

CHECK VALVE



ABOUT US

FBV Inc. is an ISO 9001 certified company specializing in manufacturing industrial valves including ball valves, gate valves, globe valves, check valves, plug valves and butterfly valves in carbon steel, stainless steel, duplex stainless and alloy materials. Our products conform to the latest industry standards in accordance to ANSI, ASME and API.

FBV today has over 600,000 square feet of manufacturing facilities. Through its conviction to provide only the finest quality products and services to match the need of our customers, FBV has now established itself as a serious player in the valve business.

FBV INC has sold worldwide in North America, Europe, South America, South Asia, Africa and the Middle East. We consider product quality and customer satisfaction as our highest priority. We look forward to new customer relationships by providing value, quality, customer service, honesty, integrity and the commitment to maintain product consistency with each and every order.

MISSION STATEMENT

We at FBV, Inc. commit to taking ACTION:

- Adopt the latest technology to take the product quality to the next level;
- Consistently provide on-time services to our customers;
- Train and develop talented people with strong work ethics to deliver effective performance;
- Improve and enhance engineering designs to ensure product performance;
- Optimize management systems and increase productivity;
- Never forget our customers and employee needs.



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INTRODUCTION

Check valve is installed on the pipeline to prevent the media reverse flow and ensure one-way flow of media channels only.



Swing Check Valve

Swing check valve is provided with single disc. With the force of medium, the disc will automatically open or close around the fixed pin shaft. When the media stops the flow, the disc will be closed under its own force; No manual intervention is involved in the whole process.

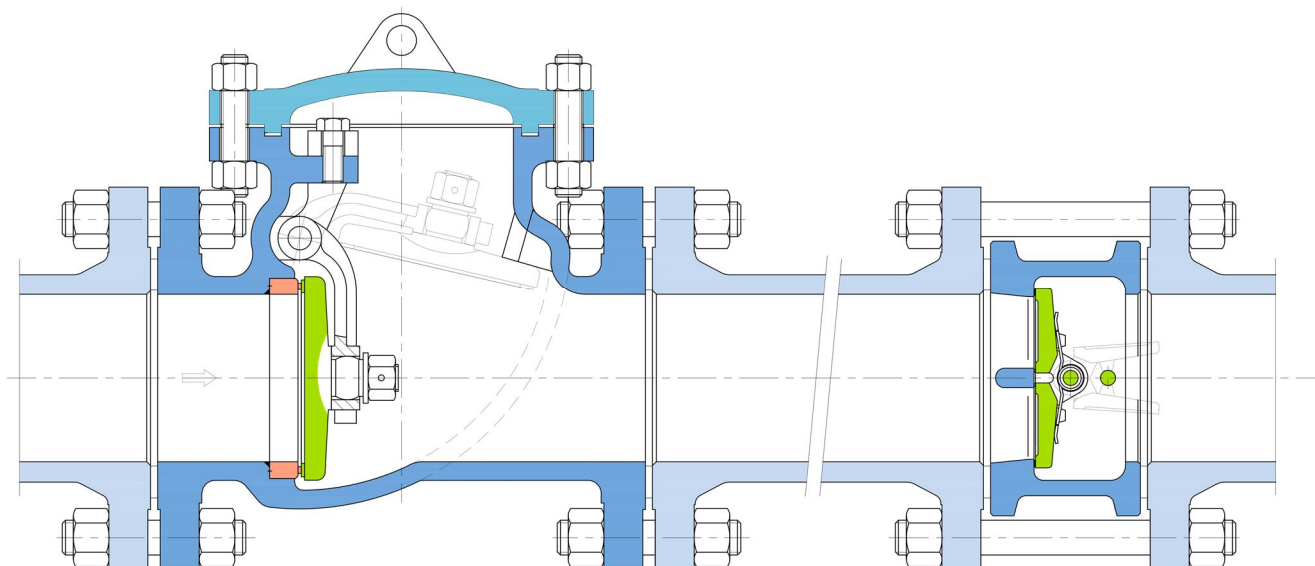
FBV swing check valve offers simple structure, less parts, convenient maintenance and repair and low failure rate. The full open disc design is applied to provide a larger opening flow area after disc opening, small fluid resistance and large valve flow coefficient.

Counter weight or damp structure can be applied to reduce the impact of water hammer while disc opening.

Dual Wafer Check Valve

Dual wafer check valve has dual disc. Under the force of medium, the disc is rotated around the same shaft pin, and it closes automatically with the force of spring while the medium stops flow.

FBV dual wafer check valve offers easy assembly and maintenance as well as quick open and close. Single disc wafer, dual wafer, axial flow, quick opening and slow closing action with damping check are available based on different request of service.



CHECK VALVE

SCOPE OF PRODUCTS

Legends:

