

ALL POSITIONS CAST IRON CHECK VALVE PN10-16



ISO 9001 : 2015
BUREAU VERITAS
Certification



ISO 14001:2015
BUREAU VERITAS
Certification



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 EN GJL-250

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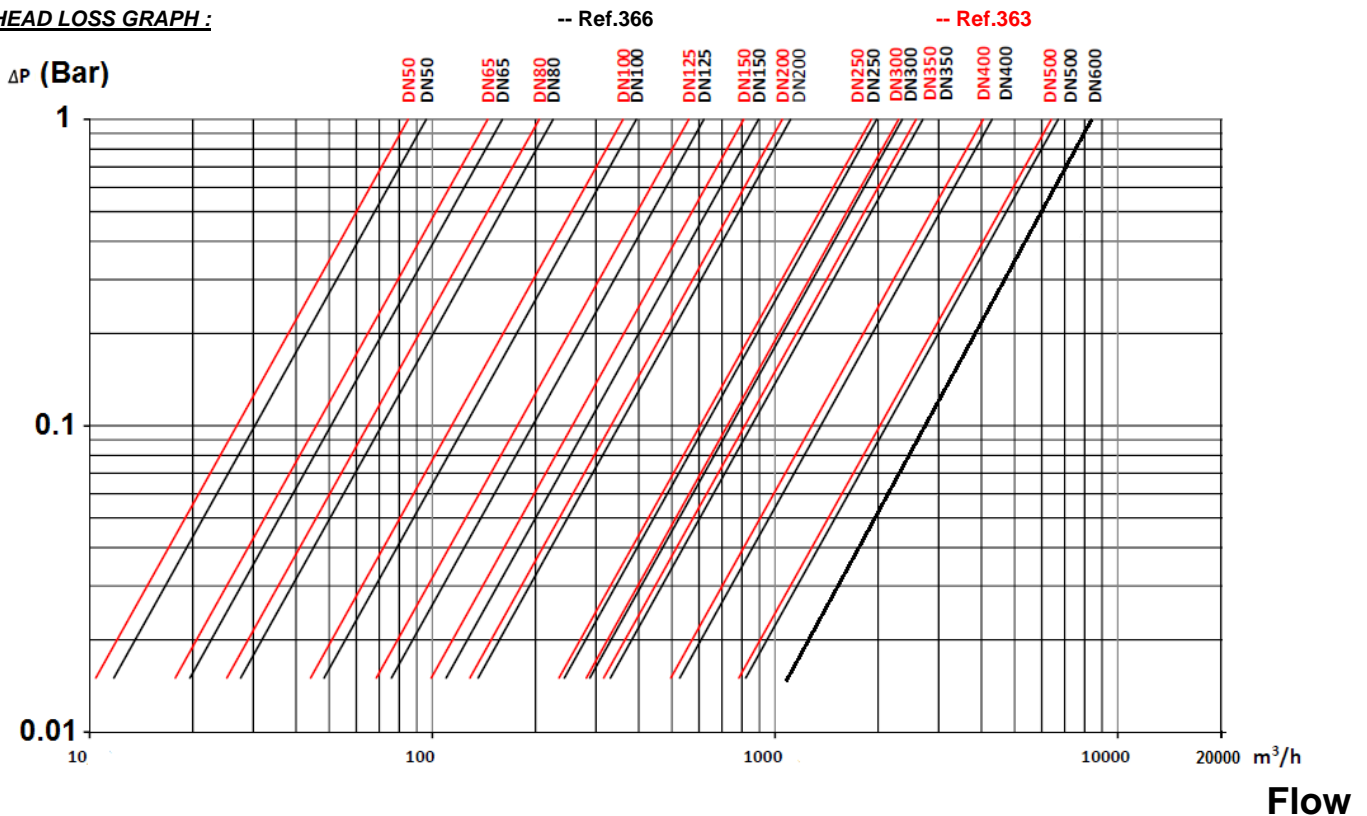
SPECIFICATIONS :

- 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) :

