

PT. MAXI TIGA INDONESIA



CHECK VALVE



**“Maxi Valve for Maximum
Performance”**

www.maxi-valve.co.id

ABOUT US

PT MAXI TIGA INDONESIA is an API 6D, API 600, ISO 9001, ISO 45001, ISO 14001 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.

MTI today has over 3000 square feet of manufacturing facilities. Through its conviction to provide only the finest quality products and services to match the need of our customers, MTI has now established itself as a serious player in the valve business.

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 MTI 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 customer and employee needs.



CHECKVALVE

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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.

MTI 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.

INTRODUCTION

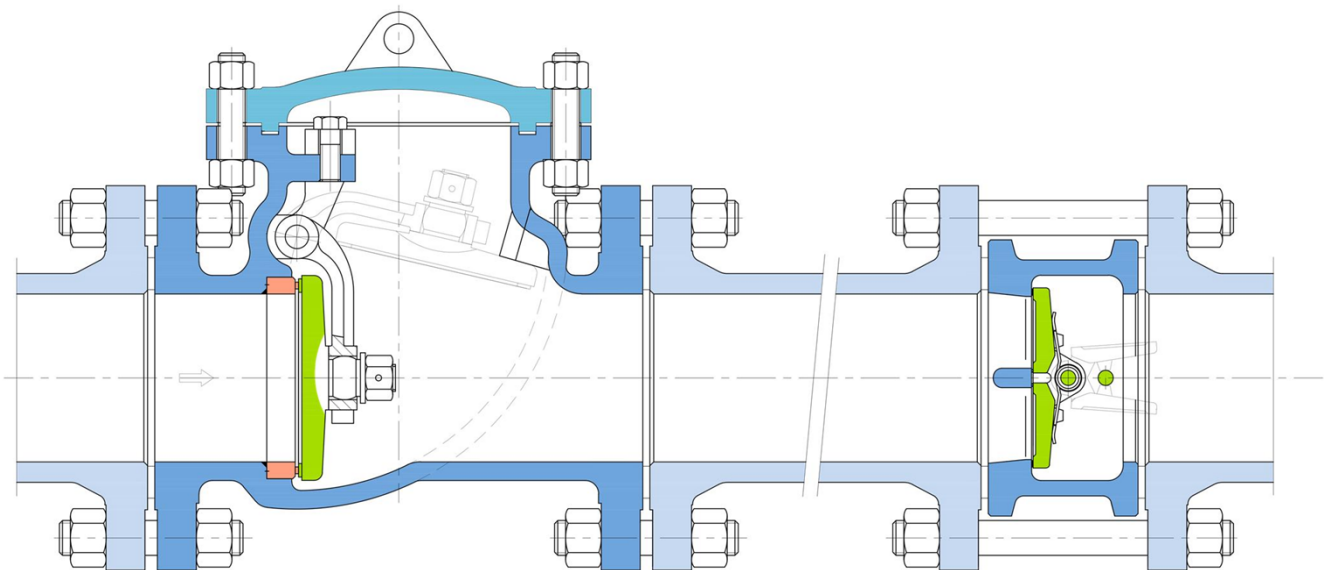
Check valve is installed on the pipeline to prevent the media reverse flow and ensure one-way flow of media channels only.



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.

MTI 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.



