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Size: DN 15 to DN100

Ends: Between flanges PN10/16/25/40 and Class 150

Min Temperature: -20°C

Max Temperature: +200°C

Max Pressure: 40 Bars

Specifications: Spring type

All positions Metal / metal

Materials: Stainless steel





SPECIFICATIONS:

Spring type

All positions (respect the flow direction indicated by the arrow)

Short length

Disc rib guide for a better centering

Full stainless steel corrosion resistant and for high temperature

Metal / metal tightness

USE:

Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air

Min Temperature Ts : - 20°C Max Temperature Ts : + 200°C

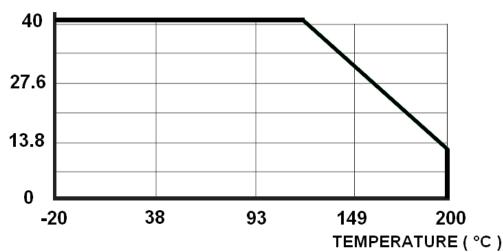
Max Pressure Ps: 40 bars (see graph under)

Steam: 14 bars max

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):

PRESSURE





FLOW COEFFICIENT Kvs (M3/h):

DN	15	20	25	32	40	50	65	80	100
Kvs (m3/h)	2.1	5.76	9.6	14.5	21.9	24.2	57.1	64.97	90.2

RANGE:

Between PN10/16/25/40 flanges and Class 150 (PN20)** Ref. 386 from DN15 to DN100

(*): For an installation between flanges PN10/16 for DN100, we only use 4 bolts

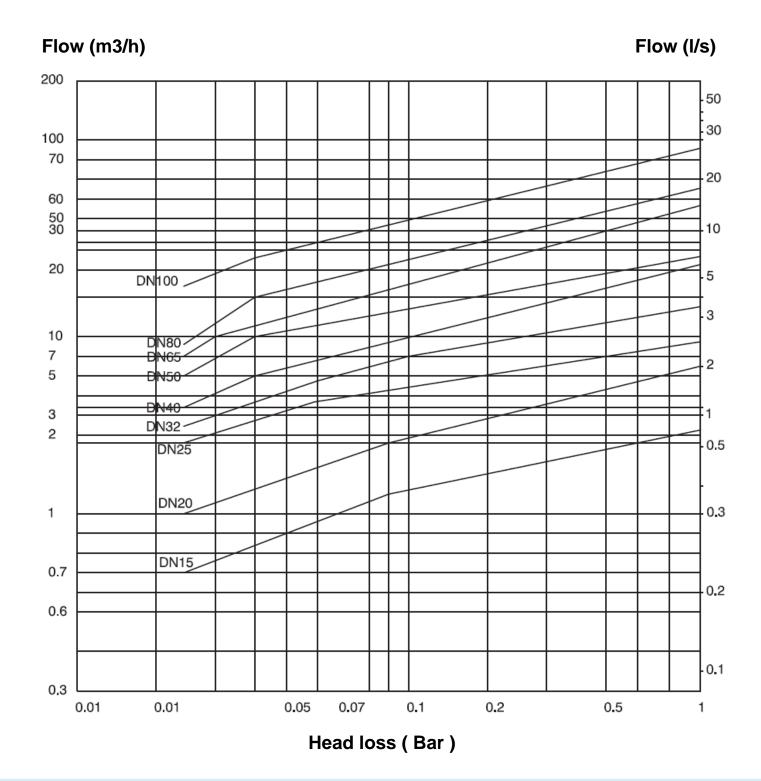
(**): For an installation between flanges Class 150 (PN20) for DN25, DN32 and DN40, use 4 bolts M12







HEAD LOSS GRAPH:







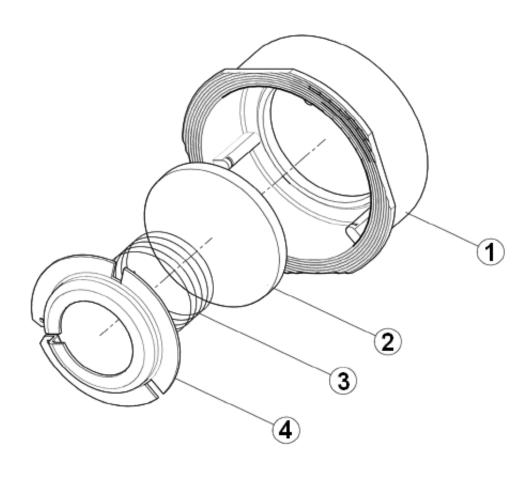
OPENING PRESSURE (in mbar):

