

FLANGED TILTING CHECK VALVE

TECHNICAL PASSPORT

Tilting Check Valve - Ductile Iron Body With Counterweight PN10/16

CP 4243

APPLICATION

The TECOFI tilting check valve is suitable for fluid transfer applications in pipe systems requiring protection against reverse flow.

Area of use: pumping stations, water distribution, irrigation, fire protection systems, industry.



Fluids: water, waste water, etc.



GENERAL CHARACTERISTICS

- Model with long pattern.
- Designed in accordance with BS 5153.
- Range : from DN200 to DN1200.
- Sealing provided by seal on butterfly retained by a stainless steel ring.
- Non pinned stem/disc connection.
- Double eccentric check valve, prevents wear due to the stainless steel seat attached to the body.
- Optimized maneuvering torque.
- Low pressure drop.
- Easy maintenance.
- Mounting on horizontal or vertical ascending piping upon specific request to TECOFI.

STANDARDS

Design	According to standard BS 5153
Face to face	face to face dimensions according to ISO 5752 series 14
Connection	Flanged connection in accordance with EN 1092-2 PN10/16, BS4504 - PN10/PN16
Tests	Hydraulic tests according to EN12266-1, DIN 3230 and ISO 5208: - Body : 24 bar - Seat : 17.5 bar

PRODUCT APPROVALS



Tecofi France

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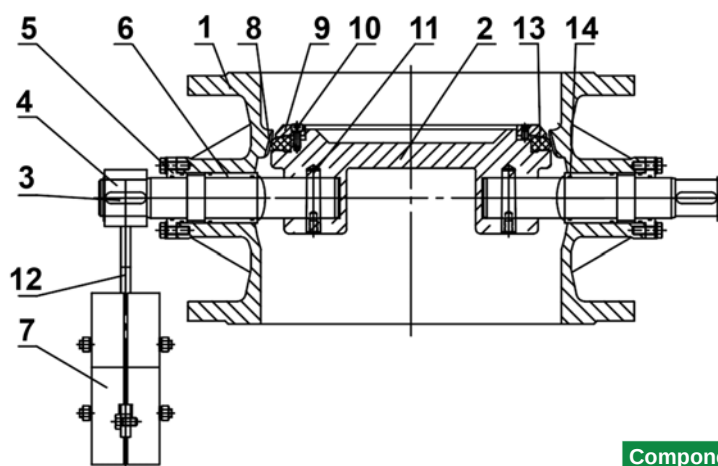


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CONSTRUCTION



Component	Coating
Body	Epoxy powder RAL 5015 300 microns

Pos.	Q-ty	Description	Material	Equivalences		
				DIN	ASTM	BS
1	1	Body	Ductile iron EN-GJS-500-7	GGG 50	A536 70-50-05	EN-JS1050
2	1	Disc	Ductile iron EN-GJS-500-7	GGG 50	A536 70-50-05	EN-JS1050
3	4	Key	Stainless steel 420	X30Cr13		
4	2	Shaft	Stainless steel 420	X30Cr13		
5	2	Cover	Steel Q235			
6	2	Bush	Al-bronze			
7	1	Counterweight	Steel Q235			
8	1	Body seal ring	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
9	1	Retaining ring	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
10	*	Screw mechanically lock	A2-70			
11	2	Pin	Stainless steel 420	X30Cr13		
12	1	Lever	Steel Q235			
13	1	Disc seal ring	EPDM			
14	2	O ring	EPDM			

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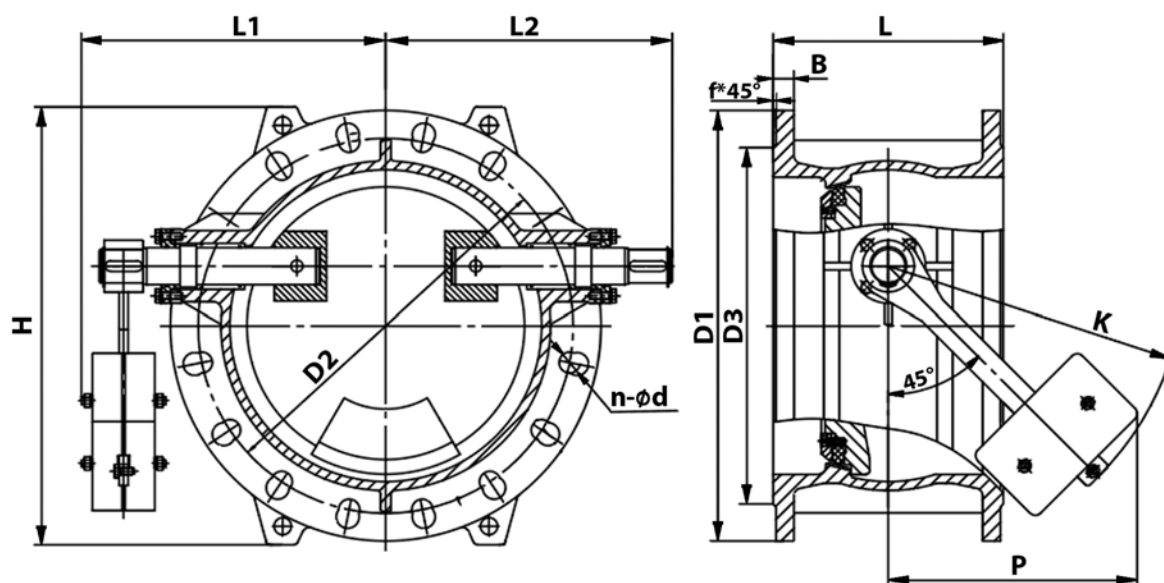


