

## DUCTILE IRON BALL CHECK VALVE NF EN 12050-4 FLANGED PN10

Ductile iron ball check valve for water distribution and watering.  
Ductile iron EN GJS-400-15 body with anti-corrosion epoxy painting and stainless steel bolting.  
According to water pumping stations NF EN 12050-4  
Bolted bonnet for easy maintenance.

**Certificate**

**3.1**



**Size :** DN40 to DN500  
**Connection :** Flanged PN10/16 RF  
**Min Temperature :** -10°C  
**Max Temperature :** +70°C  
**Max Pressure :** 10 Bars  
**Specifications :** Metallic NBR coated ball  
Horizontal or vertical with ascending fluid position  
Bolted bonnet  
Ball type

**Materials :** Ductile iron EN GJS-400-15 body

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**SPECIFICATIONS :**

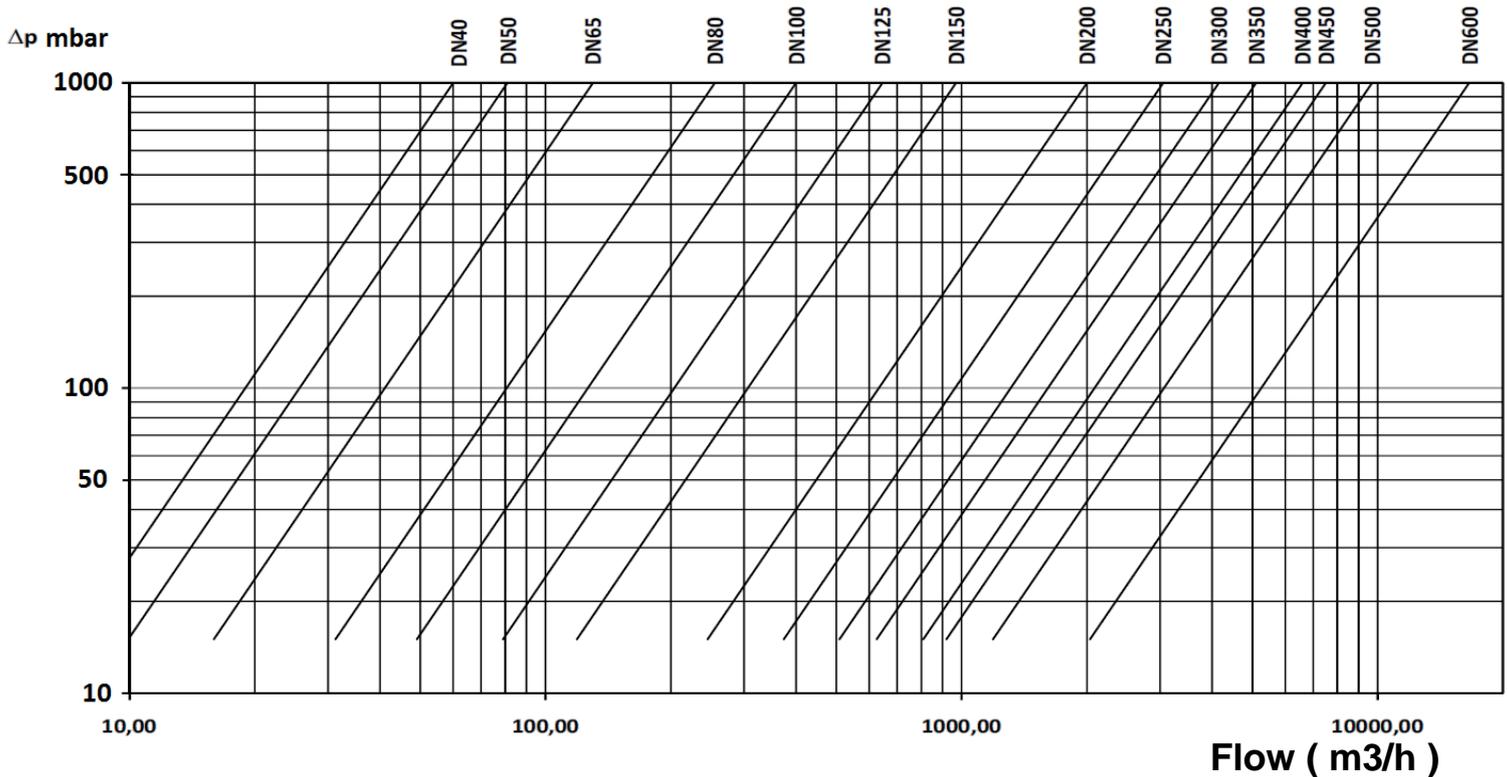
- Ball type
- Vertical with ascendant fluid or horizontal (respect the flow direction indicated by the arrow )
- PN10/16 RF Flanged up to DN150, PN10 over
- Removable bonnet for easy maintenance
- Anti-corrosion epoxy painting RAL 5017 blue color 150 microns thickness
- Anti-corrosion stainless steel bolting
- Aluminium or ductile iron NBR coated ball non floating
- Full bore
- Minimum backpressure for tightness between 0.3 and 0.5 bars

