

L10

L10 117 616.366 DN50 - DN300
Check valve flange for drinking water



Size : DN 50 to 600
Ends : Flanges R.F. PN10/16
Min Temperature : - 10°C
Max Temperature : + 120°C
Max Pressure : 16 Bars up to DN300 (10 bars over)
Specifications : Ductile iron disc
All positions
Low head loss

Materials : Cast iron body

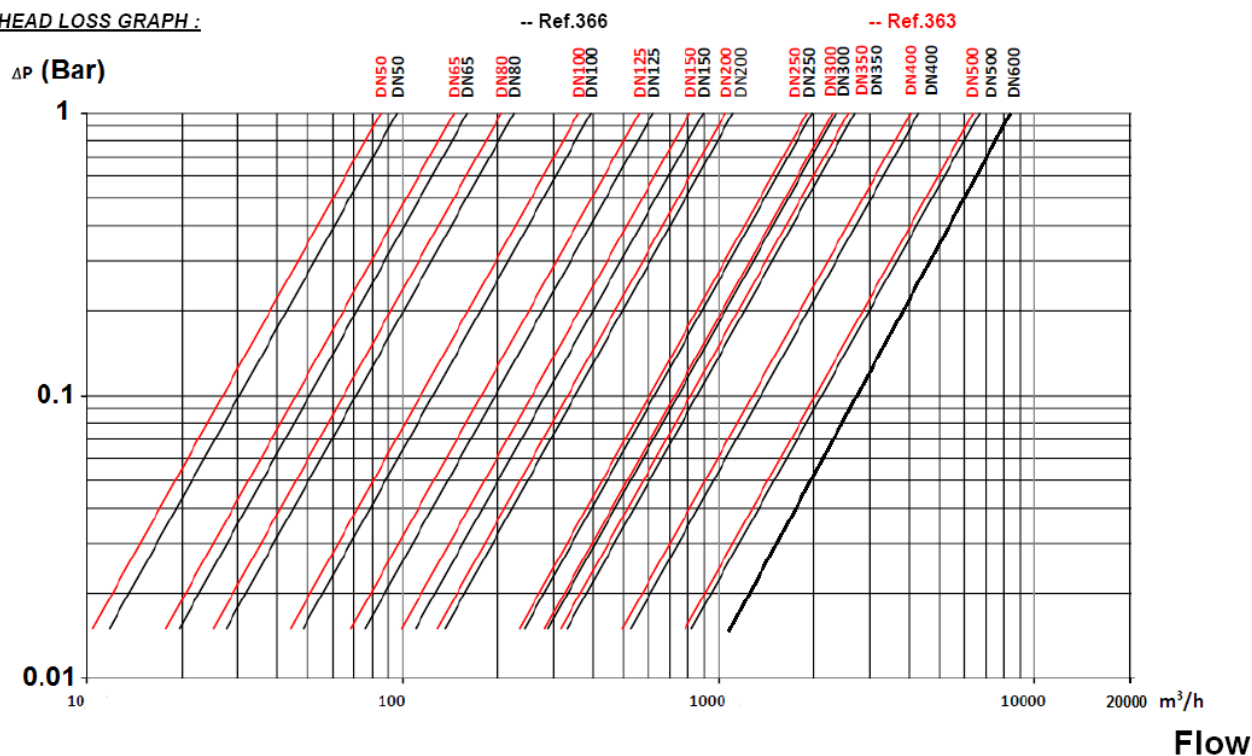
SPECIFICATIONS :

- All positions thanks to the stainless steel spring
- Respect the flow direction indicated by an arrow on the body
- Flanges R.F. PN10/16 up to DN150, PN16 from DN200 to DN300, PN10 over
- With steel strainer basket and 6 mm mesh (Ref. 363)
- Weak head loss thanks to the cylindrical internal designing
- Anti-corrosion epoxy internal and external painting blue color RAL 5017, 100 μ thickness
- Bronze bushing to avoid blocking of the disc
- Drilled boss on request for bypass or to check the thickness
- Disc designed for a better hydrodynamism
- Silent solution
- Minimum back pressure for tightness : 0.2 bars

USE :

- Water distribution
- Min Temperature Ts : - 10°C
- Max Temperature Ts : + 120°C
- Max Pressure Ps : 16 bars up to DN300, 10 bars over

HEAD LOSS GRAPH :



