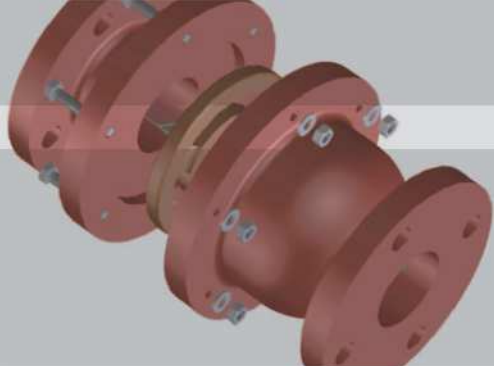
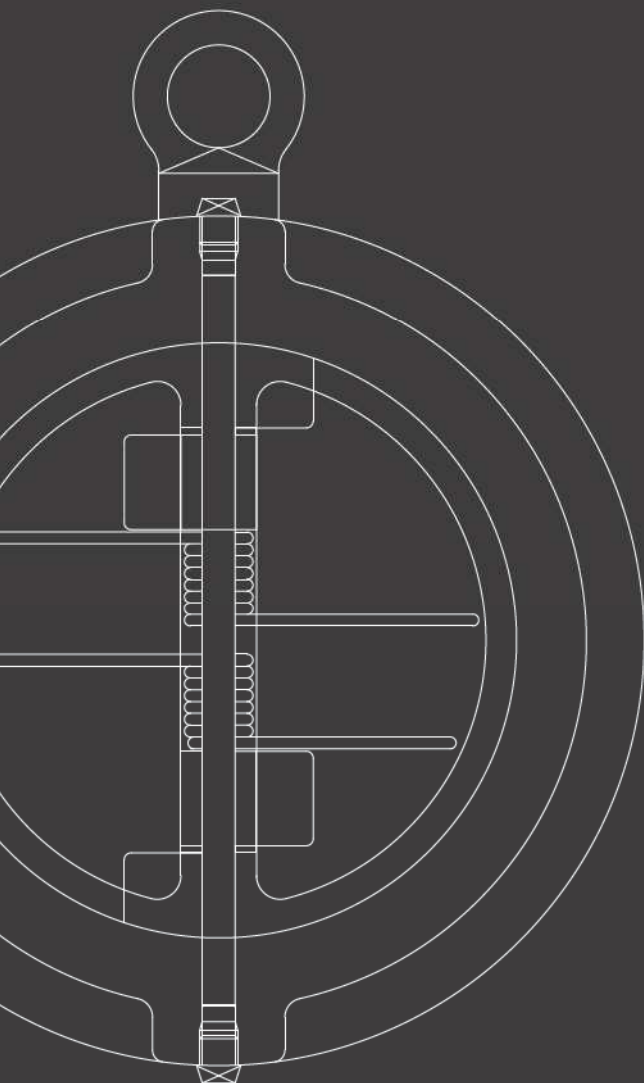


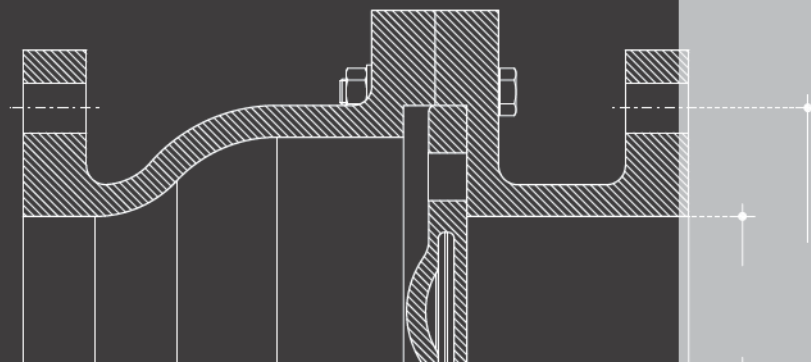


CHECK VALVES



VALVOLE CHECK 138

Mod.	GS45 HW	pag. 142
Mod.	GS80 REG	pag. 144
Mod.	GS81 REG	pag. 146
Mod.	GS45 REG	pag. 148
Mod.	GS82 REG	pag. 150
Mod.	GS83 REG	pag. 152
Mod.	GS85 _{SW/BW/SE} REG	pag. 154
Mod.	GS86 REG	pag. 156



THE ANSWER TO PROBLEMS OF: CORROSION, ABRASION, CLOGGING, CONTAMINATION, VACUUM & GAS HANDLING



G&O Check valve are designed to standards of maximum simplicity and efficiency. The valve body can be supplied, on indications from customers, to fulfil specific requirements in use.

PRODUCT FEATURES

- Simple three parts design for Non return Check valves, with only one moving part (disc), valve usable in vertical or horizontal plane
- Light weight for Wafer type Check valves, bubble tight, low pressure loss. The eccentric shaft connection in combination with disc seat, guarantees a positive shut off of the returning medium.
- Light weight for Spring Loaded Check valve, short length, low pressure drop and positive shut-off, achieved by unique spring loaded disc.
- Dual Plate and Non-Slam Check valves are stronger, lighter and smaller than conventional swing check valves.
- Pressure Rating 7.0 bar, Class 150, 300, 600, 900, 1500, 2500
- Size from 1/2" through 64"

PERFORMANCE FEATURES

- Valves with most advanced design Features provide the ultimate in dependable, economic flow control
- Surface protection for ductile iron and cast steel Valves, Chlorine free prime coat with modified alkyd resin unobjectionable in physiological and toxicological respects. Additional external coating: Enamel/Silver Streak aluminium paint

BODY VALVE MATERIALS

- ASTM A126 CLASS C - PVDF, PPH
- ASTM A395
- ASTM A216 WCB
- ASTM A351 CF8, CF8M, CF3, CF3M
- ASTM A105
- ASTM A182 F11, F22, F5, F9, F304, F316

DISC & PLUG MATERIALS:

- ASTM A276 Type 410, 304, 316 - PVDF, PPH
- ASTM A217 CA15
- ASTM A216 WCB
- ASTM A351 CF8, CF8M, CF3, CF3M
- ASTM A395

GASKET O-RING VALVE MATERIAL

- Spiral Wound 304, 316 with CAF
- Graphite
- PTFE filled
- EPDM (Other grades available on request)
- Compressed Asbestos free

BODY VALVE LINING MATERIAL:

- Soft rubber
- Hard rubber (ebonite)
- Hypalon rubber
- ECTFE/HALAR
- Butyl rubber
- EPDM rubber
- Neoprene rubber
- PFA

DESIGN/TESTING APPLICABLE STANDARD

- G&O STD
- API 594
- BS 5352
- API 6D
- API 598

END CONNECTIONS APPLICABLE STANDARD

- ANSI/ASME B16.5 Flanged Valves
- ANSI/ASME B16.1 Flanged Fittings
- ANSI/ASME B1.20.1 (NPT) Pipe Threads
- ANSI/ASME B16.34 Steel Valves
- ANSI/ASME B16.11 Socketweld Fittings
- ANSI/ASME B16.25 Buttweld Ends

CERTIFICATES AVAILABLE

- EN 10204 3.1B- EN 10204 2.2
- LP/MP TESTS

INSPECTION TESTS AVAILABLE BY

- SGS GLOBAL TRADE SOLUTIONS
- ITS INTERTEK TESTING SERVICES
- BV BUREAU VERITAS

MAJOR MARKETS SERVED

- Chemical process
- Power generation
- Water treatment
- Mining
- Pulp & Paper
- Nuclear
- Pharmaceutical
- Food & Beverage
- Bioprocess

OPTIONS

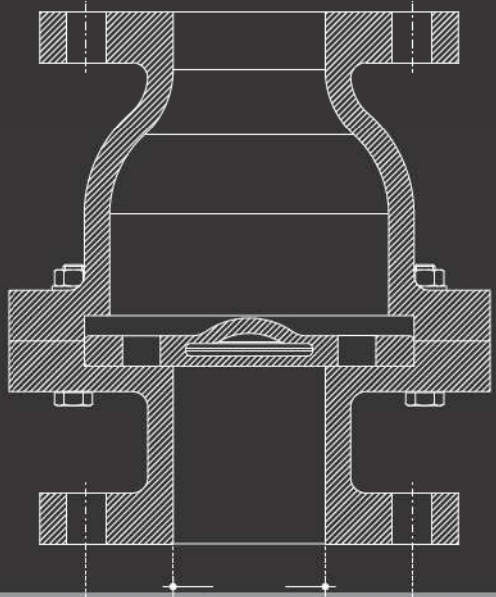
- Limit switches
- Solenoid valve
- Position indicator
- Air filter regulator
- 3:15 PSI positioner
- 4:20mA electropneumatic positioner or 4:20mA electronic transmitter of position 30°-90°angle
- Triphase AC motor

G&O SERIES PNEUMATIC ACTUATORS

Piston type air operators line offer a great solution to a wide range of actuation situations. They are exclusively designed to G&O series butterfly valves and can be mounted in any position. These actuators are built in aluminium and are available in three options:

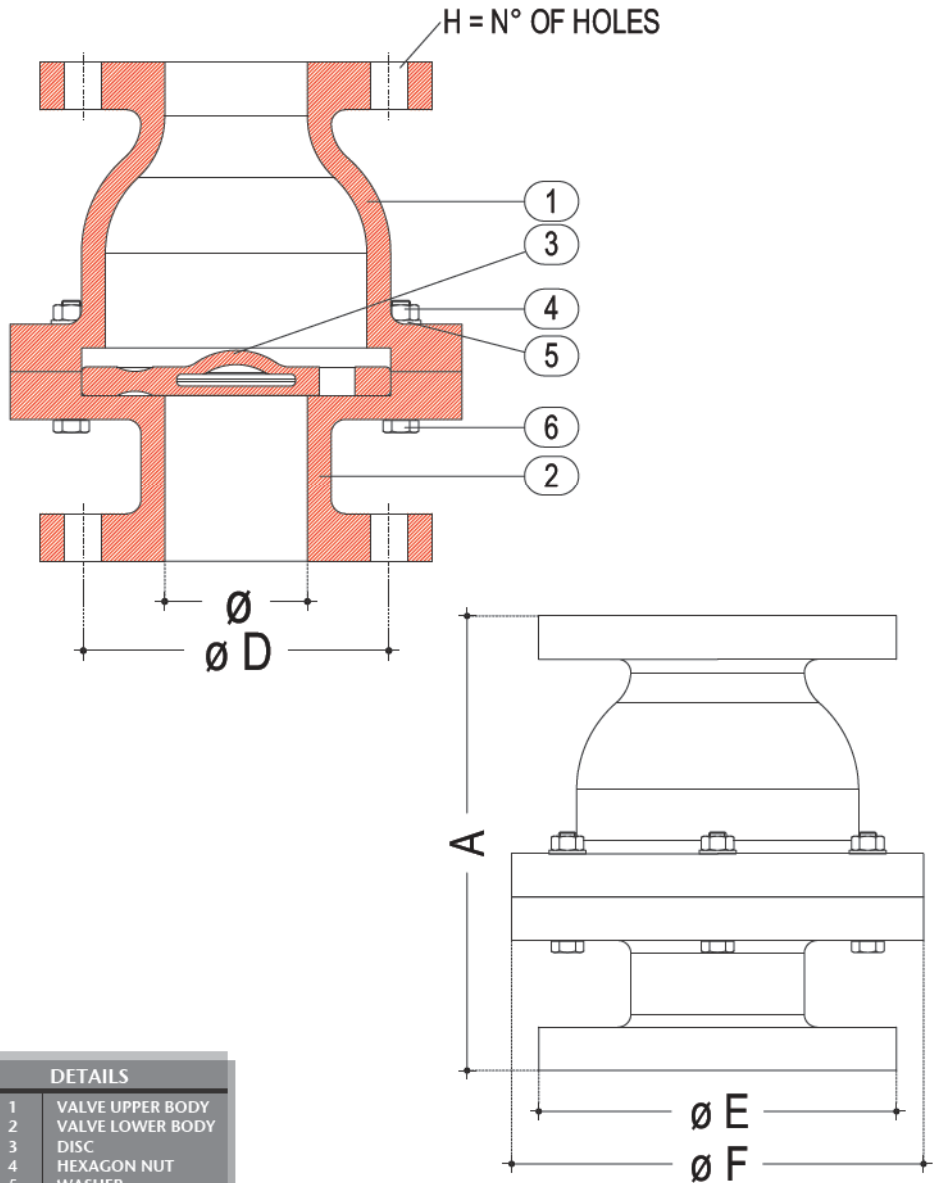
- single effect acting - fail to close (air to open)
- single effect acting - fail to open (air to close)
- double effect acting - fail to open & fail to close

