

# Technical data sheet

## Type 408 Non return valve System B

### Applications and special features



- 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 : ball lifted up by the liquid and guided to a lateral housing completely out of the way
- Sealing guaranteed by the coating of the ball


### Technical description

| DN<br>"          | DN<br>mm | PN    | PFA<br>in bar | PS in bar |    |     |    | Cat. | References | Vvs-nr |
|------------------|----------|-------|---------------|-----------|----|-----|----|------|------------|--------|
|                  |          |       |               | L1        | L2 | G1  | G2 |      |            |        |
| 2                | 50       | 10/16 | 10            | 10        | 10 | 10  | 10 | I    | 149B 2471  |        |
| 2 <sup>1/2</sup> | 65       | 10/16 | 10            | 10        | 10 | 10  | 10 | I    | 149B 2238  |        |
| 3                | 80       | 10/16 | 10            | 10        | 10 | 10  | 10 | I    | 149B 2239* |        |
| 4                | 100      | 10/16 | 10            | 10        | 10 | 10  | 10 | I    | 149B 2240  |        |
| 5                | 125      | 10/16 | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2474  |        |
| 6                | 150      | 10/16 | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2905  |        |
| 8                | 200      | 10    | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2906  |        |
| 10               | 250      | 10    | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2907  |        |
| 12               | 300      | 10    | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2908  |        |
| 14               | 350      | 10    | 10            | 10        | 10 | 0,5 | 10 | I    | 149B 2909  |        |

#### Important notice :

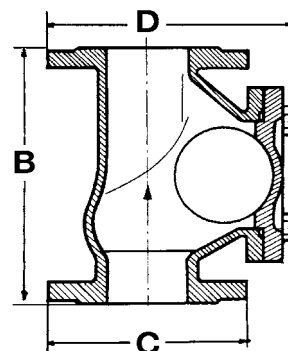
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

\* drilled with 8 holes (4 holes on request)

- **Connection** : flanges drilled PN : see table
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **Maximum permissible pressure PS - other mediums** : See table
- **θ** Mini. -10 °C  
Maxi. 60 °C
- **Mediums** : Thick liquids, viscous liquids, gas, loaded liquids
- **Approvals** :   FEB 97/23/CE  
CPD 89/106/CEE
- **International construction Standards** :  
CE Conformity Directive 97/23/CE  
CE Conformity Directive 89/106/CEE EN12050-4 standard  
Flange drilling according to EN1092-2  
Length according to EN558 series 48 except DN 350

### Overall dimensions

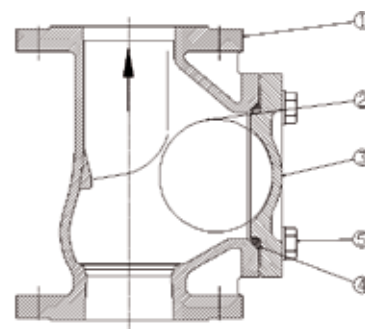
| DN<br>"          | DN<br>mm | B   | C   | D     | Weight |
|------------------|----------|-----|-----|-------|--------|
|                  |          | mm  | mm  | mm    | kg     |
| 2                | 50       | 200 | 165 | 186   | 9,2    |
| 2 <sup>1/2</sup> | 65       | 240 | 185 | 211   | 12,5   |
| 3                | 80       | 260 | 200 | 247   | 20,4   |
| 4                | 100      | 300 | 220 | 284   | 26,5   |
| 5                | 125      | 350 | 250 | 335   | 40,4   |
| 6                | 150      | 400 | 285 | 380   | 37,7   |
| 8                | 200      | 500 | 340 | 482,5 | 71,5   |
| 10               | 250      | 600 | 400 | 593,5 | 127    |
| 12               | 300      | 700 | 455 | 725,5 | 219    |
| 14               | 350      | 875 | 505 | 820   | 346    |



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### Spare parts list and materials

| Nb | Description         | Materials            | EURO             | ANSI                |
|----|---------------------|----------------------|------------------|---------------------|
| 1  | CASING DN 50 to 125 | Cast iron + epoxy    | EN-GJL-250       | ASTM A 48 35 B      |
|    | DN 150 to 350       | Ductile iron + epoxy | EN-GJS-400.15    | ASTM A 536 60-40-18 |
| 2  | BALL DN 50 to 100   | Aluminium + NBR      |                  |                     |
|    | DN 125 to 350       | Cast iron + NBR      |                  |                     |
| 3  | PLUG DN 50 to 125   | Cast iron + epoxy    | EN-GJL-250       | ASTM A 48 35 B      |
|    | DN 150 to 350       | Ductile iron + epoxy | EN-GJS-400.15    | ASTM A 536 60-40-18 |
| 4  | SEAL                | NBR                  |                  |                     |
| 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            |



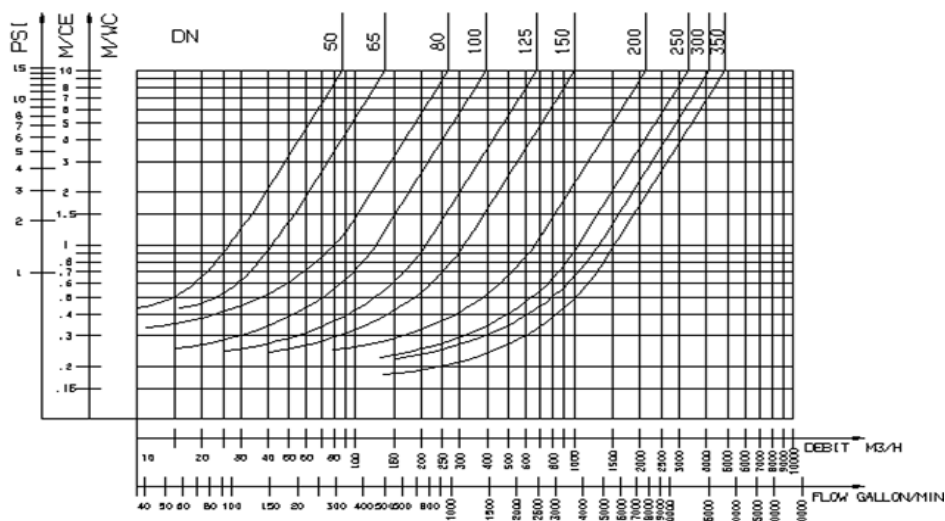
### Working principle

| DN    |     | Opening pressure in mm/CE |        | Kv      | ζ    |
|-------|-----|---------------------------|--------|---------|------|
| "     | mm  | ↑                         | ↔      |         |      |
| 2     | 50  | 25                        | near 0 | 87,00   | 1,30 |
| 2 1/2 | 65  | 30                        |        | 136,50  | 1,50 |
| 3     | 80  | 160                       |        | 267,00  | 0,90 |
| 4     | 100 | 160                       |        | 396,00  | 1,10 |
| 5     | 125 | 170                       |        | 671,00  | 0,85 |
| 6     | 150 | 200                       |        | 890,00  | 1,00 |
| 8     | 200 | 250                       |        | 2116,00 | 0,56 |
| 10    | 250 | 180                       |        | 3307,00 | 0,56 |
| 12    | 300 | 200                       |        | 4115,00 | 0,75 |
| 14    | 350 | 220                       |        | 4850,00 | 1,00 |

#### Directions for use :

- Solid line : Valve completely open
- Dotted line : opening stage of valve

$\Delta P$



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