A – Swing Type

B – Dual Plate Type

C – Lift Type

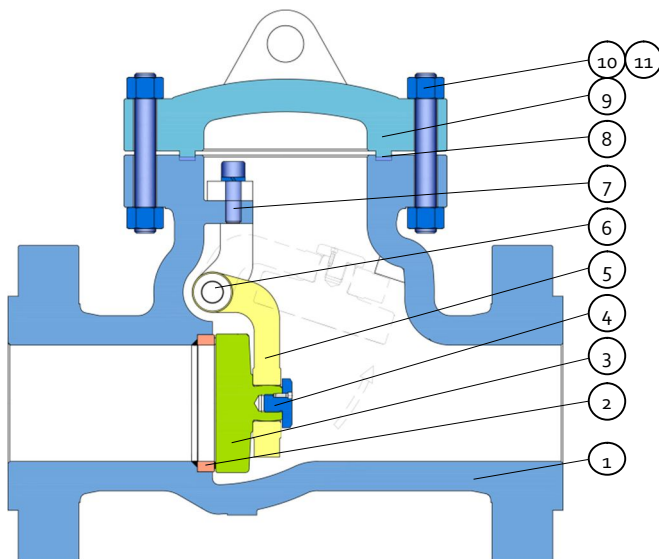
D – Not Usually Required

Size in/mm	Class 150 PN 20	Class 300 PN 50	Class 600 PN 100	Class 900 PN 150	Class 1500 PN 250	Class 2500 PN 420
2 50	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
2 1/2 65	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
3 80	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
4 100	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D
6 150	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
8 200	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
10 250	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
12 300	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
14 350	A,B,C	A,B,C	A,B,C	A,B,C		
16 400	A,B,C	A,B,C	A,B,C	A,B,C		
18 450	A,B,C	A,B,C	A,B,C	A,B		
20 500	A,B,C	A,B,C	A,B,C	A,B		
22 550	A,B,C,D	A,B,C,D	A,B,C,D	A,B,D		
24 600	A,B,C	A,B,C	A,B,C	A,B		
26 650	A,B,D	A,B,D	A,B,D	A,B,D		
28 700	A,B,D	A,B,D	A,B,D	A,B,D		
30 750	A,B,D	A,B,D	A,B,D			
32 800	A,B,D	A,B,D	A,B,D			
34 850	A,B,D	A,B,D	A,B,D			
36 900	A,B,D	A,B,D	A,B,D			
38 950	B,D	B,D	B,D			
40 1000	B,D	B,D	B,D			
42 1050	B,D	B,D	B,D			
48 1200	B,D	B,D	B,D			
56 1400	B,D	B,D	B,D			
60 1500	B,D	B,D	B,D			

1. The sizes listed above are normal diameters. Contact our sales representative if any other dimensions are requested.

CHECK VALVE

OVERVIEW (Swing Type)



STANDARDS

Design & Manufacture	BS 1868, ASME B16.34 API 6D
Face-to-face	ASME B16.10
End Dimension	ASME B16.5 (RF, RTJ), ASME B16.47 (RF, RTJ) MSS SP-44 (NPS 22 Only) ASME B16.25 (BW)
Test & inspection	API 598, API 6D, ISO 5208

TYPICAL MATERIALS

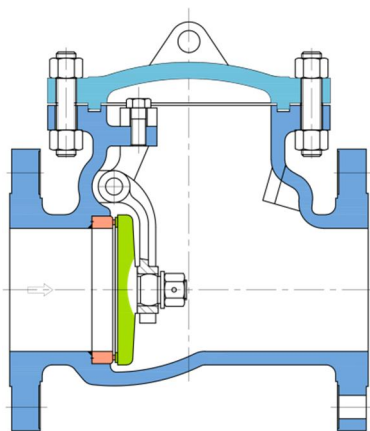
Body,	(Casting) A216 WCB, A217 WC6, WC9,
Cover,	A351 CF3, CF8, CF3M, CF8M,
Disc	A995 4A, 5A, A352 LCB, LCC, LC2, Monel, Inconel, Hastelloy

Seal Surface	13Cr/SS304/SS316/STL, HNBR, FKM
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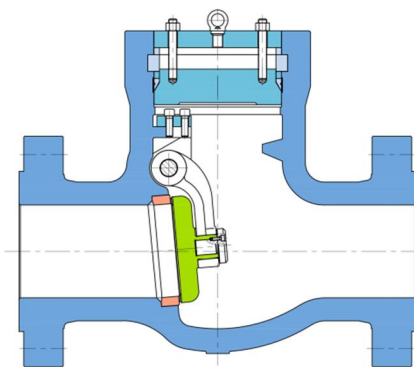
Part List

1 Body	7 Screw
2 Seat Ring	8 Gasket
3 Disc	9 Cover
4 Disc Nut	10 Nut
5 Hinge	11 Stud
6 Pin	

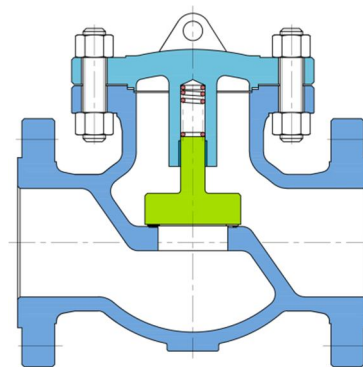
Typical Check Valve



Bolted Cover Swing Check Valve



Pressure Seal Cover Swing Check Valve

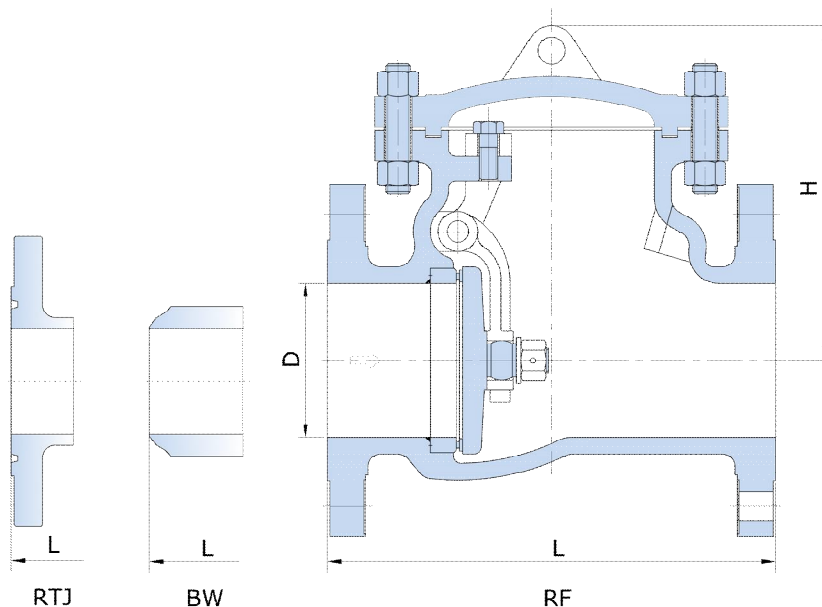


Bolted Cover Lift Check Valve

CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 150 (PN 20)



ASME CLASS 150 (PN 20)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	8	8.5	8	5.5	37
50	51	203	216	203	140	17
2 1/2	2 1/2	8.5	9	8.5	6.3	44
65	64	216	229	216	160	20
3	3	9.5	10	9.5	7.1	53
80	80	241	254	241	180	24
4	4	11.5	12	11.5	8.27	84
100	102	292	305	292	210	38
6	6	14	14.5	14	11.42	198
150	152	356	368	356	290	90
8	8	19.5	20	19.5	14.17	286
200	203	495	508	495	360	130
10	10	24.5	25	24.5	15.75	430
250	252	622	635	622	400	195
12	12	27.48	28	27.48	18.11	661
300	305	698	711	698	460	300
14	14	31	31.5	31	20.47	804
350	337	787	800	787	520	365
16	15.24	34	34.5	34	24.41	1178
400	387	864	876	864	620	535
18	17.24	38.5	39	38.5	27.17	1652
450	438	978	991	978	690	750
20	19.25	38.5	39	38.5	28.35	1949
500	489	978	991	978	720	885
24	23.22	51	51.5	51	29.13	2533
600	590	1295	1308	1295	740	1150
28	27.24	57	-	57	33.46	3822
700	692	1448	-	1448	850	1735
30	29.25	60	-	60	39.37	4515
750	743	1524	-	1524	1000	2050
36	35.23	77	-	77	44.88	4626
900	895	1956	-	1956	1140	2100