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DN	Vertical Position Ascending fluid	Horizontal Position
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 →





MATERIALS:

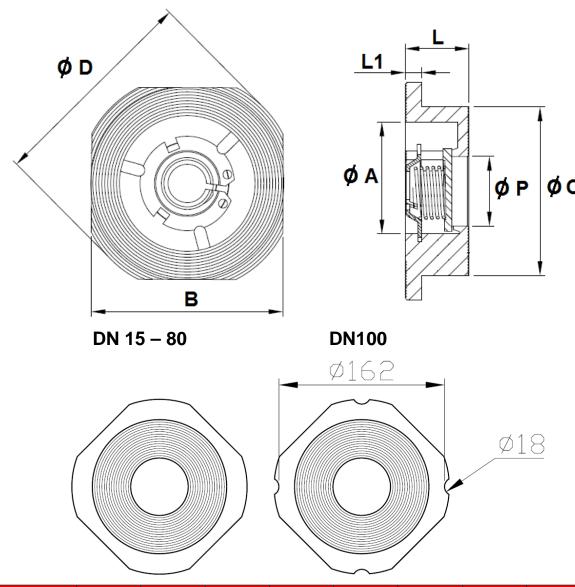


Item	Designation	Materials			
1	Body	ASTM A351 CF8M			
2	Disc	ASTM A240-316			
3	Spring	AISI 316			
4	Spring holder	ASTM A240-316			





SIZE (in mm):



Ref.	DN	15	20	25	32	40	50	65	80	100
386	Ø A	34	39	46	60	70	79	101	109	134
	В	44.6	54	65	78	88	101.6	120.4	133	164
	ØС	40.5	47	56	70	80	90	113	123	150
	Ø D	54	62	73	83	93	107	126.5	141.2	171.4
	L	16	19	22	28	31.5	40	46	49	60
	L1	3.5	3.5	4	5	5	5	5.5	5.5	6.5
	ØΡ	12.5	20	25	32	38	49	64	78	98
	Weight (Kg)	0.1	0.2	0.3	0.5	0.6	0.9	1.4	2	3





STANDARDS:

Fabrication according to ISO 9001: 2015

DIRECTIVE 2014/68/EU: CE N° 0035

Risk Category III Module H

Designing according to EN 12516-1

Pressure tests according to API 598, table 6

Length according to EN 558 series 49 (DIN 3202 K4)

ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking)

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.

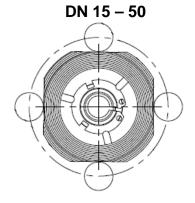


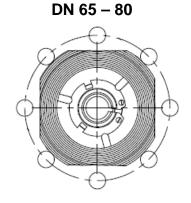


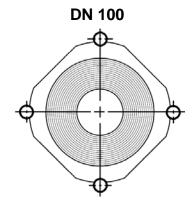


BOLTING POSTIONS:

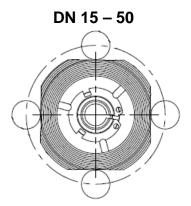
BETWEEN PN10/16 FLANGES:

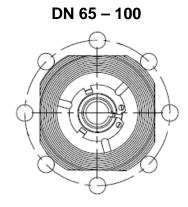






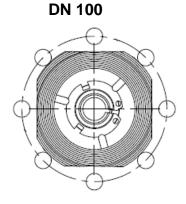
BETWEEN PN25/40 FLANGES:





BETWEEN Class 150 PN20 FLANGES:

DN 15 – 80





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 valves to be installed are of correct strenght to be able to support the capacity of their usage.

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 valves.

Ensure that both connecting pipes either side of the check valve (upstream and downstream) are aligned (if they're not,the valves may not work correctly).

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.

Make sure there is enough space so that the disc can be opened totally in the pipe.

If there is a direction changing or if there's another material, it's better to take away the check valve so that 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)



