

ALL POSITIONS CAST IRON CHECK VALVE PN16

ISO 9001

BUREAU VERITAS
Certification

Certificate 3.1

WRAS
APPROVED
PRODUCT**Size :** DN 50 to 300**Ends :** Flanged PN16**Min Temperature :** - 10°C**Max Temperature :** + 110°C**Max Pressure :** 16 Bars**Specifications :** Stainless steel disc

All positions

Materials : Cast iron body EN GJL-250

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SPECIFICATIONS :

- All positions
- Respect the flow direction indicated by the arrow
- Flanged R.F. PN16
- Stainless steel disc with spring
- Epoxy blue RAL 003 painting 80 microns thickness

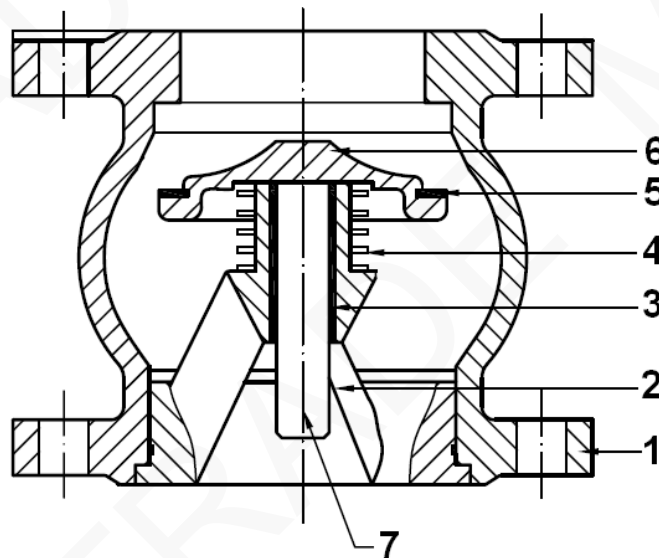
USE :

- Water distribution
- Min Temperature Ts : - 10°C
- Max Temperature Ts :+ 110°C
- Max Pressure Ps : 16 bars

RANGE :

- Flanged PN16 DN50 to DN300 **Ref.369**
- Flanged PN16 from DN50 to DN250 with steel strainer basket **Ref.368** (Ref.369+367)

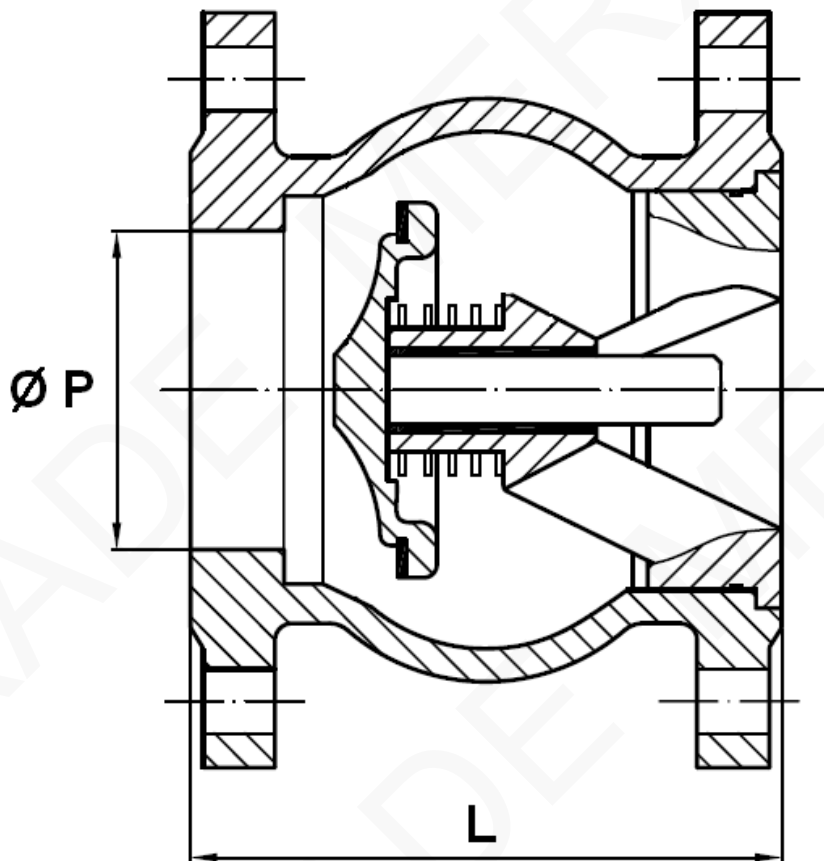
MATERIALS :



| Item | Designation | Materials |
|------|-------------|----------------------|
| 1 | Body | Cast iron EN-GJL-250 |
| 2 | Guide | Cast iron EN-GJL-250 |
| 3 | Bushing | Bronze |
| 4 | Spring | AISI 304 |
| 5 | Gasket | EPDM |
| 6 | Disc | AISI 304 |
| 7 | Shaft | AISI 416 |

