

# L01

**L01 177 616.375 DN40-DN300**  
**Check valve dual plate wafer**



Certificate 3.1



**Size :** DN 50 to 300  
**Ends :** Between flanges PN10/16  
**Min Temperature :** - 10°C  
**Max Temperature :** + 110°C  
**Max Pressure :** 16 Bars  
**Specifications :** Vulcanized gasket  
Horizontal or vertical position  
Between flanges

**Materials :** Cast iron body

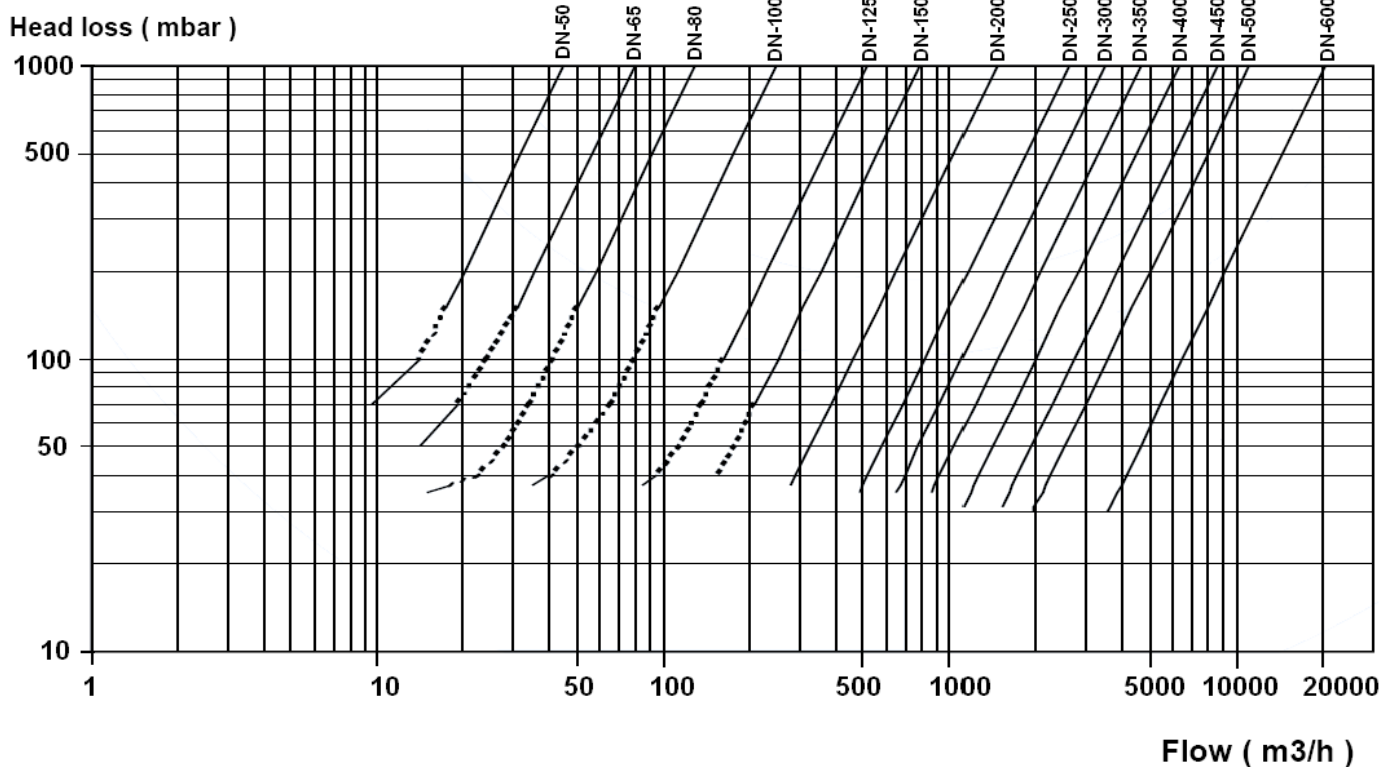
### SPECIFICATIONS :

- Vulcanized gasket
- Hoisting eye from DN200 to 300
- Short length
- Anti-corrosion stainless steel spring
- SS316 bushing
- Weak head loss
- Vertical position with ascendant fluid or horizontal position ( respect the flow direction indicated by the arrow )
- Between flanges PN10/16
- Anti-corrosion epoxy painting RAL5017, 200 microns thickness for body

### USE :

- Drinking water, heating, water distribution
- Min and max Temperature Ts : - 10°C to + 110°C
- Max Pressure Ps : 16 bars
- Do not use with pulsatory speed