CHECKVALVE

SCOPE OF PRODUCTS

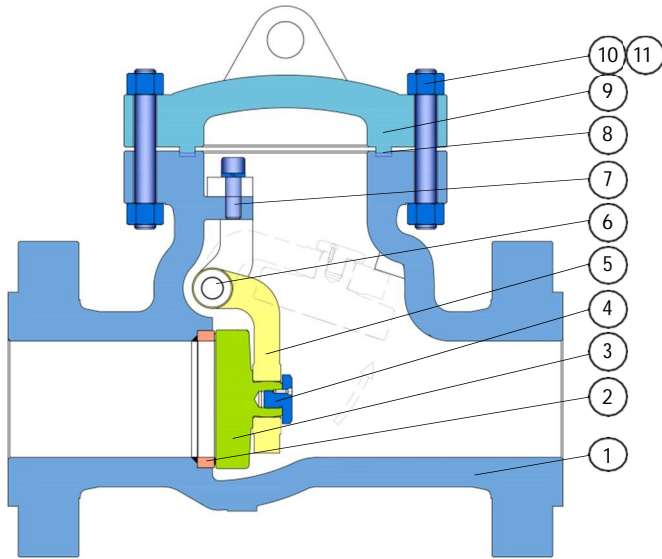
Legends: A – Swing Type
 B – Dual Plate Type
 C – Lift Type
 D – Not Usually Required

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.

CHECKVALVE

OVERVIEW (Swing Type)



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 | |

STANDARDS

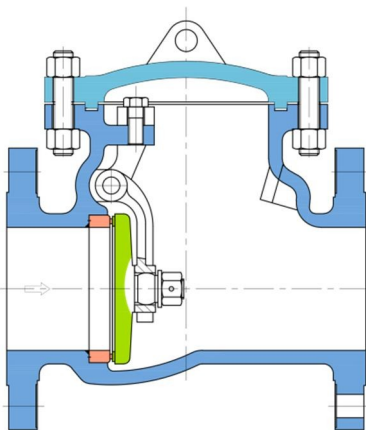
Design & Manufacture	BS 1868, ASME B16.34 API 6D
Face-to-face	ASME B16.10
End Dimension	ASME B16.5 (RF, RTJ), ASME B16.47 (RF, RTJ) MSS SP-44 (NPS 22 Only) ASME B16.25 (BW)
Test & inspection	API 598, API 6D, ISO 5208

TYPICAL MATERIALS

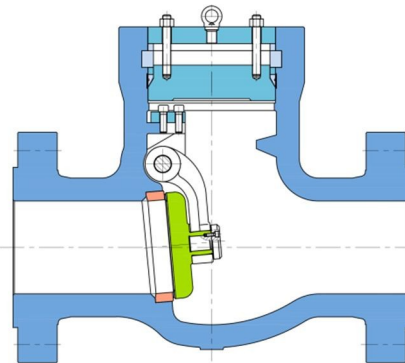
Body,	(Casting) A216 WCB, A217 WC6, WC9,
Cover,	A351 CF3, CF8, CF3M, CF8M,
Disc	A995 4A, 5A, A352 LCB, LCC, LC2, Monel, Inconel, Hastelloy

