

REF. 505

CAST IRON BALL VALVE ISO PN16 LENGTH NF 29323

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Model/Ref: 505



Size : DN 40 to DN 150
Ends : ISO PN10/16 flanges
Min Temperature : -10°C
Max Temperature : + 200°C
Max Pressure : 16 Bars
Specifications : Full bore
Stainless steel ball
ISO 5211 mounting pad

Materials : Cast iron

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SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- PTFE packing and stem O ring in FKM
- ISO 5211 mounting pad
- ISO PN10/16 flanges R.F. (according to DN, flanges holes are threaded or not)
- Hollow stainless steel ball
- Black painting colour RAL 9004 , 5-15 microns thickness

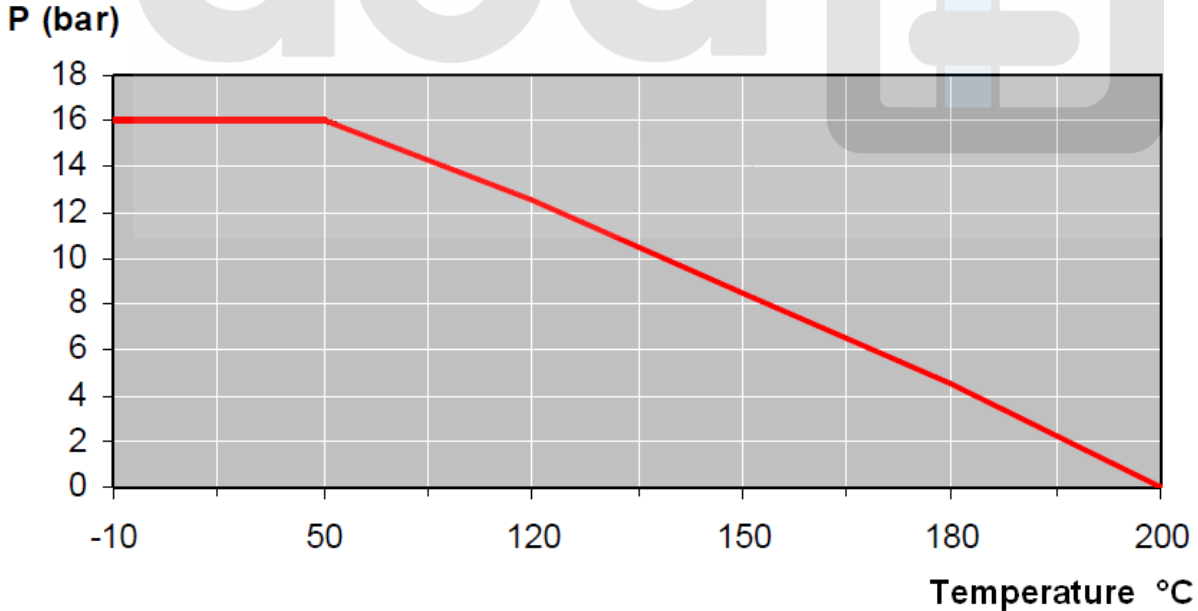
USE :

- For all common fluids
- Min and max Temperature Ts : - 10°C to + 200°C
- Max Pressure PN : 16 bars
- **Do not use with steam**
- **Do not use with compressed air**

RANGE :

- Cast iron ISO PN10/16 flanges R.F. with stainless steel ball from DN40 to DN150 **Ref. 505**

