

## Design Attributes

Silent Type Check Valves are designed as a non-return valve. The disc opens in normal flow direction, providing undisturbed flow. In case of backflow, the disc acts and closes the valve. The disc is spring driven which allows fast closure of the disc, resulting in non-slam closure. The disc is guided by the shaft supported on two bearings. It matches with the body weld overlay seat to provide sealing. Due to compact globe type body design it can fit into small pump rooms, and circular design of the body allows low head loss. Silent Type Check Valves are designed to have minimum head loss in normal operation and to have drip tight sealing in case of backflow. These check valves are commonly used in the downstream of pump stations, protecting crucial devices.

Suitable for horizontal and vertical installations

Spring driven mechanism allows fast closure

Robust construction with double bearing design

Compact globe type body design



## Main Features

Valve end connections: Flanges drilled to EN 1092-1/2 PN10/16/25/40  
Marking: EN 19. *See arrow in label for normal flow direction*  
Pressure Tests: EN 12266-1  
Inside and outside epoxy coating protection blue color similar to RAL5005

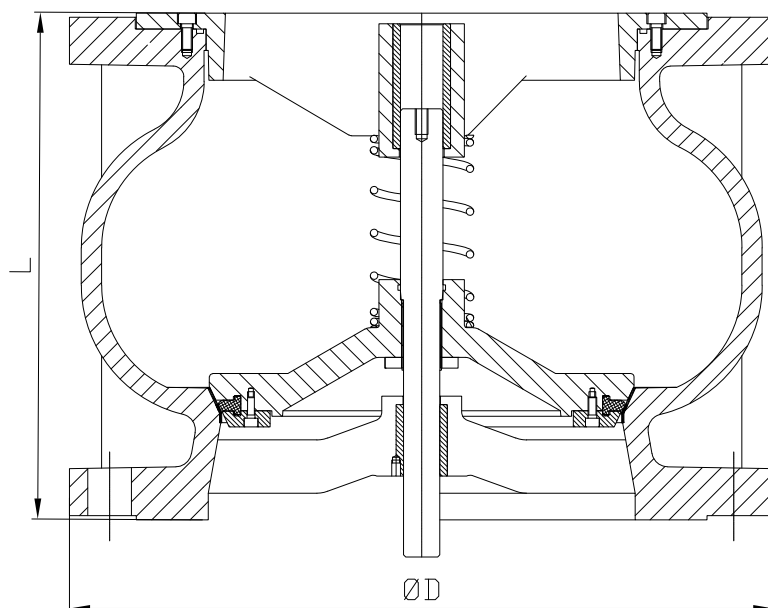
## Main Duties / Limits of use

TS: -10/80°C  
Questions referring to chemical resistance, please consult us

## Options

Other connections, coatings and approvals. Please consult us

## Main Parts and Materials



| PART            | MATERIAL                                  | OTHER MATERIALS                                    |
|-----------------|-------------------------------------------|----------------------------------------------------|
| BODY            | Ductile iron                              | Carbon steel / St. steel / Nickel aluminium bronze |
| GUIDING BODY    |                                           |                                                    |
| DISC            | X20CR13                                   | SS304, SS316, Duplex, NAB                          |
| SHAFT           |                                           |                                                    |
| NUTS            | Copper alloy                              | SS304, SS316, NAB                                  |
| SEAT            | Copper alloy (DN100 onwards)              | SS304, SS316, NAB                                  |
|                 | St. steel alloy weld overlay (up to DN80) | Copper alloy, SS304, SS316, NAB                    |
| SEALS           | EPDM                                      | NBR                                                |
| FASTENERS       | 8.8                                       | SS304, SS316, SS316L                               |
| SPRING          | SS304                                     | SS316                                              |
| RETAINING RING* | St.37                                     | SS304, SS316                                       |

\*Up to DN80

## Main Valve Parameters

| DN     | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700  | 800  | 900  | 1000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| L      | 125 | 145 | 155 | 175 | 200 | 225 | 275 | 325 | 375 | 425 | 475 | 500 | 587 | 710 | 650  | 700  | 800  | 1100 |
| ØD     | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 405 | 475 | 540 | 630 | 680 | 730 | 890 | 1014 | 1160 | 1304 | 1415 |
| Weight | 6   | 8   | 12  | 17  | 23  | 35  | 60  | 95  | 130 | 180 | 240 | 264 | 380 | 590 | 635  | 830  | 1100 | 1420 |

Dimensions in mm subject to manufacturing tolerance / Weights in Kg.