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DIMENSIONS



DN		Ø D1	Ø D2		Ø D3		n x Ø d		B	L	f	H	K	L1	L2	P	Weight (kg)
mm	inch		PN10	PN16	PN10	PN16	PN10	PN16									
200	8"	340	295	295	266	266	8 x Ø23	12 x Ø23	20	230	3	350	200	235	230	180	45
250	10"	405	350	355	319	319	12 x Ø23	12 x Ø28	22	250	3	415	300	280	270	210	76
300	12"	460	400	410	370	370	12 x Ø23	12 x Ø28	24.5	270	4	470	350	320	310	250	102
350	14"	520	460	470	429	429	16 x Ø23	16 x Ø28	26.5	290	4	530	350	370	350	300	140
400	16"	580	515	525	480	480	16 x Ø28	16 x Ø31	28	310	4	590	400	410	385	340	176
450	18"	640	565	585	548	548	20 x Ø28	20 x Ø31	30	330	4	650	450	460	435	370	245
500	20"	715	620	650	609	609	20 x Ø28	20 x Ø34	31.5	350	4	725	500	520	490	420	300
600	24"	840	725	770	720	720	20 x Ø31	20 x Ø37	36	390	5	850	600	580	540	490	432
700	28"	910	840	840	794	794	24 x Ø31	24 x Ø37	39.5	430	5	920	700	645	600	560	565
800	32"	1025	950	950	901	901	24 x Ø34	24 x Ø41	43	470	5	1035	800	710	690	650	833
900	36"	1125	1050	1050	1001	1001	28 x Ø34	28 x Ø41	46.5	510	5	1135	880	800	760	720	1081
1000	40"	1255	1160	1170	1112	1112	28 x Ø37	28 x Ø44	50	550	5	1265	1000	890	840	490	1268
1200	48"	1485	1380	1390	1328	1328	32 x Ø41	32 x Ø50	57	630	5	1500	1230	1030	980	850	2127

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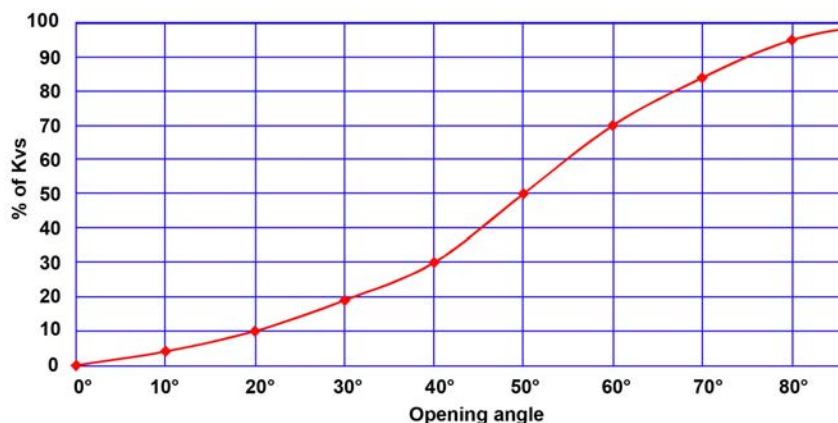
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WORKING CONDITIONS

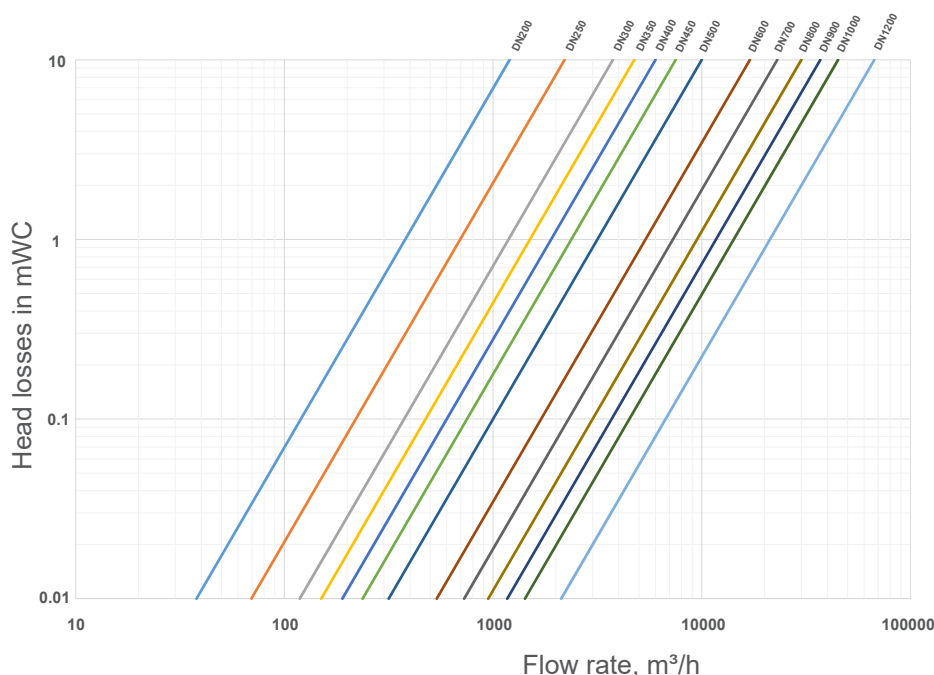
Maximum working pressure : 16 bar

Maximum working temperature : -10°C / +80°C

Flow characteristics



HEAD LOSSES



DN	mm	200	250	300	350	400	450	500	600	700	800	900	1000	1200
	inch	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
Kvs		1880	3800	4950	8000	10900	14200	18250	28000	40500	55100	74000	93338	142516

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