Single effect acting actuators are fitted by an extractable handwheel for security.

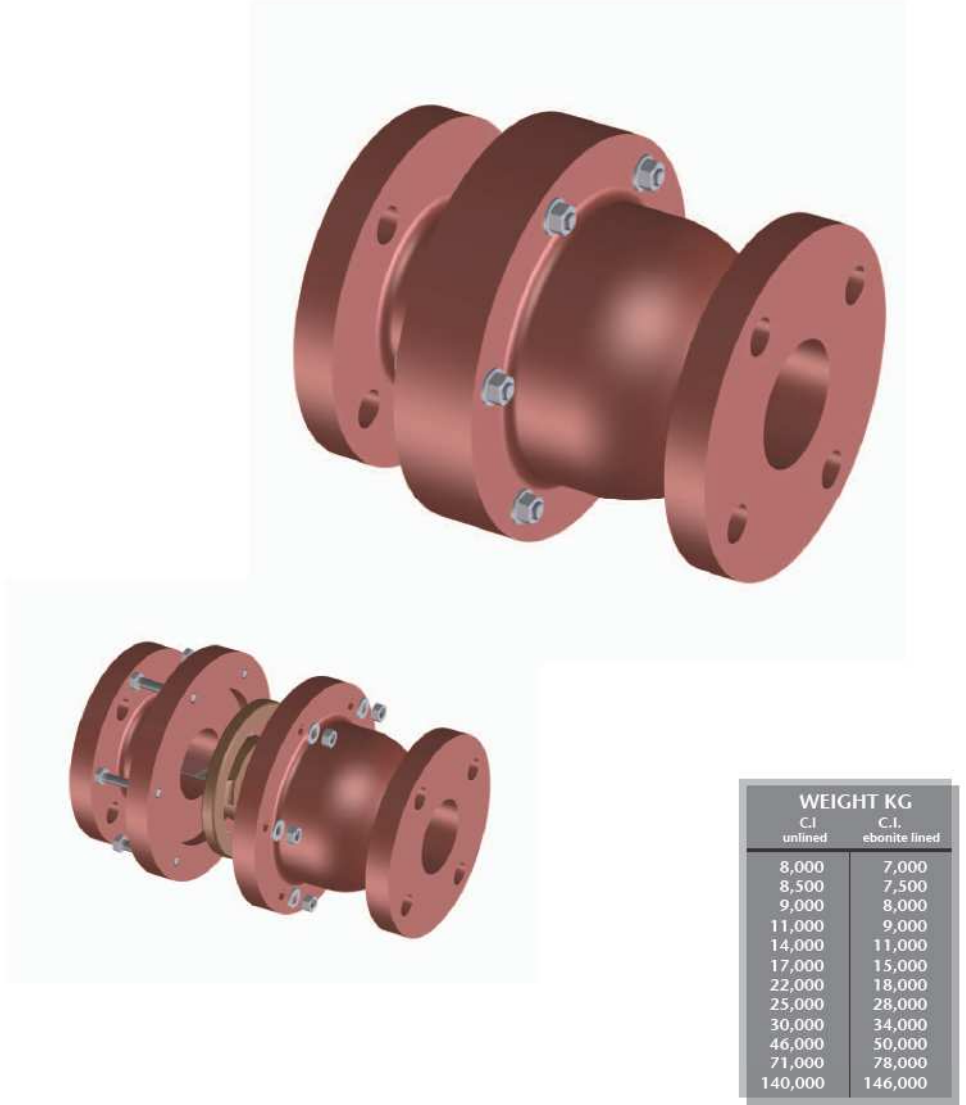


Model GS45 HW

CHECK VALVES



DETAILS	
1	VALVE UPPER BODY
2	VALVE LOWER BODY
3	DISC
4	HEXAGON NUT
5	WASHER
6	HEXAGON BOLT



WEIGHT KG	
C.I. unlined	C.I. ebonite lined
8,000	7,000
8,500	7,500
9,000	8,000
11,000	9,000
14,000	11,000
17,000	15,000
22,000	18,000
25,000	28,000
30,000	34,000
46,000	50,000
71,000	78,000
140,000	146,000