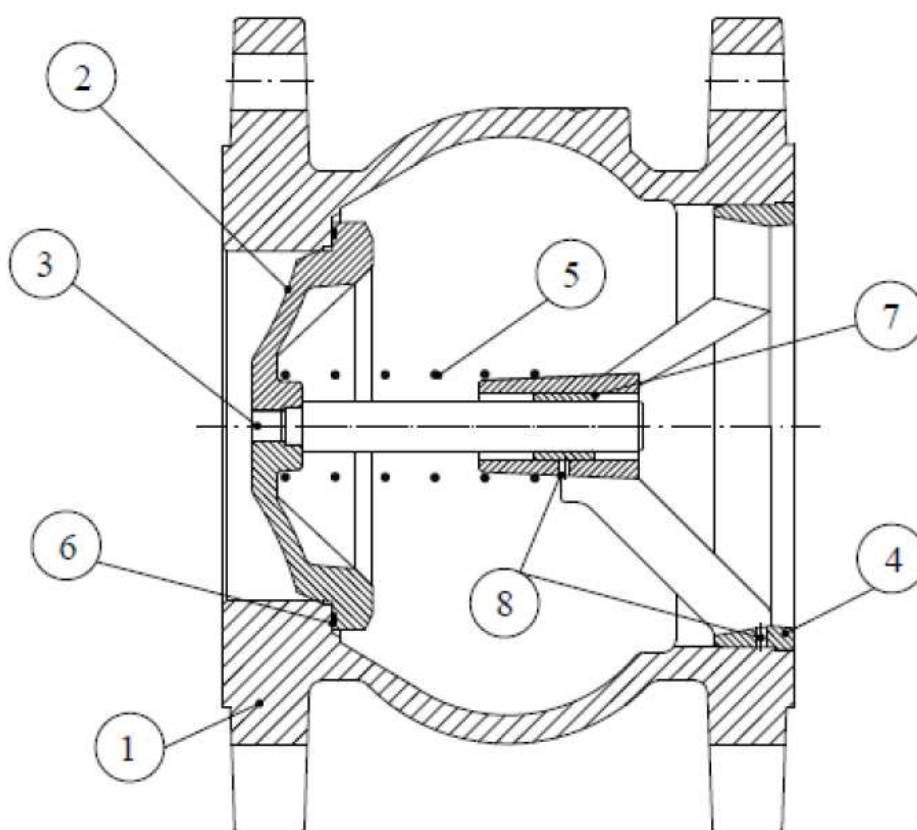
FLOW COEFFICIENT Kvs (in m³/h) :

Ref.	DN	50	65	80	100	125	150	200	250	300	350	400	500	600
366	Kvs (m³/h)	96	160	225	394	620	895	1110	1980	2350	2700	4300	6300	8400
363	Kvs (m³/h)	86	143	201	351	553	801	980	1750	2115	-	-	-	-

RANGE :