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

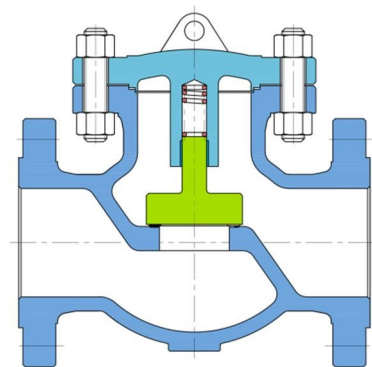
Typical Check Valve



Bolted Cover Swing Check Valve



Pressure Seal Cover Swing Check Valve

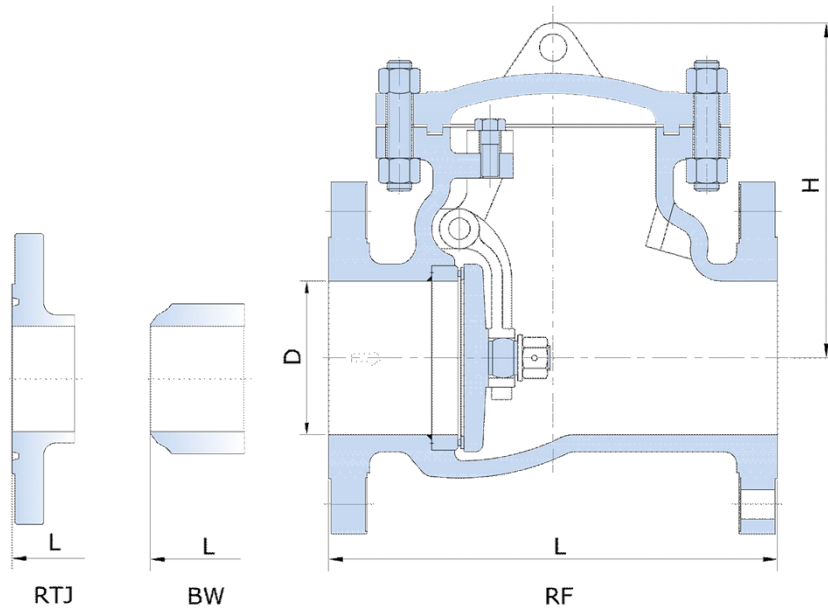


Bolted Cover Lift Check Valve

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 ½	2 ½	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

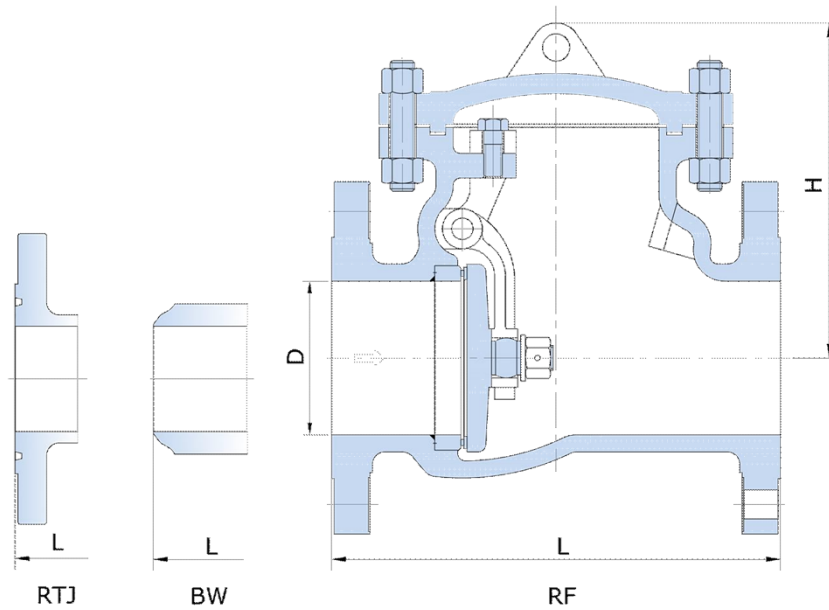
The dimension and weights are for reference only and subject to change without notice.

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

CHECKVALVE

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	

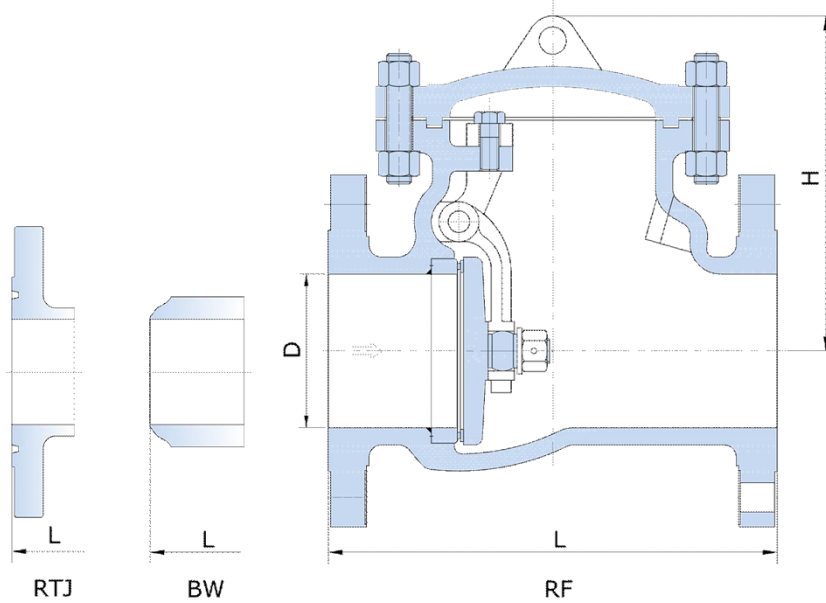
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CHECK VALVE