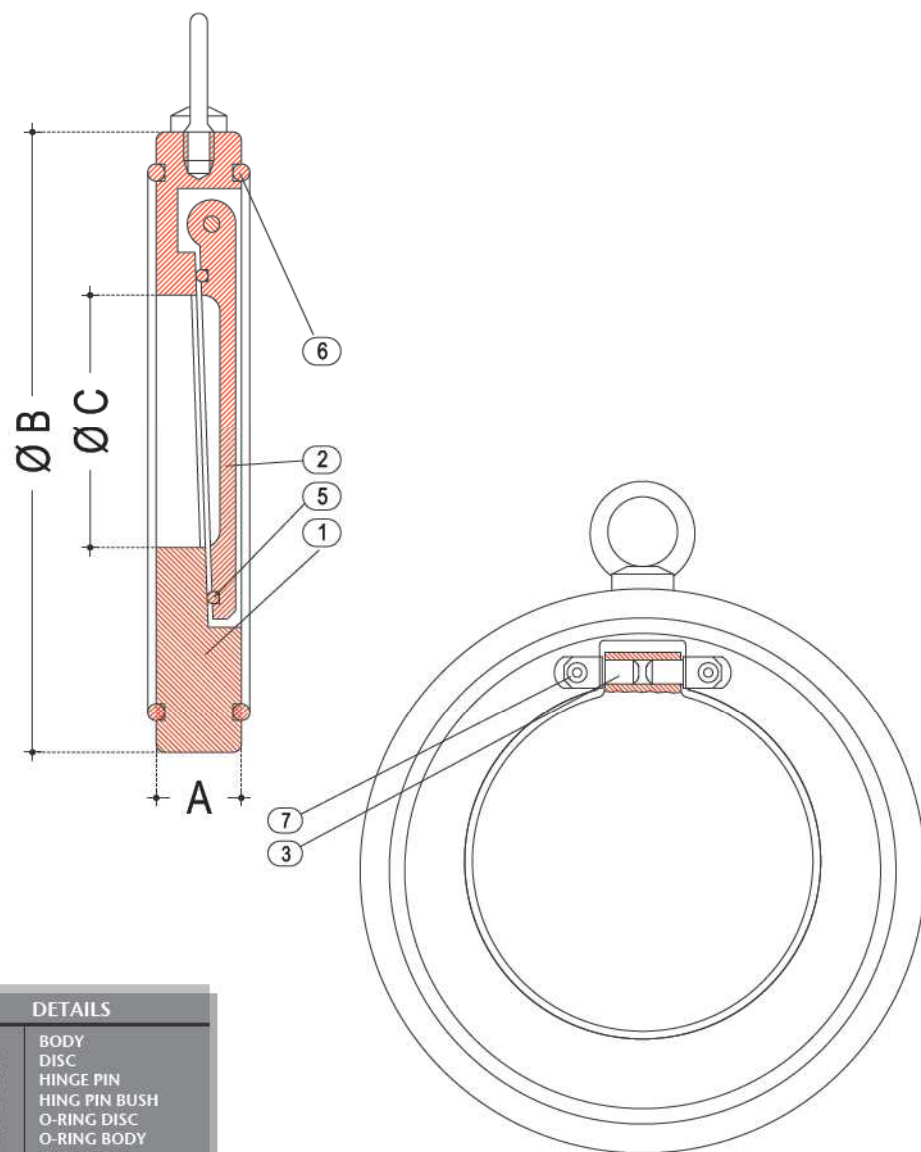
DIMENSIONS C.I. UNLINED					
$\emptyset$	A	E	F	D	
20	150	105	140	75	
25	150	115	140	85	
30	170	140	160	100	
40	195	150	175	110	
50	210	165	190	125	
65	230	185	210	145	
80	245	200	260	160	
100	245	220	300	180	
125	305	250	340	210	
150	337	285	385	240	
200	410	340	450	295	
250	560	395	520	350	

DIMENSIONS C.I. EBONITE LINED					
$\emptyset$	A	E	F	D	
20	150	105	140	75	
25	150	115	140	85	
30	170	140	160	100	
40	195	150	175	110	
50	210	165	190	125	
65	230	185	210	145	
80	245	200	260	160	
100	245	220	300	180	
125	305	250	340	210	
150	337	285	385	240	
200	410	340	450	295	
250	560	395	520	350	

