STAINLESS STEEL WAFER SPRING CHECK VALVE PN40









 ϵ

Size: DN 15 to DN100

Ends: Between flanges ISO PN10/16/25/40

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

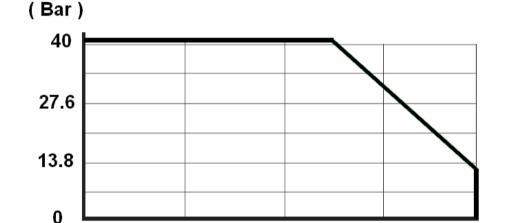
USE:

- · Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air
- Min Temperature Ts : 20°C
- Max Temperature Ts :+ 200°C
- Max Pressure PN : 40 bars (see graph under)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):

38

PRESSURE



93

TEMPERATURE (°C)

200

FLOW COEFFICIENT Kvs (M3/h):

-20

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

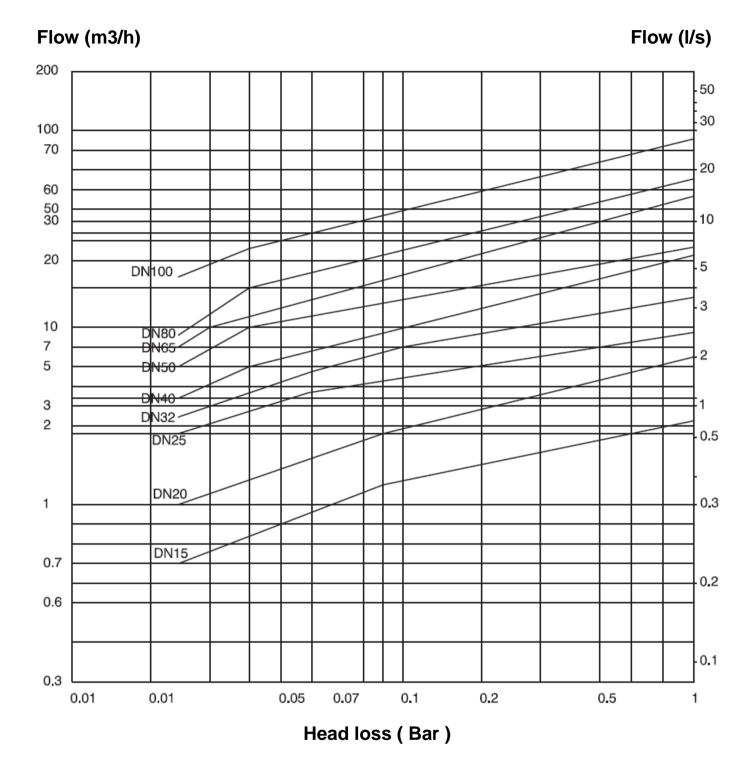
149

RANGE:

Between ISO PN10/16/25/40 flanges Ref. 386 from DN15 to DN100

 $(\sp{*})$: For an installation between flanges ISO PN10/16 for DN100, we only use 4 bolts

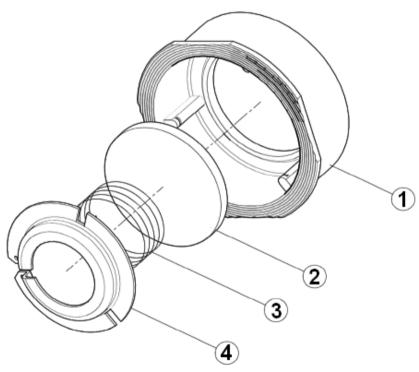
On request, between flanges ISO PN20 ANSI 150 Ref.3862



OPENING PRESSURE (in mbar):

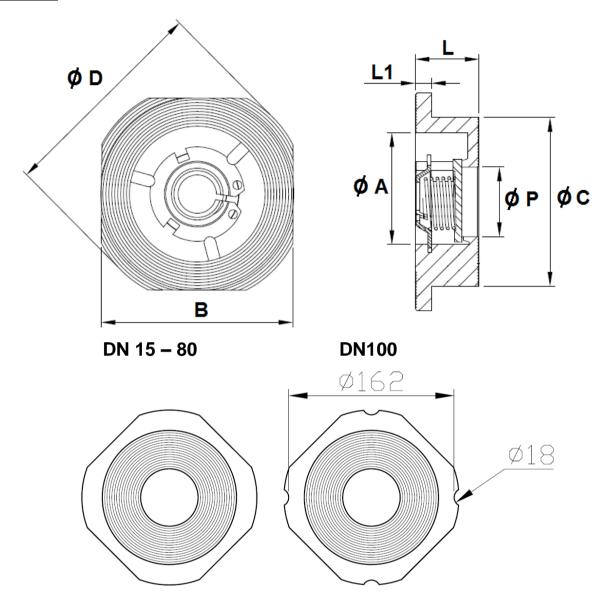
1					
DN	Vertical Position	Vertical Position	Horizontal Position		
	Ascending fluid	Descending fluid			
DN 15	25	21	23 -		
DN 20	25	21	23 →		
DN 25	25	21	23 →		
DN32	27	21 🗼	24 →		
DN 40	29 🕈	21 🗼	25 →		
DN 50	29 🕇	21	25 →		
DN65	31	21	25 →		
DN80	32	21	26 →		
DN100	33 🕈	21	27 →		

MATERIALS:



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

SIZE (in mm):



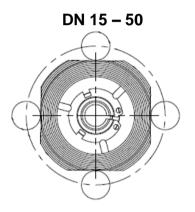
STANDARDS:

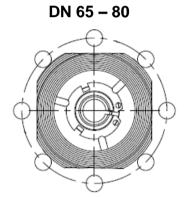
Ref.	DN	15	20	25	32	40	50	65	80	100
386	Ø A	34	39	46	60	70	79	101	109	134
	В	44.6	54	65	78	88	101.6	120.4	133	164
	øс	40.5	47	56	70	80	90	113	123	150
	Ø D	54	62	73	83	93	107	126.5	141.2	171.4
	L	16	19	22	28	31.5	40	46	49	60
	L1	3.5	3.5	4	5	5	5	5.5	5.5	6.5
	Ø P	12.5	20	25	32	38	49	64	78	98
	Weight (Kg)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

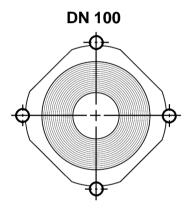
- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0035 Risk Category II
- Designing according to EN 12516-1
- Tests according to API 598, table 6
- Length according to EN 558 series 49 (DIN 3202 K4)
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking)

BOLTING POSTION:

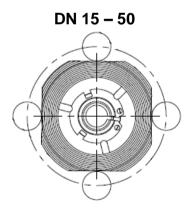
• BETWEEN ISO PN10/16 FLANGES :

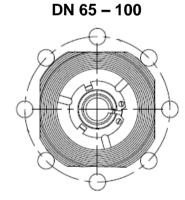






• BETWEEN ISO PN25/40 FLANGES :





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 strength 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 norm NF CR 13932 to install the check valve.