

STAINLESS STEEL 3 PIECES DISC CHECK VALVE BW

PRODUCT EVOLUTION



Be careful, our check valves Ref.381 are changing

**We currently have 2 different types available (according to DN)
with different BW nipple dimension**

**At the end, only the types with BW nipples according to ANSI
B36.10 Sch.40 will be available**

STAINLESS STEEL 3 PIECES DISC CHECK VALVE BW

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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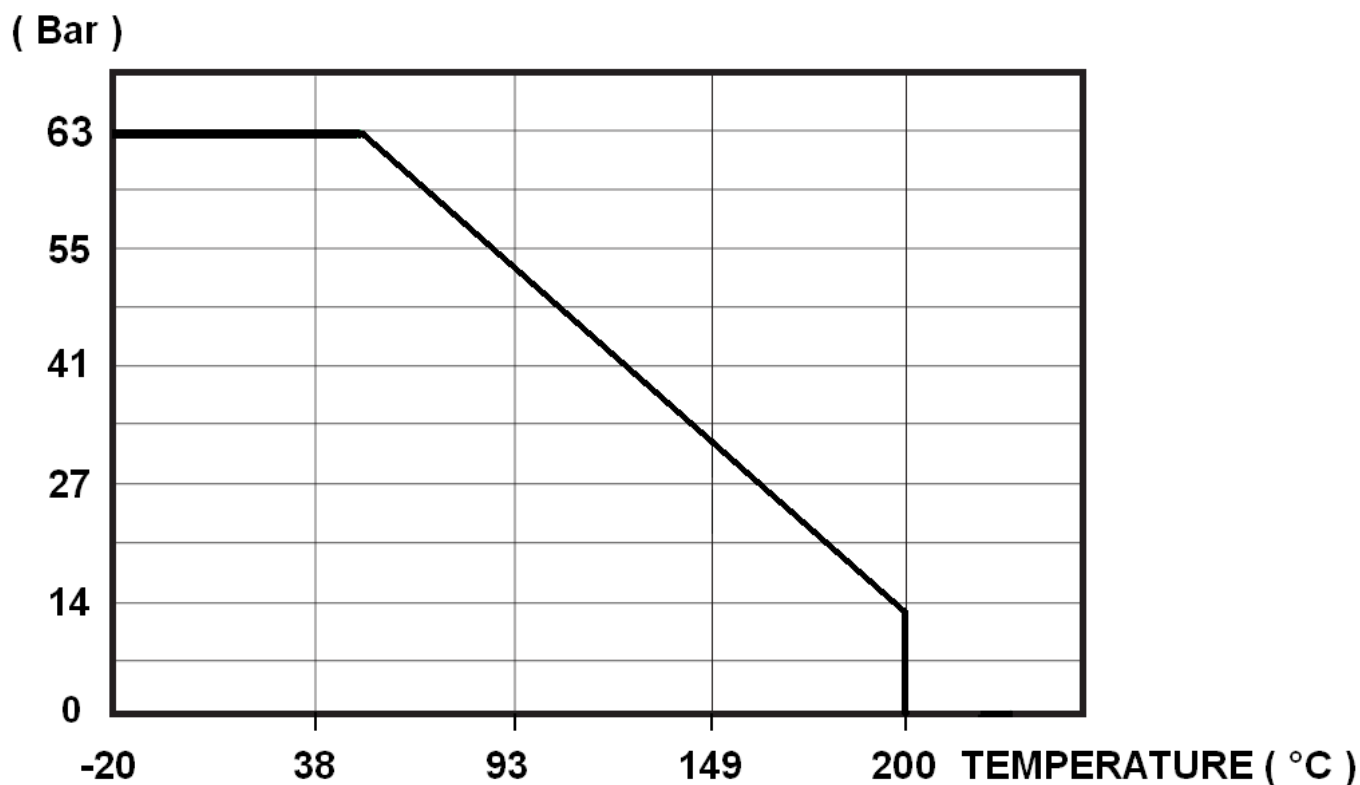
SPECIFICATIONS :

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

USE :

- 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) :