TEST PRESSURE IN BAR	
PRESSURE RATING	Pn7
HYD SHELL	11
SEAT	7
AIR SEAT	-

Model GS80 REG

WAFER CHECK VALVES



DETAILS

1	BODY
2	DISC
3	HINGE PIN
4	HINGE PIN BUSH
5	O-RING DISC
6	O-RING BODY
7	CSK SCREW

TEST PRESSURE IN BAR

CLASS	Pn10	PN16	ANSI150
HYD SHELL	15	24	30
SEAT	11	16	22
AIR SEAT	-	-	-

WEIGHT KG

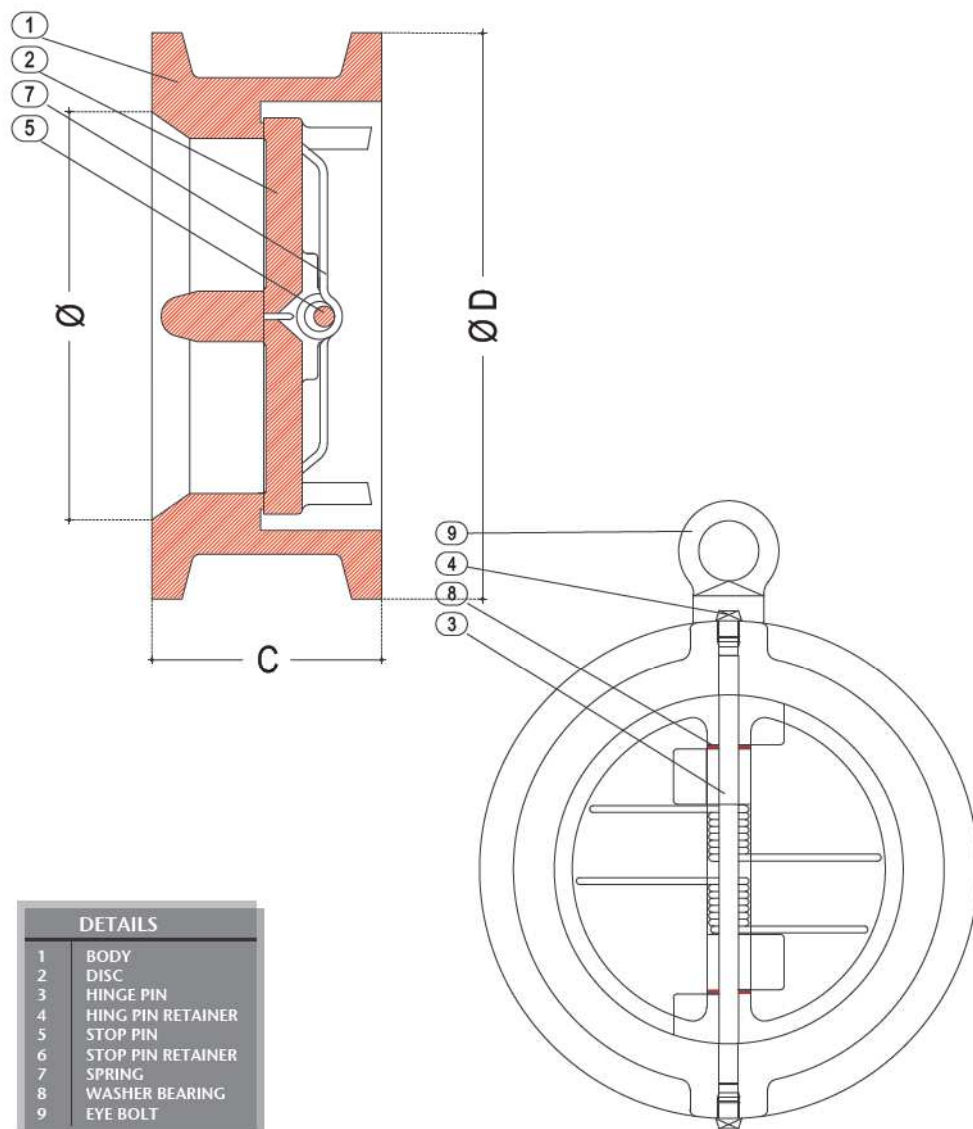
0,60
0,70
0,90
1,20
1,50
2,40
3,40
4,60
7,50
13,10
20,40
32,00
48,00
63,00
87,00
130,00
240,00
310,00
445,00
640,00
1.075,00
1.700,00
2.650,00

DIMENSIONS

DN	A	B PN 10	B PN 16	B ANSI 150	Ø C
32	14	84	84	76	17
40	14	95	95	86	22
50	14	109	109	10	32
65	14	129	129	124	40
80	14	144	144	137	54
100	18	164	164	175	70
125	18	195	195	197	92
150	20	220	220	222	112
200	22	275	275	279	154
250	26	330	332	339	200
300	32	380	387	409	240
350	38	440	447	450	270
400	44	490	495	514	310
450	50	540	557	548	360
500	56	595	617	605	405
600	62	695	734	715	486
700	89	#	#	828,5	510
800	102	#	#	937	610
900	127	#	#	1045	700
1000	146	#	#	1159	770
1200	172	#	#	1381	965
1400	203	#	#	1603	1100
1600	229	#	#	1724	1250

Model GS81 REG

DUAL PLATE WAFER CHECK VALVES



DETAILS	
1	BODY
2	DISC
3	HINGE PIN
4	HINGE PIN RETAINER
5	STOP PIN
6	STOP PIN RETAINER
7	SPRING
8	WASHER BEARING
9	EYE BOLT



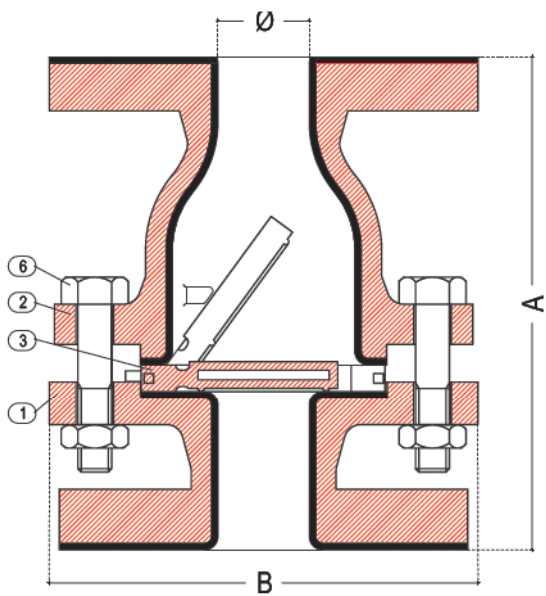
TEST PRESSURE IN BAR			
CLASS	Pn10	PN16	ANSI150
HYD SHELL	15	24	30
SEAT	11	16	22
AIR SEAT	-	-	-

WEIGHT KG
1,50
2,40
3,80
5,00
6,80
8,00
15,00
27,00
34,00

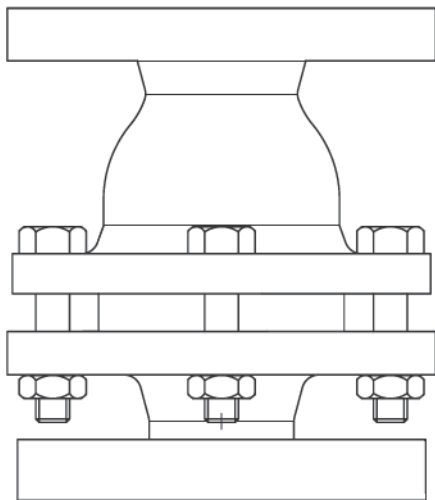
DIMENSIONS			
DN	C	D PN 10-16	D ANSI 150
50	54	109	#
65	54	129	#
80	57	144	#
100	64	164	#
125	70	194	#
150	76	220	#
200	95	275	#
250	108	330	#
300	144	380	#