**USE :**

- Water distribution and watering
- Min Temperature Ts : - 10°C
- Max Temperature Ts :+ 70°C
- Max Pressure Ps : 10 bars

**HEAD LOSS :**

**( Bar )**



**FLOW COEFFICIENT Kvs ( in m3/h ) :**

| DN         | 40 | 50 | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450  | 500  |
|------------|----|----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Kvs (m3/h) | 60 | 81 | 130 | 255 | 400 | 645 | 970 | 2000 | 3050 | 4150 | 5100 | 6600 | 7500 | 9700 |

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**RANGE :**

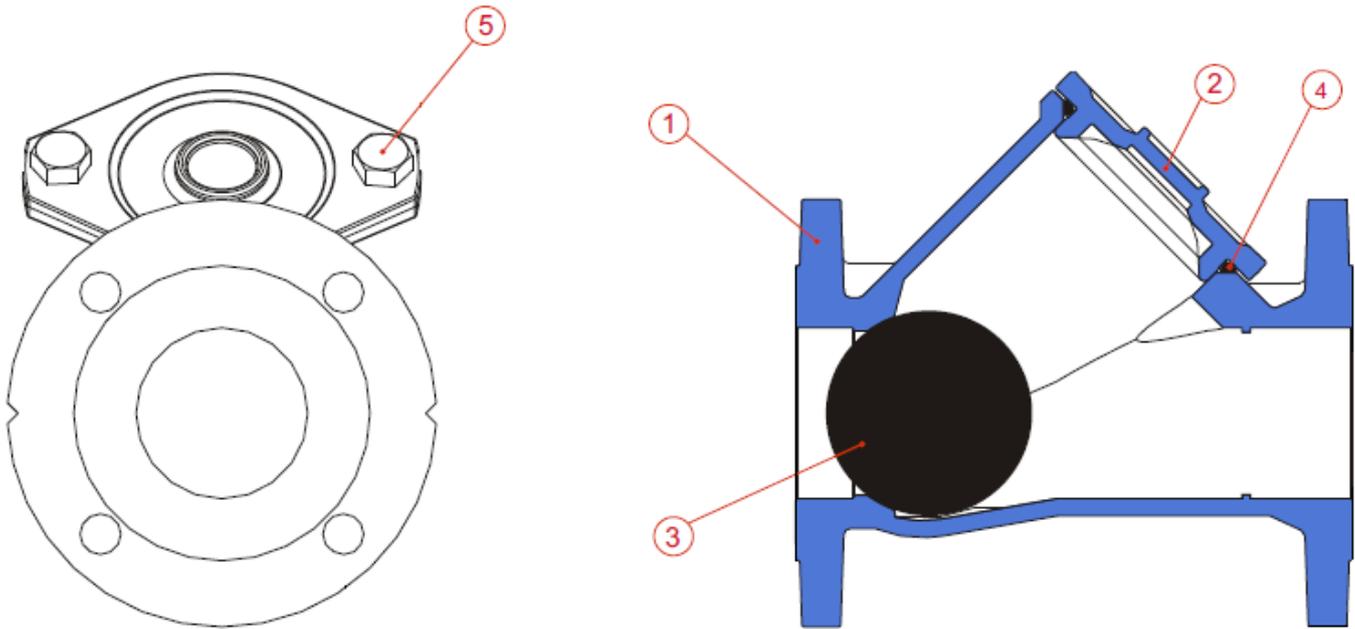
- Ball check valve PN10/16 RF Flanged from DN40 to 150 and PN10 over Ref. 336 DN40 to 500

**REPAIRABILITY :**



| DN                 | 40      | 50      | 65      | 80      | 100     | 125     | 150     | 200     | 250     | 300     |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ø Ball             | 51      | 62      | 76      | 96      | 122     | 150     | 180     | 246     | 308     | 363     |
| Ref. Ball          | 9803649 | 9803650 | 9803651 | 9803652 | 9803653 | 9803654 | 9803655 | 9803656 | 9803657 | 9803658 |
| Ref. Bonnet gasket | 9803675 | 9803676 | 9803677 | 9803678 | 9803679 | 9803680 | 9803681 | 9803682 | 9803683 | 9803684 |

