

## SWING CHECK VALVE

### TECHNICAL PASSPORT

#### FLANGED SWING CHECK VALVE DUCTILE IRON BODY

CBI 4248-NI

#### APPLICATION

The swing check valve TECOFI is suitable for non-loaded fluid transfer applications under regular non-pulsating conditions.

**Area of use :** industry, waste water treatment.



**Fluides :** waste water, charged water.

#### GENERAL CHARACTERISTICS

**Range :** from DN50 to DN500.

Design according to EN16767.

Ensures the passage of fluid in one direction and closes as soon as the direction is reversed.

Direction of installation indicated by an arrow on the body.

Full flow area for non clog and low head loss.

Rustproof stainless steel bolting.

Robust and economical construction requiring no maintenance.

Does not require counterweight

Interior and exterior coating in epoxy paint RAL 5015, thickness 250µm.

Mounting on horizontal or vertical ascending piping.

Drain and plug evacuation of impurities, allows partial opening of the disc if necessary when the return pressure is greater than the opening pressure.



#### STANDARDS

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Design       | According to EN16767                                                                                    |
| Face to face | Face to face according to EN 558 (DIN3202 F6)                                                           |
| Connection   | Flange connection in accordance with EN 1092-2 PN10/16                                                  |
| Tests        | Hydraulic tests according to EN12266-1, DIN 3230 and ISO 5208 :<br>- Body : 24 bar<br>- Seat : 17.6 bar |

#### PRODUCT APPROVALS



#### Tecofi France

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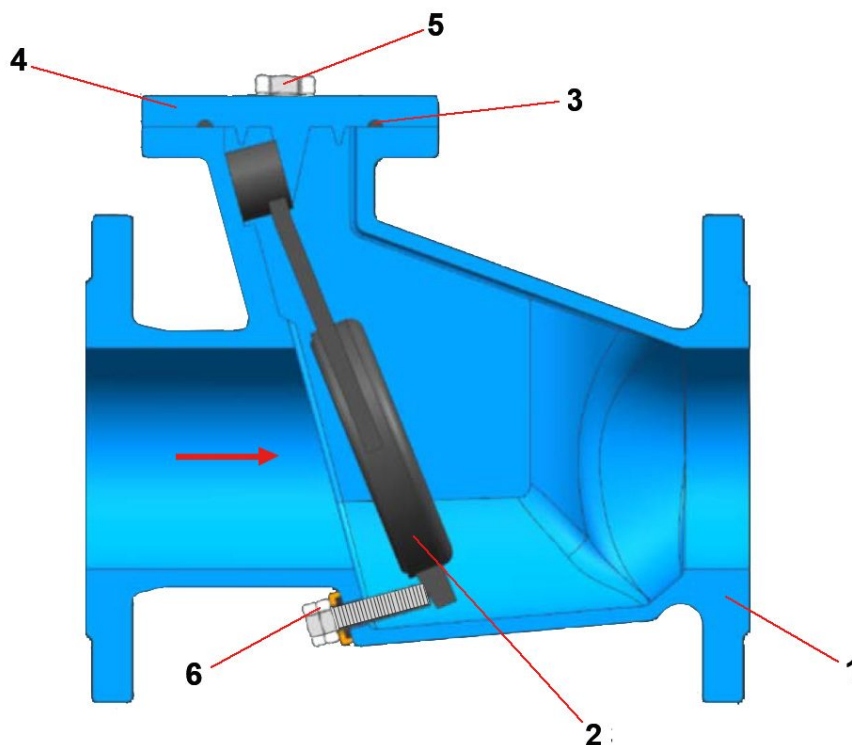


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#### CONSTRUCTION



| Pos. | Description | Material                               | Equivalences |               |          |
|------|-------------|----------------------------------------|--------------|---------------|----------|
|      |             |                                        | DIN          | ASTM          | BS       |
| 1    | Body        | Ductile iron EN-GJS-500-7              | GGG50        | A536 70-50-05 | BS 500/7 |
| 2    | Plate       | Ductile iron EN-GJS-500-7 / NBR coated | GGG50        | A536 70-50-05 | BS 500/7 |
| 3    | Gasket      | NBR                                    |              |               |          |
| 4    | Bonnet      | Ductile iron EN-GJS-500-7              | GGG50        | A536 70-50-05 | BS 500/7 |
| 5    | Bolt        | Stainless steel A4                     |              |               |          |
| 6    | Plug        | Stainless steel A4                     |              |               |          |