Model GS45 REG

NON RETURN CHECK VALVES



DETAILS	
1	BODY
2	END PIECE
3	DISC
6	BOLT/NUTS



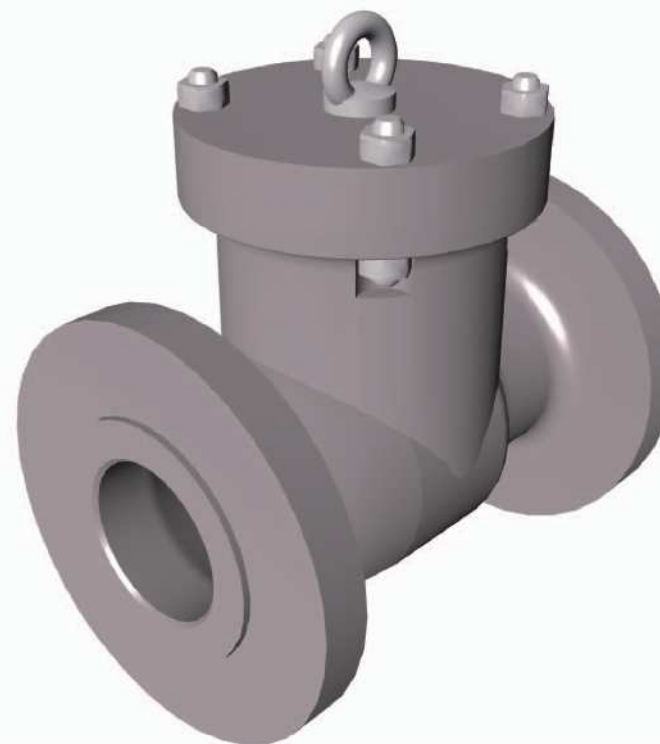
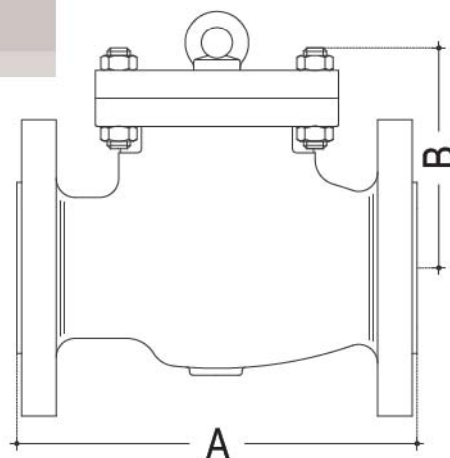
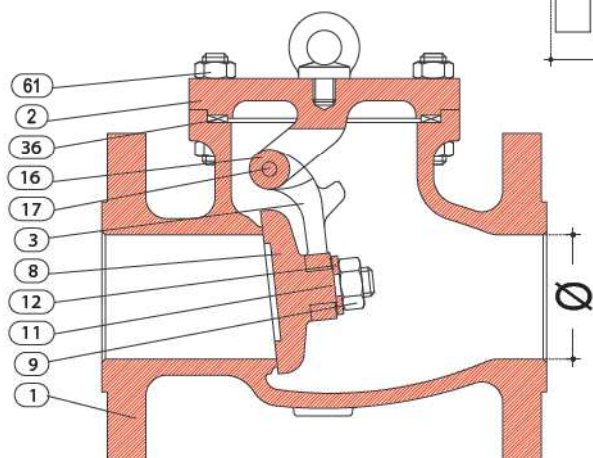
TEST PRESSURE IN BAR	
PRESSURE RATING	Pn7
HYD SHELL	11
SEAT	7
AIR SEAT	-

WEIGHT KG	
4,00	
7,00	
8,50	
14,00	
20,00	
34,00	
56,00	
103,00	
190,00	
310,00	

DIMENSIONS			
DN	A UNLINED	A RUBBER LINED	B
25	144	150	124
40	174	180	144
50	194	200	166
65	234	240	220
80	254	260	220
100	292	300	270
150	392	400	322
200	492	500	396
250	590	600	500
300	690	700	554

Model GS82 REG

SWING CHECK VALVES



**DIMENSIONS
CLASS 300**

DN	A	B
40	241	95
50	267	120
65	292	132
80	318	150
100	356	170
125	400	210
150	444	210
200	533	255
250	622	305
300	711	350
350	838	390
400	864	530
450	978	590
500	1016	655
600	1346	790

**WEIGHT KG
CLASS 300**

40	10,50
50	18,00
65	21,00
80	34,00
100	54,00
125	75,00
150	106,00
200	160,00
250	254,00
300	355,00
350	620,00
400	680,00
450	1.250,00
500	1.460,00
600	2.055,00

TEST PRESSURE IN BAR

CLASS	150	300	600	Pn10
HYD SHELL	30	77	155	15
SEAT	22	57	113	10
MIN. SEAT	5,5	14	28	-

**DIMENSIONS
CLASS 600**

DN	A	B
50	292	138
65	330	145
80	356	165
100	432	190
125	508	220
150	559	255
200	660	300
250	787	335
300	838	395

**WEIGHT KG
CLASS 600**

50	25,00
65	32,00
80	62,00
100	115,00
125	165,00
150	210,00
200	355,00
250	580,00
300	725,00

**DIMENSIONS
CLASS PN 10**

DN	A	B
50	200	140
65	240	142
80	260	165
100	300	175
125	350	198
150	400	228
200	500	245
250	600	302
300	700	365

**WEIGHT
PN 10**

50	16,00
65	21,00
80	27,00
100	45,00
125	57,00
150	80,00
200	125,00
250	185,00
300	260,00

DETAILS	
1	BODY
2	COVER
3	HINGE
8	DISC
9	DISC NUT
11	PIN-DISC NUT
12	DISC WASHER
16	SPACER WASHER
17	HINGE PIN
36	GASKET
61	STUD/NUT