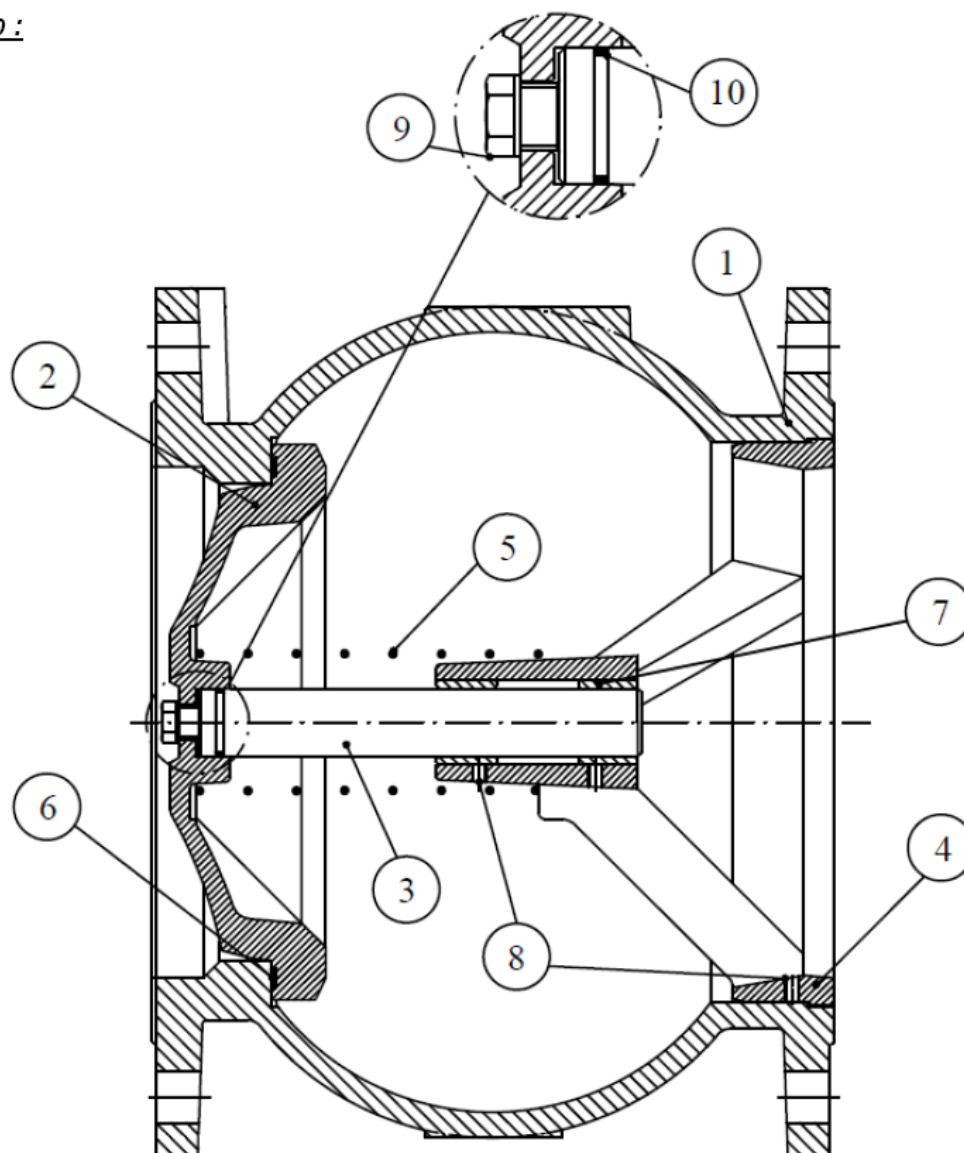
- Flanged PN10/16 from DN50 to DN 150, PN16 from DN 200 to DN 300 and PN10 for DN350 to 600 **Ref. 366**
- Flanged PN10/16 from DN50 to DN 150 and PN16 from DN 200 to DN 300 with steel strainer basket **Ref. 363**

MATERIALS DN 50 - 100 :



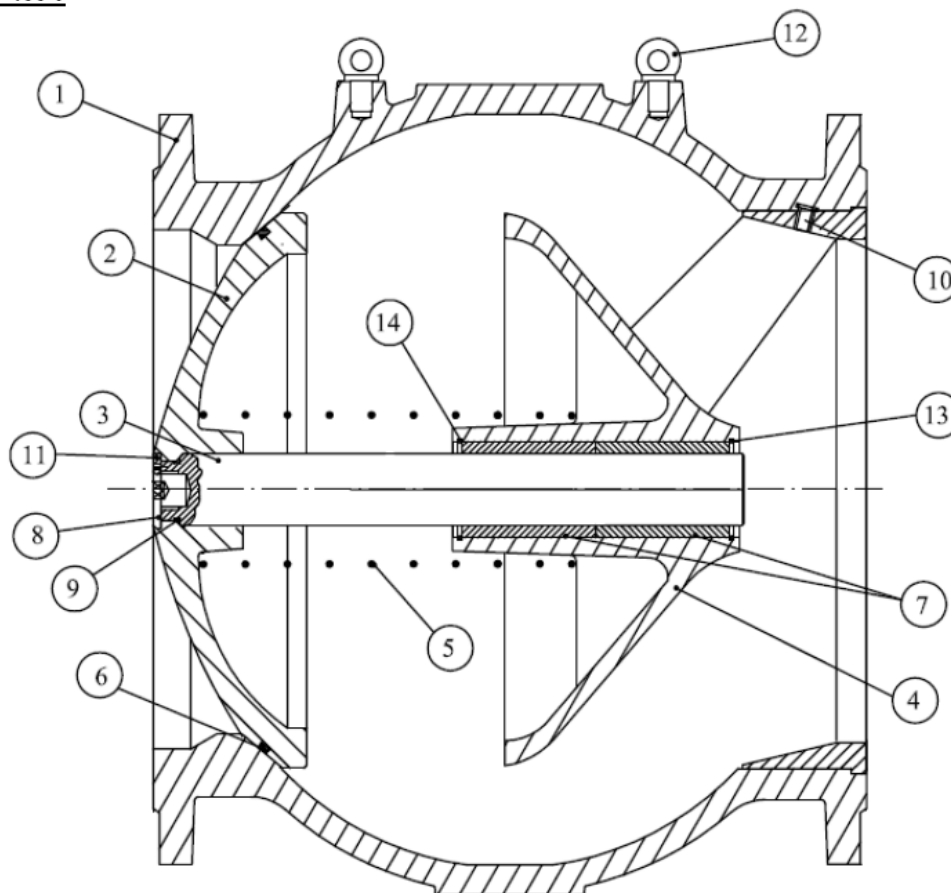
Item	Designation	Materials
1	Body	Cast iron EN-GJL-250
2	Disc	Ductile iron EN-GJS-400-15
3	Stem	AISI 304L
4	Guide	Ductile iron EN-GJS-400-15
5	Spring	AISI 302
6	Gasket	EPDM
7	Bushing	Bronze
8	Pin	AISI 304

