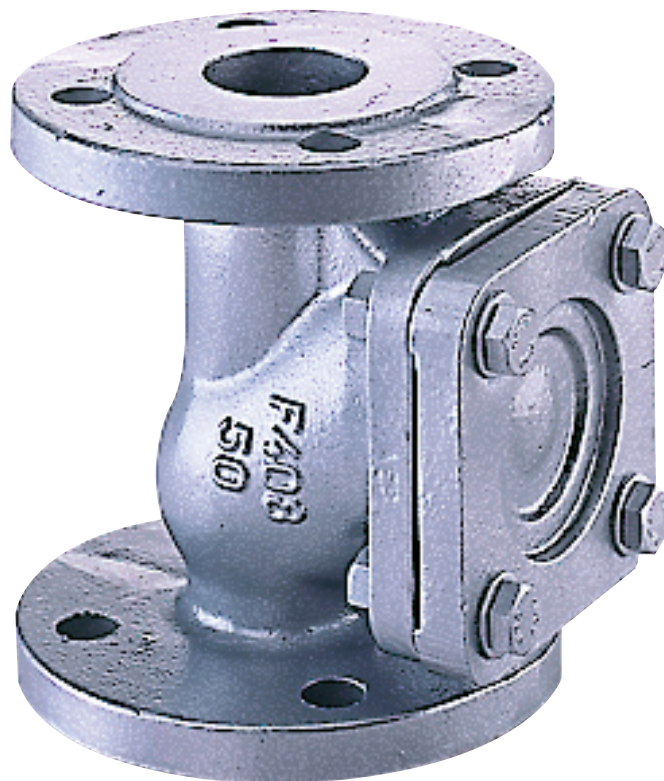


408X

Non-return valves with ball
System B

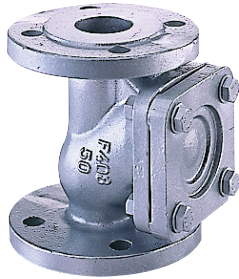
Technical Data Sheet



Description

The non-return valves with ball 408X consists of a self-cleaning ball lifted by the fluid and guided to a lateral seat, completely out of the way. This system provides a full bore, even with loaded fluids, without any risk of blockage.

- Vertical ascending and horizontal position (position the ball housing above the axis of the pipe)
- Minimum head loss
- Silent, robust
- Non incrustating materials
- Closing system : cast iron ball FKM coating
- Sealing guaranteed by the coating of the ball



408X

Non-return valves with ball - System B

| DN | PN | PFA in bar | PS in bar | | | | Cat. | Ref. | Weight Kg | |
|-------|-----|------------|-----------|----|----|-----|------|------------------|------------------|------|
| | | | L1 | L2 | G1 | G2 | | | | |
| 2 | 50 | 10/16 | 16 | 16 | 16 | 16 | I | 149B15052 | 9,1 | |
| 2 1/2 | 65 | 10/16 | 16 | 16 | 16 | 15 | 16 | I | 149B15053 | 12,4 |
| 3 | 80 | 10/16 | 16 | 16 | 16 | 12 | 16 | I | 149B15054 | 19,4 |
| 4 | 100 | 10/16 | 16 | 16 | 16 | 10 | 16 | I | 149B15055 | 26,4 |
| 5 | 125 | 10/16 | 16 | 16 | 16 | 0,5 | 16 | I | 149B15056 | 40,4 |
| 6 | 150 | 10/16 | 16 | 13 | 16 | 0,5 | 16 | I | 149B15057 | 3,9 |
| 8 | 200 | 10 | 10 | 10 | 10 | 0,5 | 10 | I | 149B15058 | 53,9 |

Important notice :

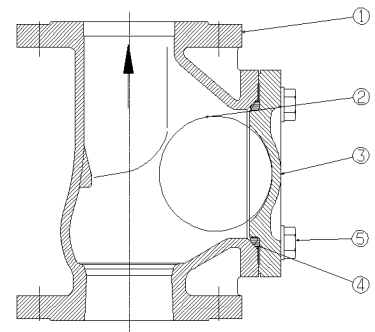
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

