

DUCTILE IRON DUAL PLATE CHECK VALVE ALUMINIUM BRONZE DISC NBR SEAT

Aluminium bronze dual plate check valve for sea water, heating and water distribution.

Ductile iron EN GJS-400-15 body coated with anti-corrosion epoxy painting, aluminium bronze disc and vulcanized NBR seat.

Wafer type with short length and with a hoisting eye from DN200 to 350 for easy installation.



Size : DN50 to DN350

Connection : Between flanges PN10/16, Class 150 (PN20)

Min Temperature : -10°C

Max Temperature : +80°C

Max Pressure : 16 Bars up to DN300

Specifications : NBE vulcanized seat

Horizontal or vertical position with ascendant fluid
Wafer type

Hoisting eye from DN200 to 350

Weak headloss

Materials : Ductile iron EN GJS-400-15 body

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SPECIFICATIONS :

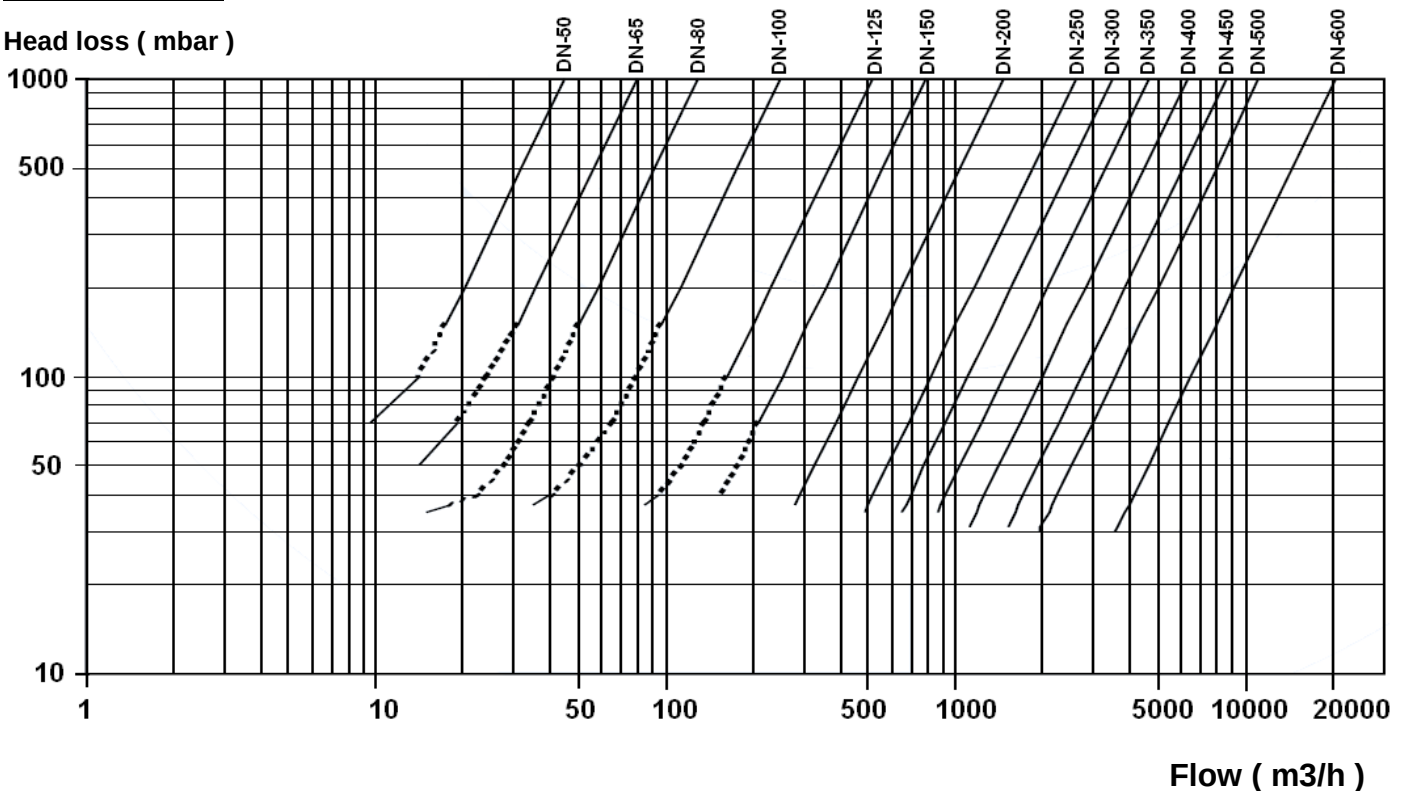
- Vulcanized gasket
- Hoisting eye from DN200 to 350
- Short length
- Anti-corrosion stainless steel spring
- Weak head loss
- Vertical position with ascendant fluid or horizontal position (respect the flow direction indicated by the arrow)
- Between flanges PN10/16 and Class 150 PN20
- From DN50 to DN80 : 4 holes on the body to be compatible Class 150 (PN20)
- Epoxy painting RAL5005 80 microns thickness for the body
- Bronze-Aluminium ASTM B148 C954 plates
- Minimum backpressure for tightness : 2 bars

