









Certificate 3.1

Size: DN 40 to 600

Ends: Between flanges PN10/16 or PN25

Min Temperature : - 10°C

Max Temperature : + 90°C for NBR, 110°C for EPDM,180°C for FKM

Max Pressure: 10 to 16 Bars (according to DN)

Specifications: Vulcanized gasket

Horizontal or vertical position

Between flanges

HISPACONTRO HISPACONTROL S.L. Pº Delicias 65 Bis

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Materials: Cast iron or stainless steel body

Date: 12/17 Rev.08



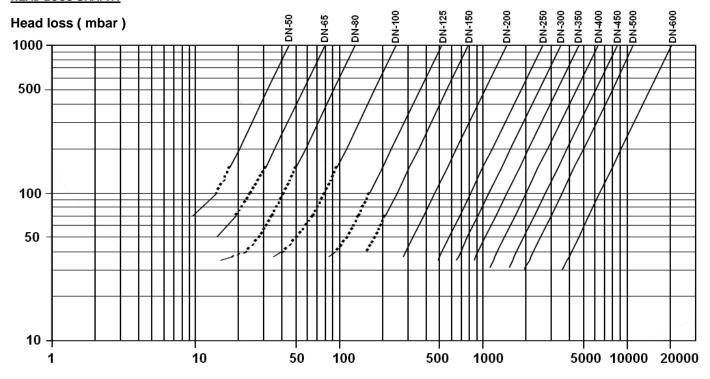
SPECIFICATIONS:

- 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 or PN25
- Anti-corrosion epoxy painting RAL003 50-100 microns thickness for body of 370 and 371 types

USE:

- Heating, water distribution for Ref. 370-371
- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation for Ref. 372
- Min and max Temperature Ts: -10°C to +90°C (110°C temporarily) for cast iron body with NBR gasket type Ref.370
- Min and max Temperature Ts: 10°C to + 110°C for cast iron body with EPDM gasket type Ref.371
- Min and max Temperature Ts: 10°C to + 180°C for stainless steel body with FKM gasket type Ref.372
- Max Pressure Ps : 16 bars up to DN300 included and 10 bars over
- Do not use with pulsatory speed

HEAD LOSS GRAPH:



Flow (m3/h)

OPENING PRESSURE (in mbar):

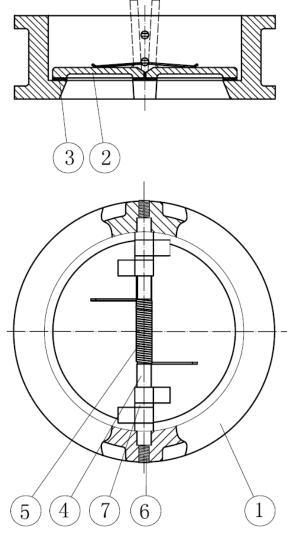
DN	40	50	65	80	100	125	150	200	250	300
Horizontal position	150	230	94	190	280	160	79	41	38	31
Vertical position ascend. fluid	190	260	114	230	320	180	95	57	58	56



RANGE:

- Double plate check valve with cast iron body and ductile iron disc between flanges PN10/16 Ref. 370 From DN40 to DN 600
- Double plate check valve with cast iron body and stainless steel disc between flanges PN10/16 Ref. 371 From DN50 to DN 600
- Double plate check valve with Stainless steel body and disc between flanges PN25 from DN 50 to 200 and PN10/16 from DN 250 to DN 600 Ref. 372 From DN50 to 600

MATERIALS DN40-80 :

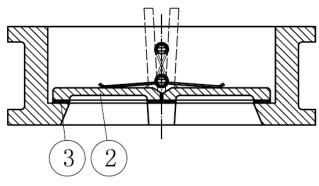


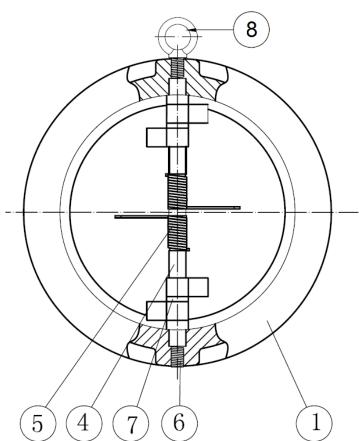
Item	Designation	Materials 370	Materials 371	Materials 372
1	Body	Cast iron EN-GJL 250	Cast iron EN-GJL 250	SS ASTM A351 CF8M
2	Disc	Nickeled ductile iron EN-GJS 400-15	SS ASTM A351 CF8M	SS ASTM A351 CF8M
3	Seat	NBR	EPDM	FKM
4	Shaft	SS 304	SS 316	SS 316
5	Spring	SS 304	SS 316	SS 316
6	Screw	Galvanized carbon steel	Galvanized carbon steel	SS 316
7	Spacer	PTFE	PTFE	PTFE