MATERIALS DN 125 - 300 :



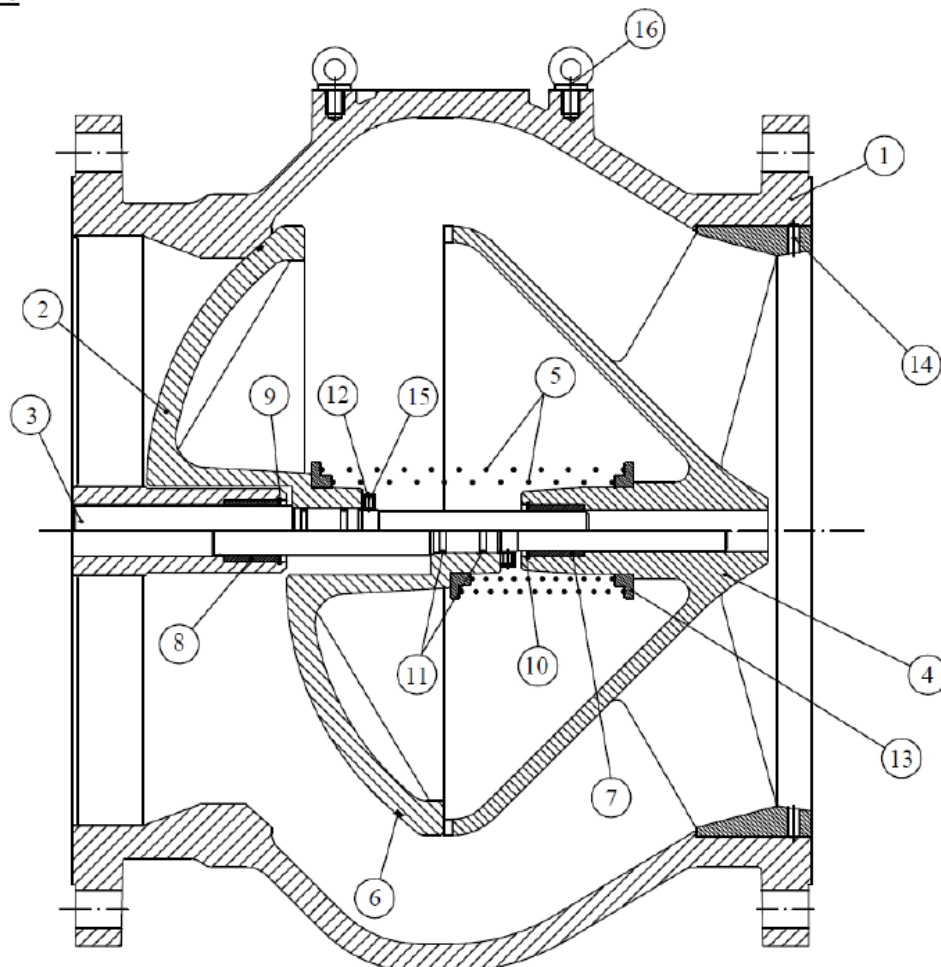
Item	Designation	Materials DN125-200	Materials DN250-300
1	Body	Cast iron EN-GJL-250	Ductile iron EN-GJS-400-15
2	Disc	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
3	Stem	AISI 304L	AISI 304
4	Guide	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
5	Spring	AISI 302	AISI 302
6	Gasket	EPDM	EPDM
7	Bushing	Bronze	Bronze
8	Pin	AISI 304	AISI 304
9	Nut	AISI 304	AISI 304
10	O ring	EPDM	EPDM