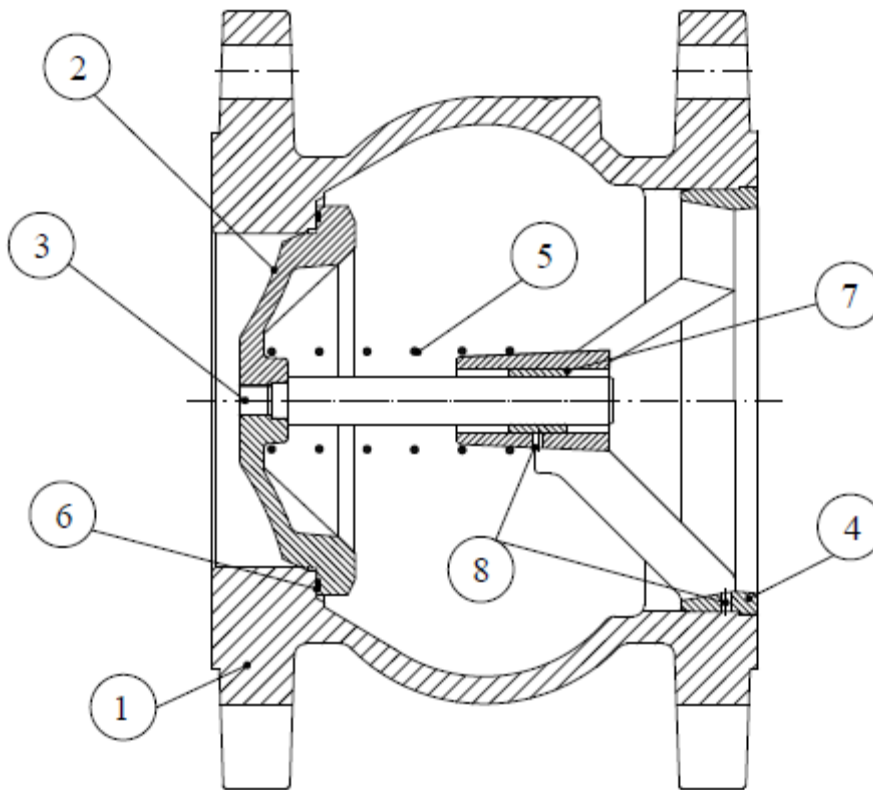
Ref.	DN	50	65	80	100	125	150	200	250	300	350	400	500	600
366	Kvs (m3/h)	96	160	225	394	620	895	1110	1980	2350	2700	4300	6300	8400
363	Kvs (m3/h)	86	143	201	351	553	801	980	1750	2115	-	-	-	-