USE :

- Heating, water distribution
- Min and max Temperature Ts : - 10°C to + 80°C
- Max Pressure Ps : 16 bars up to DN300
- **Do not use with pulsatory speed**

HEAD LOSS GRAPH :

Head loss (mbar)



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

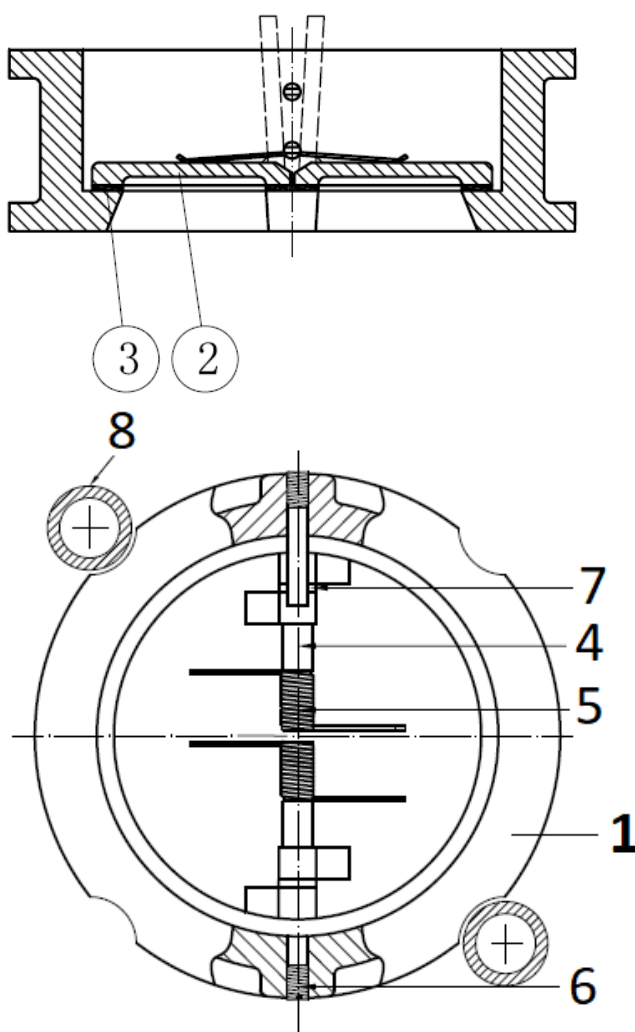
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RANGE :

- Dual plate check valve with ductile iron body and bronze aluminium disc between flanges PN10/16 **Ref. 379** From DN50 to DN 350
- Between flanges Class 150 PN20 possible
- From DN50 to DN80, 4 holes on the body to be compatible Class 150 (PN20)

For the connection PN10/16 in DN50 with holes, use the 2 rings for a good centering

