



ÖZKAN Nozzle **Check Valve**

Technical Guide W4.42

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



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

We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.



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, selfcleaning 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 L | esign) | 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.

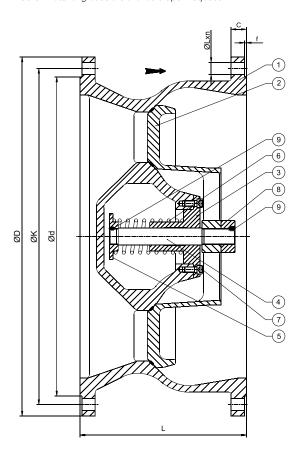


FIG. 1 Nozzle Check Valve Design Features

Technical Specifications

TABLE 2 Nozzle Check Valve PN10 Technical Information

| DN | PN | ØD | Øk | Ød | С | 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 | 28×20 | 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 | С | 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 | 34×20 | 350 | 255 |
| 600 | 16 | 840 | 770 | 720 | 36 | 5 | 37×20 | 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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