

# L10

L10 177 616.379 DN40-DN300  
Check valve dual plate wafer



  
TÜVRheinland®  
PED/97/23/CE

CE

Certificate 3.1

**Size :** DN 50 to 600  
**Ends :** Between flanges PN10/16  
**Min Temperature :** - 10°C  
**Max Temperature :** + 90°C  
**Max Pressure :** 16 Bars ( up to DN300 )  
**Specifications :** Vulcanized gasket  
Horizontal or vertical position  
Between flanges  
Bronze-aluminium disc

**Materials :** Ductile iron body

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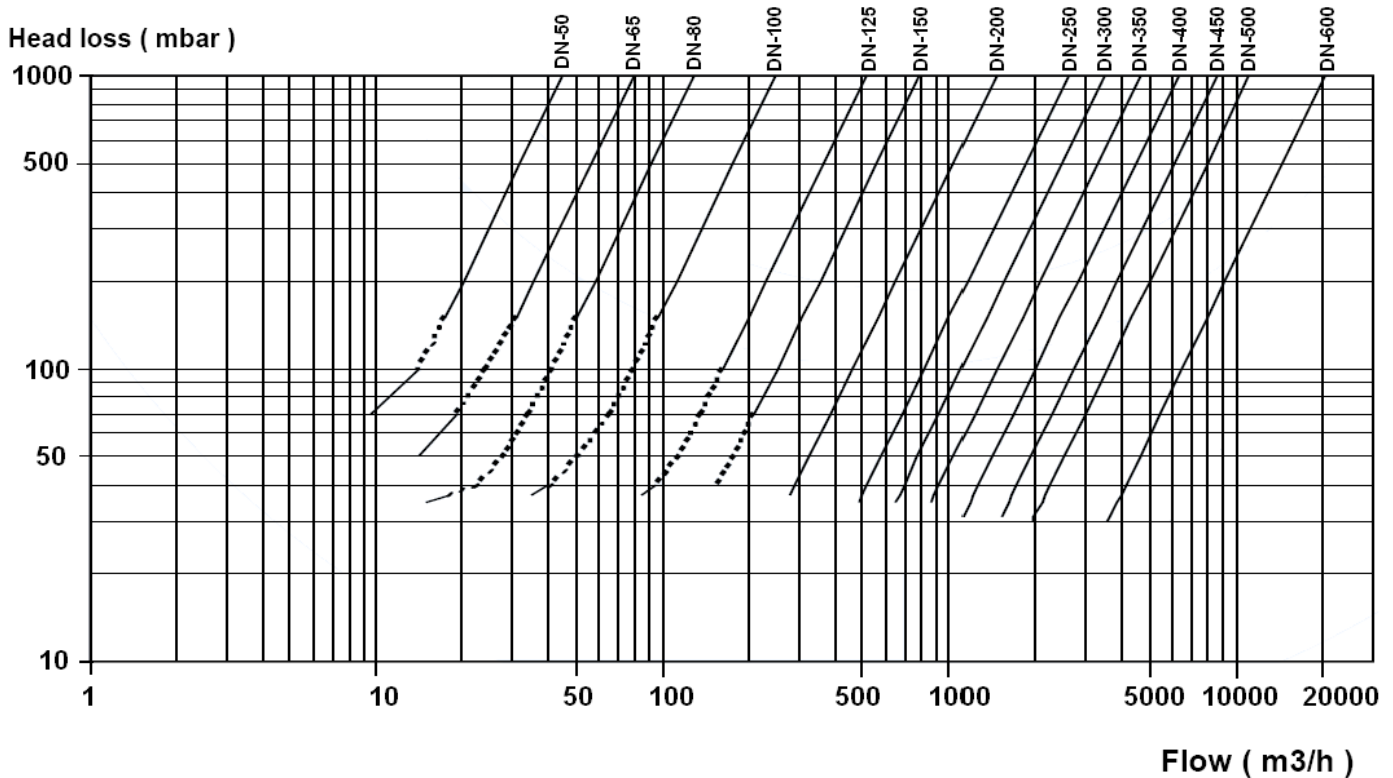
### SPECIFICATIONS :