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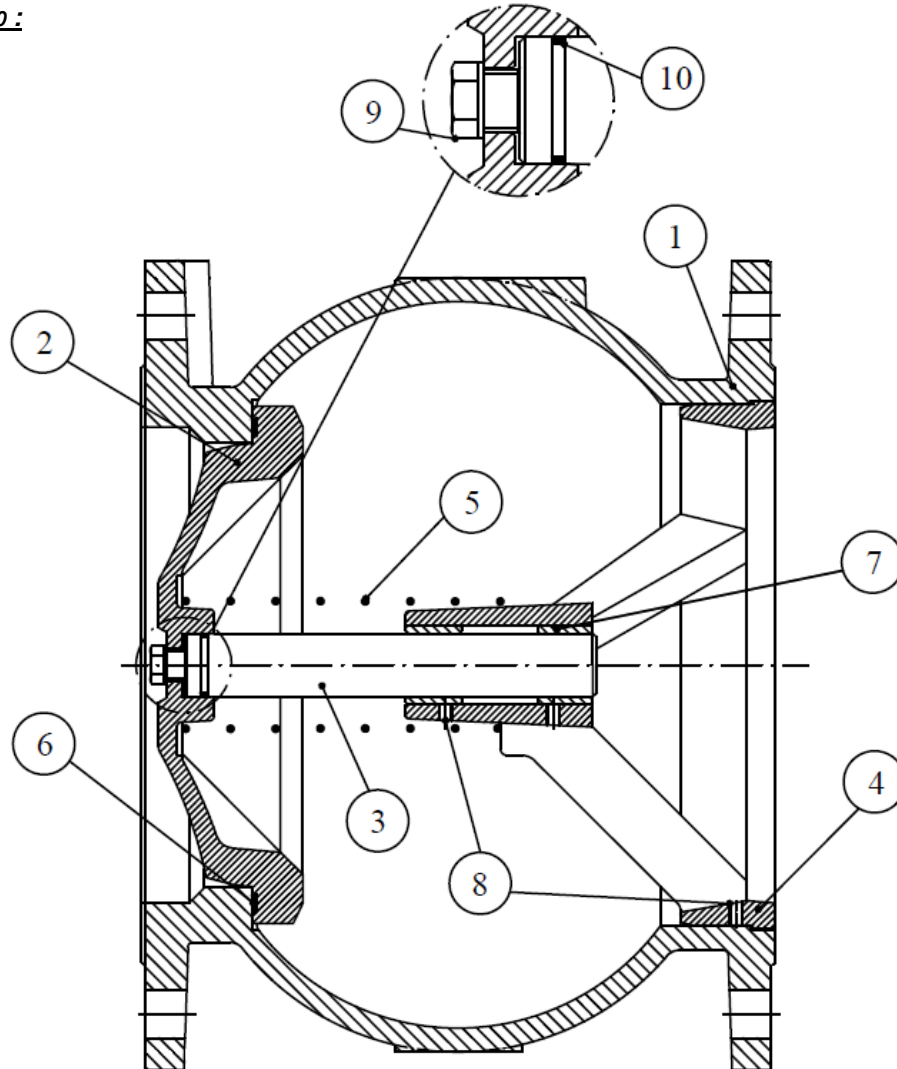
RANGE :

- 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**

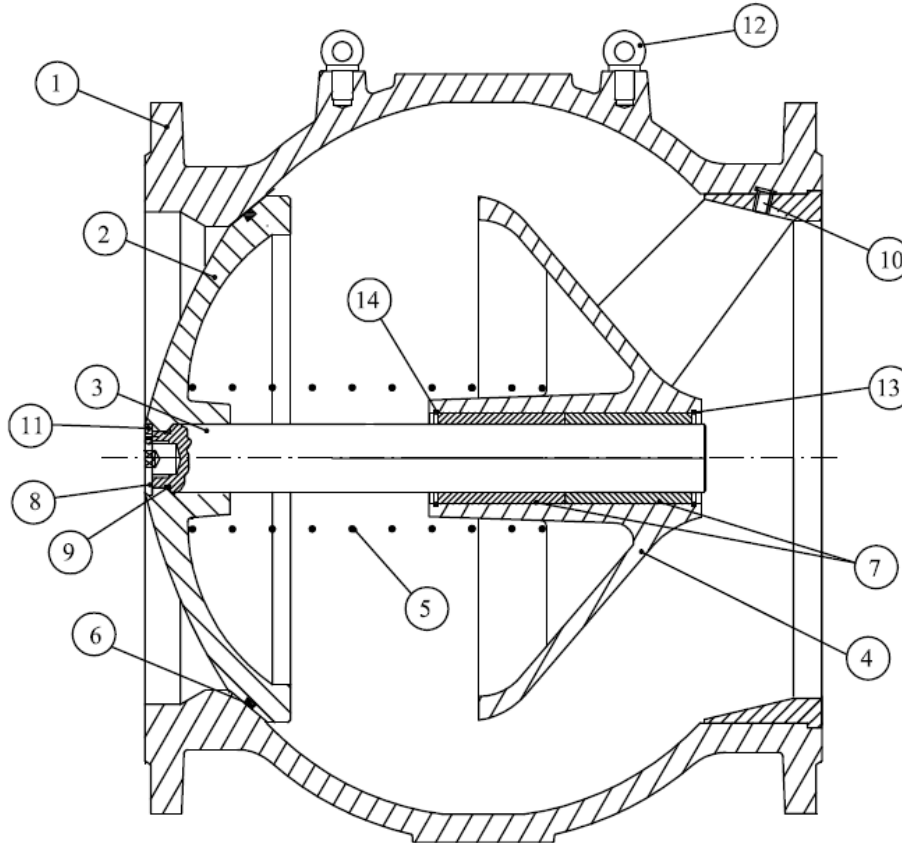
MATERIALS DN 50 - 100 :