MATERIALS DN 350 -400 :



Item	Designation	Materials DN350	Materials DN400
1	Body	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
2	Disc	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
3	Stem	AIS 304L	AISI 316
4	Guide	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
5	Spring	AISI 302	AISI 302
6	Gasket	EPDM	EPDM
7	Bushing	Bronze	Bronze
8	Cap	AISI 304L	Steel
9	O ring	EPDM	EPDM
10	Screw	A4	AISI 304
11	Screw	A4	AISI 304
12	Lifting plug	Steel	Steel
13-14	Circlip	-	AISI 302

MATERIALS DN 450 - 600 :



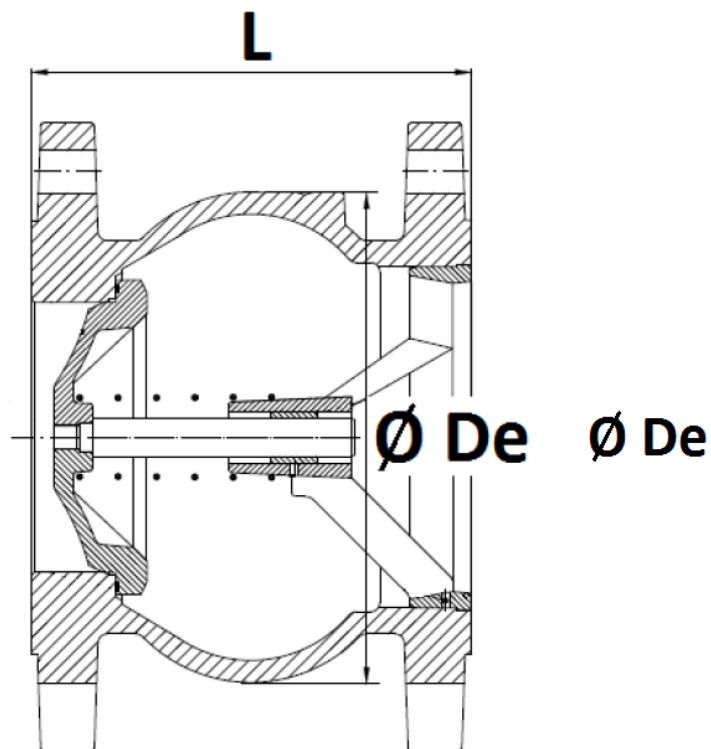
Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Ductile iron EN-GJS-400-15
3	Stem	AISI 304L
4	Guide	Ductile iron EN-GJS-400-15
5	Spring	AISI 302
6	Gasket	EPDM
7-8	Bushing	Bronze
9-10	Circlip	AISI 302
11	O ring	EPDM
12	Nut	AISI 304L
13	Washer	AISI 304L
14-15	Screw	A4
16	Lifting plug	Steel

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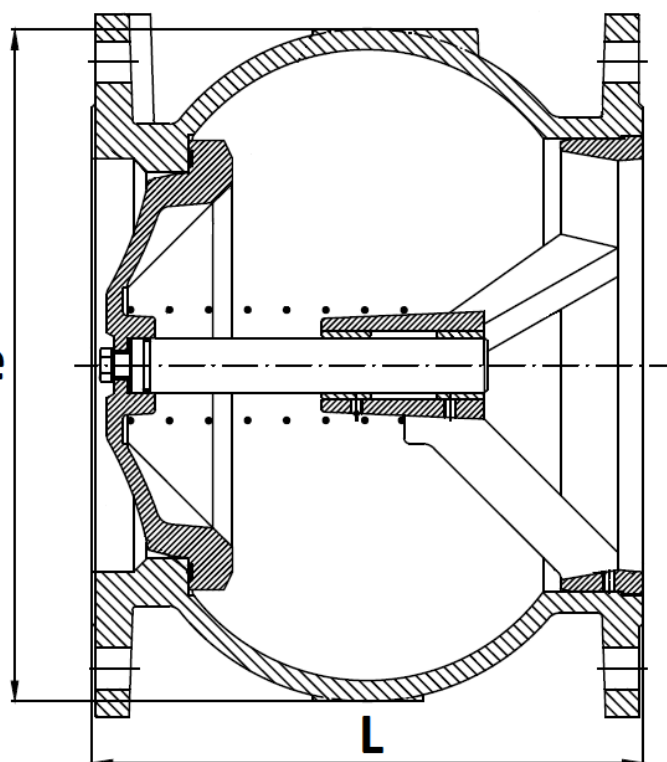
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SIZE REF.366 DN 50 - 300 (in mm) :