- Vulcanized gasket
- Hoisting eye from DN200 to 600
- Short length
- Anti-corrosion stainless steel spring
- PTFE bushing
- Weak head loss
- Vertical position with ascendant fluid or horizontal position ( respect the flow direction indicated by the arrow )
- Between flanges PN10/16
- Anti-corrosion epoxy painting RAL003 50-100 microns thickness
- Bronze-Aluminium disc

### USE :

- Heating, water distribution, sea water
- Min and max Temperature Ts : - 10°C to + 90°C
- Max Pressure Ps : 16 bars up to DN300 included and 10 bars over
- Do not use with pulsatory speed

### HEAD LOSS GRAPH :



### OPENING PRESSURE ( in mbar ) :

DN	50	65	80	100	125	150	200	250	300
Horizontal position	230	94	190	280	160	79	41	38	31
Vertical position ascend. fluid	260	114	230	320	180	95	57	58	56

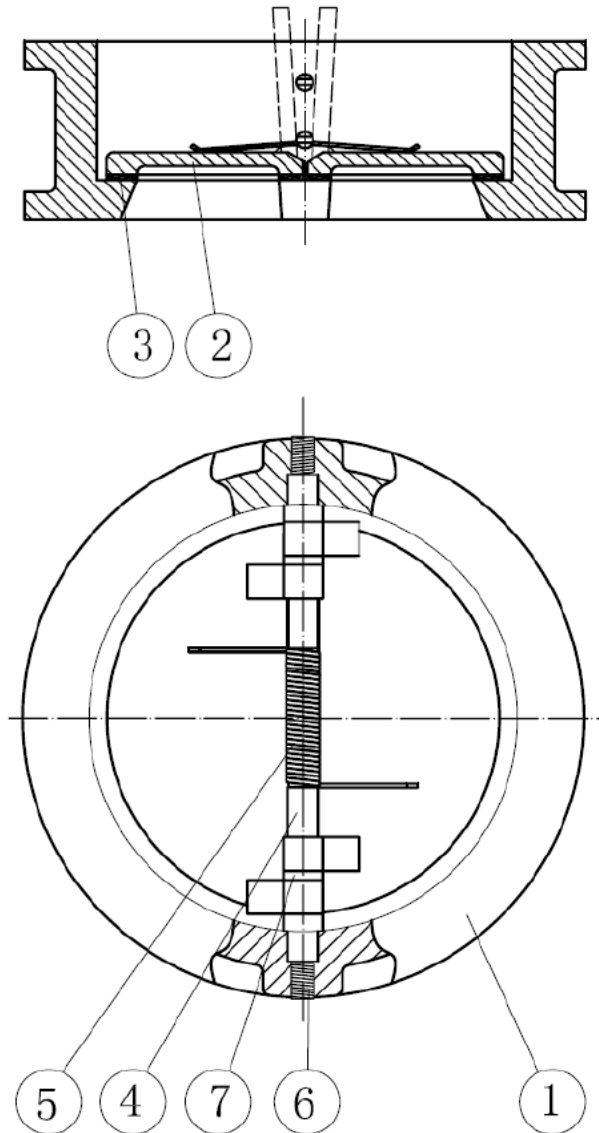
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### RANGE :

- Ductile iron body with bronze aluminium disc between flanges PN10/16 Ref. 379 from DN50 to DN 600

