

FLANGED CHECK VALVE

TECHNICAL PASSPORT

FLANGED CHECK VALVE WITH COUNTERWEIGHT DUCTILE IRON BODY

CB 4248AC-EP

APPLICATION

The TECOFI swing check valve is suitable for transfer applications of uncharged fluids under non-pulsating regime.

Area of use: pumping, water supply, air conditioning installation and heating, chemical industry, hydraulic installations.



Fluids: clear and slightly charged water, demineralized water, non corrosive products.



GENERAL CHARACTERISTICS

Range: from DN40 to DN400.

- Swing non-return check valve
- Graphite sealing gasket between body and cover
- Sealing surface slightly inclined
- Easy closure
- Mounting direction is indicated by an arrow on the body.
- Low pressure drop.
- Sturdy construction requiring no maintenance.
- Mounting on horizontal or vertical ascending piping

STANDARDS

Face to face	According to standard DIN3202-F6
Connection	PN10/16 flange connection according to EN1092-2
Tests	Hydraulic tests according to EN12266-1, DIN 3230 and ISO 5208: - Body : 24 bar - Seat : 17.6 bar

PRODUCT APPROVALS



Tecofi France

83 rue Marcel Mérieux - 69960 Corbas
Tél. +33 (0)4 72 79 05 79 - Fax. +33 (0)4 78 90 19 19
E-mail : sales@tecofi.fr - www.tecofi.fr

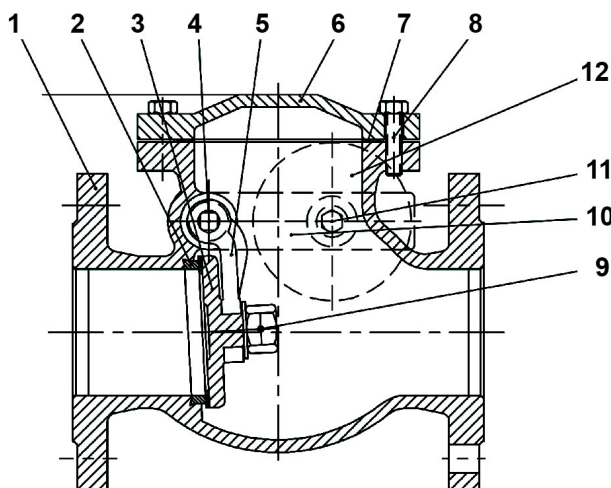


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CONSTRUCTION

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Constituant	Revêtement
Body (1)	Epoxy powder RAL 5015 thickness 250µm
Bonnet (6)	Epoxy powder RAL 5015 thickness 250µm
Counterweight (12)	Epoxy powder RAL 5015 thickness 250µm

Pos.	Description	Q-ty	Material	Equivalences		
				DIN	ASTM	BS
1	Body	1	Ductile iron EN-GJS-500-7	GGG50	A536 70-50-05	EN-JS1050
2	Seat ring	1	Brass			
3	Plate	1	Ductile iron EN-GJS-500-7 + EPDM	GGG50	A536 70-50-05	EN-JS1050
4	Hinge pin	1	Stainless steel			
5	Hinge	1	Ductile iron EN-GJS-500-7	GGG50	A536 70-50-05	EN-JS1050
6	Bonnet	1	Ductile iron EN-GJS-500-7	GGG50	A536 70-50-05	EN-JS1050
7	Gasket	1	Graphite			
8	Screw	n	Stainless steel 304			
9	Nut	1	Stainless steel 304			
10	Rocker arm	1	Stainless steel 304			
11	Bolt	1	Stainless steel 304			
12	Counterweight	1	Ductile iron EN-GJS-500-7	GGG50	A536 70-50-05	EN-JS1050

n= 4 (DN40-65 ; 6 (DN80-100; 8 (DN125); 10 (DN150-200); 12 (DN250-300); 16 (DN350-400)

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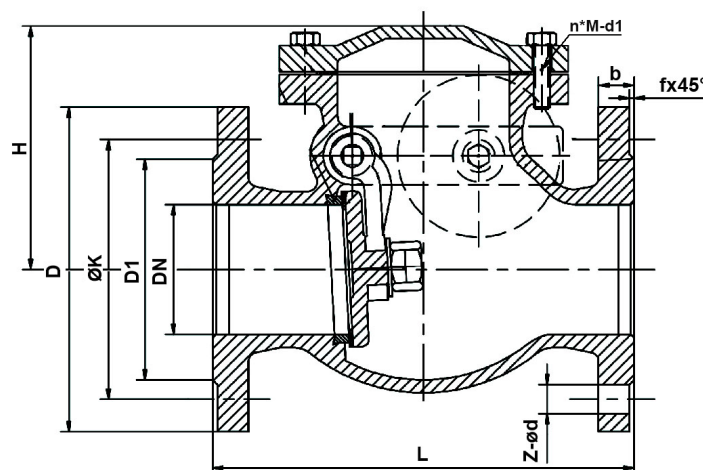