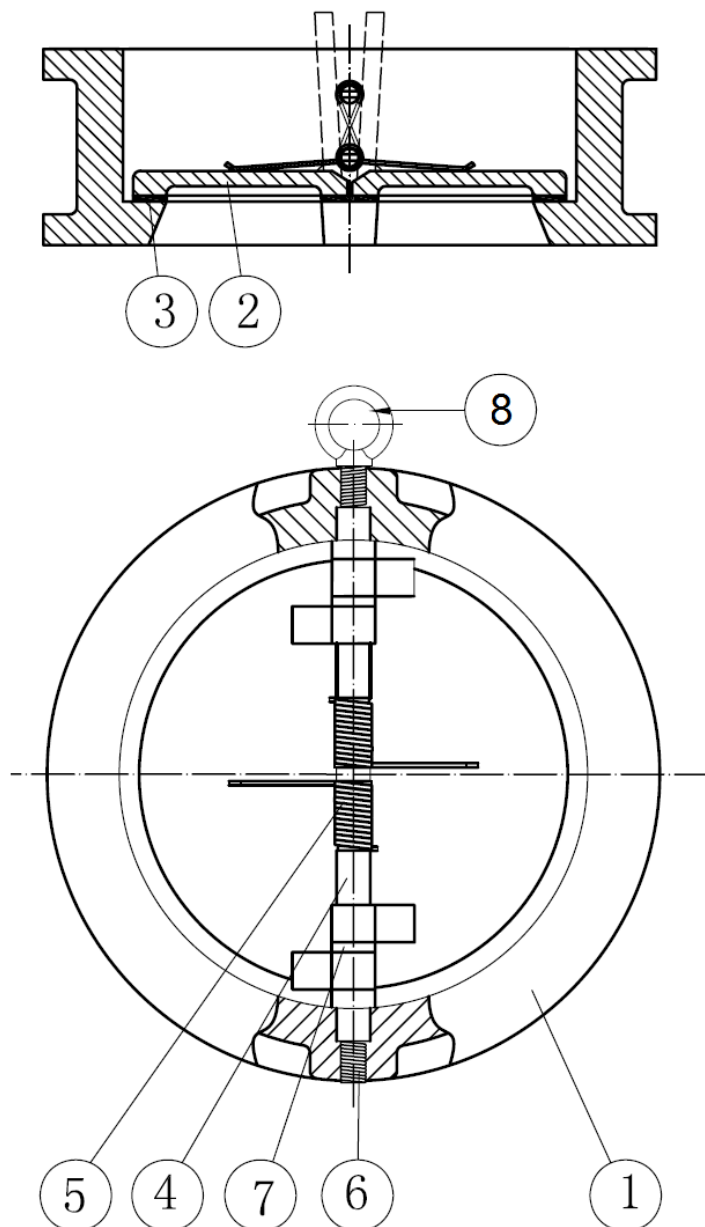
MATERIALS DN50-80 :



Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Bronze-Alu ASTM B148 C954
3	Seat	NBR
4	Shaft	AISI 316
5	Spring	
6	Screw	Galvanized carbon steel
7	Spacer	PTFE
8 (only for DN50)	Centering Ring PN10/16	PPR

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MATERIALS DN100 - 350 :



Item	Designation	Materials
1	Body	Ductile iron EN-GJS-400-15
2	Disc	Bronze-Alu ASTM B148 C954
3	Seat	NBR
4	Shaft	AISI 316
5	Spring	
6	Screw	Galvanized carbon steel
7	Spacer	PTFE
8	Hoisting eye (from DN200 to 350)	AISI 304

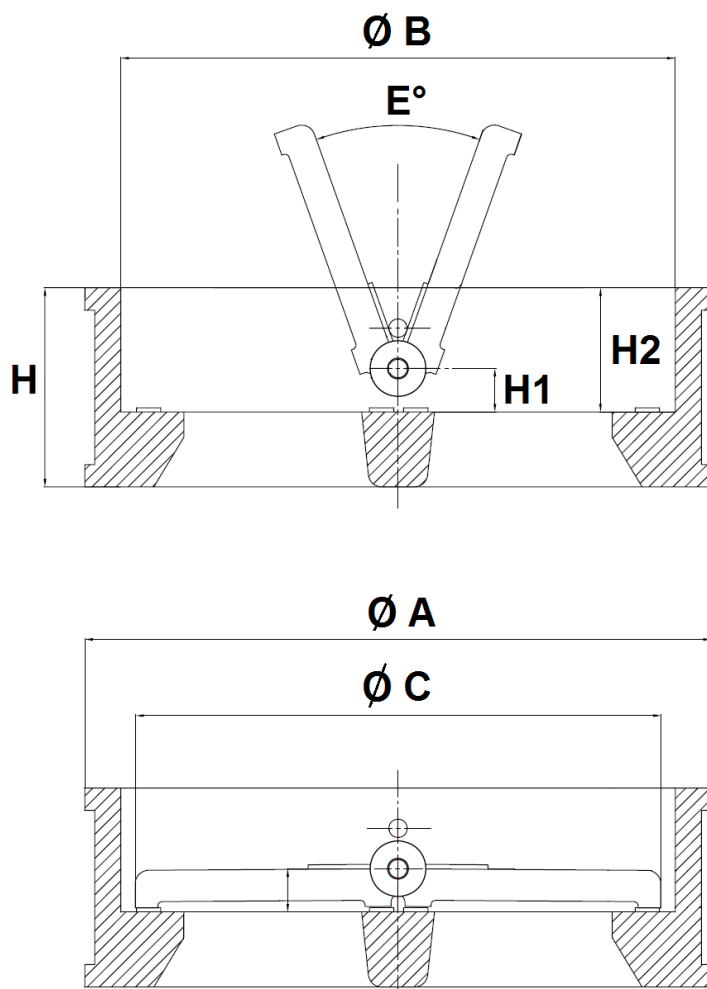
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Rev.06