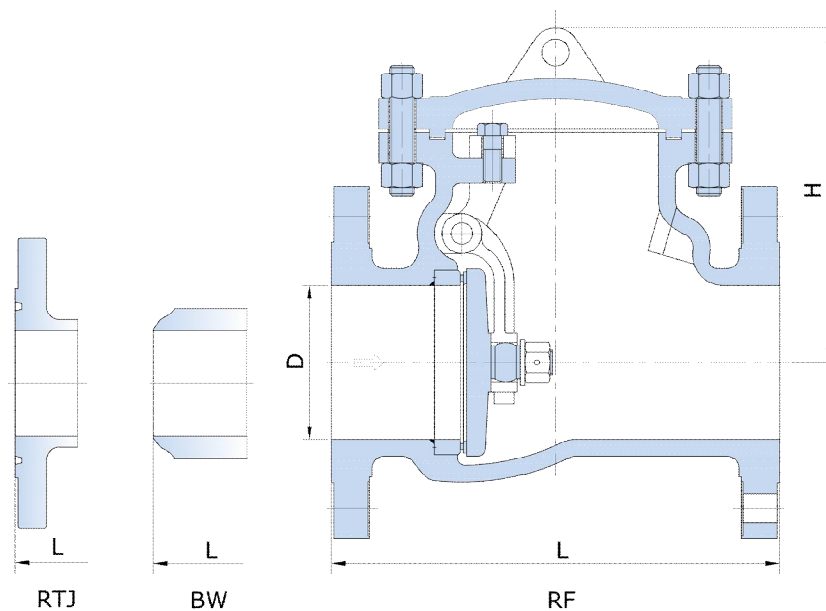
The dimension and weights are for reference only and subject to change without notice.

1. For more size or dimensional information, please contact our sales representative.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 300 (PN 50)



ASME CLASS 300 (PN 50)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	10.5	11.14	10.5	6.1	51
50	51	267	283	267	155	23
2 1/2	2 1/2	11.5	12.13	11.5	7.09	81
65	64	292	308	292	180	37
3	3	12.52	13.15	12.52	7.87	101
80	80	318	334	318	200	46
4	4	14	14.65	14	8.66	156
100	102	356	372	356	220	71
6	6	17.5	18.11	17.5	12.4	256
150	152	444	460	444	315	116
8	8	21	21.61	21	15.16	445
200	203	533	549	533	385	202
10	10	24.5	25.12	24.5	16.93	652
250	252	622	638	622	430	296
12	12	28	28.62	28	19.29	943
300	305	711	727	711	490	428
14	14	33	33.62	33	21.65	1284
350	337	838	854	838	550	583
16	15.24	34	34.65	34	24.61	1661
400	387	864	880	864	625	754
18	17	38.5	39.13	38.5	26.38	2059
450	432	978	994	978	670	935
20	19	40	40.75	40	29.13	2544
500	483	1016	1035	1016	740	1155
24	23	53	53.86	53	31.89	3101
600	584	1346	1368	1346	810	1408
28	27	59	60	59	34.25	3789
700	686	1499	1524	1499	870	1720
32	29	62.76	63.74	62.76	38.98	4141
800	737	1594	1619	1594	990	1880
36	35	82	82.64	82	45.67	2846
900	889	2083	2099	2083	1160	2200

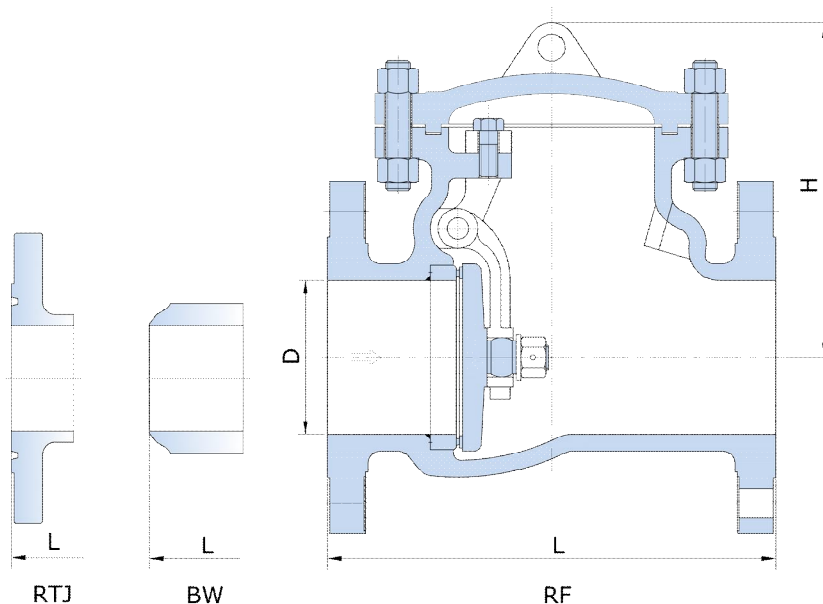
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 600 (PN 100)



ASME CLASS 600 (PN 100)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	11.5	11.61	11.5	6.7	57
50	51	292	295	292	170	26
2 1/2	2 1/2	13	13.11	13	7.4	70
65	64	330	333	330	188	32
3	3	14	14.13	14	9.37	108
80	80	356	359	356	238	49
4	4	17	17.13	17	11.42	189
100	102	432	435	432	290	86
6	6	22	22.13	22	14	555
150	152	559	562	559	355	252
8	7.87	26	26.10	26	16.34	945
200	200	660	663	660	415	429
10	9.76	31	31.1	31	18.82	1227
250	248	787	790	787	478	557
12	11.77	33	33.11	33	21.26	1467
300	299	838	841	838	540	670
14	12.87	35	35.12	35	22.83	2079
350	327	889	892	889	580	944
16	14.76	39	39.13	39	26.38	2863
400	375	991	994	991	670	1300
18	16.5	43	43.11	43	30.94	3877
450	419	1092	1095	1092	786	1760
20	18.27	47	47.24	47	33.27	4846
500	464	1194	1200	1194	845	2200
24	22	55	55.39	55	37	6308
600	559	1397	1407	1397	940	2864
28	25.51	63	63.5	63	41.34	7048
700	648	1600	1613	1600	1050	3200
32	29	70	70.63	70	45.67	8238
800	737	1778	1794	1778	1160	3740
36	32.64	82	82.64	82	50	9912
900	829	2083	2099	2083	1270	4500

