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3 pieces disc check valve BW for drinking water, chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air.

Stainless steel type with PTFE gaskets. All positions.

Removable central part for an easy maintenance.

Metal/metal tightness (leakage rate according to API 598 standard)















Size: DN8 to DN100

Connection: BW
Min Temperature: -20°C
Max Temperature: +200°C
Max Pressure: 63 Bars
Specifications: Disc type

All positions

Metal/metal tightness

In accordance with the regulation EC 1935-2004

Materials: Stainless steel EN 1.4408

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SPECIFICATIONS:

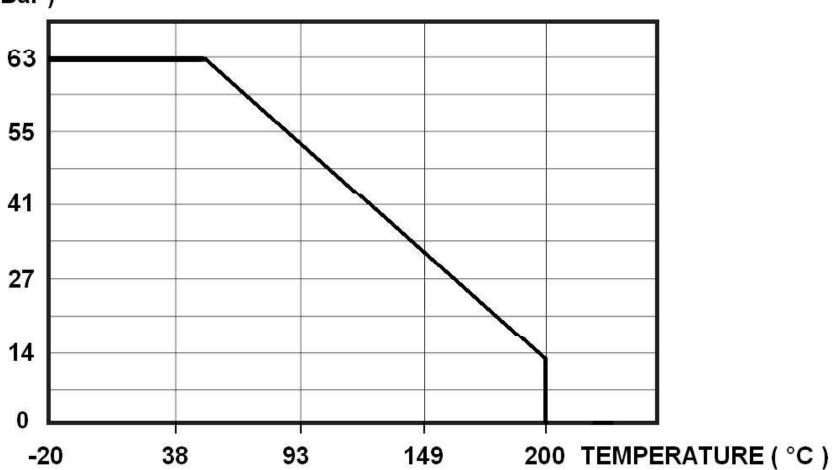
- ⇒ 3 pieces spring type
- All positions (respect the flow direction indicated by the arrow)
- Metal / metal tightness
- Stainless steel

<u>USE :</u>

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air, potable water
- Min Temperature Ts : 20°C
- Max Temperature Ts :+ 200°C
- Max Pressure Ps: 63 bars (see graph under)
- Steam : 11 bars max

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):



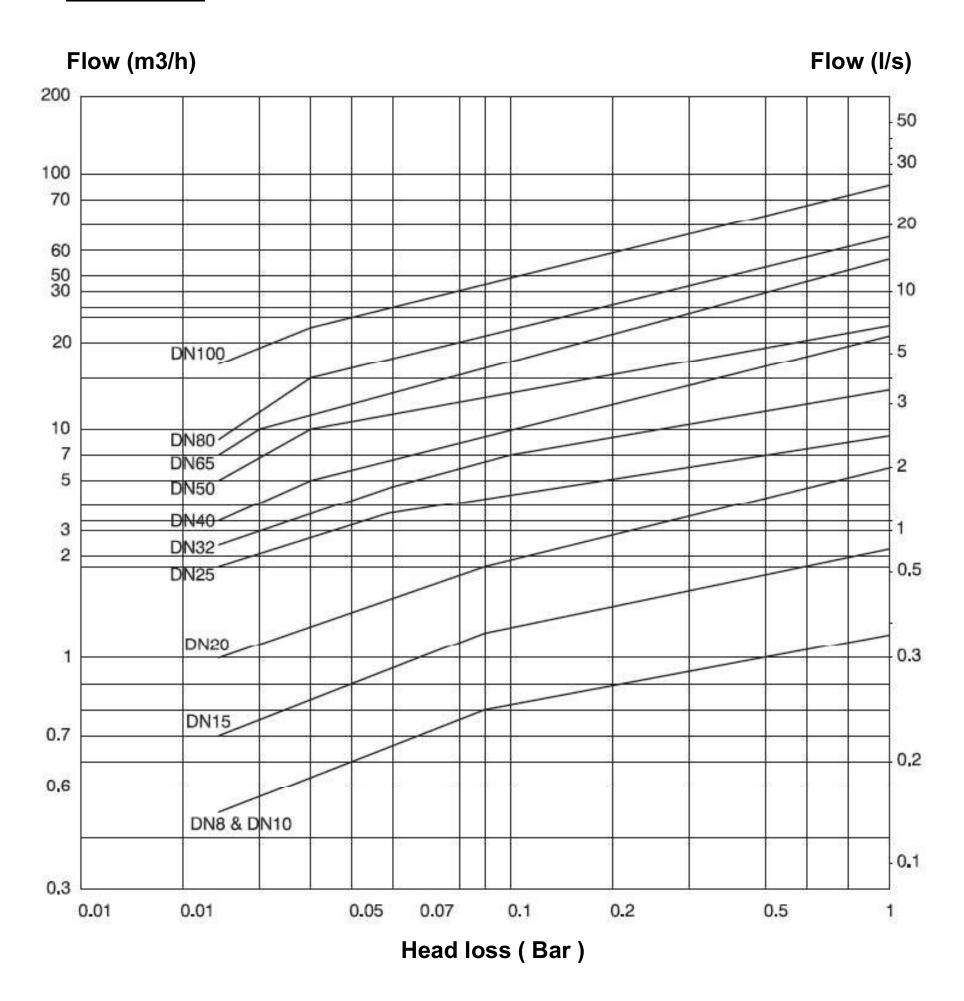


FLOW COEFFICIENT Kvs (M3/h):