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SIZE (in mm) :



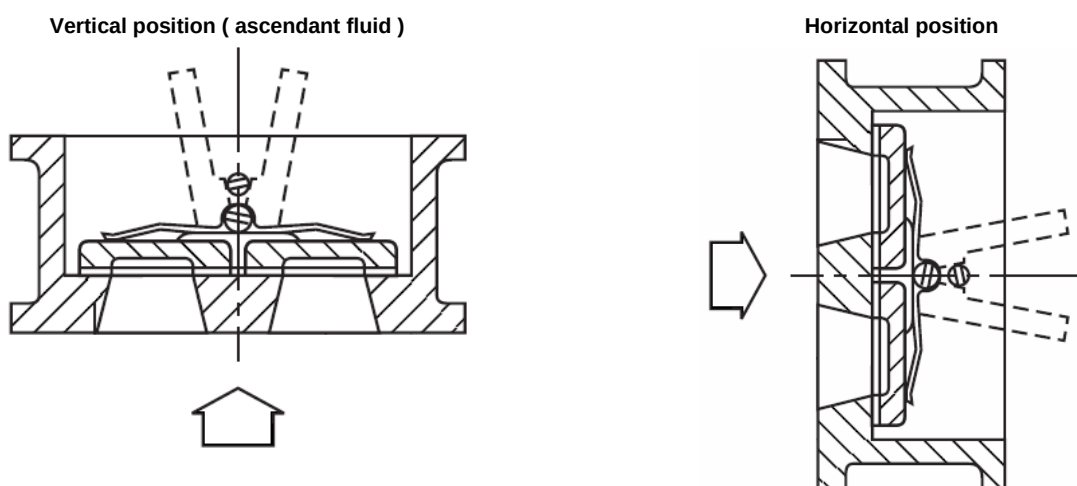
DN	50	65	80	100	125	150	200	250	300	350
H	54	54	57	64	70	76	95	108	143	184
H1	14.4	16.9	19.9	21	22.3	22.5	28	34	37	35
H2	43	43	45	47	51	54	69	71	100	120
E°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°
Ø C	60.5	75.8	80.5	104.5	130.3	155.9	201.2	257.2	303.3	345.9
Ø B	70.5	83.5	91.5	115.5	142.5	169.5	220.5	275.5	325.5	356
Ø A	109	129	144	164	194	220	275	330	380	440
Weight (Kg)	1.65	2.4	3.1	4.85	6.4	9.1	16.9	27.5	35.9	81
Ref.	379050	379065	379080	379100	379125	379150	379200	379250	379300	379350

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STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN50 : Risk category I, CE marking
 - DN65-200 : Risk Category II, CE 0035 marking
 - DN250-300 : Risk Category III, CE 0035 marking
 - DN350 : Risk Category II, CE 0035 marking
- 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
- Check valves according to LR Rules and Regulation for the classification of Ships, July 2019 (Type Approval Certificate) **Marine LLOYD'S REGISTER**. LR Type Approval System Test Specification Number 2, Chapter 8, Appendice 7-Valves :
 - BS EN 12266-1 : 2003
 - ISO 52008:2008
 - BS EN 1561
 - BS EN 1563
 - ASTM A431

INSTALLATION POSITIONS :



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.