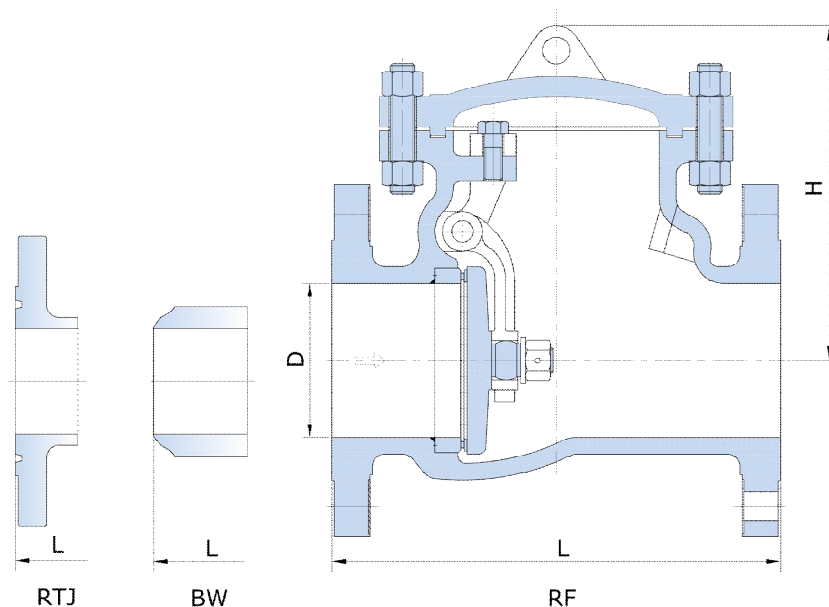
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 900 (PN 150)



ASME CLASS 900 (PN 150)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	14.5	7.87	121
50	48	368	371	368	200	55
2 1/2	2.24	16.5	16.61	16.5	10.24	165
65	57	419	422	419	260	75
3	2.87	15	15.12	15	11.22	220
80	73	381	384	381	285	100
4	3.86	18	18.11	18	12.6	308
100	98	457	460	457	320	140
6	5.75	24	24.13	24	16.54	643
150	146	610	613	610	420	292
8	7.52	29	29.13	29	20.47	1211
200	191	737	740	737	520	550
10	9.37	33	33.11	33	21.26	1542
250	238	838	841	838	540	700
12	11.1	38	38.11	38	23.23	1905
300	282	965	968	965	590	865
14	12.24	40.51	40.91	40.51	25.2	2753
350	311	1029	1039	1029	640	1250
16	14	44.5	44.88	44.5	27.56	3855
400	356	1130	1140	1130	700	1750
18	15.75	48	48.5	48	29.53	4515
450	400	1219	1232	1219	750	2050
20	17.52	52	52.52	52	31.89	5396
500	445	1321	1334	1321	810	2450
24	21	61	61.73	61	38.58	6057
600	533	1549	1568	1549	980	2750

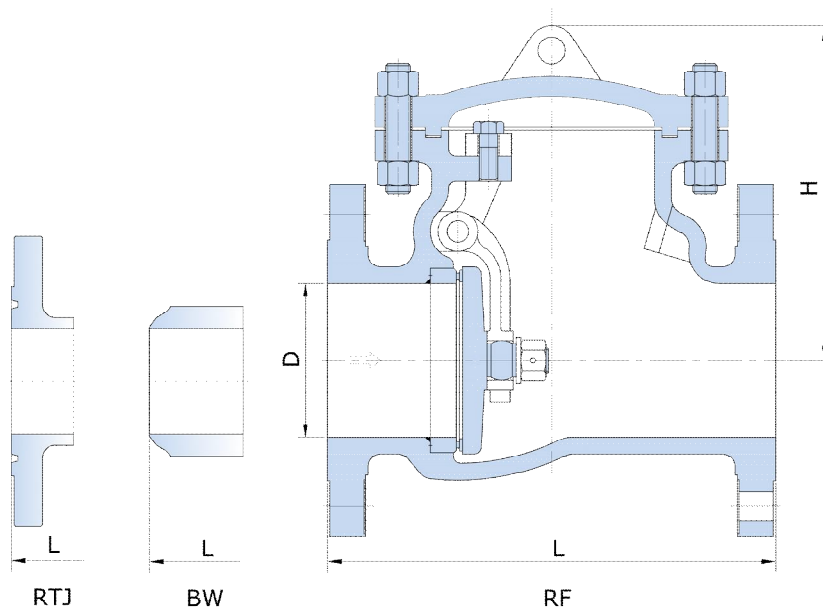
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 1500 (PN 250)



ASME CLASS 1500 (PN 250)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	14.5	7.87	143
50	48	368	371	368	200	65
2 1/2	2.24	16.5	16.61	16.5	10.63	176
65	57	419	422	419	270	80
3	2.76	18.5	18.62	18.5	11	264
80	70	470	473	470	280	120
4	3.58	21.5	21.61	21.5	13.78	419
100	91	546	549	546	350	190
6	5.35	27.76	28	27.76	18.5	1057
150	136	705	711	705	470	480
8	7	32.76	33.15	32.76	22.05	1674
200	178	832	842	832	560	760
10	8.74	39	39.41	39	25.6	2313
250	222	991	1001	991	650	1050
12	10.35	44.5	45.12	44.5	28.74	3172
300	263	1130	1146	1130	730	1440
14	11.38	49.5	50.24	49.5	33.07	3833
350	289	1257	1276	1257	840	1740
16	13	54.5	55.35	54.5	37	5374
400	330	1384	1406	1384	940	2440
18	14.6	60.5	61.38	60.5	41.34	7048
450	371	1537	1559	1537	1050	3200
20	16.38	65.5	66.38	65.5	45.67	8370
500	416	1664	1686	1664	1160	3800
24	19.6	76.5	77.6	76.5	50	9471
600	498	1943	1971	1943	1270	4300