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

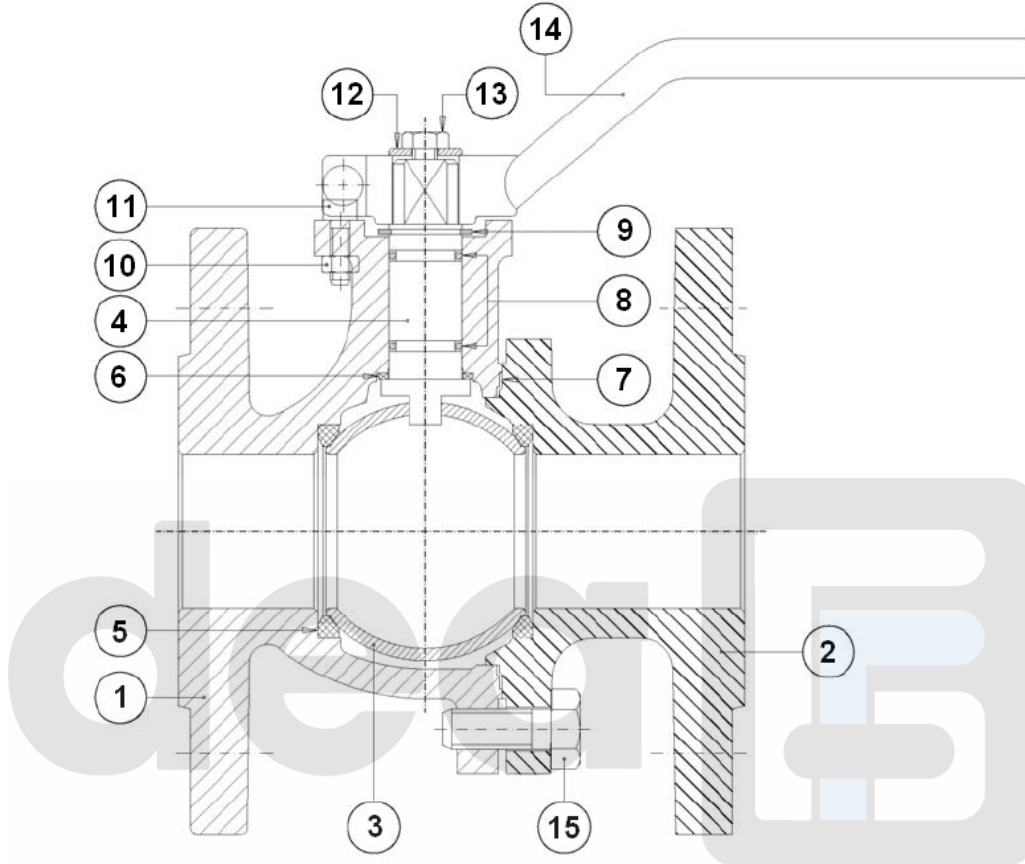


FLOW COEFFICIENT Kvs (in M3/H) :

| DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|----------------|-----|-----|-----|------|------|------|------|
| Kvs (M3 / H) | 223 | 416 | 660 | 1200 | 1980 | 3600 | 5040 |

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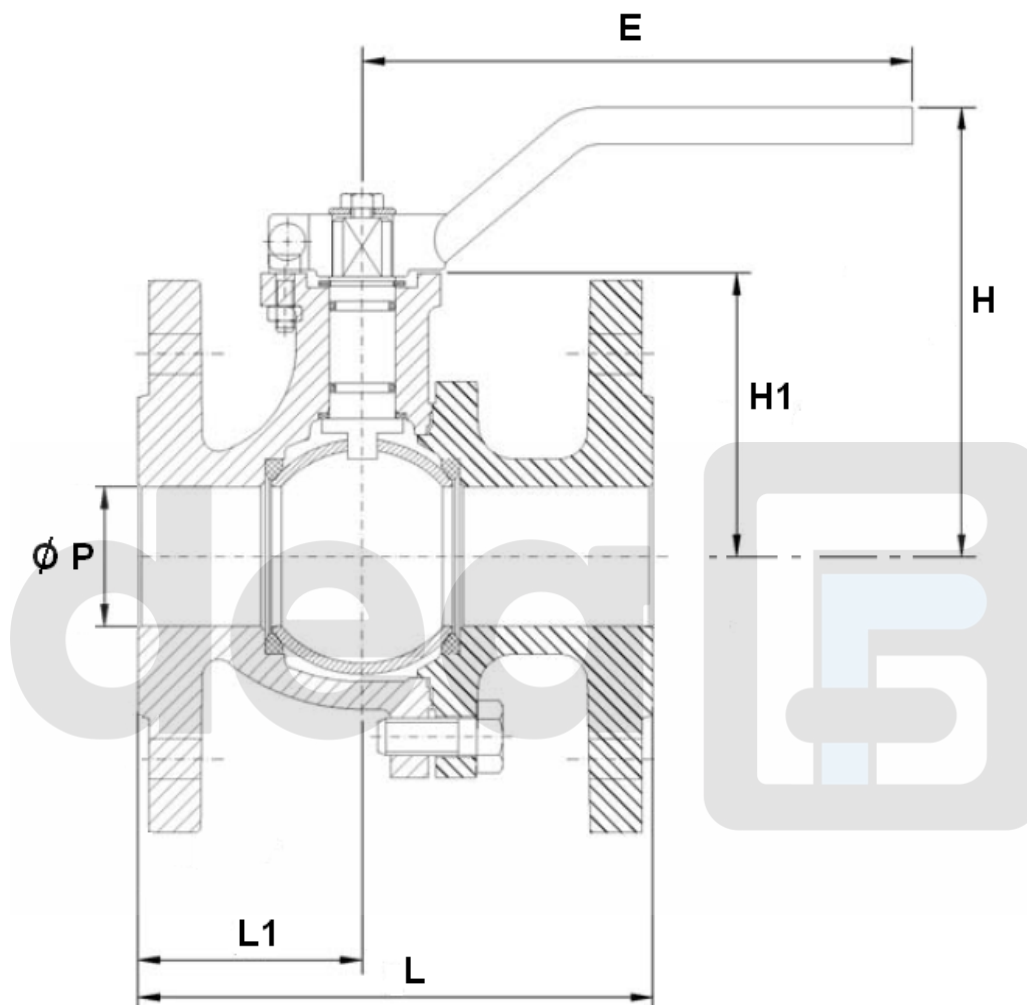
MATERIALS :