### HEAD LOSS GRAPH :



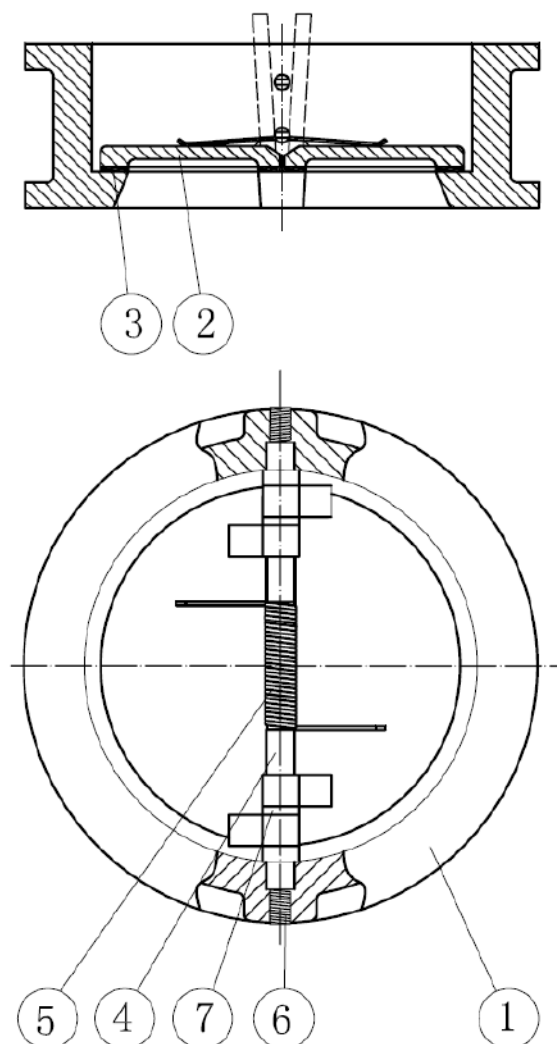
### OPENING PRESSURE ( in mbar ) :

| DN                              | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Horizontal position             | 230 | 94  | 190 | 280 | 160 | 79  | 41  | 38  | 31  |
| Vertical position ascend. fluid | 260 | 114 | 230 | 320 | 180 | 95  | 57  | 58  | 56  |

### RANGE :

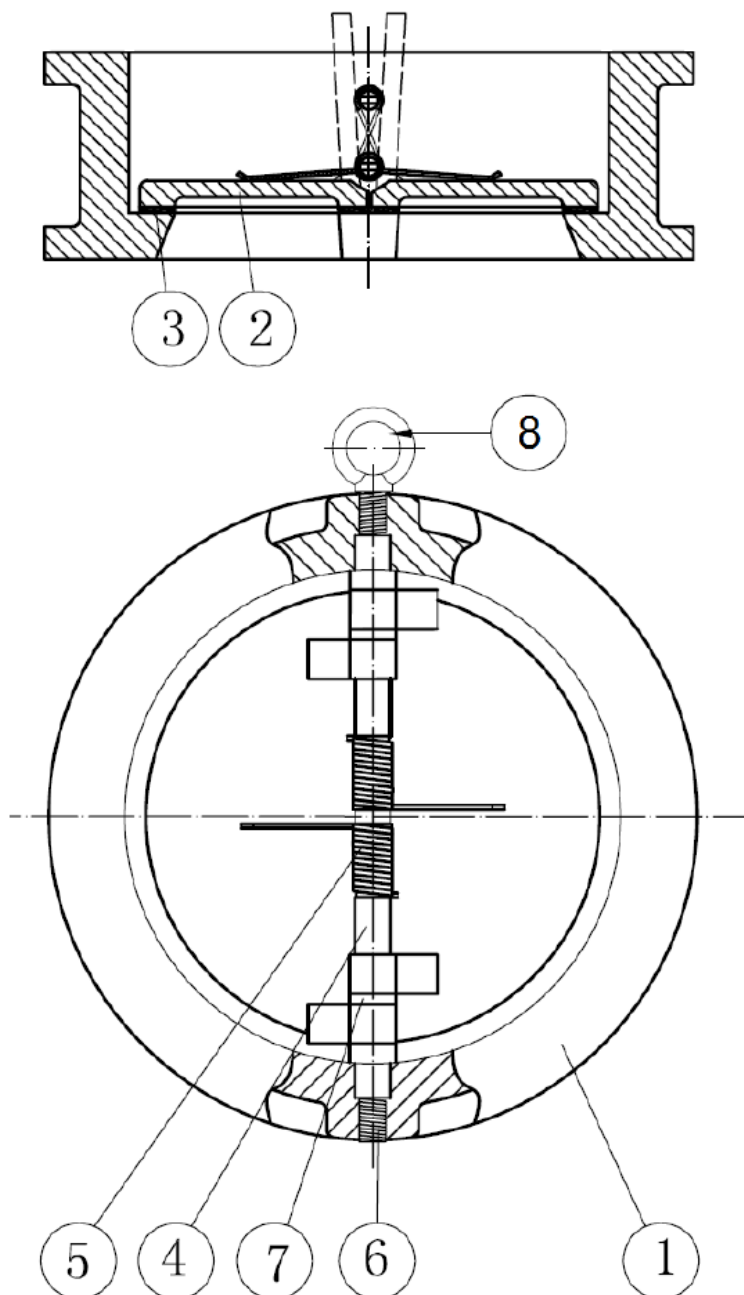
- Double plate check valve with cast iron body and stainless steel disc between flanges PN10/16 **Ref. 375** From DN50 to DN 300