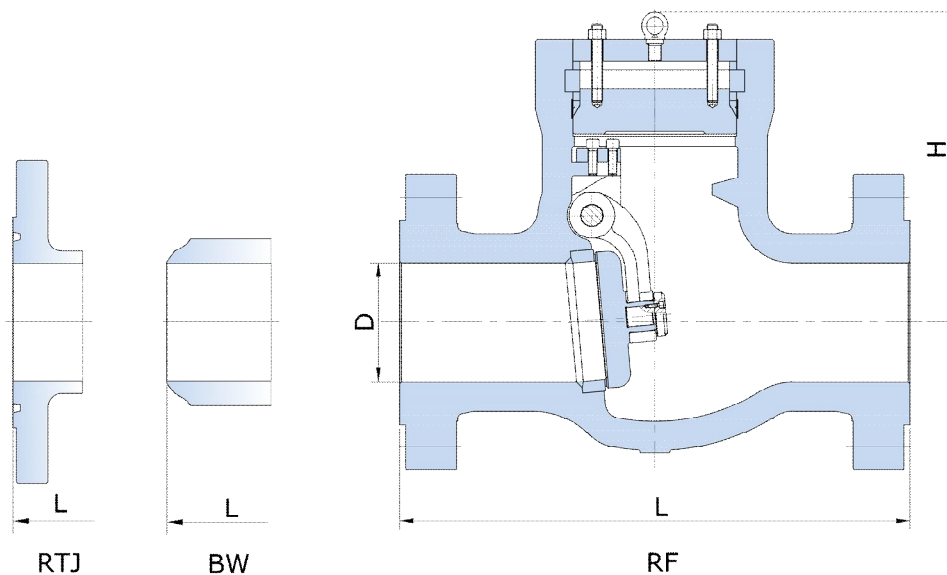
The dimension and weights are for reference only and subject to change without notice.

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CHECK VALVE

DIMENSIONS AND WEIGHTS (Pressure Seal)

ASME CLASS 1500/2500 (PN 250/420)



ASME CLASS 1500 (PN 250)

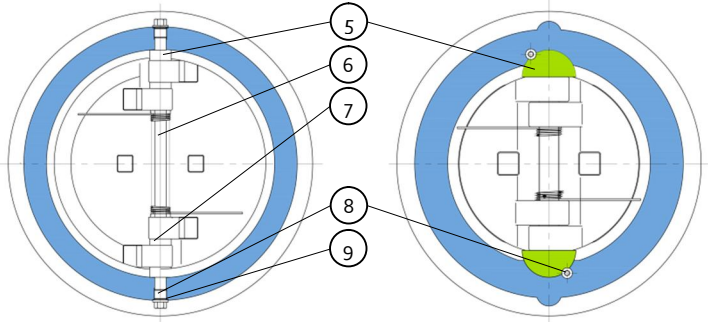
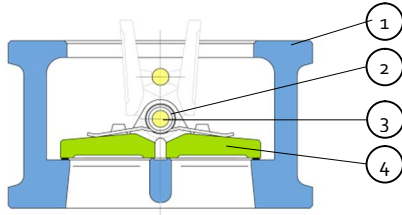
Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	8.5	9.65	62
50	48	368	371	216	245	28
2 1/2	2.24	16.5	16.61	10	10.24	79
65	57	419	422	254	260	36
3	2.76	18.5	18.62	12	11.81	110
80	70	470	473	305	300	50
4	3.58	21.5	21.61	16	13.39	176
100	91	546	549	406	340	80
6	5.35	27.76	28	19	16.93	639
150	136	705	711	483	430	290
8	7	32.76	33.15	28	20.87	1079
200	178	832	842	711	530	490
10	8.74	39	39.41	34	22.44	1652
250	222	991	1001	864	570	750
12	10.35	44.5	45.12	39	25.2	2423
300	263	1130	1146	991	640	1100
14	11.38	49.5	50.24	42	27.56	3084
350	289	1257	1276	1067	700	1400
16	13	54.5	55.35	47	30.31	3524
400	330	1384	1406	1194	770	1600

ASME CLASS 2500 (PN 420)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.5	17.76	17.87	11	9.84	132
50	38	451	454	279	250	60
2 1/2	1.89	20	20.24	13	11	187
65	48	508	514	330	280	85
3	2.24	22.76	23	14.5	11.81	220
80	57	578	584	368	300	100
4	2.87	26.5	26.89	18	13.58	363
100	73	673	683	457	345	165
6	4.37	35.98	36.5	24	17.32	1013
150	111	914	927	610	440	460
8	5.75	40.24	40.87	30	21.06	1982
200	146	1022	1038	762	535	900
10	7.24	50	54.8	36	22.83	2863
250	184	1270	1392	914	580	1300
12	8.62	55.98	56.89	10.94	26	3965
300	219	1422	1445	1040	660	1800

CHECK VALVE

OVERVIEW (Wafer Type)



External Pin Structure

Internal Pin Structure

Part List

- | | |
|----------------|-------------------|
| 1 Body | 6 Pin |
| 2 Spring Seat | 7 Middle Retainer |
| 3 Spring | 8 Screw |
| 4 Disc | 9 Washer |
| 5 End Retainer | |

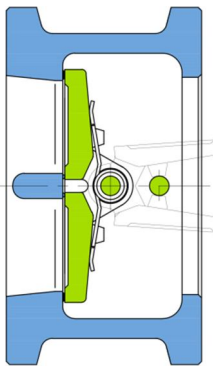
STANDARDS

Design & Manufacture	API 594 ,ASME B16.34 API 6D
Face-to-face	API 594, ASME B16.10
End Dimension	ASME B16.5 (RF) ASME B16.47 (RF) MSS SP-44 (NPS 22 Only)
Test & inspection	API 598, API 6D, ISO 5208

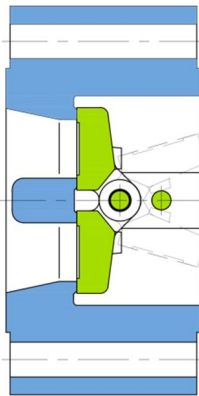
TYPICAL MATERIALS

Body,Disc	A216 WCB, WCC, A217 WC6,WC9 A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A,Monel, Inconel, Hastelloy
Seat	FKM, HNBR, EPDM,
Pin	A276 410, 304, 316,
Spring	Inconel x750

