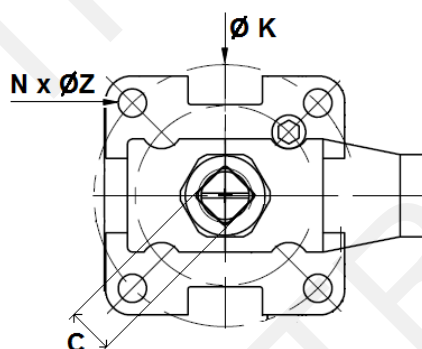
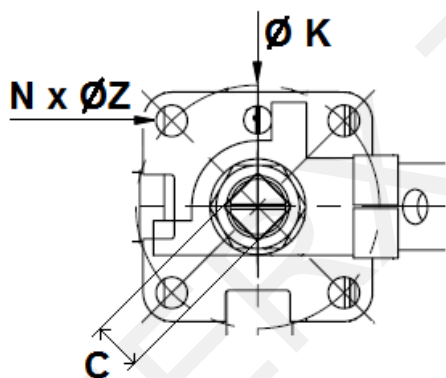
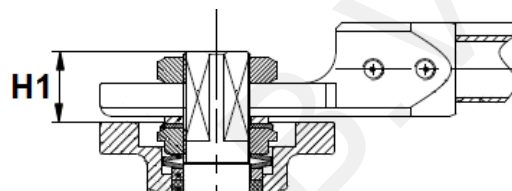
DN 65 – 100

(NPS 2 1/2" - 4")

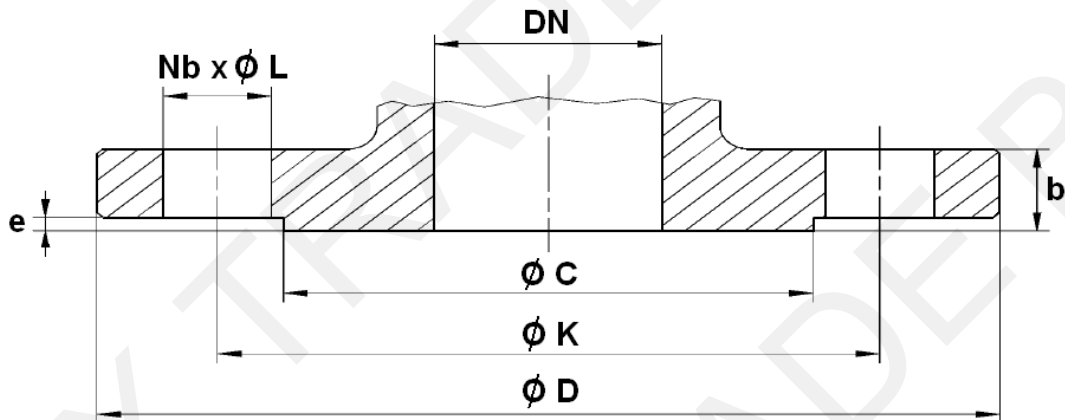


DN 150

(NPS 6")



| Ref. | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 150 |
|-----------|---------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|
| | NPS | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 6" |
| 793 – 794 | C | 9 | 9 | 11 | 14 | 14 | 14 | 17 | 17 | 17 | 27 |
| | Ø K | 42 | 42 | 50 | 50 | 70 | 70 | 102 | 102 | 102 | 125 |
| | ISO | F04 | F04 | F05 | F05 | F07 | F07 | F10 | F10 | F10 | F12 |
| | N x Ø Z | 4 x 6 | 4 x 6 | 4 x 7 | 4 x 7 | 4 x 9 | 4 x 9 | 4 x 11 | 4 x 11 | 4 x 11 | 4 x 14 |
| | H1 | 11 | 9 | 10.5 | 14.5 | 14.5 | 14.5 | 21 | 21 | 21 | 34 |

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150
FLANGES SIZE (in mm):


| Ref. | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 150 |
|-----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | NPS | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 6" |
| 793 - 794 | Ø C | 35 | 43 | 51 | 64 | 73 | 92 | 105 | 127 | 157 | 216 |
| | Ø D | 89 | 98 | 108 | 117 | 127 | 152 | 178 | 190 | 229 | 279.4 |
| | Ø K | 60.5 | 70 | 79.5 | 89 | 98.5 | 120.5 | 139.5 | 152.5 | 190.5 | 241.3 |
| | Nb x Ø L | 4 x 16 | 4 x 16 | 4 x 16 | 4 x 16 | 4 x 16 | 4 x 19 | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 22.2 |
| | b | 11 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 24 | 26 |
| | e | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150
TORQUE VALUES (in Nm without safety coefficient) :

| | | | | | | | | | | |
|----------------------|-------------|-------------|-----------|--------------|--------------|-----------|--------------|-----------|------------|------------|
| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 150 |
| NPS | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2" | 2"1/2 | 3" | 4" | 6" |
| Torque (Nm) | 6 | 8 | 10 | 14 | 20 | 30 | 36 | 60 | 95 | 210 |

STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0035
Risk Category II module D1
- Designing according to EN 12516-1
- Tests according to API 598, table 6
- ISO PN20 ANSI 150 R.F flanges according to ASME B16.5
- ISO 5211 mounting pad
- Length according to ASME B16.10 (EN 558 series 3 up to DN100, series 12 for DN150)

ADVICE : Our opinion and our advice are not guaranteed and MXT shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

2 PIECES BALL VALVES FLANGED ISO PN 20 ANSI 150

INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

INSTALLATION INSTRUCTIONS :

- **Before installing the valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the valve and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- Tighten the bolts in cross.
- It's recommended to operate the valve (open and close) 1 to 2 times per year