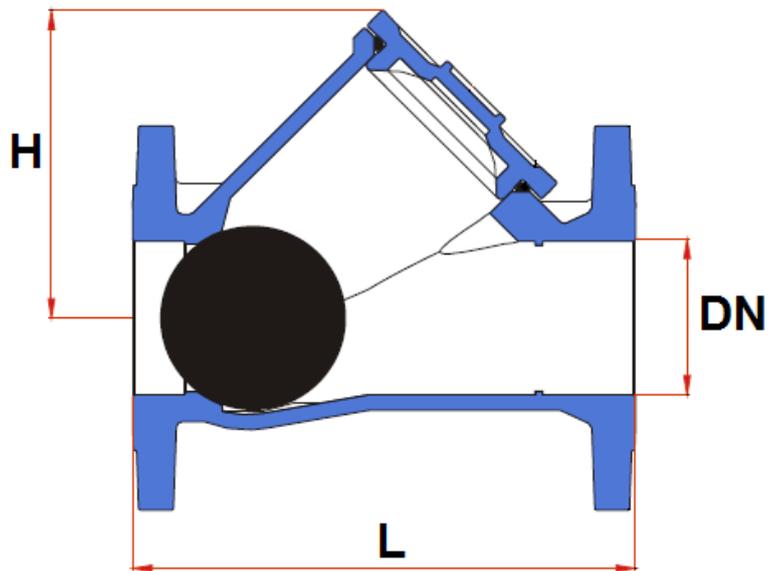
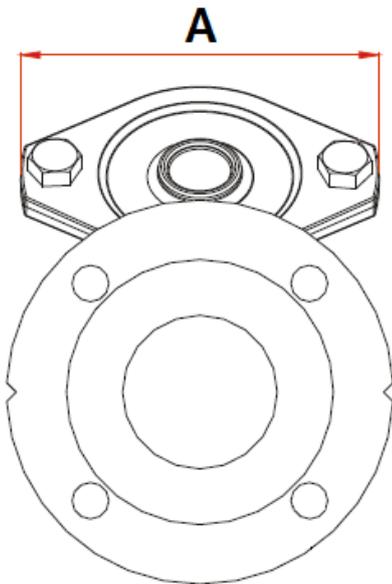
**MATERIALS :**



| Item | Designation        | Materials                        |
|------|--------------------|----------------------------------|
| 1    | Body               | Ductile iron EN GJS-400-15       |
| 2    | Bonnet             | Ductile iron EN GJS-400-15       |
| 3    | Ball DN 40 to 200  | Aluminium + NBR                  |
|      | Ball DN 250 to 500 | Ductile iron EN GJS-400-15 + NBR |
| 4    | Bonnet gasket      | NBR                              |
| 5    | Bolting            | SS A-2                           |

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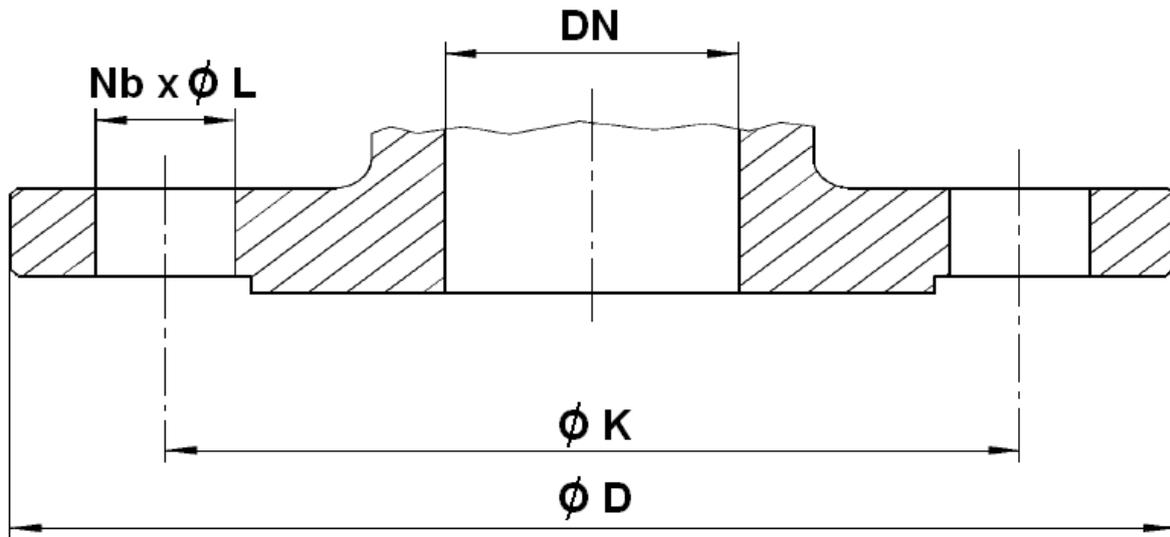
**SIZE ( in mm ) :**