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

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MATERIALS DN 125 - 300 :


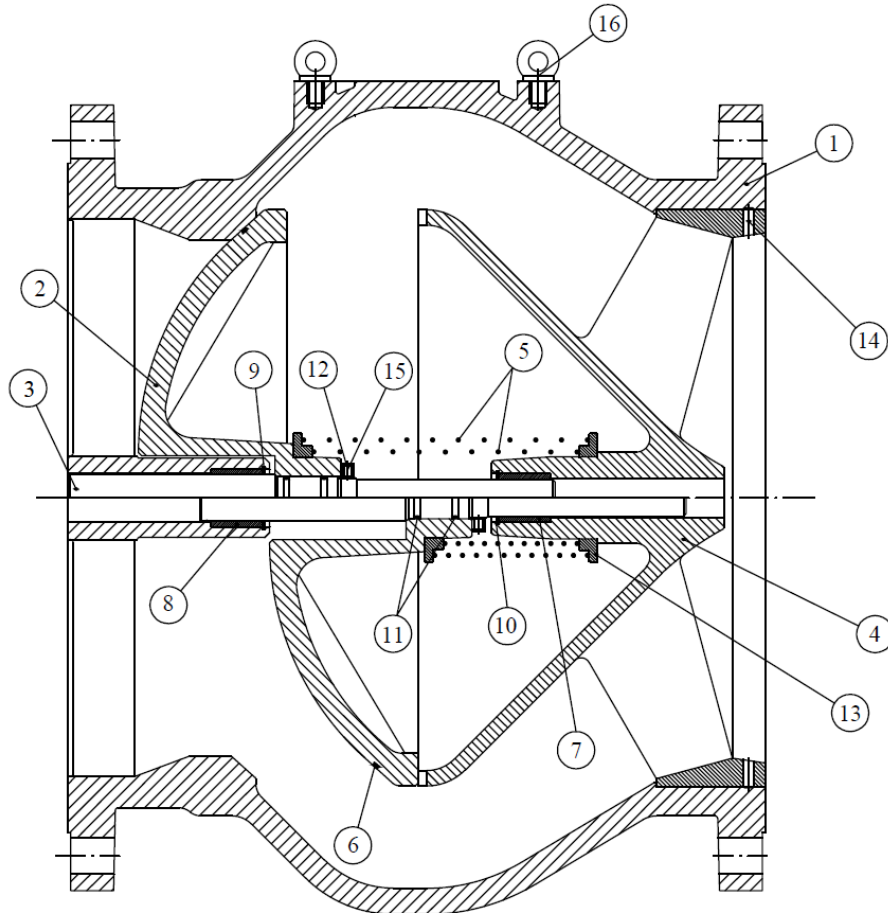
Item	Designation	Materials DN125-200	Materials DN250-300
1	Body	Cast iron EN-GJL-250	Ductile iron EN-GJS-400-15
2	Disc	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
3	Stem	AISI 304L	AISI 304
4	Guide	Ductile iron EN-GJS-400-15	Ductile iron EN-GJS-400-15
5	Spring	AISI 302	AISI 302
6	Gasket	EPDM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

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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

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MATERIALS DN 450 -600 :