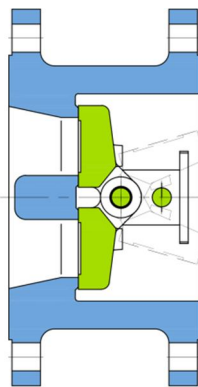
Typical Wafer Check Valve



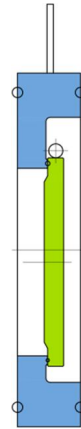
Wafer Type,
Dual Plate



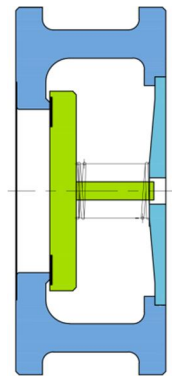
Lug Type,
Dual Plate



Flanged Type,
Dual Plate



Wafer Type,
Single Plate

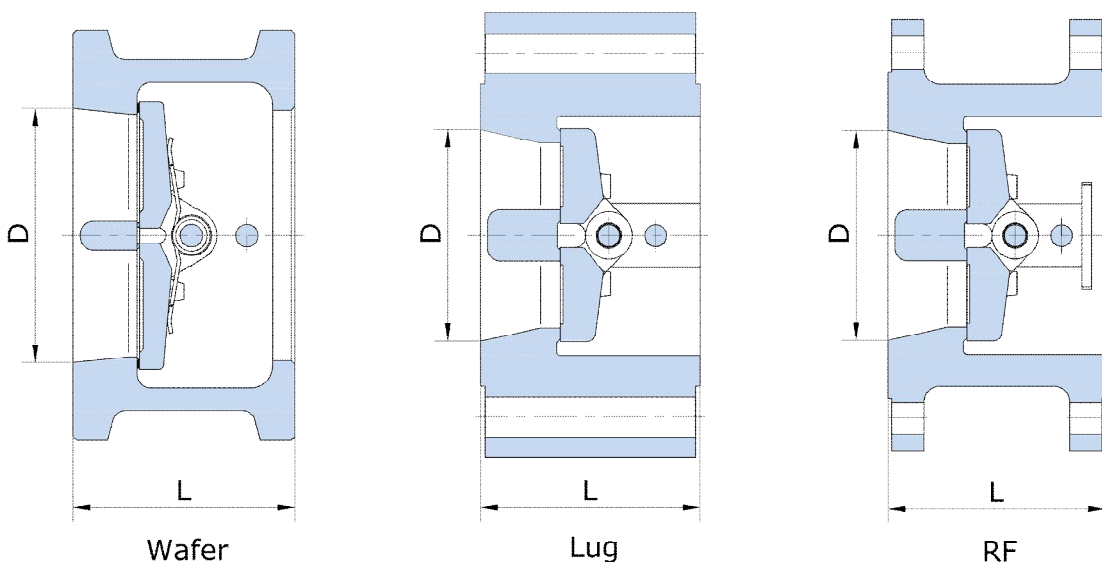


Wafer Type,
Lift Type

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 150 /300(PN 20/50)



ASME CLASS 150 (PN 20)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	4
50	50	60	2
2 1/2	2 1/2	2.64	7
65	65	67	3
3	3	2.87	9
80	80	73	4
4	4	2.87	11
100	100	73	5
6	6	3.86	29
150	150	98	13
8	8	5	55
200	200	127	25
10	10	5.75	86
250	250	146	39
12	12	7.13	119
300	300	181	54
14	14	7.24	176
350	350	184	80
16	16	7.52	258
400	400	191	117
18	18	8	359
450	450	203	163
20	20	8.62	729
500	500	219	331
24	24	8.74	837
600	600	222	380
28	28	12	969
700	700	305	440
30	30	12	1189
750	750	305	540
36	36	14.5	1872
900	900	368	850
40	40	17	2533
1000	1000	432	1150
48	48	20.63	3524
1200	1200	524	1600

ASME CLASS 300 (PN 50)

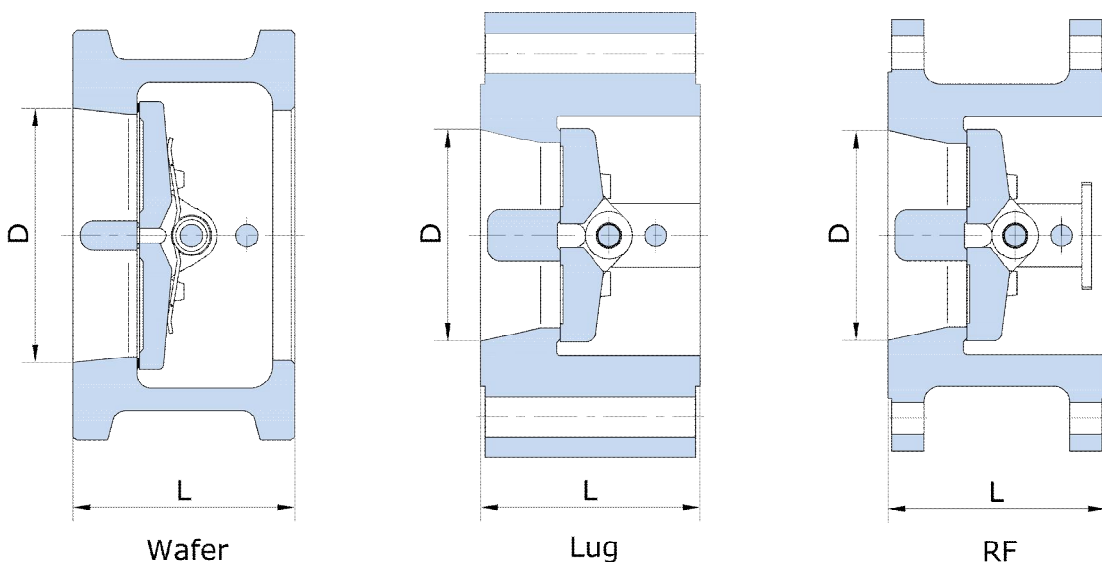
Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	7
50	50	60	3
2 1/2	2 1/2	2.64	9
65	65	67	4
3	3	2.87	13
80	80	73	6
4	4	2.87	18
100	100	73	8
6	6	3.86	40
150	150	98	18
8	8	5	84
200	200	127	38
10	10	5.75	112
250	250	146	51
12	12	7.13	170
300	300	181	77
14	14	8.74	258
350	350	222	117
16	16	9.13	419
400	400	232	190
18	18	10.39	441
450	450	264	200
20	20	11.5	584
500	500	292	265
24	24	12.5	903
600	600	318	410
28	28	12	1145
700	700	305	520
30	30	14.5	1278
750	750	368	580
36	36	19	1960
900	900	483	890
40	40	22.36	2621
1000	1000	568	1190
48	48	24.76	3744
1200	1200	629	1700