| DN          | 40     | 50     | 65     | 80     | 100    | 125    | 150    | 200    | 250    | 300    | 350    | 400    | 450    | 500    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L           | 180    | 200    | 240    | 260    | 300    | 350    | 400    | 500    | 600    | 700    | 800    | 900    | 1000   | 1100   |
| H           | 90     | 115    | 144    | 160    | 190    | 222    | 268    | 335    | 420    | 495    | 580    | 730    | 760    | 900    |
| A           | 120    | 140    | 165    | 185    | 220    | 255    | 290    | 370    | 380    | 445    | 520    | 712    | 712    | 775    |
| Weight (Kg) | 6      | 8      | 12     | 15     | 21.5   | 29     | 45     | 85     | 120    | 180    | 270    | 440    | 500    | 680    |
| Ref.        | 336040 | 336050 | 336065 | 336080 | 336100 | 336125 | 336150 | 336200 | 336250 | 336300 | 336350 | 336400 | 336450 | 336500 |

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**FLANGES SIZE ( in mm ) :**



| DN       | 40     | 50     | 65    | 80     | 100    | 125    | 150    | 200    | 250     | 300     | 350     | 400     | 450     | 500     |
|----------|--------|--------|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| Ø D      | 150    | 165    | 185   | 200    | 226    | 253    | 285    | 342    | 403     | 450     | 505     | 565     | 615     | 670     |
| Ø K      | 110    | 125    | 145   | 160    | 180    | 210    | 240    | 295    | 350     | 400     | 460     | 515     | 565     | 620     |
| Nb x Ø L | 4 x 19 | 4 x 19 | 4 x 1 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 8 x 23 | 12 x 23 | 12 x 23 | 16 x 23 | 16 x 27 | 20 x 27 | 20 x 27 |

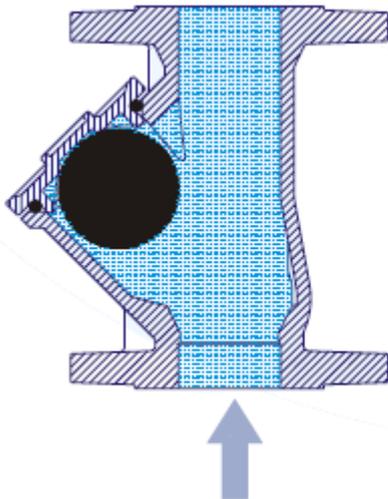
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**STANDARDS :**

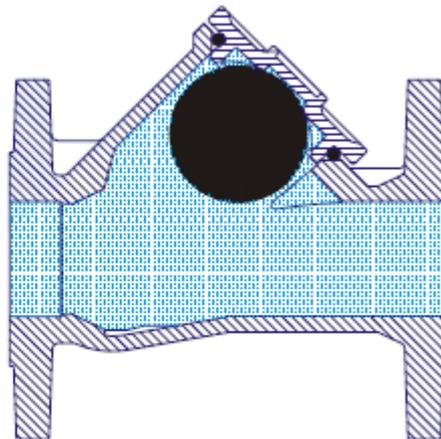
- Manufacturer certified ISO 9001: 2015 and ISO 14001 : 2015
- Designing according to EN 14341
- DIRECTIVE 2014/68/EU : Products excluded from directive ( Article 1, § 2b )
- Certificate 3.1 on request
- Tests according to ISO 5208, Rate A
- PN10 Flanged according to EN 1092-2
- Length according to EN 558 series 48 (DIN 3202 F6)
- According to water pumping stations NF EN 12050-4

**INSTALLATION POSITIONS :**

**Vertical position ( Ascendant fluid )**



**Horizontal position**



**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.

Sferaco 90 rue du Ruisseau 38297 St Quentin Fallavier Tel: + 33 (0) 474.94.15.90 Fax: + 33 (0) 474.95.62.08 Internet: [www.sferaco.com](http://www.sferaco.com) E-mail : [info@sferaco.fr](mailto:info@sferaco.fr)