CE In compliance with PED 97/23/EC

technical details

- wafer design
- self-centering
- light weight and small face to face
- low pressure drops
- easy to install and maintenance
- materials : zinc plated carbon steel, stainless steel 316, alu-bronze
- metal/metal seat or soft seal
- series DN 32 ÷ DN 800
- suitable for flanges EN1092-1:2001 PN 6, 10, 16, 25 and ANSI 150 RF
- special executions upon request: series ANSI 300 ÷ ANSI 1500 RF e RTJ series PN 40 ÷ PN 250

applications

Marine and offshore industry
Petrochemical industry
Heating
Ventilation
Fire protection systems
Water industry

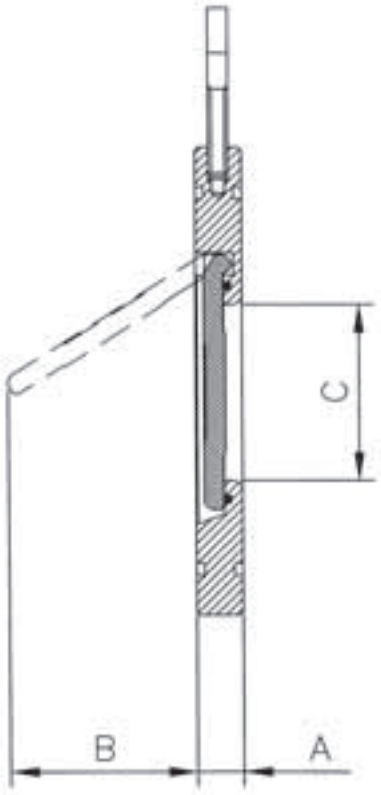
working pressure

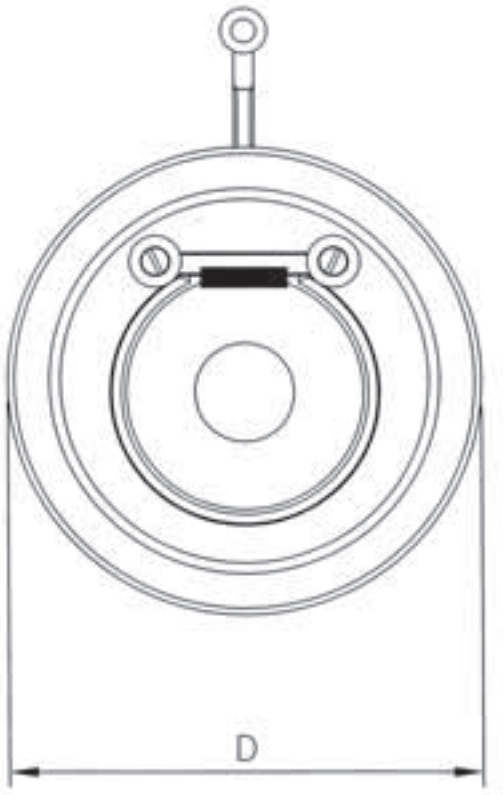
PN 6	6 Kg/cm^2	85 Psi
PN 10	10 Kg/cm^2	142 Psi
PN 16	16 Kg/cm^2	227 Psi
PN 25	25 Kg/cm^2	355 Psi
ANSI 150	20 Kg/cm^2	284 Psi

Minimum opening pressure (mbar)			
DN	DN 32 : DN 150	DN 200 : DN 350	DN 400 : DN 600
Flow direction			
Horizontal open 10°	3	3	6
Horizontal open 30°	9	12	16
Horizontal open 60°	13	19	26
Vertical uphill	16	22	32
Vertical downhill	it is not possible to use the valve mounted in this position		