- (1) The dimension and weights are for reference only and subject to change without notice.
 (2) For more dimensional information, please contact our sales representative.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 600 /900 (PN 100/150)



ASME CLASS 600 (PN 100)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	9
50	50	60	4
2 1/2	2 1/2	2.64	11
65	65	67	5
3	3	2.87	18
80	80	73	8
4	4	3.11	24
100	100	79	11
6	6	5.35	57
150	150	136	26
8	8	6.5	121
200	200	165	55
10	10	8.39	209
250	250	213	95
12	12	9	308
300	300	229	140
14	14	10.75	491
350	350	273	223
16	16	12	793
400	400	305	360
18	18	14.25	870
450	450	362	395
20	20	14.5	1141
500	500	368	518
24	24	17.24	1841
600	600	438	836
30	30	19.88	2423
750	750	505	1100
36	36	27.6	3524
900	900	701	1600

ASME CLASS 900 (PN 150)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.76	18
50	50	70	8
2 1/2	2 1/2	3.27	24
65	65	83	11
3	3	3.27	31
80	80	83	14
4	4	4	44
100	100	102	20
6	6	6.26	93
150	150	159	42
8	8	8.11	185
200	200	206	84
10	10	9.5	319
250	250	241	145
12	12	11.5	485
300	300	292	220
14	14	14	770
350	350	356	350
16	16	15.12	1035
400	400	384	470
18	18	17.76	1333
450	450	451	605
20	20	17.76	1806
500	500	451	820
24	24	19.5	2313
600	600	495	1050

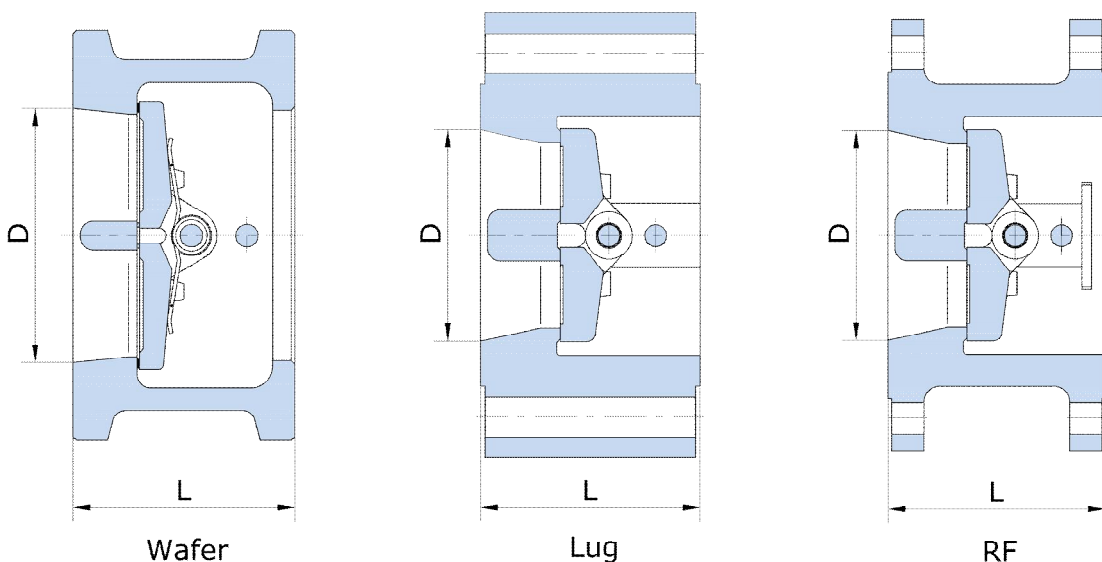
(1) The dimension and weights are for reference only and subject to change without notice.

(2) For more dimensional information, contact one of our representatives.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 1500 /2500 (PN 250/420)



ASME CLASS 1500 (PN 250)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	1.89	2.76	18
50	48	70	8
2 ½	2.24	3.27	24
65	57	83	11
3	2.76	3.27	42
80	70	83	19
4	3.58	4	57
100	91	102	26
6	5.35	6.26	150
150	136	159	68
8	7	8.11	286
200	178	206	130
10	8.74	9.76	463
250	222	248	210
12	10.35	11.5	837
300	263	305	380
14	11.38	14	1211
350	289	356	550
16	13	15.12	1388
400	330	384	630
18	14.6	18.43	1652
450	371	468	750
20	16.38	21	1652
500	416	533	970
24	19.6	22	2599
600	498	559	1180

ASME CLASS 2500 (PN 420)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	1.5	2.76	20
50	38	70	9
2 ½	1.89	3.27	26
65	48	83	12
3	2.24	3.39	46
80	57	86	21
4	2.87	4.13	62
100	73	105	28
6	4.37	6.26	154
150	111	159	70
8	5.75	8.11	308
200	146	206	140
10	7.24	10	474
250	184	254	215
12	8.62	12	881
300	219	305	400

(1) The dimension and weights are for reference only and subject to change without notice.

(2) For more dimensional information, please contact our sales representative.

CHECK VALVE

VALVE FIGURE NUMBER

HOW TO ORDER

Nominal Size	Valve Type	Pressure Rating	End Conn.	Construction	Body Material	Trim Material	Seat	O-ring	Operation Mode
A	B	C	D	E	F	G	H	I	J
e.g. 1 6	C H	3	W	1	C 4	0 1	N	0	X

is a NPS 16 Class 300, Check Valve, Wafer Type, A216 WCB body, 13Cr Trim, Nonrenewable Seat, No O-ring, No Operation.