| Item | Designation | Materials |
|------|---------------|----------------------|
| 1 | Body | Cast iron EN GJL-250 |
| 2 | Ends | Cast iron EN GJL-250 |
| 3 | Ball | SS 304 |
| 4 | Stem | SS 304 |
| 5 | Seat | PTFE |
| 6 | Washer | PTFE |
| 7 | Body gasket | PTFE |
| 8 | Stem O ring | FKM |
| 9 | Stem washer | Steel DIN 471 |
| 10 | Nut | Steel DIN 934 8 |
| 11 | Screw | Steel DIN 912 8.8 |
| 12 | Handle Washer | Steel |
| 13 | Handle screw | Steel DIN 933 5.6 |
| 14 | Handle | Steel |
| 15 | Body screw | DIN 933 5.6 |

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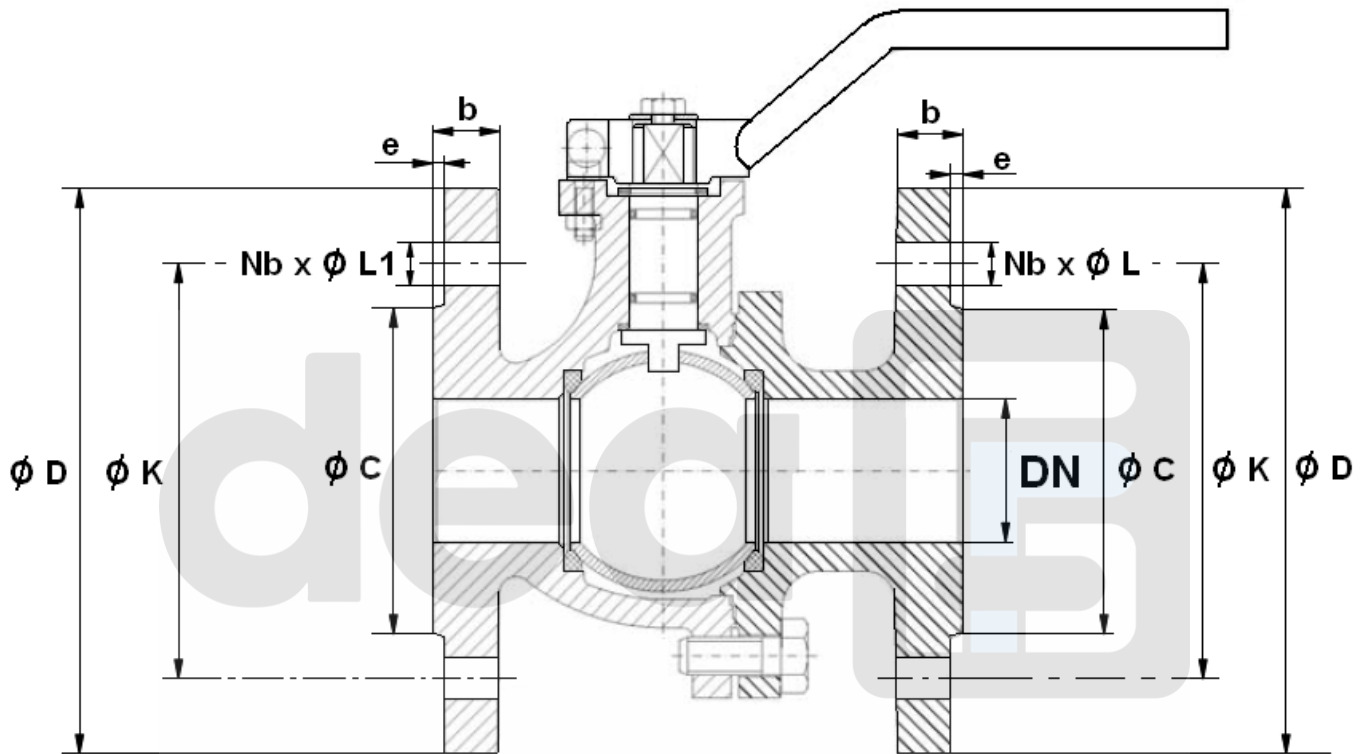
VALVE SIZE (in mm) :