Edition iRLCV01/2008

Swing check valve **series CV**

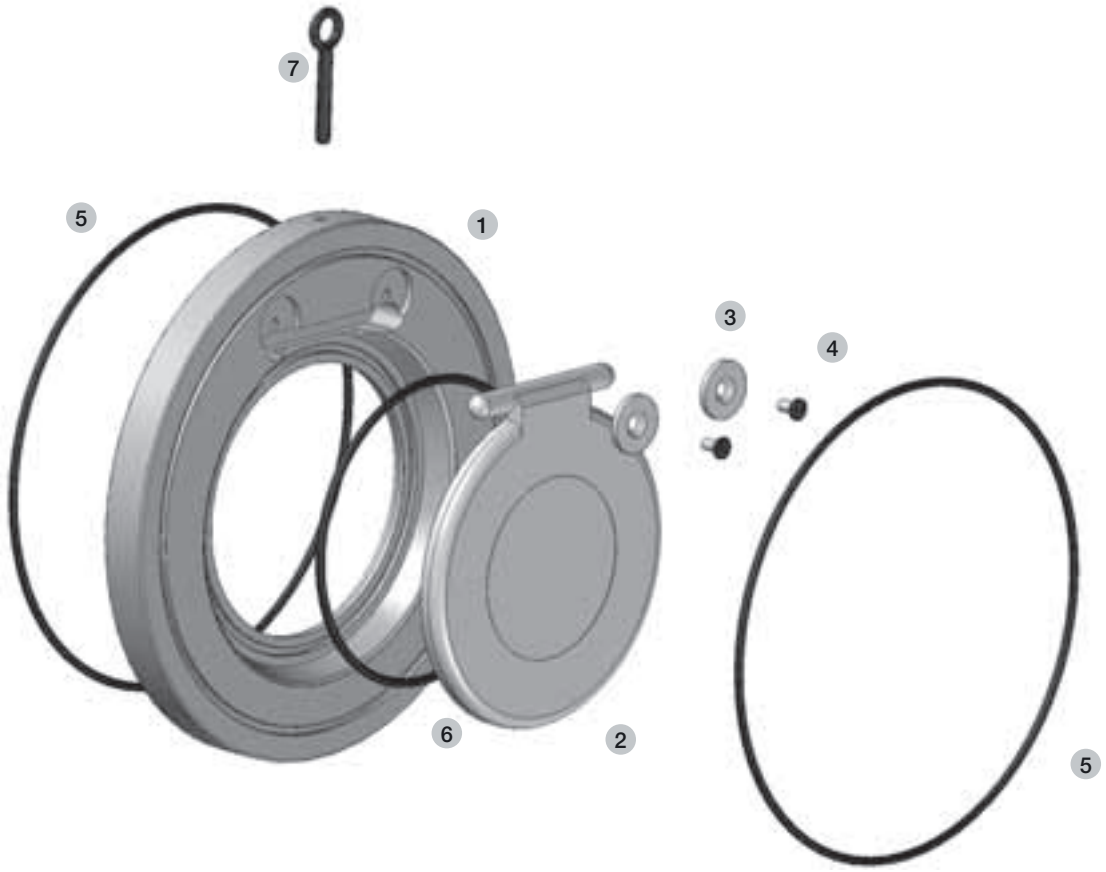




DN										WT PN10
mm	inch	A	B	C	D	D	D	D	D ANSI 150	Kg
32	1 ¼	14	20	17	78	84	84	84	76	0,6
40	1 ½	14	30	22	88	95	95	95	86	0,7
50	2	14	34	32	98	109	109	109	105	0,9
65	2 ½	14	48	40	118	129	129	129	124	1,2
80	3	14	55	54	134	144	144	144	137	1,5
100	4	18	71	70	154	164	164	170	175	2,4
125	5	18	92	92	184	195	195	198	195	3,4
150	6	20	115	112	209	220	220	228	220	4,6
200	8	22	138	154	264	275	275	285	279	7,5
250	10	26	179	200	319	330	330	340	340	13,1
300	12	32	185	240	375	380	387	403	410	20,4
350	14	38	258	270	425	440	448	460	448	32,0
400	16	44	300	310	475	490	495	514	514	48,0
450	18	50	331	360	530	540	557	567	548	63,0
500	20	56	368	405	580	595	617	624	605	87,0
600	24	62	435	486	680	695	734	731	715	130,0
700	28	68	530	580	785	810	805	833	830*	215,0
800	32	80	620	670	890	917	911	942	937*	280,0

