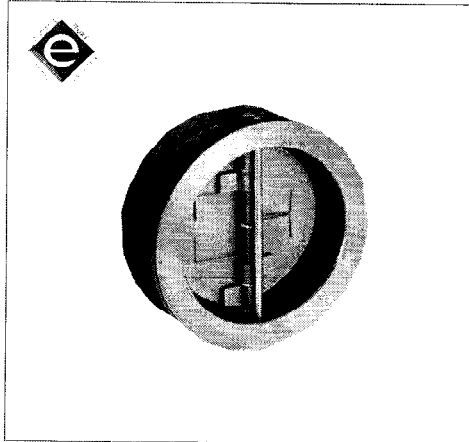


## Type 895

### Non return-valve System 05

#### Applications and special features



- Operating position : horizontal and vertical
- Minimum occupation of space
- Very low head loss
- For pumping, water supply, general industry
- Closing system : double plate with return spring

#### Technical description

| DN<br>" | mm  | PN    | PFA<br>in bar | PS in bar |    |     |    | Cat. | References | Vvs-nr |
|---------|-----|-------|---------------|-----------|----|-----|----|------|------------|--------|
|         |     |       |               | L1        | L2 | G1  | G2 |      |            |        |
| 2       | 50  | 10/16 | 16            | 16        | 16 | 16  | 16 | I    | 149B 3000  |        |
| 2 1/2   | 65  | 10/16 | 16            | 16        | 16 | 15  | 16 | I    | 149B 3001  |        |
| 3       | 80  | 10/16 | 16            | 16        | 16 | 12  | 16 | I    | 149B 3002  |        |
| 4       | 100 | 10/16 | 16            | 16        | 16 | 10  | 16 | I    | 149B 3003  |        |
| 5       | 125 | 10/16 | 16            | 16        | 16 | 0,5 | 16 | I    | 149B 3004  |        |
| 6       | 150 | 10/16 | 16            | 13        | 16 | 0,5 | 16 | I    | 149B 3005  |        |
| 8       | 200 | 10/16 | 16            | 10        | 16 | 0,5 | 16 | I    | 149B 3006  |        |
| 10      | 250 | 10/16 | 16            | 10        | 16 | 0,5 | 14 | I    | 149B 3007  |        |
| 12      | 300 | 10/16 | 16            | 10        | 16 | 0,5 | 11 | I    | 149B 3008  |        |

#### Important notice:

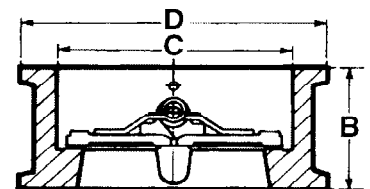
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

The operating instructions are available on our web site [www.danfoss-socla.com](http://www.danfoss-socla.com) or by simple request from our sales department.

- **Connection** : Mounting between flanges, 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
- **T°** : Mini. -10 °C  
Maxi. 100 °C
- **Mediums** : Clear water, gas
- **Approvals** : VERITAS (France), ACS (France)  
WRAS (UK)  
CE Conformity (Europe)
- **International construction Standards** :  
CE Conformity Directive 97/23/CE  
Flange drilling according to EN1092-2  
Overall dimensions according to EN558-1 serie 50

#### Overall dimensions

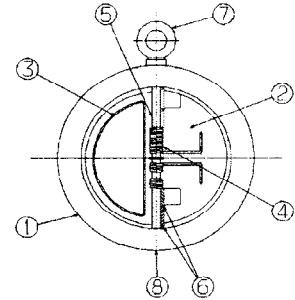
| DN<br>" | DN  |     | B<br>mm | C<br>mm | D<br>mm | Weight<br>kg |
|---------|-----|-----|---------|---------|---------|--------------|
|         | mm  | mm  |         |         |         |              |
| 2       | 50  | 54  | 60      | 109     | 1,2     |              |
| 2 1/2   | 65  | 54  | 73      | 129     | 1,8     |              |
| 3       | 80  | 57  | 89      | 144     | 2,9     |              |
| 4       | 100 | 64  | 114     | 164     | 3,9     |              |
| 5       | 125 | 70  | 141     | 194     | 5,8     |              |
| 6       | 150 | 76  | 168     | 220     | 8       |              |
| 8       | 200 | 95  | 219     | 275     | 14      |              |
| 10      | 250 | 108 | 273     | 330     | 22      |              |
| 12      | 300 | 143 | 324     | 380     | 34      |              |



## Technical data sheet Type 895 - Non return-valve

### Spare parts list and materials

| Nb | Description        | Materials            | EURO            | ANSI                |
|----|--------------------|----------------------|-----------------|---------------------|
| 1  | CASING DN50 to 150 | Cast iron + epoxy    | EN-GJL-250      | ASTM A 48 35 B      |
|    | DN200 to 300       | Ductile iron + epoxy | EN-GJS-400.15   | ASTM A 536 60-40-18 |
| 2  | PLATES             | Stainless steel      | X5CrNi18-10     | AISI 304            |
| 3  | SEAL               | EPDM                 |                 |                     |
| 4  | SPRING             | Stainless steel      | X5CrNiMo17-12-2 | AISI 316            |
| 5  | STEM               | Stainless steel      | X5CrNiMo17-12-2 | AISI 316            |
| 6  | BEARING            | PTFE                 |                 |                     |
| 7  | EYE BOLT DN>150    | Steel XC15           |                 |                     |
| 8  | PLUGS              | Brass                |                 |                     |



### Working principle

| DN               | mm  | Opening pressure in mm/CE | Kv                | $\zeta$ |
|------------------|-----|---------------------------|-------------------|---------|
|                  |     |                           | m <sup>3</sup> /H |         |
| 2                | 50  | Near 0                    | 39,50             | 6,30    |
| 2 <sup>1/2</sup> | 65  |                           | 82,50             | 4,10    |
| 3                | 80  |                           | 137,00            | 3,40    |
| 4                | 100 |                           | 250,00            | 2,50    |
| 5                | 125 |                           | 513,00            | 1,45    |
| 6                | 150 |                           | 891,00            | 1,00    |
| 8                | 200 |                           | 1503,00           | 1,10    |
| 10               | 250 |                           | 2746,00           | 1,10    |
| 12               | 300 |                           | 3986,00           | 1,10    |

#### Directions for use :

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

$\Delta P$

