



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 maintain
- materials: zinc plated carbon steel, stainless steel 316, alu-bronze
- metal/metal seat or soft seal
- series DN 32 ÷ DN 300
- 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

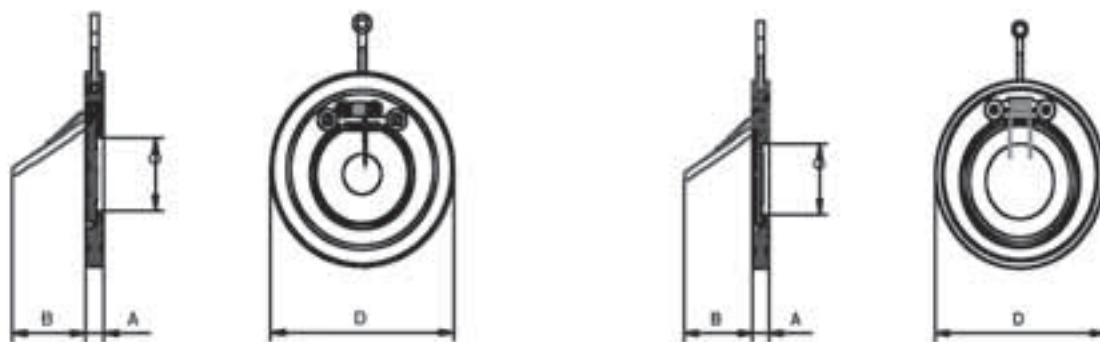
working pressure

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

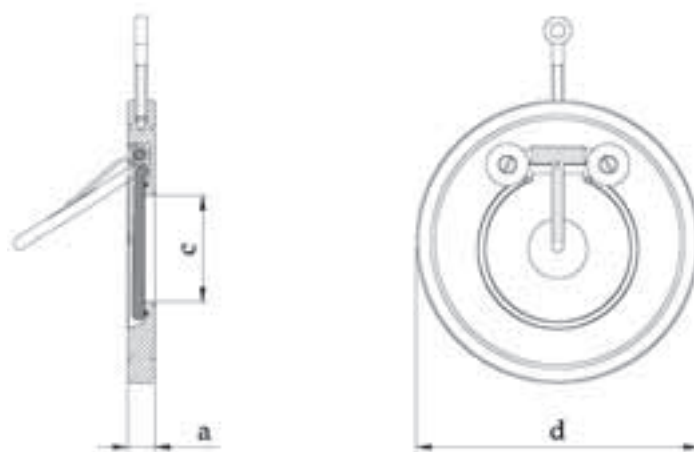
Minimum opening pressure (mbar)

DN	DN 32 : DN 150	DN 200 : DN 300
Flow direction		
Horizontal open 10°	13	15
Horizontal open 30°	19	25
Horizontal open 60°	23	32
Vertical uphill	26	18
Vertical downhill	10	10