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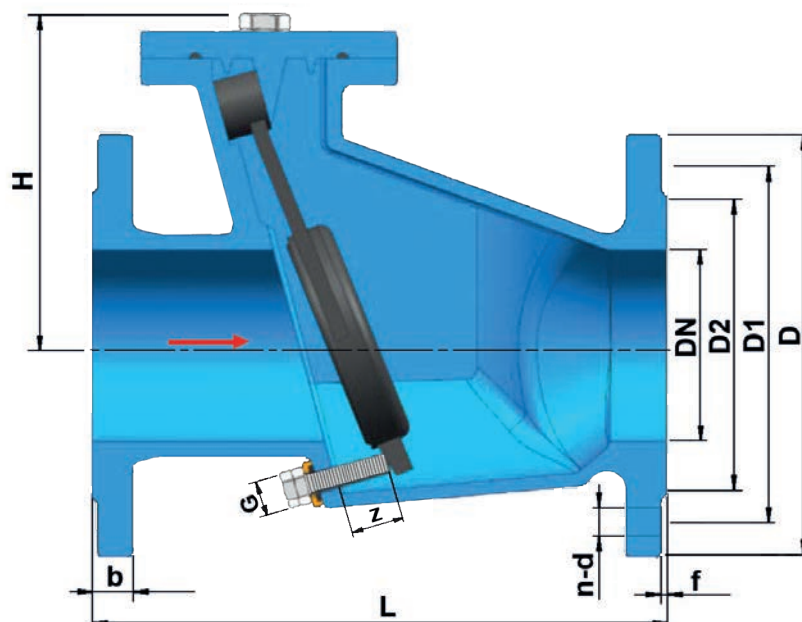


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### DIMENSIONS



| DN  |        | L    | H   | ØD  | ØD1 | ØD2 | G      | z  | b    | f | n - ød              | Kv<br>(m³/h) | Weight<br>(kg) |
|-----|--------|------|-----|-----|-----|-----|--------|----|------|---|---------------------|--------------|----------------|
| mm  | inch   |      |     |     |     |     |        |    |      |   |                     |              |                |
| 50  | 2"     | 200  | 120 | 165 | 125 | 99  | M12x50 | 22 | 19   | 3 | 4 - ø19             | 41           | 10.9           |
| 65  | 2 1/2" | 240  | 140 | 185 | 145 | 118 | M12x50 | 15 | 19   | 3 | 4 - ø19             | 65           | 14.5           |
| 80  | 3"     | 260  | 168 | 200 | 160 | 132 | M12x50 | 22 | 19   | 3 | 8 - ø19             | 93           | 16.5           |
| 100 | 4"     | 300  | 185 | 220 | 180 | 156 | M12x50 | 19 | 19   | 3 | 8 - ø19             | 170          | 24.5           |
| 125 | 5"     | 350  | 225 | 250 | 210 | 184 | M16x60 | 26 | 19   | 3 | 8 - ø19             | 265          | 37.0           |
| 150 | 6"     | 400  | 269 | 285 | 240 | 211 | M16x60 | 26 | 19   | 3 | 8 - ø23             | 382          | 48.0           |
| 200 | 8"     | 500  | 312 | 340 | 295 | 266 | M16x60 | 22 | 20   | 3 | 8 - ø23 / 12 - ø23  | 685          | 86.5           |
| 250 | 10"    | 600  | 328 | 405 | 355 | 319 | M16x60 | 22 | 22   | 3 | 12 - ø23 / 12 - ø28 | 1077         | 110.0          |
| 300 | 12"    | 700  | 377 | 460 | 410 | 370 | M16x60 | 20 | 24.5 | 4 | 12 - ø23 / 12 - ø28 | 1557         | 173.0          |
| 350 | 14"    | 800  | 459 | 520 | 470 | 429 | M16x80 | 40 | 26.5 | 4 | 16 - ø23 / 16 - ø28 | 1892         | 238.0          |
| 400 | 16"    | 900  | 437 | 580 | 525 | 480 | M16x80 | 38 | 28   | 4 | 16 - ø28 / 16 - ø31 | 2513         | 325.0          |
| 450 | 18"    | 1000 | 465 | 640 | 585 | 548 | M16x80 | 38 | 30   | 4 | 20 - ø28 / 20 - ø31 | -            | 440.0          |
| 500 | 20"    | 1100 | 515 | 715 | 650 | 609 | M16x80 | 37 | 31.5 | 4 | 20 - ø28 / 20 - ø34 | -            | 565.0          |