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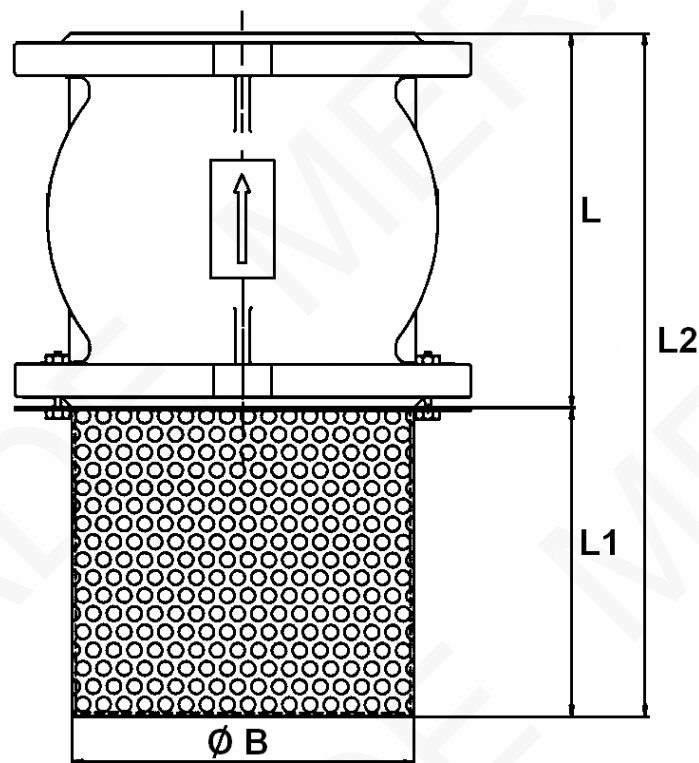
SIZE REF. 369 (in mm):



| Ref. | DN | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|------|---------------|-----|-----|-----|------|------|------|------|------|-------|
| 369 | Ø P | 56 | 65 | 81 | 105 | 125 | 150 | 200 | 250 | 300 |
| | L | 100 | 120 | 135 | 165 | 200 | 231 | 288 | 354 | 395 |
| | Weight (Kg) | 6 | 9 | 11 | 15.5 | 23.5 | 34.5 | 56.5 | 97.5 | 145.5 |

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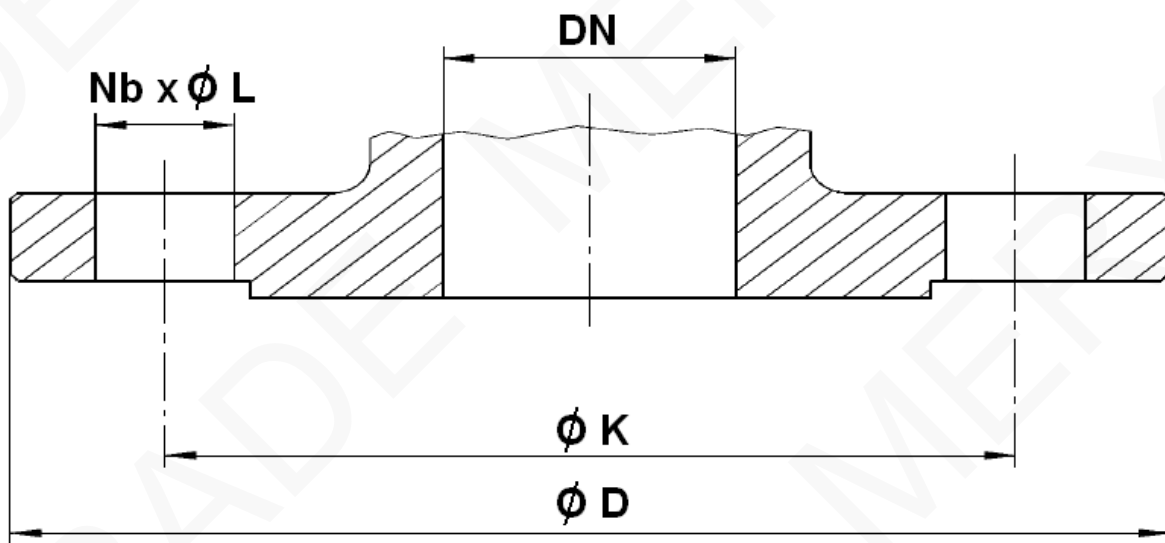
SIZE REF. 368 (in mm):



| Ref. | DN | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 |
|------|---------------|------|------|-------|------|-------|------|-------|--------|
| 368 | L | 100 | 120 | 135 | 165 | 200 | 231 | 288 | 354 |
| | L1 | 77 | 110 | 125 | 155 | 170 | 220 | 300 | 390 |
| | L2 | 177 | 230 | 260 | 320 | 370 | 451 | 588 | 744 |
| | Ø B | 93 | 113 | 128 | 148 | 178 | 200 | 255 | 310 |
| | Mesh | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | Weight (Kg) | 6.59 | 9.76 | 11.83 | 16.7 | 24.99 | 36.3 | 59.28 | 101.88 |

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FLANGES SIZE REF.369 (in mm) :



| Ref. | DN | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|------|----------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 369 | Ø D | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 405 | 460 |
| | Ø K | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 355 | 410 |
| | Nb x Ø L | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 12 x 23 | 12 x 28 | 12 x 28 |

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STANDARDS :

- Fabrication according to ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (Article 4, § 3)
- Certificate 3.1 on request
- Pressure tests according to API 598, table 6
- Flanged R.F. according to EN 1092-2 PN16
- English water agreement **WRAS**

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.

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INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the check 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 INSTRUCTIONS :

- **Before installing the check 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 check 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 check valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the check 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 check valve.**
- If there is a direction changing or if there's another material, it's better to take away the check valve so that it is outside the turbulence area (**between 3 and 5 times the ND before and after**).
- After a pump please refer to **FD CEN/TR 13932** to install the check valve :
 - If it is essential to keep priming the pump, a non-return check valve can be fitted to the suction pipe at a distance **L1 (straight length suction) > 10xD1 (diameter suction)**
The check valve is designed to meet the maximum flow rate in service
 - In other cases, the non-return check valve is mounted on the discharge pipe at a distance of **L2 (straight length at discharge) > 3xD2 (diameter at discharge)**