### MATERIALS DN50-80 :



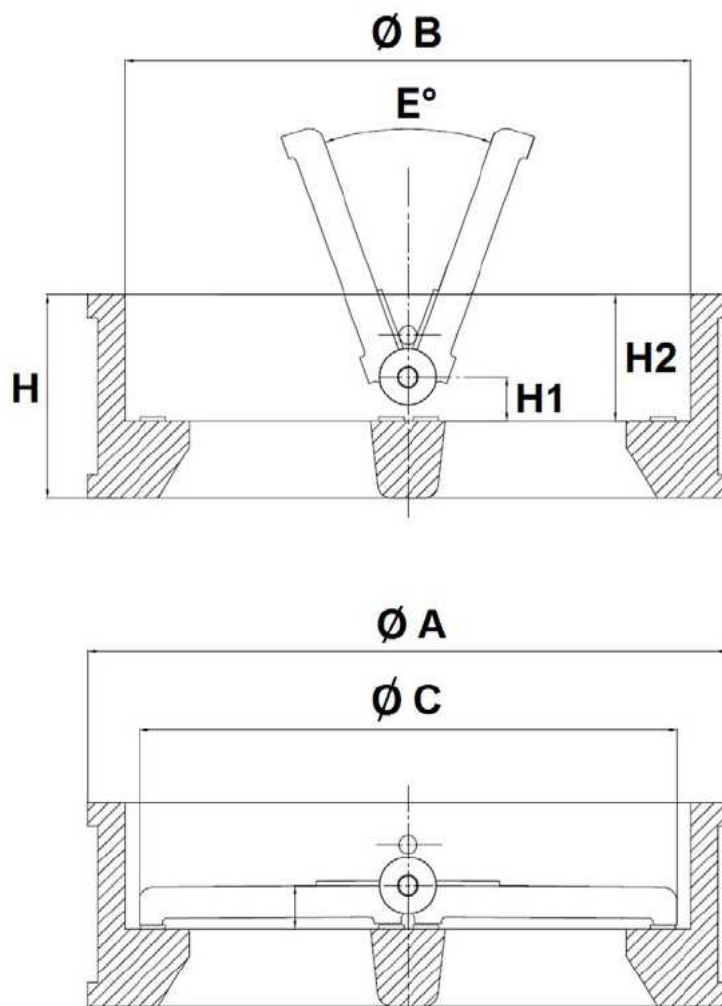
| Item | Designation | Materials               |
|------|-------------|-------------------------|
| 1    | Body        | Cast iron EN-GJL 250    |
| 2    | Disc        | SS ASTM A351 CF8M       |
| 3    | Seat        | EPDM ACS                |
| 4    | Shaft       | SS 316                  |
| 5    | Spring      | SS 316                  |
| 6    | Screw       | Galvanized carbon steel |
| 7    | Spacer      | SS 316                  |

MATERIALS DN100 - 300 :



| Item | Designation                      | Materials 371           |
|------|----------------------------------|-------------------------|
| 1    | Body                             | Cast iron EN-GJL 250    |
| 2    | Disc                             | ASTM A351 CF8M          |
| 3    | Seat                             | EPDM ACS                |
| 4    | Shaft                            | SS 316                  |
| 5    | Spring                           | SS 316                  |
| 6    | Screw                            | Galvanized carbon steel |
| 7    | Spacer                           | SS 316                  |
| 8    | Hoisting eye (from DN200 to 300) | SS 304                  |

SIZE ( in mm ) :