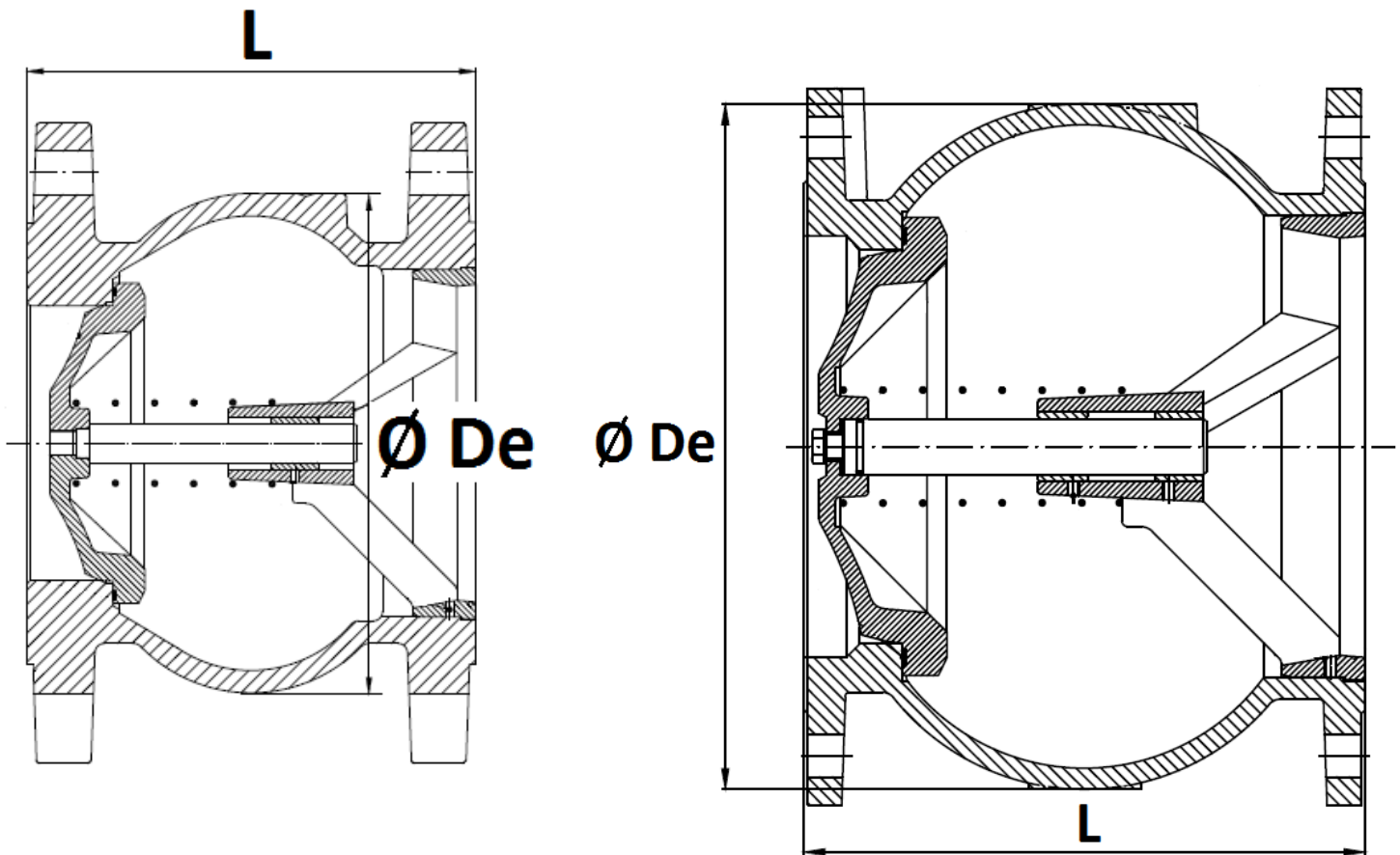
Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Ductile iron EN-GJS-400-15
3	Stem	AISI 304L
4	Guide	Ductile iron EN-GJS-400-15
5	Spring	AISI 302
6	Gasket	EPDM
7-8	Bushing	Bronze
9-10	Circlip	AISI 302
11	O ring	EPDM
12	Nut	AISI 304L
13	Washer	AISI 304L
14-15	Screw	A4
16	Lifting plug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

