

## Technical data sheet

### Type 251

#### EA anti-pollution non-return valve

##### System 01

#### Applications and special features



- Operates in any position
- Minimum head loss
- Silent and robust
- Does not generate hammering
- Closing system : double axial guiding with return spring
- Excellent sealing at high as well as at low pressure ensured by a specially designed lip ring-seal.
- 2 drilled bosses 1/4» with PPA plugs.

#### Technical description

| DN |       | PFA<br>(bar) | PS (bar) |    |    |    | Cat. | References | Vvs-nr |
|----|-------|--------------|----------|----|----|----|------|------------|--------|
| C  | "     |              | L1       | L2 | G1 | G2 |      |            |        |
| 15 | 3/4   | 10           | 10       | 10 | 10 | 10 | 3.3  | 149B 2111  |        |
| 20 | 1     | 10           | 10       | 10 | 10 | 10 | 3.3  | 149B 2112  |        |
| 25 | 1 1/4 | 10           | 10       | 10 | X  | 10 | 3.3  | 149B 2113  |        |
| 30 | 1 1/2 | 10           | 10       | 10 | X  | 10 | 3.3  | 149B 2114  |        |
| 40 | 2     | 10           | 10       | 10 | X  | 10 | 3.3  | 149B 2115  |        |

C : water meter

##### 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.

- **Connection** : Female/Male BSP thread, with union nut
- **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. 80 °C

• **Mediums** : Clear liquids, gas

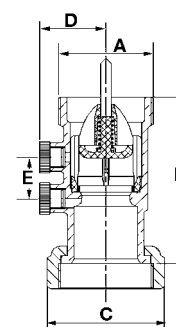
• **Approvals** : ACS

##### International construction Standards :

NF Antipollution according to NF EN 13959 - EN1717  
Thread connection according to NF EN ISO 2281 ou ISO 7.1

#### Overall dimensions

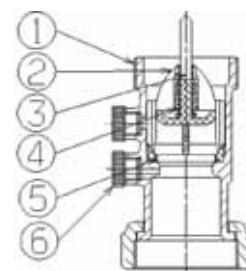
| DN | Connection | A     | B   | C  | D  | E  | Weight |
|----|------------|-------|-----|----|----|----|--------|
| C  | "          | mm    | mm  | mm | mm | mm | kg     |
| 15 | 3/4        | 20/27 | 78  | 30 | 22 | 26 | 0,18   |
| 20 | 1          | 26/34 | 81  | 37 | 27 | 26 | 0,30   |
| 25 | 1 1/4      | 33/42 | 89  | 46 | 31 | 30 | 0,50   |
| 30 | 1 1/2      | 40/49 | 99  | 55 | 31 | 30 | 0,67   |
| 40 | 2          | 50/60 | 105 | 65 | 36 | 32 | 1,10   |



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### Spare parts list and materials

| Nb | Description    | Materials        | EURO                      | ANSI     |
|----|----------------|------------------|---------------------------|----------|
| 1  | CASING         | Brass            | CuZn39Pb2 ou<br>CuZn40Pb2 |          |
| 2  | GUIDE          | POM (polyacetal) |                           |          |
| 3  | CLOSING SYSTEM | POM (polyacetal) |                           |          |
| 4  | SPRING         | Stainless steel  | X10CrNi18-8               | AISI 302 |
| 5  | SEAL           | NBR (Nitrile)    |                           |          |
| 6  | PLUG<br>SEAL   | PPA<br>EPDM      |                           |          |

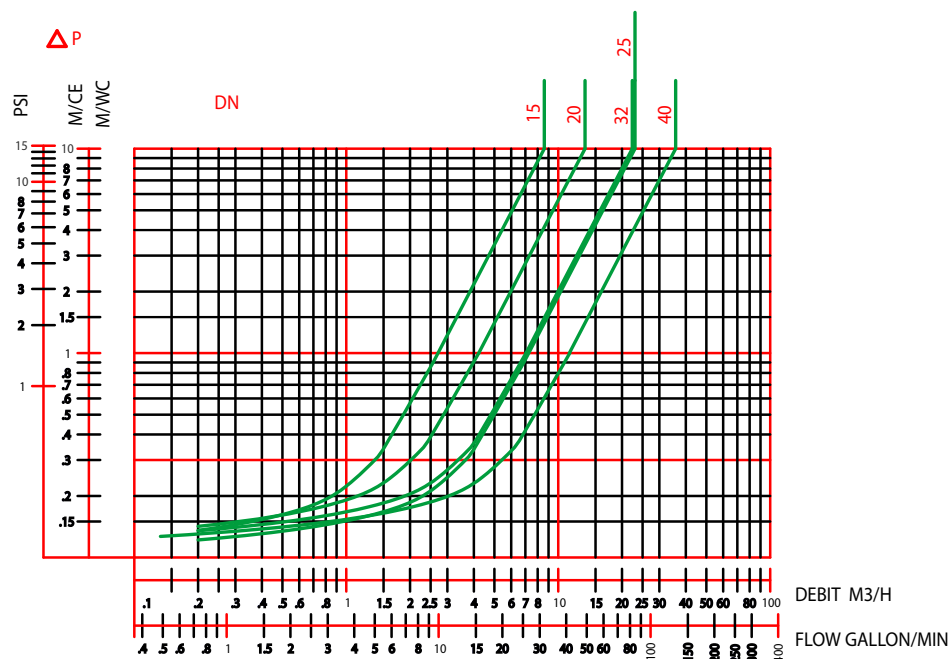


### Working principle

| DN | Opening pressure<br>(in mm WC) | Kv   | ζ    |
|----|--------------------------------|------|------|
| C  | "                              | m³/H |      |
| 15 | 3/4                            | 8,6  | 1,1  |
| 20 | 1                              | 13,4 | 1,45 |
| 25 | 1 1/4                          | 23,6 | 1,2  |
| 30 | 1 1/2                          | 22,4 | 3,2  |
| 40 | 2                              | 35,8 | 3,4  |

#### Direction for use :

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



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