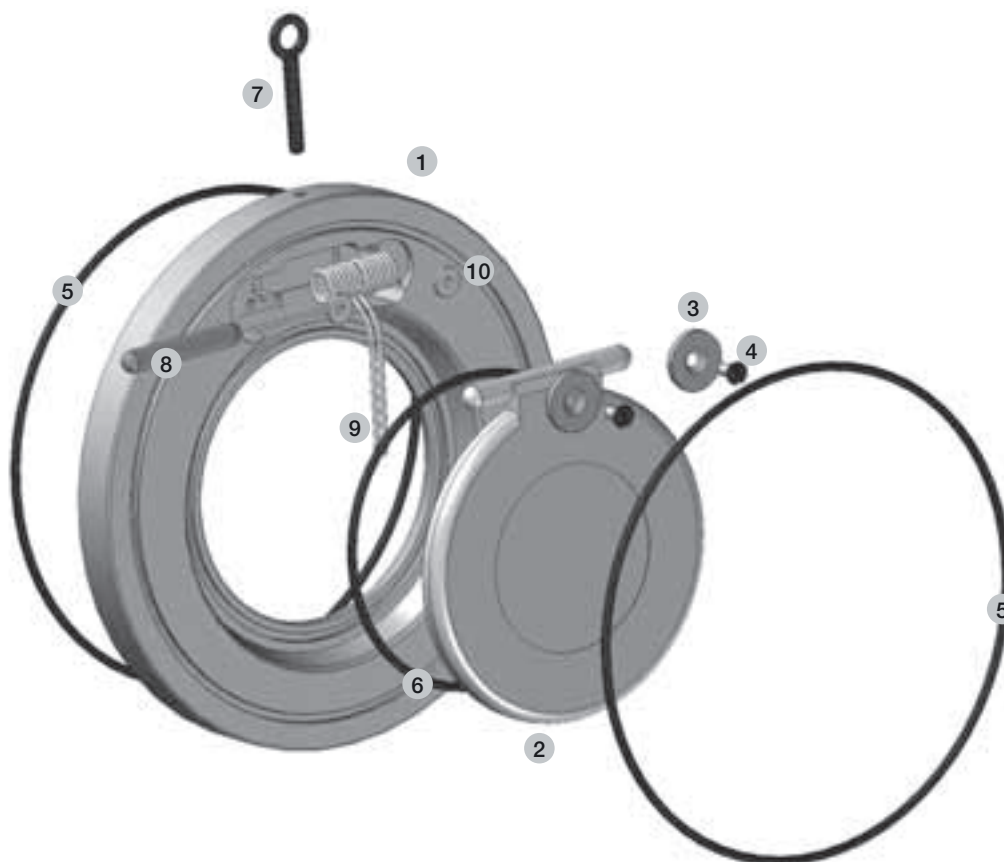
 Swing check valve **series CS**



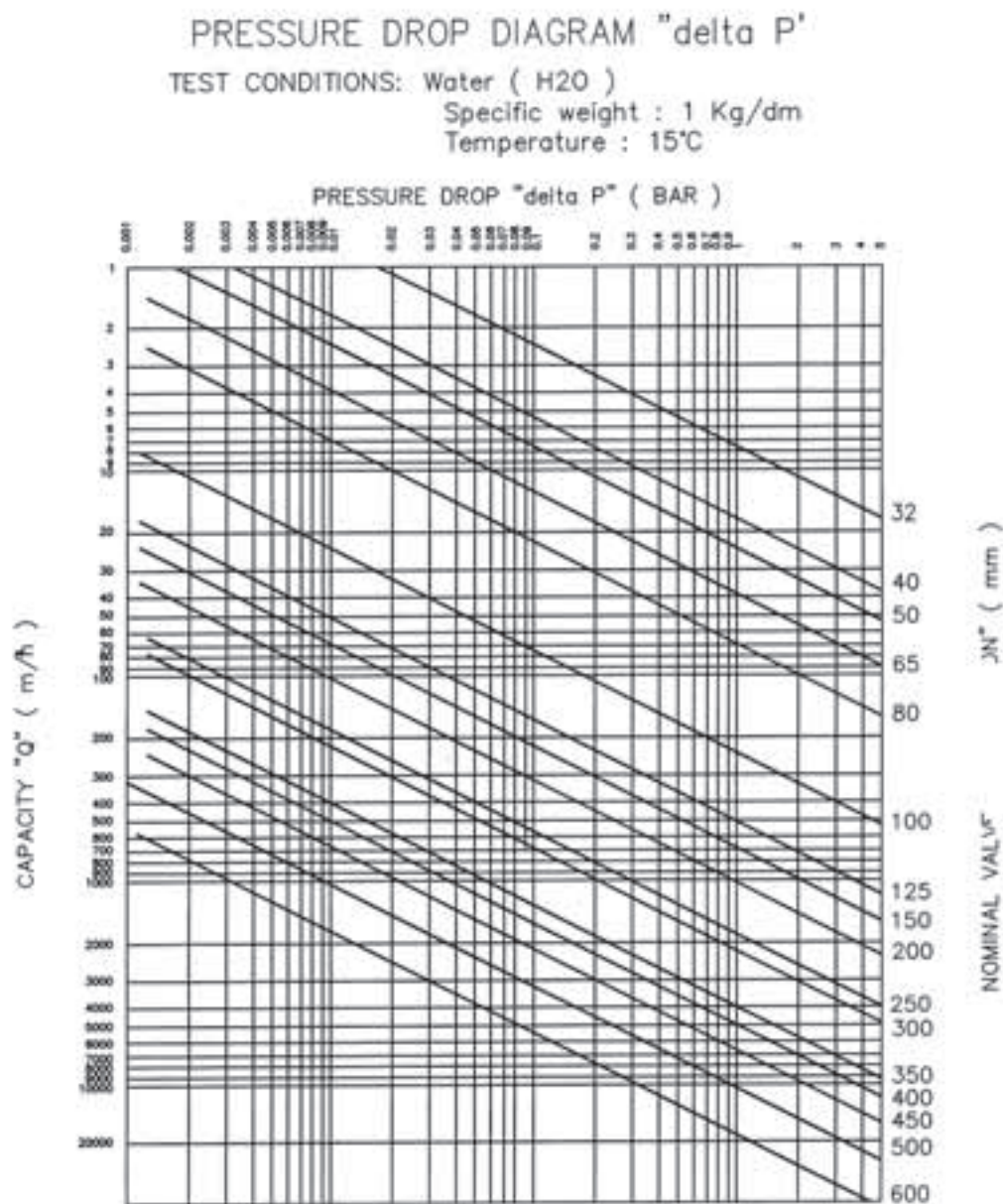
DN										WT PN10
mm	inch	A	B	C	D PN 6	D PN10	D PN16	D PN25	D ANSI 150	Kg
32	1 ¼	14	20	17	78	84	84	84	76	0,6
40	1 ½	14	30	22	88	95	95	95	86	0,7
50	2	14	35	32	98	109	109	109	105	0,9
65	2 ½	14	48	40	118	129	129	129	124	1,2
80	3	14	60	54	134	144	144	144	137	1,5
100	4	18	78	70	154	164	164	170	175	2,4
125	5	18	98	92	184	195	195	198	195	3,4
150	6	20	117	112	209	220	220	228	220	4,6
200	8	22	160	154	264	275	275	285	279	7,5



DN										WT PN10
mm	inch	A	B	C	D PN 6	D PN10	D PN16	D PN25	D ANSI 150	Kg
250	10	26	200	200	319	330	330	340	340	13,1
300	12	32	235	240	375	380	387	403	410	20,4



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	+ 250	- 10
8	spring shaft	1	SS 316	+ 510	- 50
9	spring	1-2	SS 316	+ 510	- 50
10	spring screw	2	SS 316	+ 510	- 50



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

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

Q_e = Equivalent water flow in m³/h
Q = Fluid flow (air or gas) at operating conditions in m³/h
Y = Fluid density measured in operating conditions in Kg/m³

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 1 ¼	8.7	200 8	1205
40 1 ½	20	250 10	2200
50 2	29.5	300 12	2560
65 2 ½	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