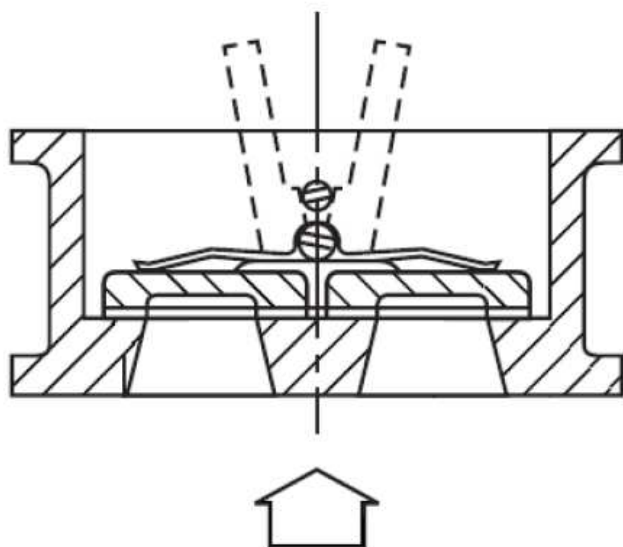
| Ref. | DN            | 50   | 65   | 80   | 100   | 125   | 150   | 200   | 250   | 300   |
|------|---------------|------|------|------|-------|-------|-------|-------|-------|-------|
| 375  | H             | 54   | 54   | 57   | 64    | 70    | 76    | 95    | 108   | 144   |
|      | H1            | 14.4 | 16.9 | 19.9 | 21    | 22.3  | 22.5  | 28    | 34    | 37    |
|      | H2            | 43   | 43   | 45   | 47    | 51    | 54    | 69    | 71    | 100   |
|      | Ø A           | 109  | 129  | 144  | 164   | 194   | 220   | 275   | 330   | 380   |
|      | Ø B           | 70.5 | 83.5 | 91.5 | 115.5 | 142.5 | 169.5 | 220.5 | 275.5 | 325.5 |
|      | Ø C           | 60.5 | 75.8 | 80.5 | 104.5 | 130.3 | 155.9 | 201.2 | 257.2 | 303.3 |
|      | E°            | 0°   | 0°   | 0°   | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    |
|      | Weight ( Kg ) | 1.62 | 2.3  | 3.14 | 4.5   | 6.7   | 9.05  | 16    | 26.9  | 38.9  |

### STANDARDS :

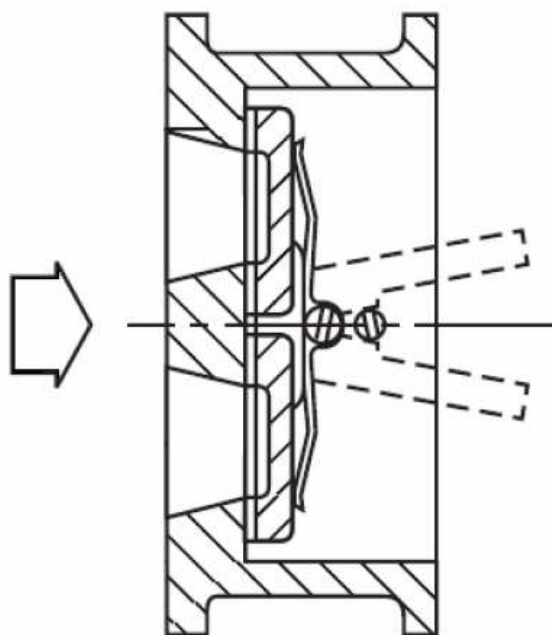
- Fabrication according to ISO 9001 : 2015
- DIRECTIVE 97/23/CE : CE N° 0035  
Risk Category III Module H
- Certificate 3.1 on request
- Designing according to API 594
- Pressure tests according to API 598, table 6
- Length according to EN 558 Series 50
- Between flanges according to EN 1092-1 PN10/16
- French water agreement **A.C.S. N° 15 ACC LY 411**

### INSTALLATION POSITIONS :

Vertical position ( ascendant fluid )



Horizontal position



### INSTALLATION INSTRUCTIONS

#### GENERAL GUIDELINES :

- Ensure that the check valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.

#### INSTALLATION INSTRUCTIONS :

- Before installing the check valves, clean and remove any objects from the pipes (in particular bits of sealing and metal) which could obstruct and block the valves.
- Ensure that both connecting pipes either side of the check valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).
- Make sure that the two sections of the pipe (upstream and downstream) match, the check valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the check valve and can even cause a rupture. To be sure, place the kit in position to ensure the assembling will work.
- Make sure there is enough space so that the disc can be opened totally in the pipe.
- If there is a direction changing or if there's another material, it's better to take away the check valve so that it is outside the turbulence area ( **between 3 and 5 times the ND before and after** ).
- After a pump please refer to **FD CEN/TR 13932** to install the check valve :
  - If it is essential to keep priming the pump, a non-return check valve can be fitted to the suction pipe at a distance **L1 ( straight length suction ) > 10xD1 (diameter suction )**  
The check valve is designed to meet the maximum flow rate in service
  - In other cases, the non-return check valve is mounted on the discharge pipe at a distance of **L2 (straight length at discharge) > 3xD2 (diameter at discharge)**
- Respect the flow direction indicated by the arrow