* Suitable for flanges mss sp-44 150 lbs

Edition iRLCV02/2008

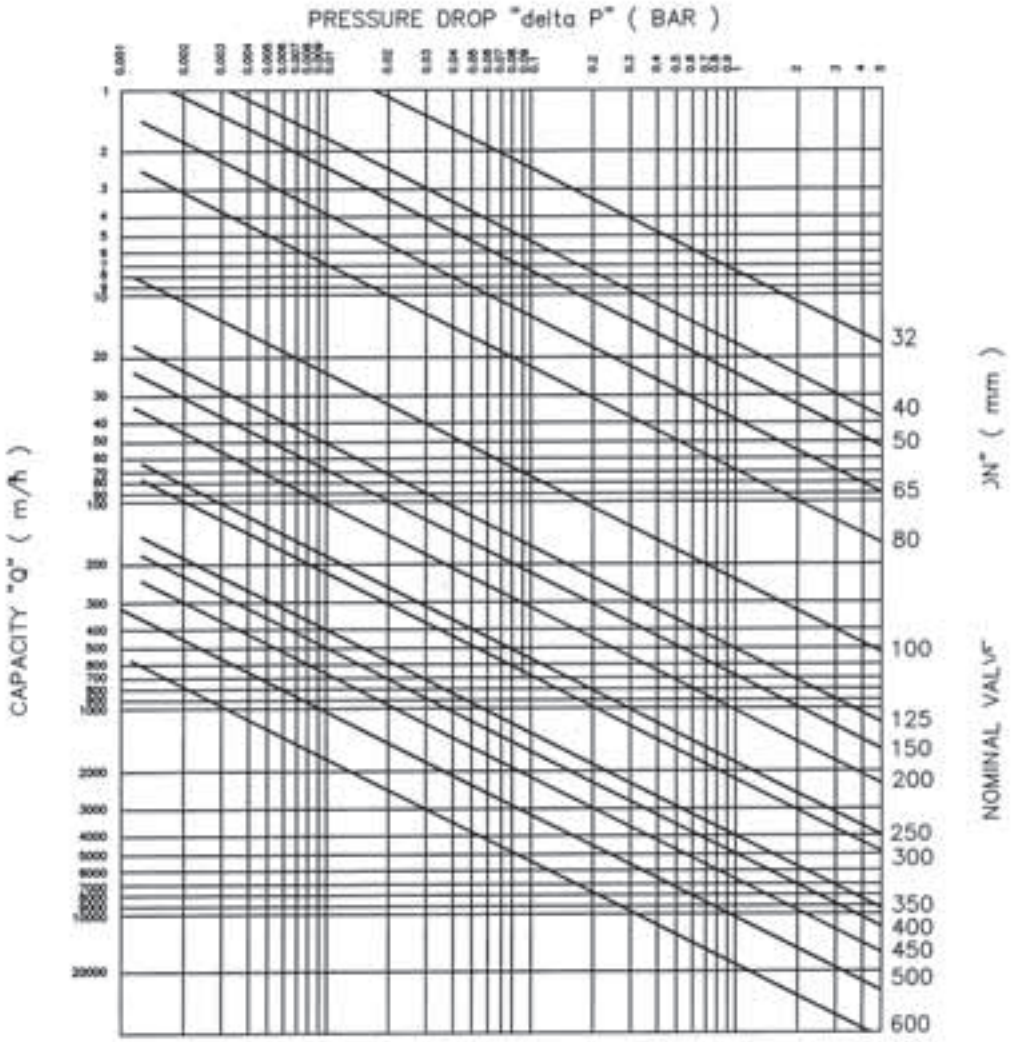


Pos	Component	Q.ty	Material	T max °C	T min °C
1	body	1	Carb. steel SS 316L Alu-bronze	+ 250 + 510 + 260	- 10 - 50 - 10
2	disc	1	Carb. steel SS 316L Alu-bronze	+ 250 + 510 + 260	- 10 - 50 - 10
3	washer	1	SS 316	+ 510	- 50
4	screw	2	SS 316	+ 510	- 50
5	Ext. O-ring	2	NBR EPDM FKM PTFE	+ 120 + 130 + 260 + 260	- 20 - 30 - 50 - 50
6	Int. O-ring	1	As external O-ring	-	-
7	Eyebolt	1	Carb. steel	-	-

Edition iRLCV03/2008

PRESSURE DROP DIAGRAM "delta P"

TEST CONDITIONS: Water (H2O)
Specific weight : 1 Kg/dm
Temperature : 15°C



The curves shown on the diagram represent pressure drop related to water at 15aC. Pressure drop related to fluids other than water (air or gas) is obtained by calculating the equivalent related water flow (Qe) and including this new value on the diagram.
To obtain the value of the equivalent water flow (Qe) the following formula should be applied:

$$Qe = \sqrt{\frac{Y}{1000}} \times Q$$

Qe = Equivalent water flow in m^3/h
Q = Fluid flow (air or gas) at operating conditions in m^3/h
Y = Fluid density measured in operating conditions in Kg/m^3

The pressure drops shown on the diagram and those obtained from the formula refer to valves fitted on horizontal pipelines. The valves indicated on the diagram are also applicable to valves fitted on vertical pipelines, only in case of partial valve opening.
The resulting differences are unimportant.

COEFFICIENT VALUES "CV"

DN		CV	DN		CV
32	1¼	8.7	200	8	1205
40	1½	20	250	10	2200
50	2	29.5	300	12	2560
65	2½	49	350	14	4820
80	3	78	400	16	6050
100	4	286	450	18	7740
125	5	635	500	20	11825
150	6	840	600	24	18800

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