Date: 12/17 Rev.08



MATERIALS DN100 - 600 :

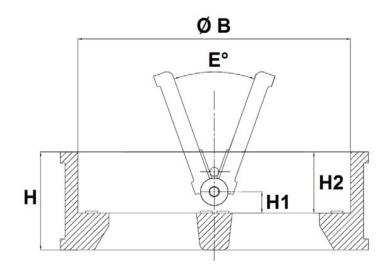


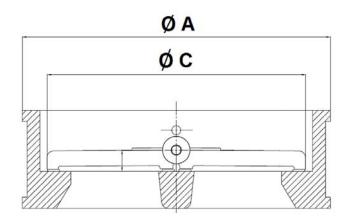


Item	Designation	Materials 370	Materials 371	Materials 372		
1	Body	Cast iron EN-GJL 250	Cast iron EN-GJL 250	ASTM A351 CF8M		
2	Disc	Nickeled ductile iron EN-GJS 400-15	ASTM A351 CF8M	ASTM A351 CF8M		
3	Seat	NBR	EPDM	FKM		
4	Shaft	SS 304	SS 316	SS 316		
5	Spring	SS 304	SS 316	SS 316		
6	Screw	Galvanized carbon steel	Galvanized carbon steel	SS 316		
7	Spacer	PTFE	PTFE	PTFE		
8	Hoisting eye (from DN200 to 600)	SS 304	SS 304	SS 304		



SIZE REF.370/371 (in mm):



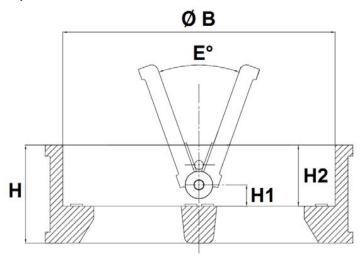


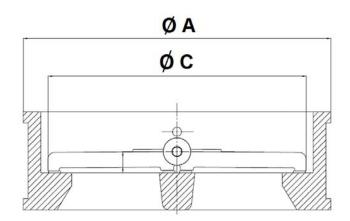
Ref.	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
370/371	н	43	54	54	57	64	70	76	95	108	144	184	191	203	213	222
	H1	12	14.4	16.9	19.9	21	22.3	22.5	28	34	37	35	37.5	42.2	39.5	48.5
	H2	33	43	43	45	47	51	54	69	71	100	120	123	122.6	132	138.5
	Ø A	82	109	129	144	164	194	220	275	330	380	440	491	541	596	697
	ØВ	56.5	70.5	83.5	91.5	115.5	142.5	169.5	220.5	275.5	325.5	356	406	467	514	616
	øс	52	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
	E°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°	20°	20°	25°	25°
	Weight (Kg)	1.6	1.62	2.3	3.14	4.5	6.7	9.05	16	26.9	38.9	80	106	128	158	225

Date: 12/17 Rev.08
Page 5 sur 8



SIZE REF.372 (in mm):





Ref.	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	Н	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
372	H2	43	43	45	47	51	54	69	71	100	120	123	122.6	132	138.5
	Ø A	109	129	144	170	196	226	285	330	380	440	491	541	596	698
	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
	øс	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
	E°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°	20°	20°	25°	25°
	Weight (Kg)	1.84	2.4	3.35	5.05	6.68	9.6	18.07	26.9	38.9	80	106	128	158	225

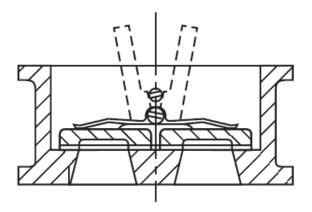


STANDARDS:

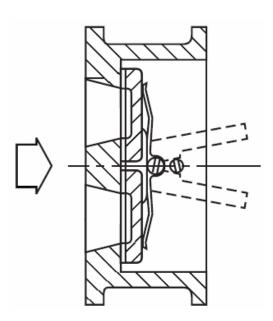
- Fabrication according to ISO 9001: 2015
- DIRECTIVE 2014/68/EU: CE N° 0035 Risk Category III Module H
- Certificate 3.1 on request
- Designing according to API 594
- Pressure tests according to API 598, table 6
- Length according to EN 558 Series 50
- Between flanges according to EN 1092-1 PN10/16 for cast iron check valves Ref.370-371
- Between flanges according EN 1092-1 PN10/16/25 for stainless steel check valves Ref.372

INSTALLATION POSITIONS:

Vertical position (ascendant fluid)



Horizontal position



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.

Date : 12/17 Rev.08
Page 7 sur 8



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 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

Date: 12/17 Rev.08
Page 8 sur 8