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SERIE 11
115551

Swing Check valves

Nominal diameter options (DN) 32-800
Nominal pressure options (PN) 6-10-16-25
Maximum working temperature (°C) Depends on the material

FEATURES

Wafer design
Self-centering
Light weight and small face to face
Low pressure drop

Standard materials: zinc plated carbon steel, stainless steel 316, alu-bronze
Metal/Metal seat or soft seat (NBR, EPDM, PTFE, FKM)

Suitable for flange UNI PN 6, 10, 16, 25 and ANSI 150 RF
Further materials and special execution upon request:
– series ANSI 300 – ANSI 1500 RF
– series PN 40 – PN 250

APPLICATIONS

Marine and offshore, chemical industry, pharmaceutical industry, heating, ventilation, fire protection systems, water industry

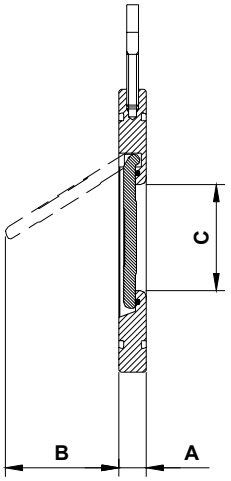
Working pressure:

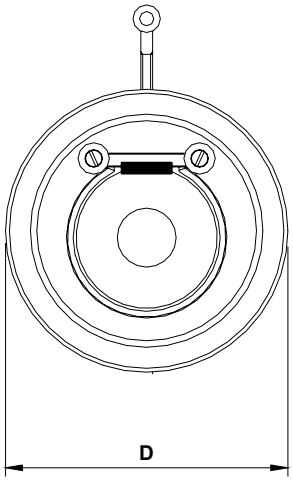
• PN 6	6 Kg/cm²	85 Psi
• PN 10	10 Kg/cm²	142 Psi
• PN 16	16 Kg/cm²	227 Psi
• PN 25	25 Kg/cm²	355 Psi
• ANSI 150	20 Kg/cm²	284 Psi

MINIMUM OPENING PRESSURE (mbar)

DN		DN 32 : DN 150	DN 200 : DN 400	DN 400 : DN 600
Flow direction				
Horizz. open 10°	→	3	3	6
Horizz. open 30°	→	9	12	16
Horizz. open 60°	→	13	19	26
Vertical uphill	↑	16	22	32
Vertical downhill	↓	non it is not possible to use the valve mounted in this position		