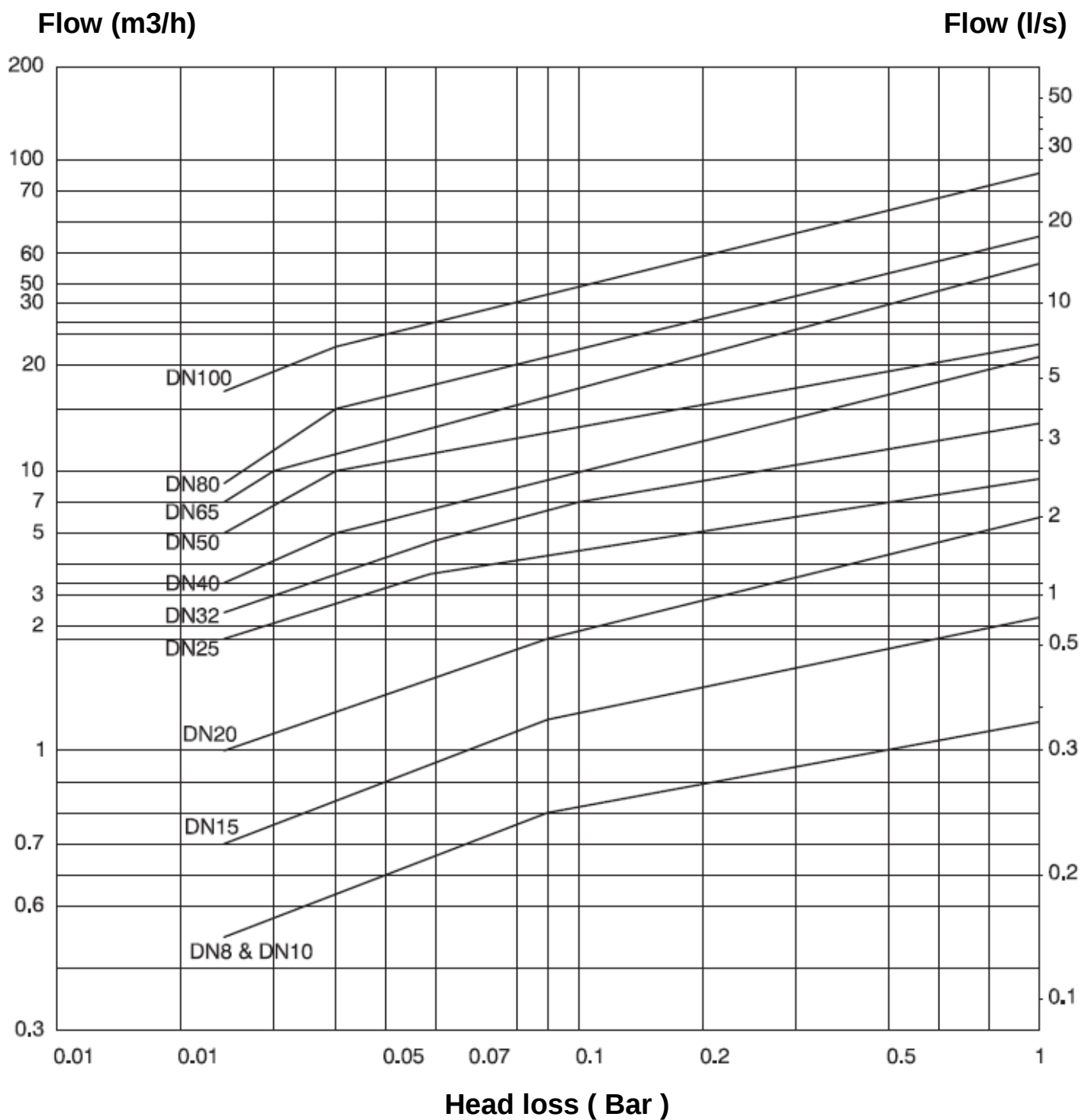


FLOW COEFFICIENT Kvs (M3 / h) :

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"	2"1/2	3"	4"
DN	8	10	15	20	25	32	40	50	65	80	100
Liquid Test (cc/min)	6								7.5	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):