Technical features

| | |
|---|--|
| Operating temperature | -10 °C to 150 °C |
| Permissible operating pressure (PFA) in water | See table above |
| Maximum permissible pressure (PS) other mediums | See table above |
| Connection | Flanges drilled PN (see table) |
| Mediums | Loaded corrosive liquids, industrial processes |

Nomenclature and materials

| N° | Description | Materials | EURO | ANSI |
|----|-------------|-----------------|------------------|------------|
| 1 | Body | Stainless steel | X5Cr-Ni18-10 | AISI 304 |
| 2 | Ball | DN 50 to 100 | Aluminium / FKM | |
| | | DN 125 to 200 | Cast iron / FKM | EN-GJL-250 |
| 3 | Plug | Stainless steel | X5Cr-Ni18-10 | AISI 304 |
| 4 | Seal | FKM | | |
| 5 | Screw | Stainless steel | X5Cr-Ni18-10 | AISI 304 |
| | Nut | Stainless steel | X5Cr-NiMo17-12-2 | AISI 316 |
| | Washer | Stainless steel | X5Cr-Ni18-10 | AISI 304 |



Approvals



International construction Standards :

Directive 2014/68/UE

CE conformity regulation 305/2011/UE Standard EN12050-4

Flange drilling according to EN1092-2

Length according to EN558-1 series 48

Application

Loaded corrosive liquids, industrial processes.

Installation

Installation :

Before putting valve into operation, check that:

- the working conditions are compatible with the details given on the identification plate, the instruction notice and the manufacturer's detail,
- the valve works effectively when tried (carry out a few opening and closing operations of the closing system),
- the valve is free-pollution inside.

On a new installation or after maintenance, the circuit must be rinsed with the valve completely open in order to remove solid matter which may damage the internal parts of the valve.

Commissioning :

The installation should be put under pressure progressively to avoid damage which might occur to internal components.

Make sure that when flow stops the valve maintains pressure well and that there is no water-hammer which might damage the valve or installation.

If there is water-hammer, an anti-water hammer system must be added to the installation.

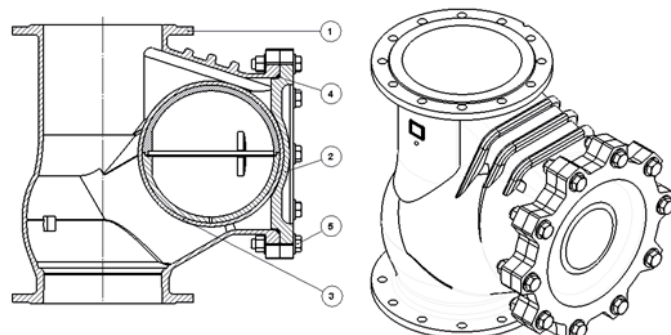
During a prolonged stoppage, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification...).

Establish an adequate procedure program for cleaning the system.

Maintenance

• Removing :

1. Unscrew the support screw assembly (N°5)
2. Remove the cover (N°2)
3. Remove the O-ring (N°4)
4. Tip over the body (N°1) for remove the ball (N°3)



Type 408X

• Reassembly :