| DN (mm) | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
|--------------|------|------|------|-----|------|-------|-------|-------|------|-------|------|
| Kvs (m3/h) | 1.23 | 1.23 | 2.24 | 6.5 | 9.61 | 15.89 | 22.49 | 25.12 | 57.8 | 64.93 | 91.6 |

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HEAD LOSS GRAPH:



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LEAKAGE RATE ACCORDING TO API 598 (DURING 60s):

| NPS (") | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2" | | 6 111 | 25 |
|------------------------|------|------|------|------|----|-------|-------|----|------|--------------|------|
| DN | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| Liquid Test (cc/min) | | 6 | | | | | | | | 9 | 12 |
| Gas Test (m3/h) | | 0.08 | | | | | | | 0.11 | 0.13 | 0.17 |

OPENING PRESSURE (in mbar) :

| DN | Vertical Position ascending fluid | Horizontal Position |
|-------|-----------------------------------|---------------------|
| DN 08 | 25 | 23> |
| DN 10 | 25 | 23 → |
| DN 15 | 25 | 23 → |
| DN 20 | 25 | 23 → |
| DN 25 | 25 | 23 → |
| DN 32 | 27 | 24 → |
| DN 40 | 29 | 25 → |
| DN 50 | 29 | 25 → |
| DN 65 | 31 | 25 → |
| DN 80 | 32 | 26 → |
| DN100 | 33 | 27 → |

BOLT TIGHTENING TABLE (in Nm):

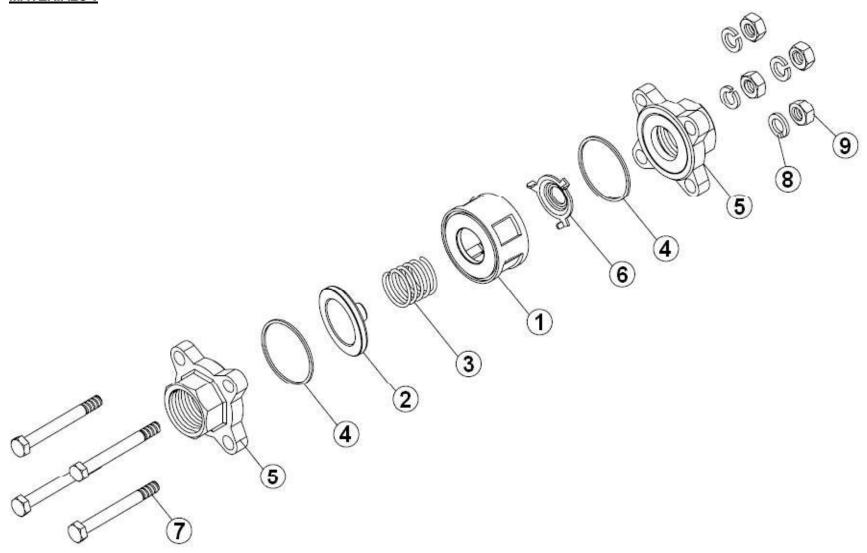
| DN | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
|---------------|----|----|----|----|----|----|----|----|----|----|-----|
| Torque (Nm) | 30 | 30 | 30 | 30 | 45 | 45 | 45 | 60 | 75 | 90 | 105 |

RANGE:

3 pieces disc check valve BW **Ref. 381** from DN8 to DN100

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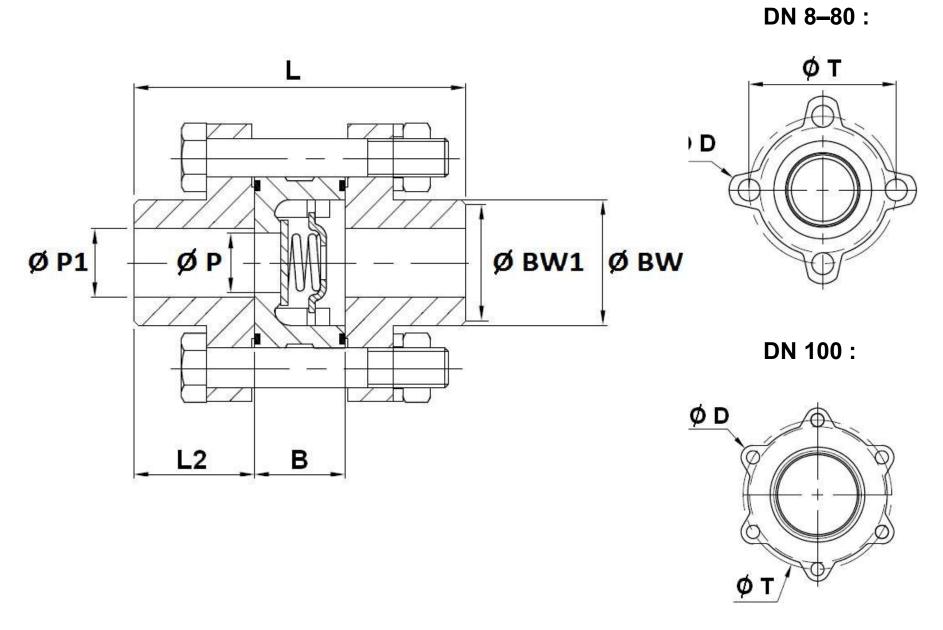
MATERIALS:



| Item | Designation | Materials | | | | | |
|------|---------------|----------------|--|--|--|--|--|
| 1 | Body | EN 1.4408 | | | | | |
| 2 | Disc | ASTM A240-316 | | | | | |
| 3 | Spring | ASTWI A240-316 | | | | | |
| 4 | Gasket | PTFE | | | | | |
| 5 | Ends | EN 1.4408 | | | | | |
| 6 | Spring holder | ASTM A240-316 | | | | | |
| 7 | Screw | | | | | | |
| 8 | Washer | AISI 304 | | | | | |
| 9 | Nut | | | | | | |

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SIZE (in mm):



| DN | 8 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ØΡ | 10 | 10 | 14 | 19 | 25 | 31 | 39 | 49 | 64 | 78 | 97 |
| Ø P1 | 10 | 12.5 | 15 | 20 | 25 | 32 | 39 | 50 | 65 | 80 | 99.5 |
| L | 66 | 66 | 67 | 81 | 89.5 | 92 | 103.5 | 117 | 131.5 | 143.5 | 174.5 |
| L2 | 24 | 24 | 24 | 28.5 | 30 | 29.5 | 33 | 35 | 42 | 44 | 52 |
| В | 18 | 18 | 19 | 24 | 29.5 | 33 | 37.5 | 47 | 47.5 | 55.5 | 70.5 |
| Ø D | 12 | 12 | 14 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 18 |
| Ø BW | 18 | 20.5 | 22 | 28 | 31.5 | 40 | 46 | 60 | 78 | 91.5 | 116 |
| Ø BW1 | 14 | 16.8 | 18 | 23.3 | 28.5 | 35.8 | 41.2 | 53.5 | 69.4 | 84.1 | 104 |
| ØТ | 36.5 | 36.5 | 42.7 | 51.7 | 58.7 | 72.7 | 83.7 | 98.7 | 129 | 153.5 | 186.5 |
| Weight (in Kg) | 0.3 | 0.2 | 0.4 | 0.5 | 0.7 | 1.3 | 1.7 | 2.5 | 4.3 | 6.2 | 11 |
| Ref. | 381008 | 381010 | 381015 | 381020 | 381025 | 381032 | 381040 | 381050 | 381065 | 381080 | 381100 |

STANDARDS:

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/UE : CE N° 0035 Risk category III Module H
- Certificate 3.1 on request
- Construction according to EN 12516-1
- Designing according to ASME B16.34
- Pressure tests according to API 598, table 6
- BW ends according to DIN 3239 standard
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking)
- French water agreement A.C.S. N° 17 ACC LY 341 from DN1/4¹⁵ to 2¹⁶
- Check valve in accordance with the regulation (EC) N° 1935-2004 on request

INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES:

- Ensure that the check valves to be used are appropriate for the conditions of the installation (type of fluid,pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the check valves to be installed are of correct strenght to be able to support the capacity of their usage.
- Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).

INSTALLATION INSTRUCTIONS:

- Before installing the check valves, clean and remove any objects from the pipes (in particular bits of sealing and metal) which could obstruct and block the check valves.
- Ensure that both connecting pipes either side of the check valve (upstream and downstream) are
- Make sure that the two sections of the pipe (upstream and downstream) match, the check valve unit will not absorb any gaps. Any distortions in the pipes may affect the thightness of the connection, the working of the check valve and can even cause a rupture. To be sure, place the kit in position to ensure the assembling will work.
- During welding operation, be sure to not exceed 200°C
- If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the check valve.
- Fluids in the check valve must not contain solid objects (it could damaged the seat).
- it is outside the turbulence area (**between 3 and 5 times the ND before and after**).
- After a pump please refer to **FD CEN/TR 13932** to install the check valve :
 - If it is essential to keep priming the pump, a non-return check valve can be fitted to the suction pipe at a distance L1 (straight length suction) > 10xD1 (diameter suction)
 - The check valve is designed to meet the maximum flow rate in service
 - In other cases, the non-return check valve is mounted on the discharge pipe at a distance of L2 (straight length at discharge) > 3xD2 (diameter at discharge)