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 ½	2 ½	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

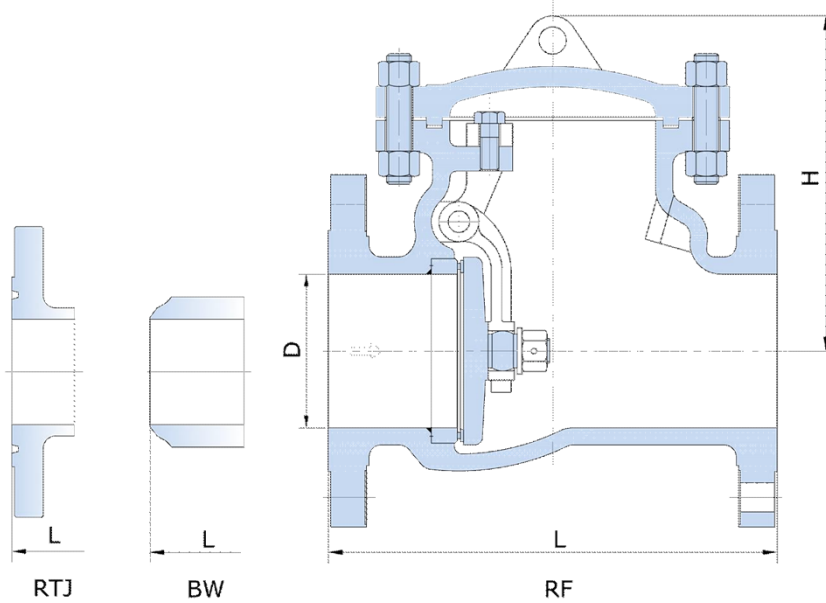
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CHECKVALVE

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 ½	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	

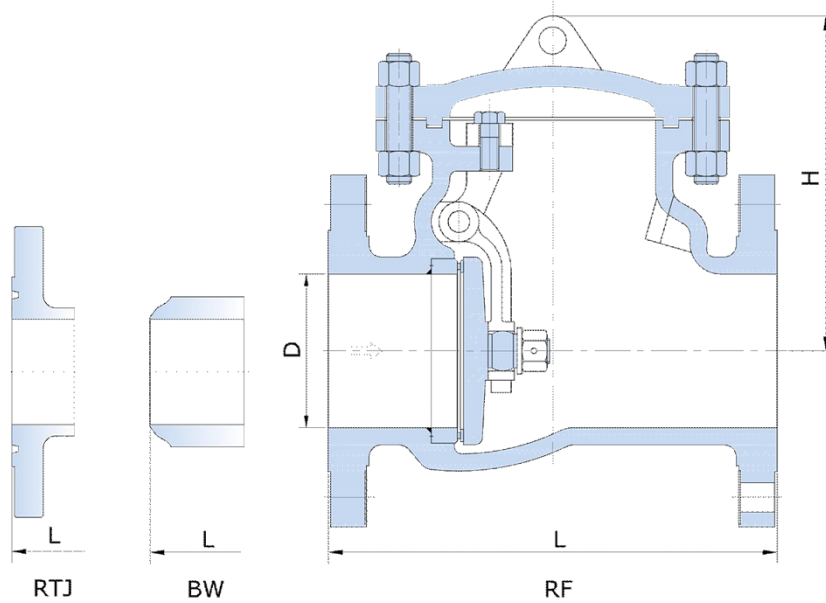
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CHECK VALVE