**DIMENSIONS
CLASS 150**

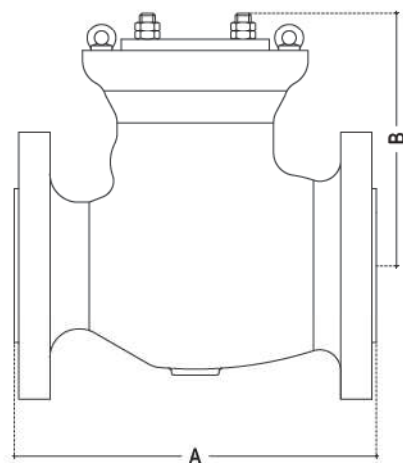
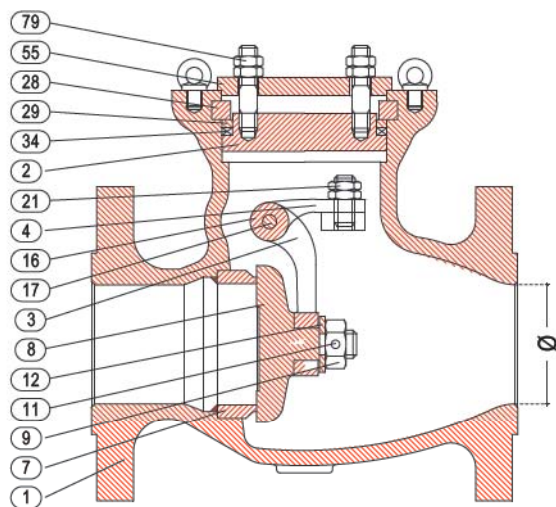
DN	A	B
40	165	95
50	203	115
65	216	120
80	241	135
100	292	150
125	330	170
150	356	195
200	495	220
250	622	260
300	698	310
350	787	365
400	864	505
450	978	565
500	978	601
600	1295	740

**WEIGHT KG
CLASS 150**

40	6,80
50	11,50
65	17,00
80	25,00
100	41,00
125	56,00
150	73,00
200	103,00
250	160,00
300	224,00
350	350,00
400	472,00
450	535,00
500	870,00
600	1.090,00

Model GS83 REG

SWING CHECK VALVES



DETAILS

1	BODY
2	COVER
3	HINGE
4	BRACKET
7	SEAT RING
8	DISC WASHER
9	DISC NUT
11	SPLIT-PIN, DISC NUT
12	WASHER - DISC
16	SPACER WASHER
17	HINGE PIN
21	STUD/LOCK NUT
28	SEGMENT RING
29	SUPPORT RING
34	PRESSURE SEAL RING
55	COVER RETAINER
79	STUD/NUT/LK NUT
	COVER TO COVER RET

DIMENSIONS CLASS 900

DN	A	B
80	381	235
100	457	265
125	559	310
150	610	325
200	737	440
250	838	535
300	965	630

WEIGHT KG CLASS 900

80	97,00
100	110,00
125	135,00
150	150,00
200	305,00
250	750,00
300	1.040,00

DIMENSIONS CLASS 1500

DN	A	B
50	368	180
65	419	195
80	470	235
100	546	265
125	673	310
150	705	325
200	832	460
250	991	535
300	1130	630

WEIGHT KG CLASS 1500

50	50,00
65	60,00
80	89,00
100	130,00
125	165,00
150	210,00
200	565,00
250	1.000,00
300	1.420,00

TEST PRESSURE IN BAR

CLASS	900	1500	2500
HYD SHELL	200	384	647
SEAT	169	282	474
AIR SEAT	42	70,5	118,5

DIMENSIONS CLASS 2500

DN	A	B
50	279	175
80	368	230
100	457	260
150	610	330
200	762	410

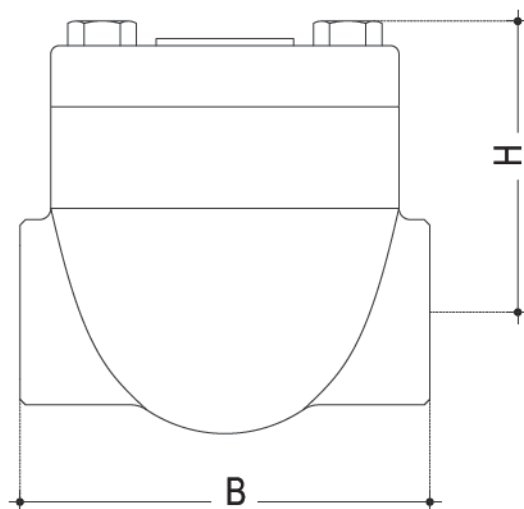
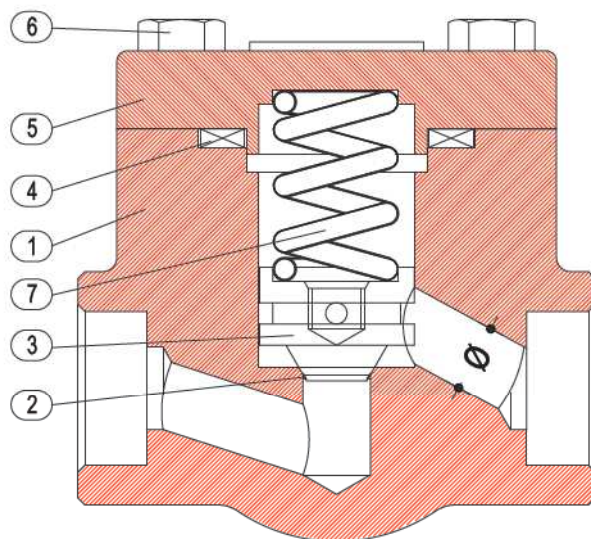
WEIGHT KG CLASS 2500

50	43,00
80	91,00
100	125,00
150	274,00
200	480,00



Model GS85 SW/BW/SE

FORGED CHECK VALVES



DETAILS	
1	BODY
2	SEAT RING
3	DISC
4	GASKET
5	COVER
6	STUD/NUT
7	SPRING



DIMENSIONS CLASS 800				
DN	B Sb	B Rb	H Sb	H Rb
8	88	88	54	54
10	88	88	54	54
15	92	88	66	54
20	106	92	72	66
25	140	106	102	72
32	140	140	108	102
40	170	140	108	102
50	-	170	-	108