DN50 – 100



DN125 - 300



Ref.	DN	50	65	80	100	125	150	200	250	300
366	L	100	120	140	165	195	230	290	355	400
	De	104	127	157	180	215	250	335	410	486
	Weight (Kg)	5.42	8.22	10.13	13.53	19.5	27.07	46.8	77.2	128

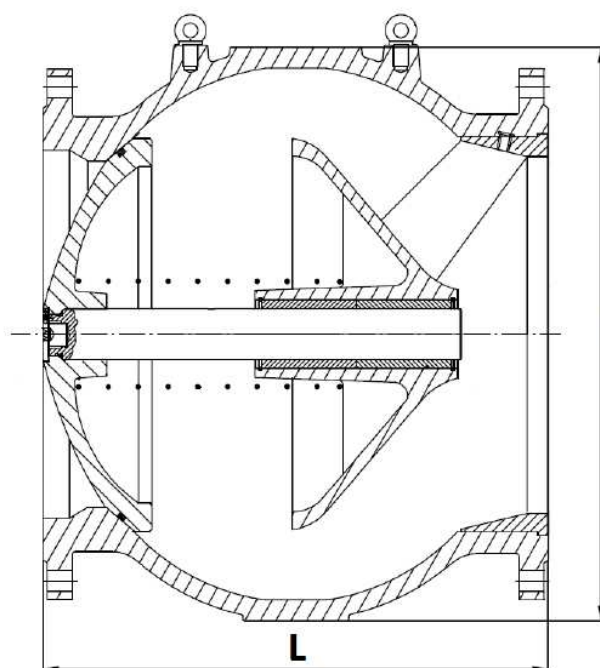
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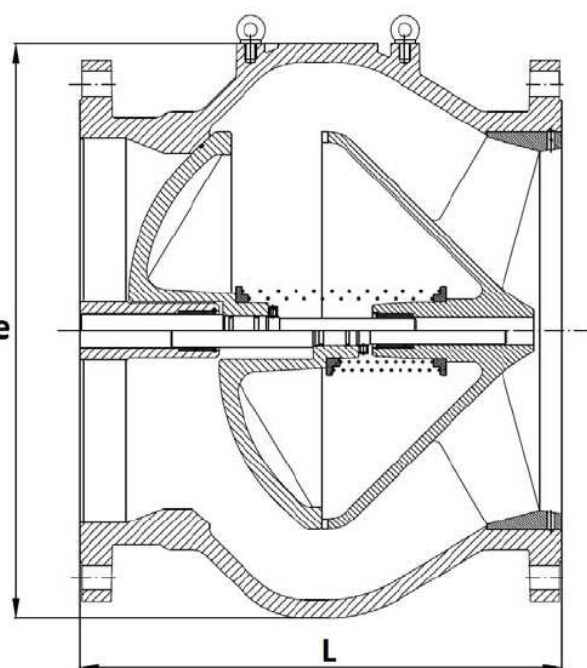
SIZE REF. 366 DN 350 – 600 (in mm) :

DN350 – 400

DN450 - 600



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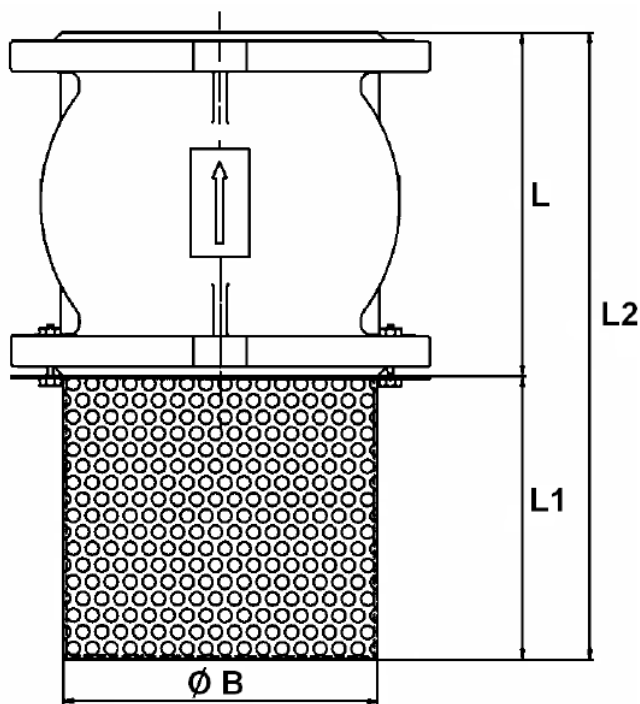