| Ref. | DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|------|---------------|-------|-------|------|-------|-------|-----|-------|
| 505 | Ø P | 38 | 50 | 65 | 80 | 100 | 125 | 150 |
| | L | 136 | 142 | 154 | 160 | 172 | 186 | 200 |
| | L1 | 57 | 62 | 81.5 | 79 | 94 | 93 | 100 |
| | H | 119 | 127 | 141 | 151.5 | 176.5 | 208 | 254.5 |
| | H1 | 77 | 85 | 98 | 108.5 | 134 | 165 | 190 |
| | E | 302.5 | 302.5 | 335 | 335 | 350 | 350 | 500 |
| | Weight (Kg) | 6.5 | 8.5 | 10.5 | 14 | 19 | 28 | 45 |

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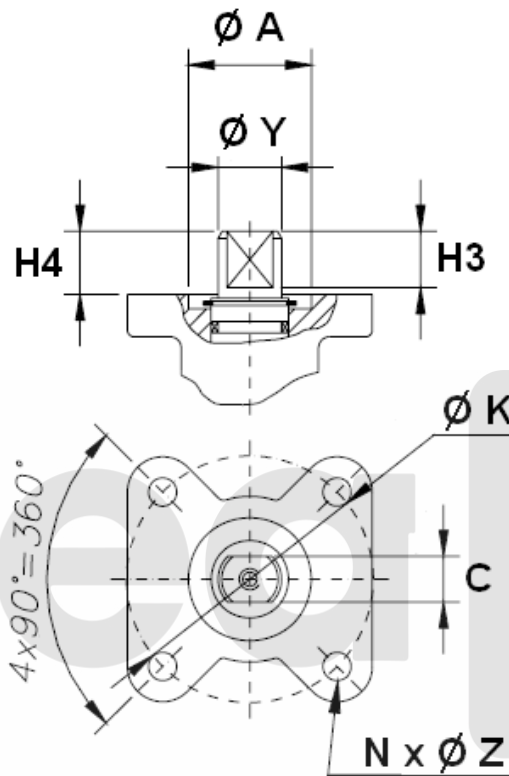
FLANGES SIZE (in mm) :



| Ref. | DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|------|-----------|--------|--------|---------|---------|---------|---------|---------|
| 505 | Ø C | 88 | 102 | 122 | 138 | 158 | 188 | 212 |
| | Ø D | 150 | 165 | 185 | 200 | 220 | 250 | 285 |
| | Ø K | 110 | 125 | 145 | 160 | 180 | 210 | 240 |
| | Nb x Ø L | 4 x 18 | 4 x 18 | 4 x M16 | 8 x M16 | 8 x M16 | 8 x M16 | 8 x M20 |
| | Nb x Ø L1 | 4 x 18 | 4 x 18 | 4 x 18 | 8 x 18 | 8 x 18 | 8 x M16 | 8 x M20 |
| | b | 16 | 18 | 18 | 20 | 20 | 22 | 22 |
| | e | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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ISO MOUNTING PAD AND STEM SIZE (in mm) :



| Ref. | DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|------|---------|-------|-------|-------|-------|-------|-------|--------|
| 505 | Ø K | 42 | 42 | 70 | 70 | 70 | 70 | 102 |
| | ISO | F04 | F04 | F07 | F07 | F07 | F07 | F10 |
| | N x Ø Z | 4 x 5 | 4 x 5 | 4 x 8 | 4 x 8 | 4 x 8 | 4 x 8 | 4 x 10 |
| | C | 12 | 12 | 13 | 13 | 16 | 16 | 20 |
| | Ø Y | 16 | 16 | 18 | 18 | 22 | 22 | 28 |
| | H3 | 16 | 16 | 19 | 19 | 20 | 20 | 27 |
| | H4 | 15 | 15 | 18 | 18 | 19 | 19.5 | 24.5 |
| | Ø A | 30 | 30 | 35 | 35 | 38 | 38 | 50 |

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TORQUE VALUES (in Nm without safety coefficient) :

| DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|---------------|----|----|----|----|-----|-----|-----|
| Torque (Nm) | 26 | 41 | 41 | 71 | 119 | 190 | 220 |

STANDARDS :

- Fabrication according to ISO 9001 :2008
- DIRECTIVE 97/23/CE : Risk Category I module A from DN65 to DN150
- Valve design according to DIN 3357
- Body design according to DIN 3840
- ISO 5211 mounting pad
- Length according to EN 558 series 29 (NF 29323)
- Flanges R.F according to EN 1092-2 PN10/16
- Marking according to EN 19
- Test according to EN 12266-1
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 (optional marking)

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

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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