DIMENSIONS

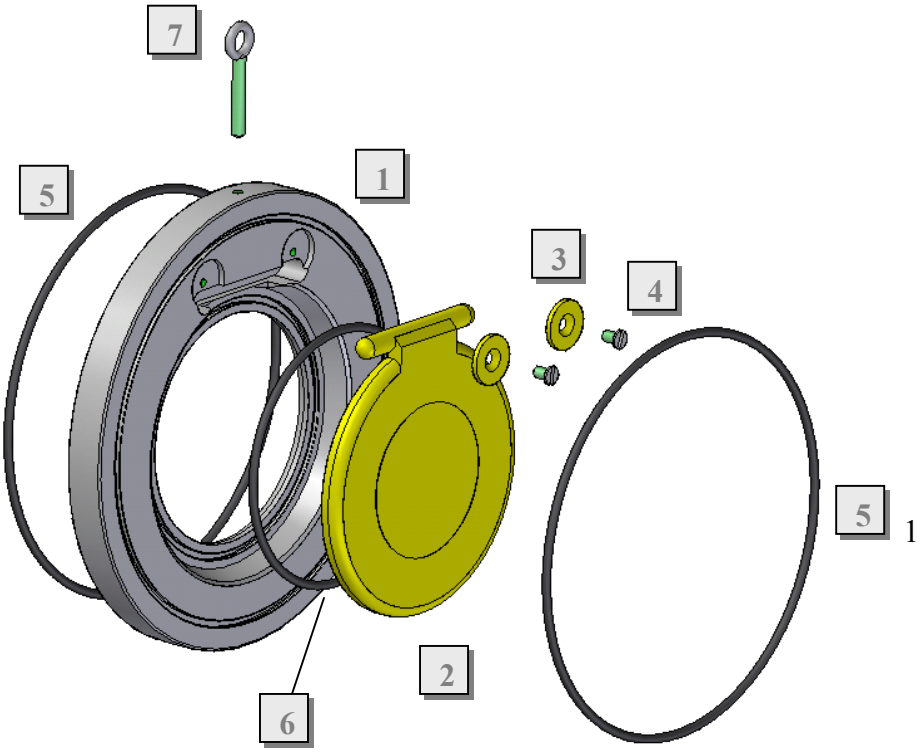




DN mm	DN inch	A	B	C	D PN 6	D PN10	D PN16	D PN25	D ANSI 150	WT PN10 Kg
32	1"¼	14	20	17	78	84	84	84	76	0,6
40	1"½	14	30	22	88	95	95	95	86	0,7
50	2"	14	35	32	98	109	109	109	105	0,9
65	2"½	14	48	40	118	129	129	129	124	1,2
80	3"	14	60	54	134	144	144	144	137	1,5
100	4"	18	78	70	154	164	164	170	175	2,4
125	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
250	10"	26	200	200	319	330	330	340	340	13,1
300	12"	32	235	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	268	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

MATERIALS AND PARTS

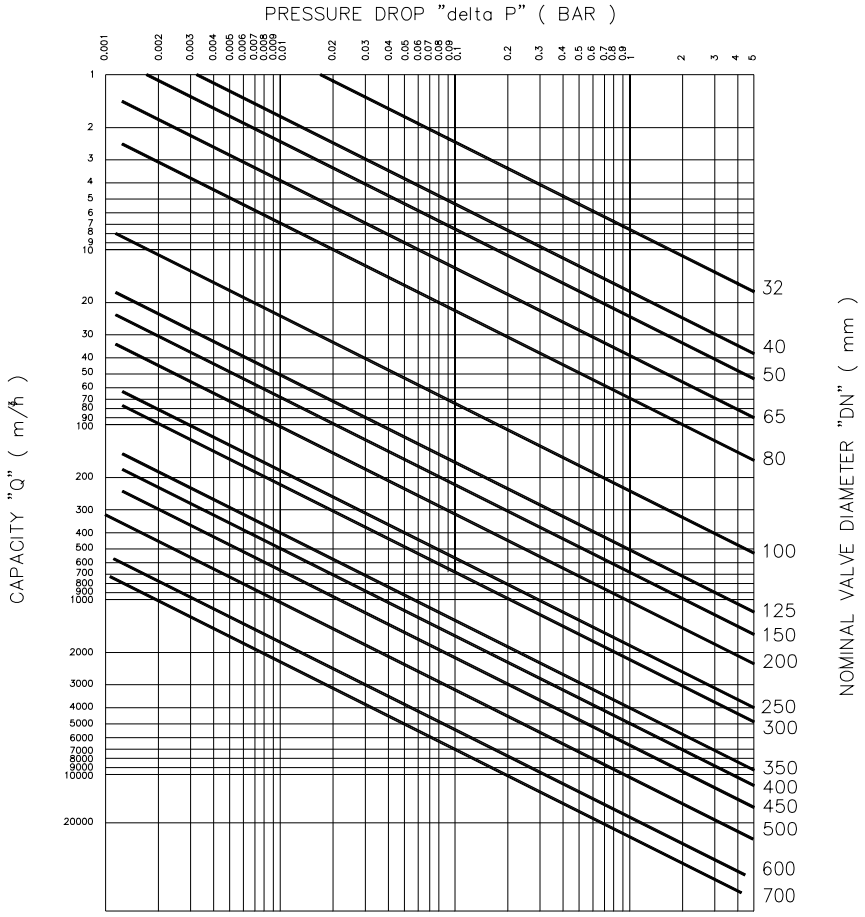


Pos	Component	Q.ty	Material	T max °C	T min °C
1	body	1	Carb. steel AISI 316L Alu-bronze	+ 250 + 510 + 260	- 10 - 50 - 10
2	disc	1	Carb. steel AISI 316L Alu-bronze	+ 250 + 510 + 260	- 10 - 50 - 10
3	washer	1	AISI 316	+ 510	- 50
4	screw	2	AISI 316	+ 510	- 50
5	Ext. O-ring	2	NBR EPDM FKM PTFE	+ 120 + 130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

TECHNICAL INFORMATION

PRESSURE DROP DIAGRAM "delta P"

TEST CONDITIONS: Water (H2O)
Specific weight : 1 Kg/dm^3
Temperature : 15°C



The curves shown on the diagram represent pressure drop related to water at 15øC. 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	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