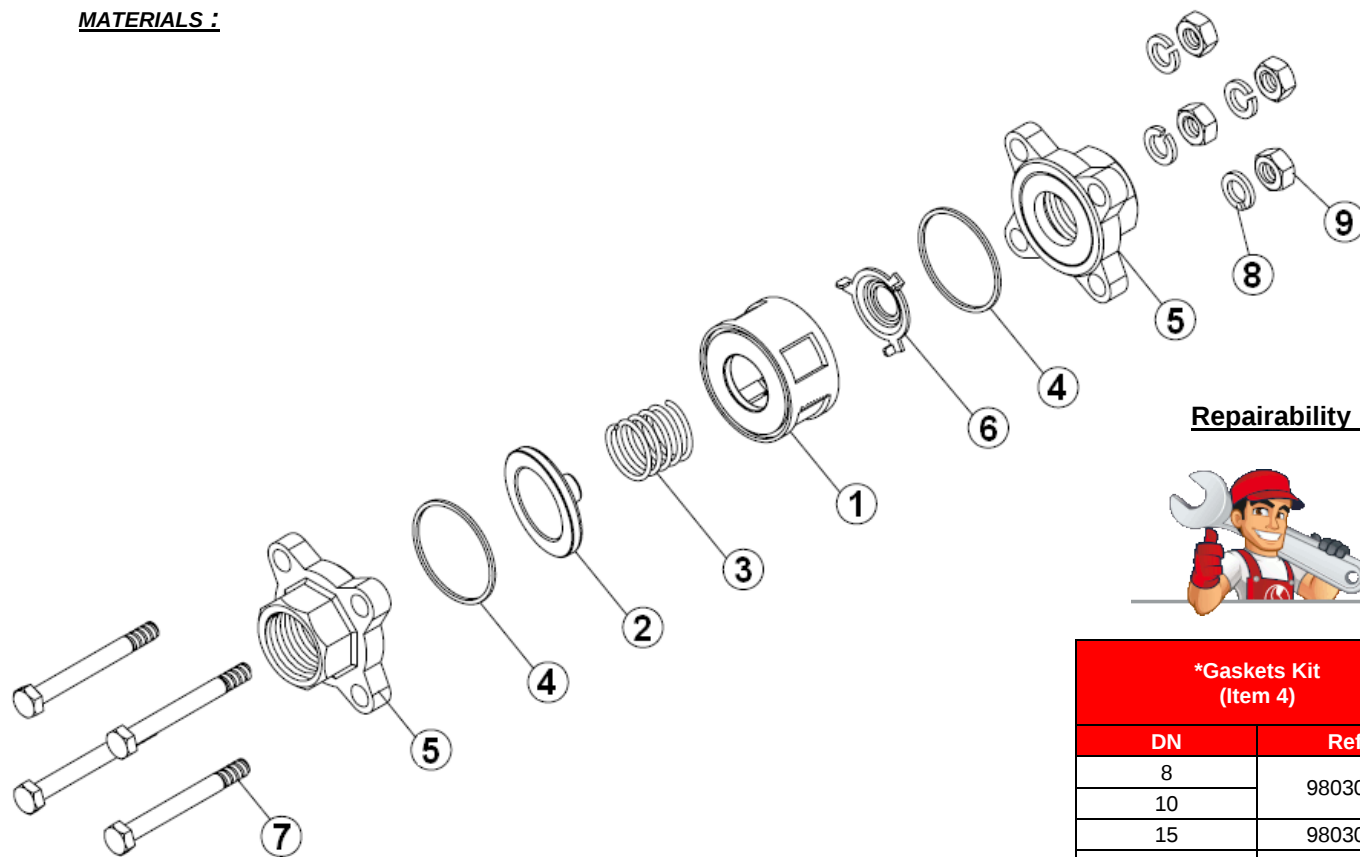
DN	8	10	15	20	25	32	40	50	65	80	100
Torque (Nm)	30	30	30	30	45	45	45	60	75	90	105

RANGE :

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

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MATERIALS :



Repairability :



*Gaskets Kit (Item 4)