### WORKING CONDITIONS

Maximum working pressure : 16 bar

Cracking pressure : 0.5 bar

Minimum back pressure for sealing : 0.5 bar (DN50-150)  
0.2 bar (DN200-500)

Maximum working temperature : -20°C / +85°C

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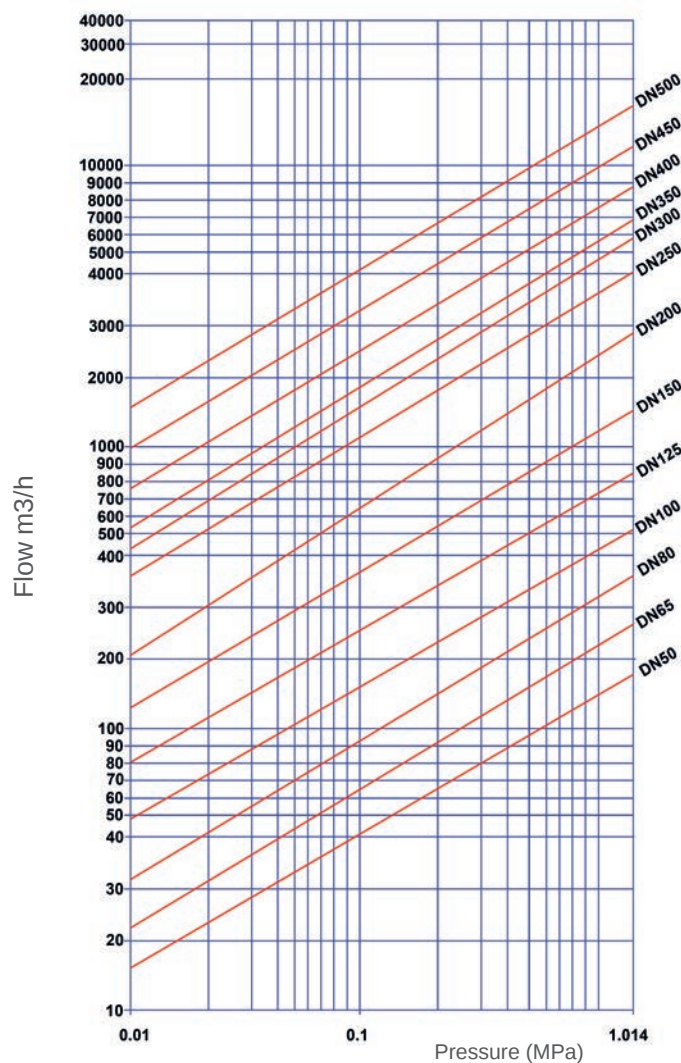


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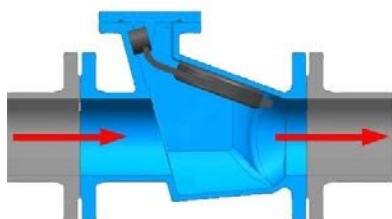
**CBI 4248-NI**

### HEAD LOSS DIAGRAM

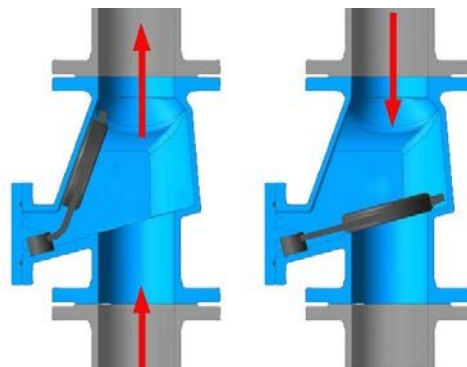


### MOUNTING POSITION

Horizontal mounting:



Vertical mounting with ascending fluid



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