WEIGHT KG CLASS 800 Sb	
8	2,03
10	2,03
15	2,03
20	2,67
25	6,20
32	8,00
40	8,90

WEIGHT KG CLASS 800 Rb	
8	1,70
10	1,62
15	1,62
20	2,03
25	2,67
32	6,00
40	6,20
50	8,90

DIMENSIONS CLASS 1500		
DN	B	H
15	88	54
20	92	68
25	106	72
40	128	102
50	140	112

WEIGHT KG CLASS 1500	
15	1,60
20	2,40
25	2,90
40	9,00
50	9,60

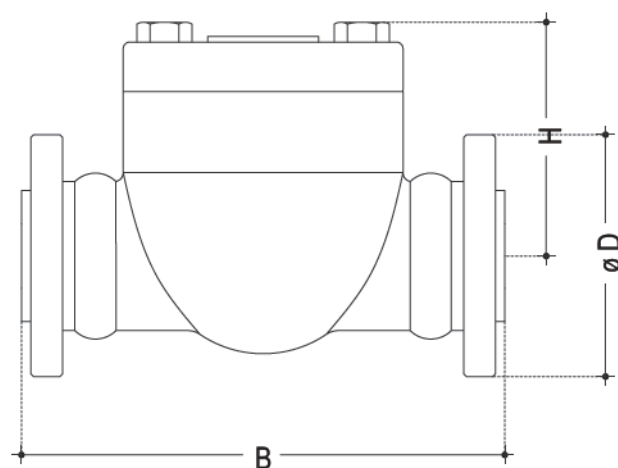
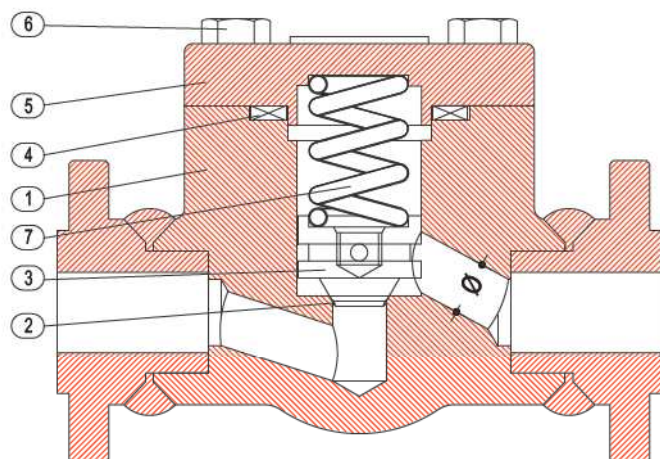
TEST PRESSURE IN BAR			
CLASS	800	1500	2500
HYD SHELL	207	384	647
SEAT	152	282	474
AIR SEAT	6,9	6,9	6,9

DIMENSIONS CLASS 2500		
DN	B	H
15	106	72
20	128	102
25	140	112

WEIGHT KG CLASS 2500	
15	2,90
20	6,70
25	9,60

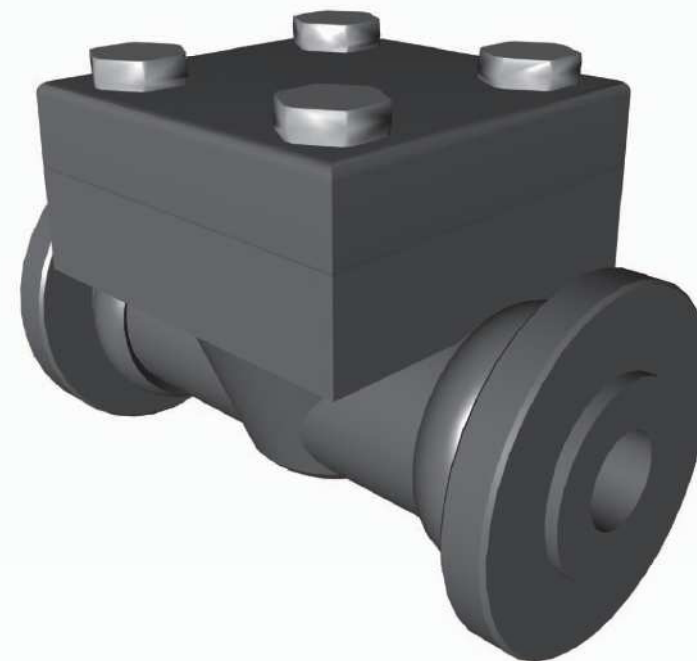
Model GS86 REG

FORGED CHECK VALVES



DETAILS

1	BODY
2	SEAT RING
3	DISC
4	GASKET
5	COVER
6	STUD/NUT
7	SPRING



TEST PRESSURE IN BAR

CLASS	150	300	600
HYD SHELL	30	77	155
SEAT	22	57	113
AIR SEAT	6,9	6,9	6,9

DIMENSIONS CLASS 150

DN	B	H	Ø D
15	152	54	89
20	178	66	99
25	203	72	108
32	216	102	118
40	229	102	127
50	267	108	152,5

WEIGHT KG CLASS 150

2,50
3,00
4,50
9,00
9,20
13,50

DIMENSIONS CLASS 300

DN	B	H	Ø D
15	152	54	95,3
20	178	66	117,4
25	203	72	124
32	216	102	133,5
40	229	102	155,5
50	267	108	165,1

WEIGHT KG CLASS 300

2,80
4,00
6,00
12,00
12,50
15,00

DIMENSIONS CLASS 600

DN	B	H	Ø D
15	165	54	95,3
20	190	66	117,4
25	216	72	124
32	229	102	133,5
40	241	102	155,5
50	292	108	165,1

WEIGHT KG CLASS 600

3,50
5,20
7,20
13,50
14,00
19,50