

Technical data sheet

Type 297

Non-return valve

System TJO

Applications and special features




- Operation in any position
- Reliable, robust, simple
- Minimum head loss
- Closing system : tripod formation with hydraulic profile with release spring
- Sealing ensured by a pliable O-ring on a rigid seat
- Long axial guiding
- FKM seal

Technical description

| DN | PFA | PS in bar | | | | Cat. | References | Vvs-nr |
|-------|-----|-----------|----|----|----|------|------------|--------|
| | | L1 | L2 | G1 | G2 | | | |
| 1/4 | 10 | 10 | 10 | 10 | 10 | 3.3 | 149B 3168 | |
| 3/8 | 12 | 10 | 10 | 10 | 10 | 3.3 | 149B 3159 | |
| 1/2 | 15 | 10 | 10 | 10 | 10 | 3.3 | 149B 3160 | |
| 3/4 | 20 | 10 | 10 | 10 | 10 | 3.3 | 149B 3161 | |
| 1 | 25 | 10 | 10 | 10 | 10 | 3.3 | 149B 3162 | |
| 1 1/4 | 32 | 10 | 10 | 10 | x | 3.3 | 149B 3163 | |
| 1 1/2 | 40 | 10 | 10 | 10 | x | 3.3 | 149B 3164 | |
| 2 | 50 | 10 | 10 | 10 | x | 3.3 | 149B 3165 | |

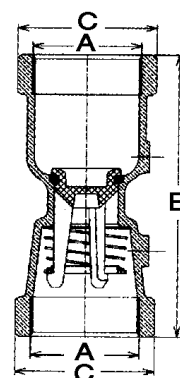
Important notice :

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/Female (BSP).
- **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** : Hydrocarbons, gas
- **Approvals** : ACS 
- **International construction Standards** :
Directive 97/23/CE
Thread connection NF E 03-005 ISO 228

Overall dimensions

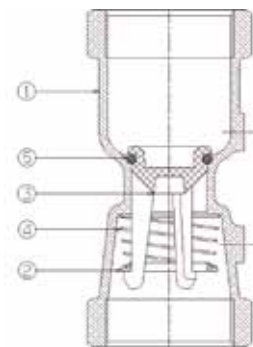
| A | | B | C | Weight |
|-------|-------|------|----|--------|
| " | mm | mm | mm | kg |
| 1/4 | 8/13 | 52,5 | 20 | 0,060 |
| 3/8 | 12/17 | 54 | 20 | 0,075 |
| 1/2 | 15/21 | 66 | 24 | 0,125 |
| 3/4 | 20/27 | 73 | 30 | 0,200 |
| 1 | 26/34 | 94 | 38 | 0,200 |
| 1 1/4 | 33/42 | 105 | 47 | 0,430 |
| 1 1/2 | 40/49 | 120 | 53 | 0,650 |
| 2 | 50/60 | 156 | 66 | 1,050 |




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Spare parts list and materials

| Nb | Description | Materials | EURO | ANSI |
|----|-------------------------------|------------------|-------------|----------|
| 1 | CASING | Brass | CuZn40Pb2 | |
| 2 | RING (from 1") | POM (polyacetal) | | |
| 3 | CLOSING SYSTEM DN1/4"-1/2" | PA (polyamid) | | |
| | DN3/4"-2" | POM (polyacetal) | | |
| 4 | SPRING | Stainless steel | X10CrNi18-8 | AISI 302 |
| 5 | SEAL | FKM | | |



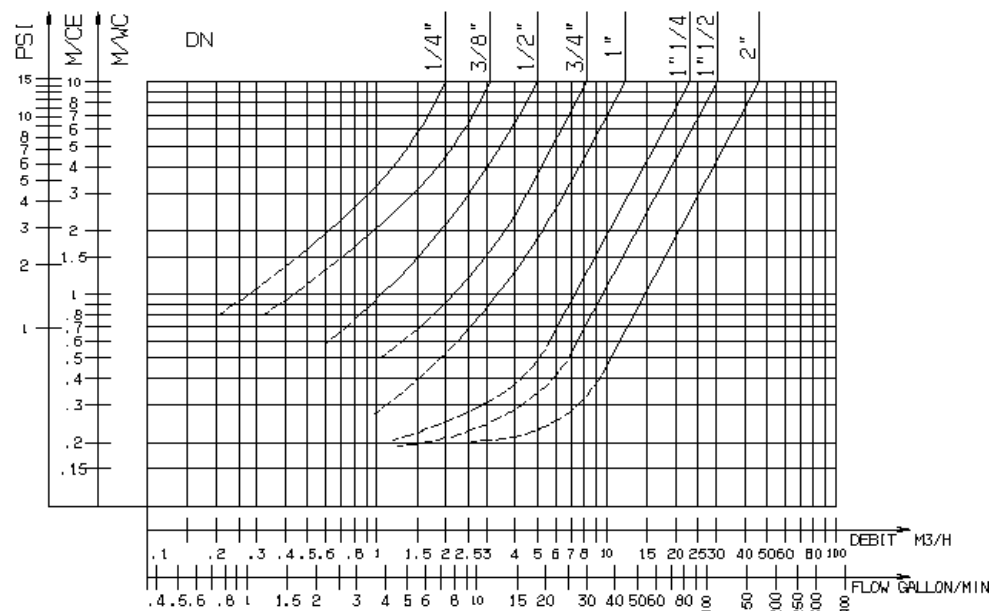
Working principle

| DN | | Opening pressure in mm/WC | Kv | ζ |
|-------|----|---|-------|---------|
| " | mm |  | m³/H | |
| 1/4 | 10 | Between 100 and 250 | 2,00 | 1,6 |
| 3/8 | 12 | | 3,13 | 1,6 |
| 1/2 | 15 | | 5,00 | 3,1 |
| 3/4 | 20 | | 8,23 | 3,7 |
| 1 | 25 | | 12,07 | 4,2 |
| 1 1/4 | 32 | | 23,00 | 3,1 |
| 1 1/2 | 40 | | 30,00 | 4,4 |
| 2 | 50 | | 46,60 | 4,5 |

Direction for use :

- Solid line : Valve completely open
- Dotted line : Opening stage of the valve

ΔP



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