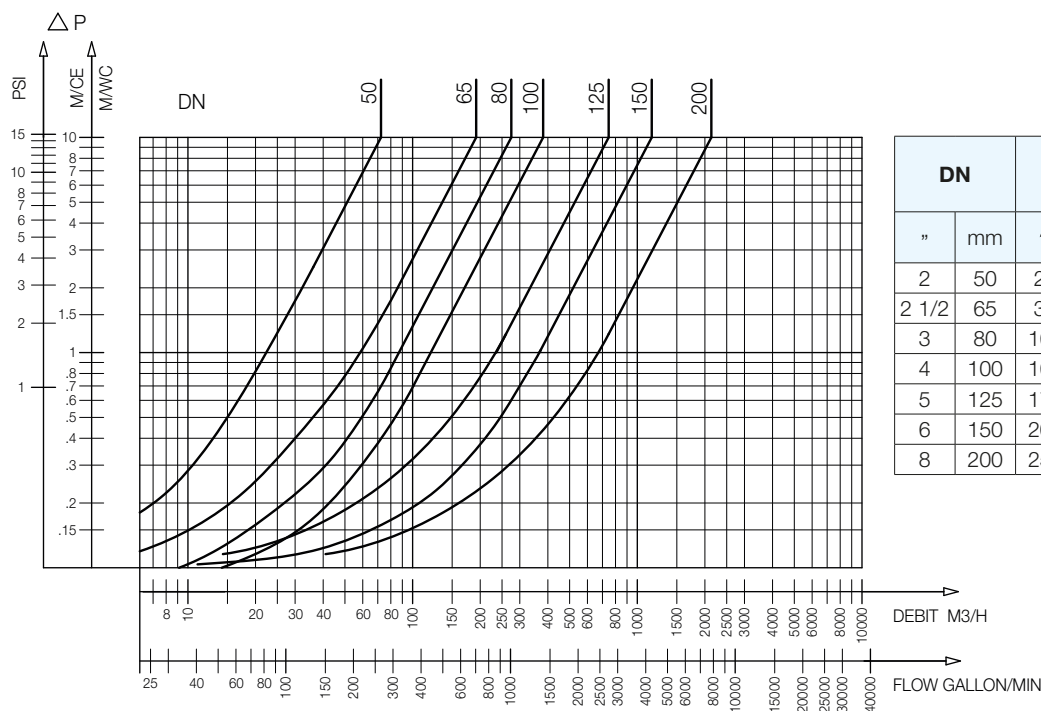
Before reassembling the valve, check the condition of the seal. If necessary, clean and grease it by using appropriate grease.

1. Place the ball (N°3) in the body (N°1)
2. Put in place the O-ring (N°4) on the cover (N°2)
3. Put in place the cover (N°2) on the body (N°1)
4. Tighten the screw assembly (N°5) to the contact and then :
 - a. Tighten to the couple of 35 Nm for the FIG.418 up to DN100 included
 - b. Tighten with a suitable tool for the others references

Operation

Direction for use :

- Solid line: Valve completely open

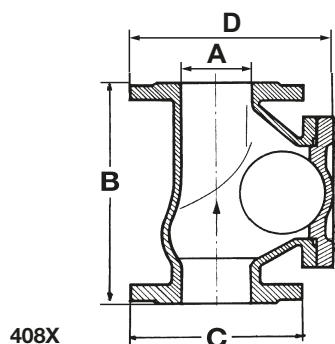


| DN | | Opening pressure in mm/CE | | Kv m ³ /H | ζ |
|-------|-----|---------------------------|-----------|-------------------------|------|
| " | mm | ↑ | ↔ | | |
| 2 | 50 | 25 | Near to 0 | 72,3 | 1,90 |
| 2 1/2 | 65 | 30 | | 192,4 | 0,77 |
| 3 | 80 | 160 | | 275,8 | 0,86 |
| 4 | 100 | 160 | | 381 | 1,10 |
| 5 | 125 | 170 | | 746,4 | 0,70 |
| 6 | 150 | 200 | | 1161 | 0,60 |
| 8 | 200 | 250 | | 2136,3 | 0,56 |

408X - Headloss chart

Sizing

| | A | B | C | D |
|-------|-----|-----|-----|-----|
| " | mm | mm | mm | mm |
| 2 | 50 | 200 | 165 | 186 |
| 2 1/2 | 65 | 240 | 185 | 211 |
| 3 | 80 | 260 | 200 | 245 |
| 4 | 100 | 300 | 220 | 282 |
| 5 | 125 | 350 | 250 | 333 |
| 6 | 150 | 400 | 285 | 380 |
| 8 | 200 | 500 | 340 | 471 |



408X

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