

Data sheet

Non return Valve - Danfoss NVD 895

Description



- Closing system: double plate with return spring
- Using these check valves on networks equipped with piston pumps or compressors is not recommended.

Main Data:

- DN 50 - 400
- k_{vs} 35.7 - 5867 m³/h
- PN 10/16
- Medium:
 - Circulation water, drinking water or chilled glycolic water up to 50 %
- Medium Temperature:
 - 10 ... 100 °C
- Mounting between flanges PN10/16
- Compliance with Pressure Equipment Directive 2014/68/EU

Features:

- Operating position: horizontal and vertical
- Minimum occupation of space
- Very low head loss
- For pumping, water supply, general industry

- Approvals:

Ordering

| DN | Kv (m ³ /h) | PN | PFA (bar) | PS (bar) | | | | Code No. |
|-----|---------------------------|-------|--------------|----------|----|-----|-----------------|-----------------|
| | | | | L1 | L2 | G1 | G2 | |
| 50 | 35.7 | 10/16 | 16 | 16 | 16 | 16 | 16 | 065B7495 |
| 65 | 64.7 | | | | | 15 | | 065B7496 |
| 80 | 116.1 | | | | | 12 | | 065B7497 |
| 100 | 253.3 | | | | | 10 | | 065B7498 |
| 125 | 481.8 | | | | | 0.5 | | 065B7499 |
| 150 | 698.4 | | | 13 | | 0.5 | 065B7500 | |
| 200 | 1345.5 | | | | | 0.5 | 065B7501 | |
| 250 | 2249.5 | | | 10 | | 0.5 | 14 | 065B7502 |
| 300 | 3098 | | | | | 0.5 | 11 | 065B7503 |
| 400 | 5867 | | | | | - | 8 | 065B7504 |

Note:

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.

Dimensions

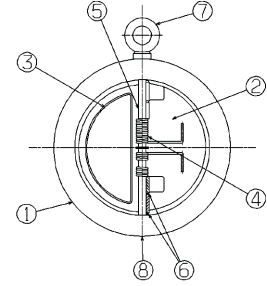
| DN | A (mm) | B (mm) | C (mm) | D (mm) | Weight (kg) |
|-----|-----------|-----------|-----------|-----------|----------------|
| 50 | 50 | 54 | 60 | 109 | 1.2 |
| 65 | 65 | 54 | 73 | 129 | 1.8 |
| 80 | 80 | 57 | 89 | 144 | 2.9 |
| 100 | 100 | 64 | 114 | 164 | 3.9 |
| 125 | 125 | 70 | 141 | 194 | 5.8 |
| 150 | 150 | 76 | 168 | 220 | 8 |
| 200 | 200 | 95 | 219 | 275 | 14 |
| 250 | 250 | 108 | 273 | 330 | 22 |
| 300 | 300 | 143 | 324 | 380 | 34 |
| 400 | 400 | 191 | 410 | 491 | 83 |

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Design

| Pos. | Description | Material | EURO | ANSI |
|------|------------------------------|---|-----------------------------|---------------------------------------|
| 1 | Casing DN50-150 DN200-400 | Cast iron + epoxy Ductile iron + epoxy | EN-GJL-250 EN-GJS-400.15 | ASTM A 48 35 B ASTM A 536 60-40-18 |
| 2 | Plates | Stainless steel | GX5CrNi19-10 | AISI 304 |
| 3 | Seal | EPDM | — | — |
| 4 | Spring | Stainless steel | X5CrNiMo17-12-2 | AISI 316 |
| 5 | Steam | Stainless steel | X5CrNiMo17-12-2 | AISI 316 |
| 6 | Bearing | PTFE | — | — |
| 7 | Eye bolt DN>150 | Steel XC15 | — | — |
| 8 | Plugs | Brass | — | — |

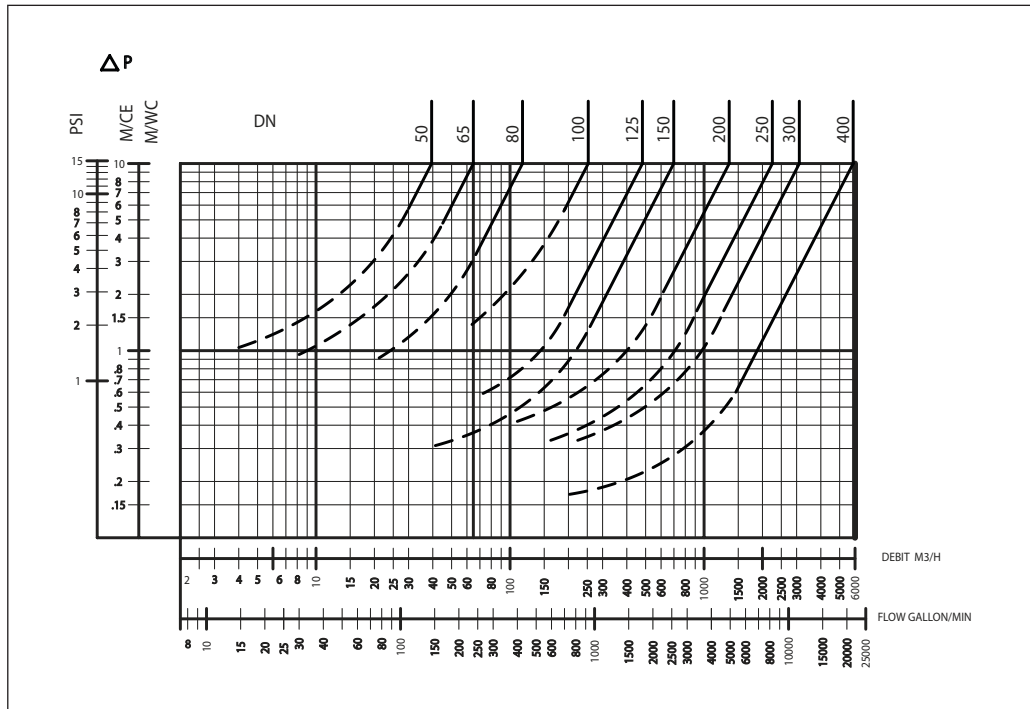


Headloss diagram

| DN | Opening pressure (mm) | Kv (m³/h) | ζ |
|-----|-----------------------|-----------|------|
| 50 | Near 0 | 35.7 | 7.81 |
| 65 | | 64.7 | 6.81 |
| 80 | | 116.1 | 4.86 |
| 100 | | 253.3 | 2.49 |
| 125 | | 481.8 | 1.68 |
| 150 | | 698.4 | 1.66 |
| 200 | | 1345.5 | 1.41 |
| 250 | | 2249.5 | 1.23 |
| 300 | | 3098 | 1.35 |
| 400 | 5867 | 1.2 | |

Direction for use:

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



Danfoss A/S

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