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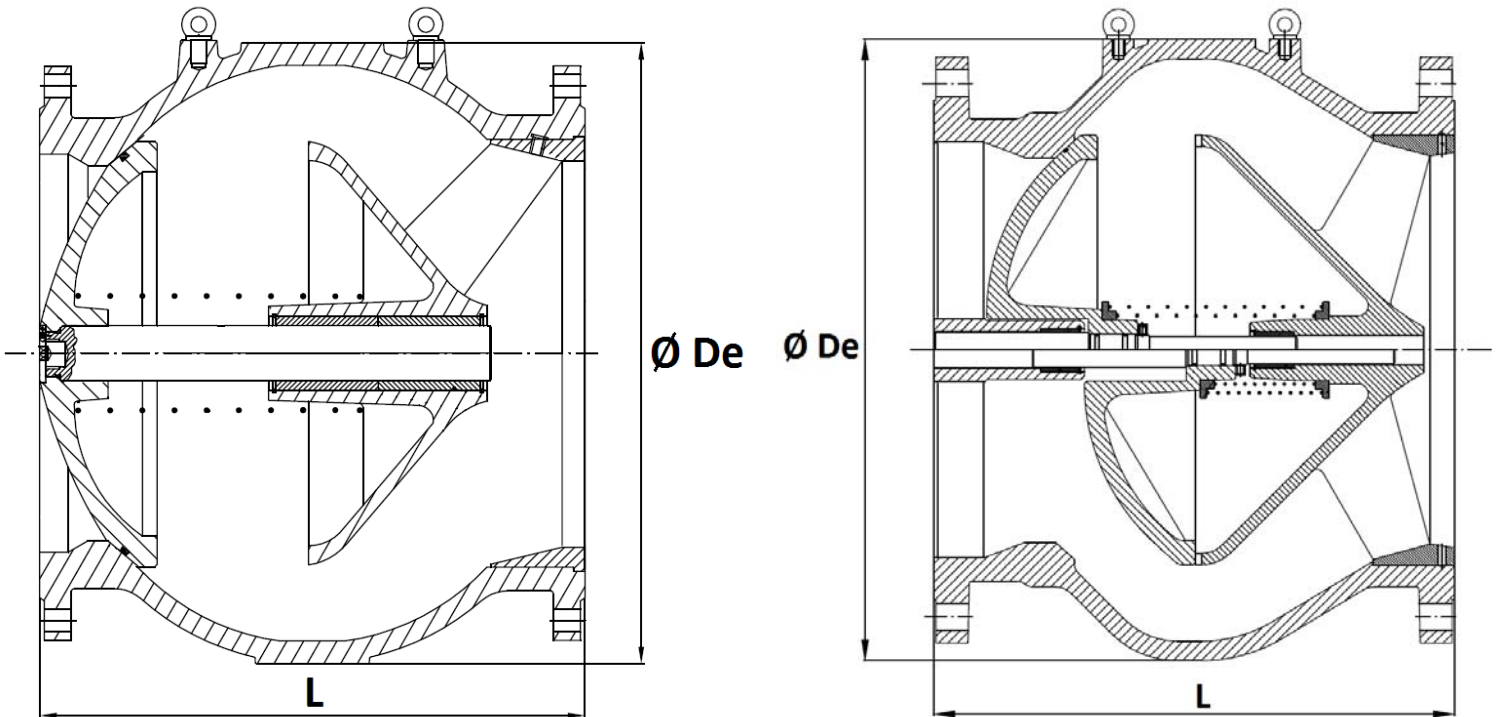
SIZE REF.366 DN 50 - 300 (in mm) :