A Nominal Size

00 Special	02 2 (DN 50)	07 8 RB	19 20 RB	31 32 RB
F1 3/8 (DN 10)	R2 2 RB	08 8 (DN 200)	20 20 (DN 500)	32 32 (DN 800)
F2 1/2 (DN 15)	F6 2 1/2 (DN 65)	09 10 RB	21 22 RB	33 34 RB
0R 1/2 RB	3R 2 1/2 RB	10 10 (DN 250)	22 22 (DN 550)	34 34 (DN 850)
F3 3/4 (DN 20)	03 3 (DN 80)	11 12 RB	23 24 RB	35 36 RB
R0 3/4 RB	R3 3 RB	12 12 (DN 300)	24 24 (DN 600)	36 36 (DN 900)
01 1 (DN 25)	04 4 (DN 100)	13 14 RB	25 26 RB	37 38 RB
R1 1 RB	R4 4 RB	14 14 (DN 350)	26 26 (DN 650)	38 38 (DN 950)
F4 1 1/4 (DN 32)	05 5 (DN 125)	15 16 RB	27 28 RB	39 40 RB
1R 1 1/4 RB	R5 5 RB	16 16 (DN 400)	28 28 (DN 700)	40 40 (DN 1000)
F5 1 1/2 (DN 40)	06 6 (DN 150)	17 18 RB	29 30 RB	41 42 RB
2R 1 1/2 RB	R6 6 RB	18 18 (DN 450)	30 30 (DN 750)	... More as such

B Valve Type

CH Check Valve

C Pressure Rating

0 Special	7 Class 2500
1 Class 150	9 Class 900
3 Class 300	8 Class 800
5 Class 1500	2 Class 125(PN16)
6 Class 600	4 Class 400(PN64)

D End Connection

X Special	B Butt-Weld (BW)
R RF Flanged	S Socket-Weld (SW)
J RTJ Flanged	W Wafer
F FF Flanged	L Lug
T Threaded	

E Construction

1 Swing, Bolt Cover
2 Swing, Welded Cover
3 Swing, Pressure Seal
4 Lift Type, Bolt Cover
5 Lift Type, Welded Cover
6 Single Plate, Wafer
7 Dual Plate
8 Lift Type, Pressure Seal

F Body Material

X0 Special	M9 A182 F22 CL 3	L5 A350 LF3	S6 A351 CF8M
C1 A105	Mo A217 WC9	L6 A352 LC3	S7 A182 F316L
C2 A216 WCA	E1 A182 F5	L7 A350 LF5	S8 A351 CF3M
C4 A216 WCB	E2 A217 C5	L8 A352 LCB	S9 A182 F347
C6 A216 WCC	E4 A217 C6	L9 A350 LF6	So A351 C F8C
M1 A182 F1	E5 A182 F9	LA A350 LF9	D1 A182 F51
M2 A217 WC1	E6 A217 C12	LB A352 LC9	D2 A995 4A
M3 A182 F2	E7 A182 F91	LD A352 LCC	D3 A182 F53
M4 A217 WC4	E8 A217 C12A	S1 A182 F304	D4 A995 5A
M5 A182 F12 CL 2	L1 A350 LF1	S2 A351 CF8	D5 A182 F55
M6 A217 WC5	L2 A352 LCA	S3 A182 F304L	D6 A995 6A
M7 A182 F11 CL 2	L3 A350 LF2	S4 A351 CF3	
M8 A217 WC6	L4 A352 LC2	S5 A182 F316	

G Trim Material

00 Special	08 13Cr/Stellite /13Cr	16 Stellite /Stellite /316	25 F53 /F53 /F53
01 13Cr/13Cr/13Cr	09 Monel/Monel /Monel	17 Stellite /Stellite /347	32 316L /Stellite /316L
02 304/304/304	10 316/316/316	18 Stellite /Stellite /Alloy 20	33 Stellite /Stellite /316L
03 310/310/310	11 Monel/Stellite/Monel	20 304L /304L /304L	34 304L /Stellite /304L
04 Hard 13Cr/Hard 13Cr/13Cr	12 316/Stellite/316	21 316L /316L /316L	35 Stellite /Stellite /304L
05 Stellite /Stellite/13Cr	13 Alloy 20/Alloy 20 /Alloy 20	22 321 /321 /321	
06 13Cr/Cu-Ni/13Cr	14 Alloy 20/Stellite /Alloy 20	23 F55 /F55/F55	
07 13Cr/Hard 13Cr /13Cr	15 Stellite /Stellite /304	24 F51/F51 /F51	

CHECK VALVE

Nominal Size	Valve Type	Pressure Rating	End Conn.	Construction	Body Material	Trim Material	Seat	O-ring	Operation Mode
A	B	C	D	E	F	G	H	I	J
e.g. 1 6	C H	3	W	1	C 4	0 1	N	o	X

is a NPS 16 Class 300, Check Valve, Wafer Type, A216 WCB body, 13Cr Trim, Nonrenewable Seat, No O-ring, No Operation.

H Seat

H	HNBR
E	EPDM
V	VITON
B	BUNA
R	Renewable Metal
N	Non Renewable Metal

I O-Ring

o	None
1	Viton
2	Teflon
3	HNBR
4	NBR
5	Special
6	EPDM

J Operation

X	No Operation
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HOW THE FIGURE NUMBER SYSTEM WORKS

Introduction. Figure number system uses a code consisting 14 digits of letters and numbers to represent the specification of a valve of certain specification. Among 14 digits, they are separated into 10 groups identified by letters from A to J. Each group represents a parameter of a valve, together they contain almost all the essential parameters of the valve.

Uses. Using the figure number system to generate a code is easy. Under each group, the code is shown on the left while on the right is the meaning of the code. Start by selecting a code from group A, through group J. If the specification of the valve is not listed, select the code for "Special ". The total length of the figure number shall be exactly 14 digits.

Cautions. It is advised that you have as detailed the specification as possible to generate a figure number, which means eliminating "Specials". If you don't have enough specification or information about the valve you are ordering, or you're not sure how to use the system to generate a figure number, contact one of our sales representatives for help.

Note: FBV reserves the right to make any modifications without notice.



Offshore



Pipeline



Onshore



Refinery



IMPORTANT NOTICE

- All dimensions in inches not listed in standards are converted from millimeters. Weights in lbs (pounds) are converted from kilograms.
- Data listed in the catalog, including dimensions, weights, specifications and other valve related data are intended to provide general information and guidance only.
- FBV Inc. assumes no responsibility for errors or inadequacy relevant to any information provided in this catalog. Any information provided in this catalog is subject to change without notice.



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