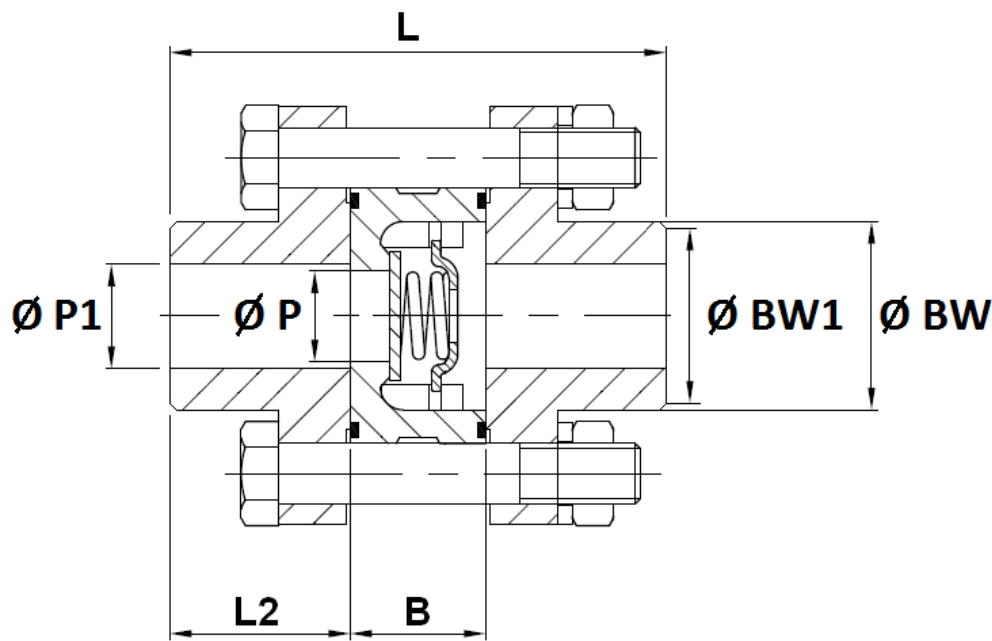
DN	Ref.
8	9803023
10	
15	9803024
20	9803025
25	9803026
32	9803027
40	9803028
50	9803029
65	9803030
80	9803031
100	9803032

*Included in gaskets kit

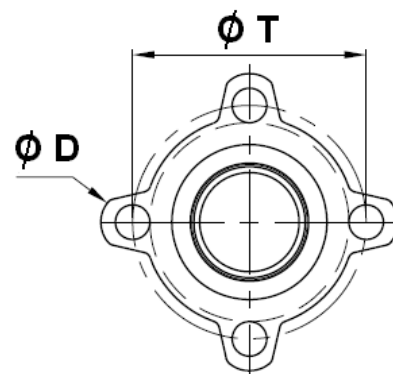
Item	Designation	Materials
1	Body	EN 1.4408
2	Disc	ASTM A240-316
3	Spring	
4*	Gasket (x2)	PTFE
5	Ends	EN 1.4408
6	Spring holder	ASTM A240-316
7	Screw	AISI 304
8	Washer	
9	Nut	

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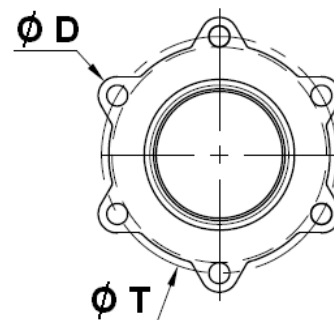
SIZE(in mm) :



DN 8-80 :



DN 100 :



DN	8	10	15	20	25	32	40	50	65	80	100
Ø P	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
Ø P1 (ANSI)	9.22	12.48	15.76	20.96	26.64	35.08	40.94	52.48	62.68	77.92	102.26
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
B	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 BW (ANSI)	13.7	17.1	21.3	26.7	33.4	42.2	48.3	60.3	73	88.9	114.3
Ø BW1	14	16.8	18	23.3	28.5	35.8	41.2	53.5	69.4	84.1	104
Ø BW1 (ANSI)	12.5	15.7	19	24.2	29.9	38.3	44.2	55.7	65.9	81.2	105.5
Ø T	36.5	36.5	42.7	51.7	58.7	72.7	83.7	98.7	129	153.5	186.5
Weight (in Kg)	0.27	0.25	0.37	0.5	0.73	1.15	1.7	2.3	4.71	6.19	10.89
Ref.	381008	381010	381015	381020	381025	381032	381040	381050	381065	381080	381100

STAINLESS STEEL 3 PIECES DISC CHECK VALVE BW**STANDARDS :**

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 :2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN8-25 : Article 4, §3 (SEP), no CE marking
 - DN32-100 : Risk Category II, CE0035 marking
- 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, **modification in progress to ANSI B36.10 Sch.40**
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking)
- French water agreement **A.C.S. N° 22 ACC LY 722 from DN8 to 50**
- Check valve in accordance with the regulation **(EC) N° 1935-2004 on request**

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.