### MATERIALS DN50-80 :

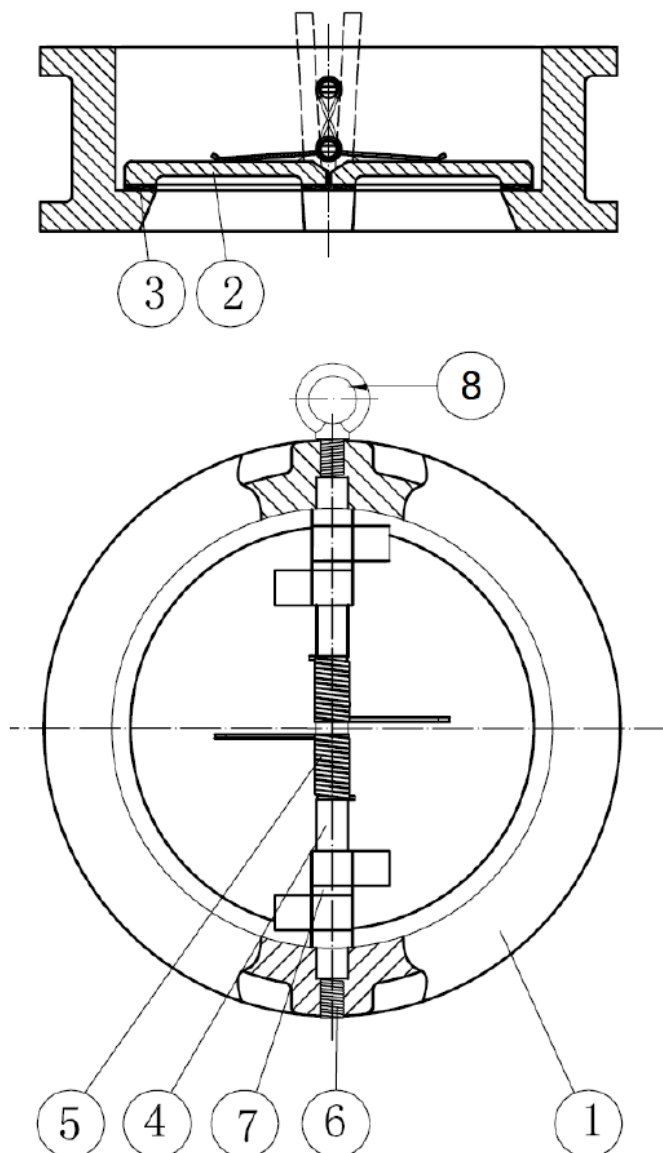


Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Bronze-Alu C954
3	Seat	NBR
4	Shaft	SS 316
5	Sping	SS 316
6	Screw	Galvanised carbon steel
7	Spacer	PTFE

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MATERIALS DN100 - 600 :

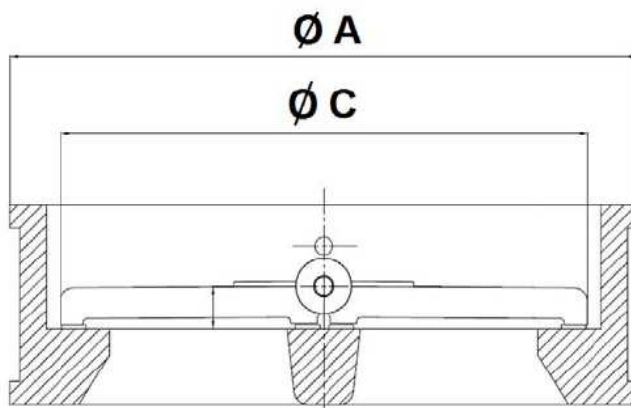
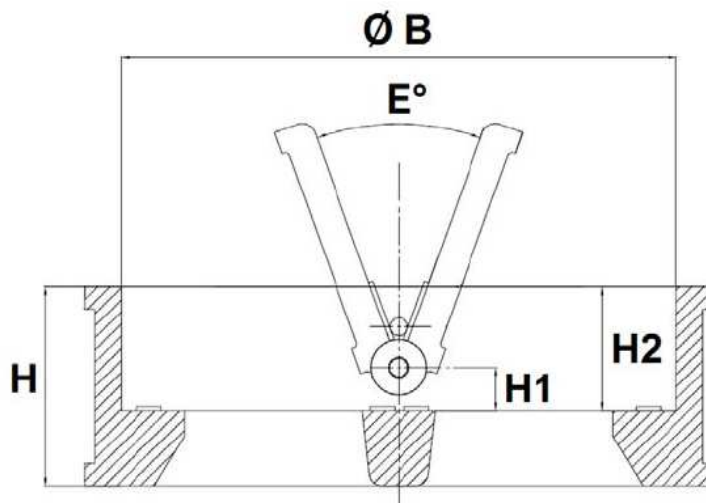


Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Bronze-Alu C954
3	Seat	NBR
4	Stem	SS 316
5	Spring	SS 316
6	Screw	Galvanised carbon steel
7	Spacer	PTFE
8	Hoisting eye ( from DN200 to 600 )	SS 304

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SIZE ( in mm ) :



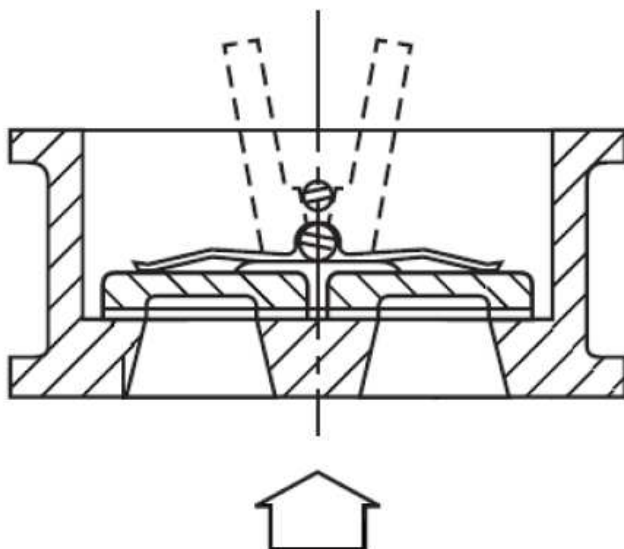
Ref.	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
379	H	54	54	57	64	70	76	95	108	144	184	191	203	213	222
	H1	14.4	16.9	19.9	21	22.3	22.5	28	34	37	35	37.5	42.2	39.5	48.5
	H2	43	43	45	47	51	54	69	71	100	120	123	122.6	132	138.5
	E°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°	20°	20°	25°	25°
	Ø C	60.5	75.8	80.5	104.5	130.3	155.9	201.2	257.2	303.3	345.9	388.6	431.2	486.8	607.6
	Ø B	70.5	83.5	91.5	115.5	142.5	169.5	220.5	275.5	325.5	356	406	467	514	616
	Ø A	109	129	144	164	194	220	275	330	380	440	491	541	596	697
	Weight (in Kg)	1.65	2.4	3.1	4.85	6.4	9.1	16.9	27.5	35.9	81	107	129	160	228

### STANDARDS :

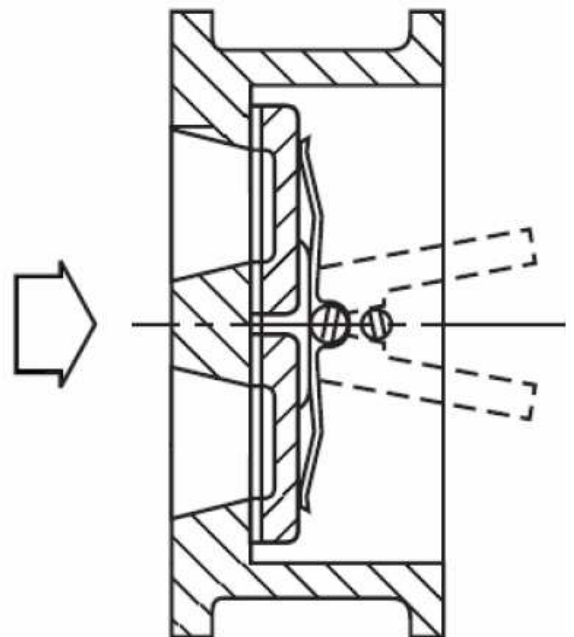
- Fabrication according to ISO 9001 : 2015
- DIRECTIVE 97/23/CE : CE N° 0035  
Risk Category III Module H
- Certificate 3.1 on request
- Designing according to API 594
- Pressure Tests according to API 598, table 6
- Length according to EN 558 Series 50
- Between flanges according to EN 1092-1 PN10/16

### INSTALLATION POSITIONS :

Vertical position ( ascendant fluid )



Horizontal position



### 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 tightness 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.**
- 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)**
- Respect the flow direction indicated by the arrow