DN50 – 100

DN125 - 300



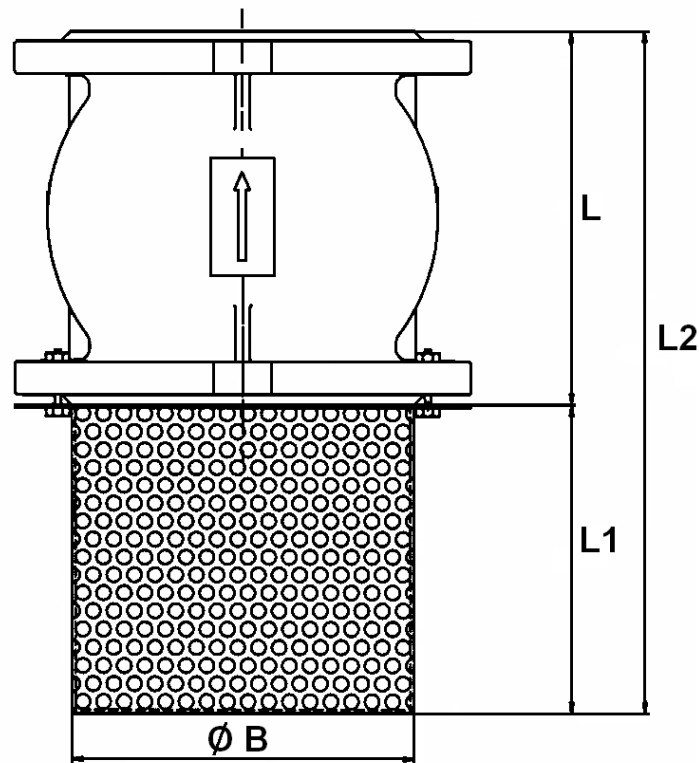
Ref.	DN	50	65	80	100	125	150	200	250	300
366	L	105	120	140	165	195	230	290	355	400
	De	104	127	157	180	215	250	335	410	486
	Weight (Kg)	5.42	8.22	10.13	13.53	19.5	27.07	46.8	77.2	128

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SIZE REF. 366 DN 350 – 600 (in mm) :
DN350 – 400
DN450 - 600


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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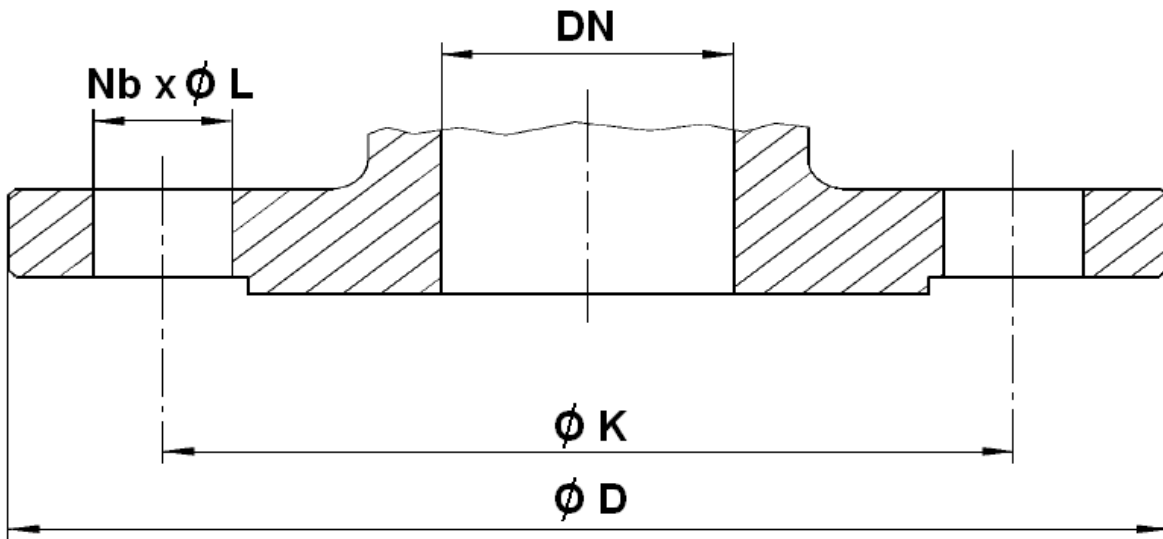
SIZE REF.363 (in mm) :



REF.	DN	50	65	80	100	125	150	200	250	300
363	L	105	120	140	165	195	230	290	355	400
	L1	77	110	125	155	170	220	300	390	410
	L2	182	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

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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: 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (Article 1, § 2b)
- French water agreement **A.C.S. N° 15 ACC LY 514**
- Pressure Tests according to ISO 5208, Rate A
- Flanges according to EN 1092-2 PN10-PN16

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.

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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 **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)**