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DIMENSIONS



DN		L	Ø D	Ø D1		Ø K	H	n*M-d1	Z-Ød		b	f	Weight (kg)
mm	inch												
40	1"1/2	180	150	88		110	111	4*M10-30	4-Ø19		18	3	8
50	2"	200	165	102		125	120	4*M10-30	4-Ø19		20	3	11.3
65	2"1/2	240	185	122		145	137	4*M10-35	4-Ø19		20	3	15.3
80	3"	260	200	138		160	153	6*M12-40	8-Ø19		22	3	20
100	4"	300	220	158		180	163	6*M12-40	8-Ø19		24	3	26.4
125	5"	350	250	188		210	183	8*M12-45	8-Ø19		26	3	37
150	6"	400	285	212		240	203	10*M12-45	8-Ø23		26	3	49
200	8"	500	340	268		295	247	10*M16-50	8-Ø23	12-Ø23	30	3	83.5
250	10"	600	405	320		350 355	289	12*M16-50	12-Ø23	12-Ø28	32	3	123.5
300	12"	700	460	370	378	400	410	12*M16-55	12-Ø23	12-Ø28	32	3	169
350	14"	800	520	430	438	460	470	16*M16-55	16-Ø23	16-Ø28	36	3	257
400	16"	900	580	482	490	515	525	16*M16-55	16-Ø28	16-Ø31	38	3	315

WORKING CONDITIONS

Maximum working pressure : 16 bar
Maximum working temperature : 0°C / +120°C

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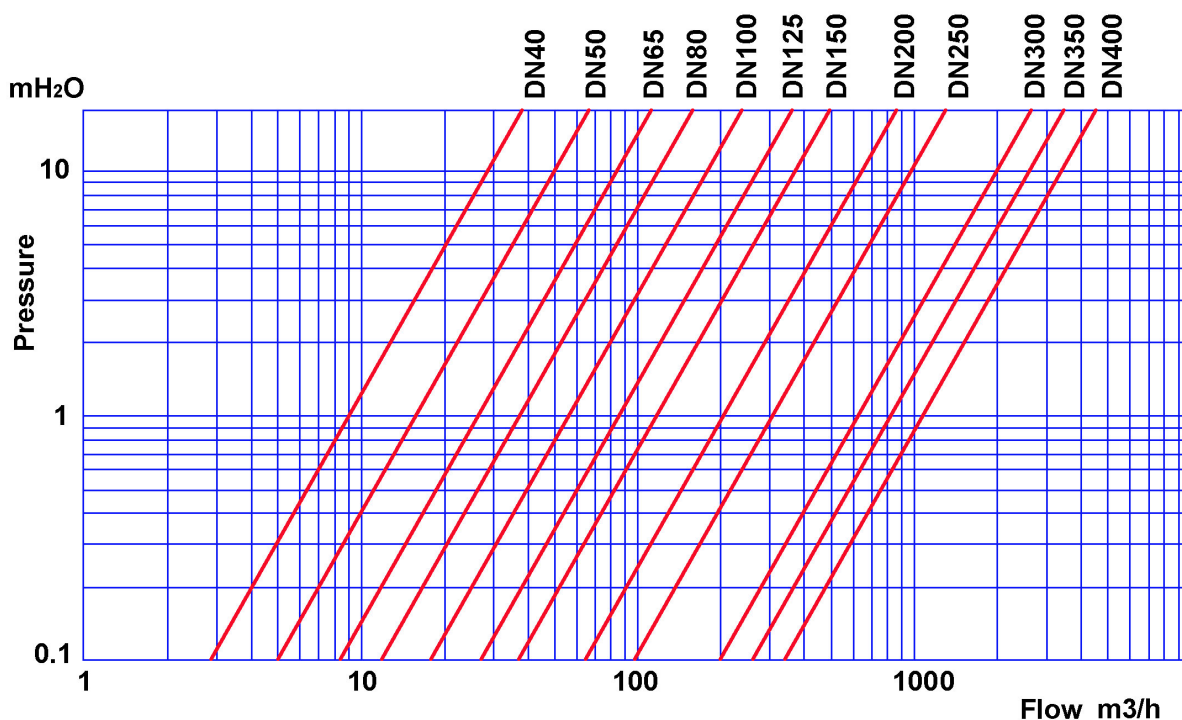


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HEAD LOSS DIAGRAMM



FLOW FACTOR (Kvs)

DN	40	50	65	80	100	125	150	200	250	300	350	400
Kvs	24.5	40.7	65.2	92.9	169.6	265	381.5	685	1076.8	1556.7	1891.5	2513.3

! During the mounting it is recommended to maintain a distance of 3 to 5 times the mininal diameter upstream and downstream of an elbow or appliance. This makes it possible to stay out of areas of turbulence likely to increase the risk of wear.
At the discharge of a pump it is advisable to carry out the assembly in accordance with the **FD CEN/TR 13932** standards

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