Ref.	DN	350	400	500	600
366	L	480	550	670	750
	Ø De	550	620	750	885
	Weight (in Kg)	185	260	480	630

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SIZE REF.363 (in mm) :

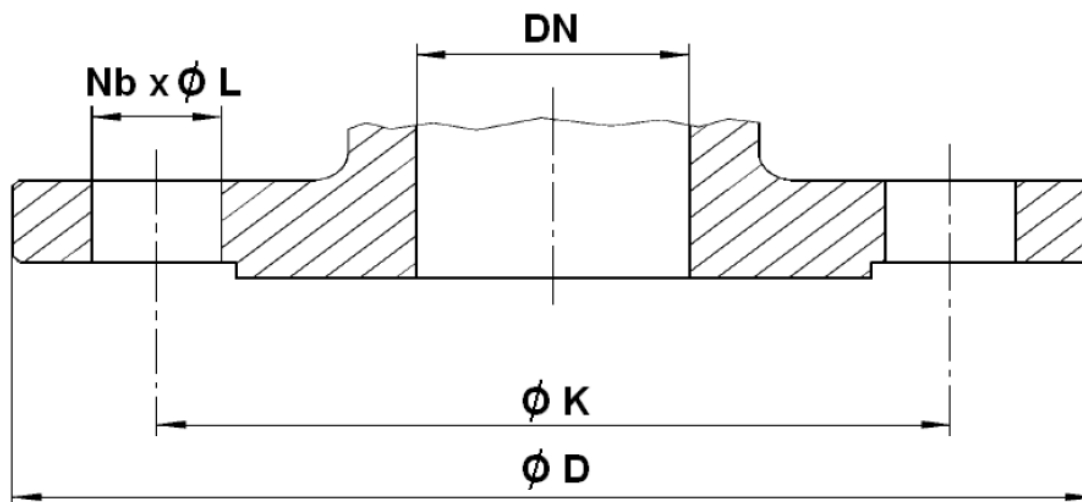


REF.	DN	50	65	80	100	125	150	200	250	300
363	L	100	120	140	165	195	230	290	355	400
	L1	77	110	125	155	170	220	300	390	410
	L2	177	230	265	320	365	450	590	745	810
	Ø B	93	113	128	148	178	200	255	310	360
	Mesh	6	6	6	6	6	6	6	6	6
	Weight (Kg)	6.01	8.98	10.95	14.73	21	28.88	49.58	81.58	133.38

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FLANGES SIZE REF.366 (in mm) :



Ref.	DN	50	65	80	100	125	150	200	250	300	350	400	500	600
366	Ø D	165	185	200	220	250	285	340	405	460	505	565	670	780
	Ø K	125	145	160	180	210	240	295	355	410	460	515	620	725
	Nb x Ø L	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	12 x 23	12 x 28	12 x 28	16 x 23	16 x 27	20 x 26	20 x 30

OPENING PRESSURE (mbar) :

DN	Vertical Position ascending fluid	Horizontal Position
DN 50	55 ↑	40 →
DN 65	52 ↑	35 →
DN 80	52 ↑	34 →
DN 100	53 ↑	35 →
DN 125	65 ↑	46 →
DN 150	66 ↑	48 →
DN 200	76 ↑	55 →
DN 250	91 ↑	62 →
DN 300	90 ↑	58 →
DN 350	91 ↑	59 →
DN 400	106 ↑	70 →
DN 500	114 ↑	72 →
DN 600	155 ↑	92 →

STANDARDS :

- Fabrication according to ISO 9001: 2008
- DIRECTIVE 97/23/CE : Products excluded from directive (Article 1, § 3.2)
- French water agreement **A.C.S. N° 15 ACC LY 514**
- Pressure Tests according to ISO 5208, range A
- Flanges according to EN 1092-2 PN10-PN16

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 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.
- 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 FD CEN/TR 13932 to install the check valve.