

ÖZKAN Nozzle Check Valve

Designed to prevent backflow in several applications through a dynamic design using springs allowing a quick response to flow changes.



TECHNICAL GUIDE: AVH4.7

Applications

Raw water
River water
Grey water
Screened effluent

Product Attributes

Quick response to flow changes
Short closing stroke
Low head loss
High corrosion resistance

Approvals/Standards

EN 558-1 Series 13 and 14
face to face dimensions

Working tests to EN 1074 EN 12266

AS4087 Flanges

Quality

ISO 9001:2008 Quality Management
ISO 14001:2004 Environmental
Management
OHAS 18001:2007 Health and Safety

Özkan Nozzle Check Valve

Design Specifications

Özkan Nozzle Check Valves are a speciality type of check valve that brings unique design features together for high performance applications. These valves have non-slam closure, low head loss, self-cleaning seat area and can handle applications in raw, grey and river water as well as screened effluent.

| Diameter | Pressure |
|------------|----------|
| DN300-1000 | PN 10-25 |

Design Features

TABLE 1 Design Features

| Part No. | Description | Material |
|----------|-------------|----------------------------|
| 1 | Body | Ductile iron EN-GJS-400-15 |
| 2 | Disc | Ductile iron EN-GJS-400-15 |
| 3 | Bearing | Bronze |
| 4 | Shaft | Stainless steel X20Cr13 |
| 5 | Stopper | Stainless steel X20Cr13 |
| 6 | Spring | Stainless steel |
| 7 | Bolt | Stainless steel A2 |
| 8 | Nut | Stainless steel X20Cr13 |
| 9 | Setscrew | Stainless steel A2 |

* Other material grades are available upon request.

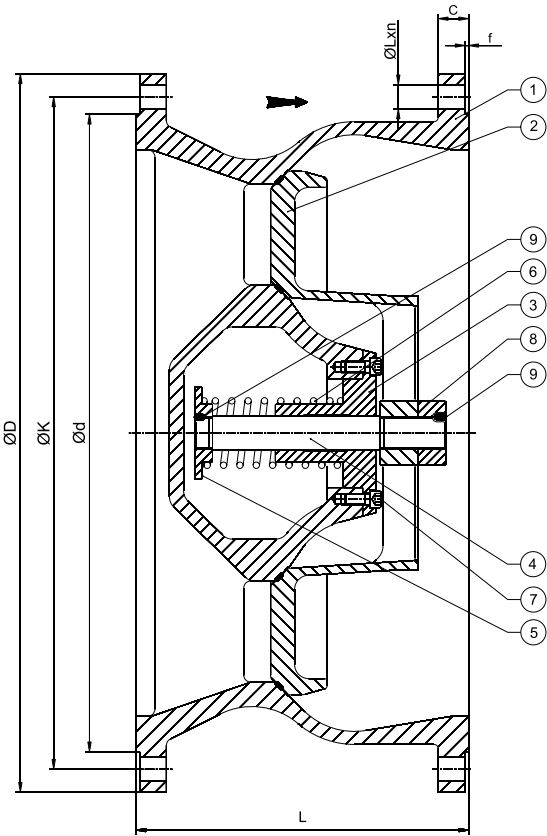


FIG. 1 Nozzle Check Valve Design Features

Technical Specifications

TABLE 2 Nozzle Check Valve PN10 Technical Information

| DN | PN | ØD | Øk | Ød | C | f | ØLxn | L | Weight (KG) |
|------|----|------|------|------|------|---|-------|-----|-------------|
| 300 | 10 | 460 | 400 | 370 | 24.5 | 4 | 23x12 | 270 | 70 |
| 350 | 10 | 520 | 460 | 429 | 27 | 4 | 23x16 | 290 | 113 |
| 400 | 10 | 580 | 515 | 480 | 28 | 4 | 28x16 | 310 | 146 |
| 450 | 10 | 615 | 565 | 530 | 25.5 | 4 | 28x20 | 330 | 178 |
| 500 | 10 | 670 | 620 | 582 | 26.5 | 4 | 28x20 | 350 | 255 |
| 600 | 10 | 780 | 725 | 682 | 30 | 5 | 31x20 | 390 | 395 |
| 700 | 10 | 895 | 840 | 794 | 32.5 | 5 | 31x24 | 430 | 475 |
| 800 | 10 | 1015 | 950 | 901 | 35 | 5 | 34x24 | 470 | 600 |
| 900 | 10 | 1125 | 1050 | 1001 | 46.5 | 5 | 34x28 | 510 | 1020 |
| 1000 | 10 | 1255 | 1160 | 1112 | 50 | 5 | 37x28 | 550 | 1300 |

**Please contact us for other sizes and pressure rates.*

TABLE 3 Nozzle Check Valve PN16 Technical Information

| DN | PN | ØD | Øk | Ød | C | f | ØLxn | L | Weight (KG) |
|------|----|------|------|------|------|---|-------|-----|-------------|
| 300 | 16 | 460 | 410 | 370 | 24.5 | 4 | 28x12 | 270 | 70 |
| 350 | 16 | 520 | 470 | 429 | 27 | 4 | 28x16 | 290 | - |
| 400 | 16 | 580 | 525 | 480 | 28 | 4 | 31x16 | 310 | 146 |
| 450 | 16 | 640 | 585 | 548 | 30 | 4 | 31x20 | 330 | 178 |
| 500 | 16 | 715 | 650 | 609 | 31.5 | 4 | 34x20 | 350 | 255 |
| 600 | 16 | 840 | 770 | 720 | 36 | 5 | 37x20 | 390 | 395 |
| 700 | 16 | 910 | 840 | 794 | 39.5 | 5 | 37x24 | 430 | - |
| 800 | 16 | 1025 | 950 | 901 | 43 | 5 | 41x24 | 470 | 685 |
| 900 | 16 | 1125 | 1050 | 1001 | 46.5 | 5 | 41x28 | 510 | 1110 |
| 1000 | 16 | 1255 | 1170 | 1112 | 50 | 5 | 44x28 | 550 | 1300 |

**Please contact us for other sizes and pressure rates.*

*** PN25 & PN40 Nozzle Check Valves are manufactured upon request.*



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information

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