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 ½	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

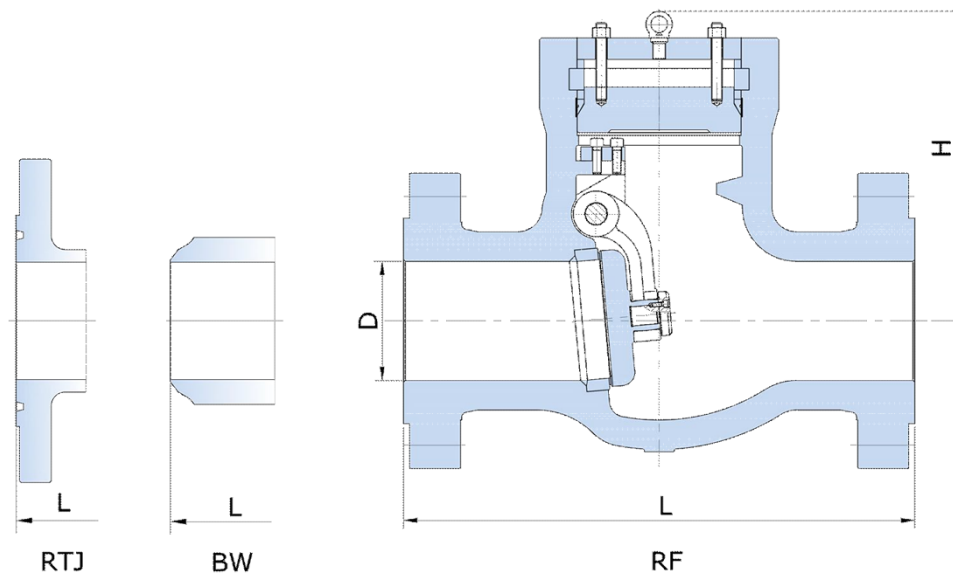
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CHECKVALVE

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 ½	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	

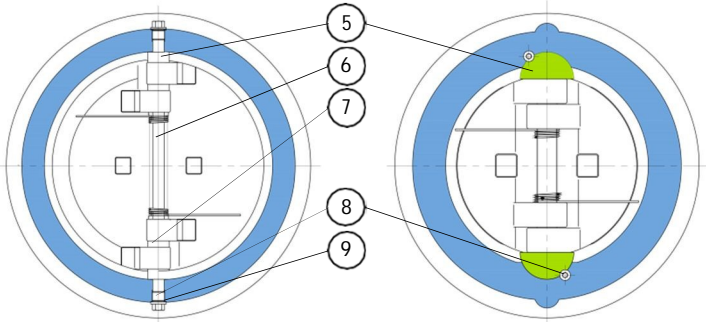
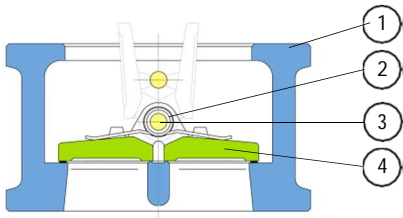
ASME CLASS 2500 (PN 420)

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 ½	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 | |

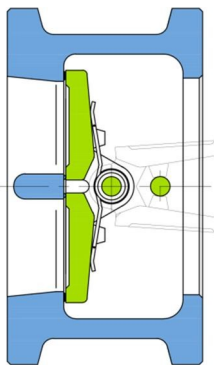
STANDARDS

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

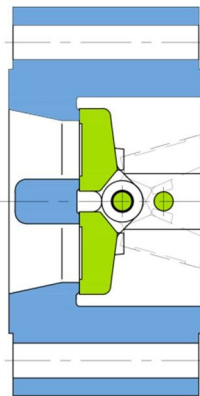
TYPICAL MATERIALS

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

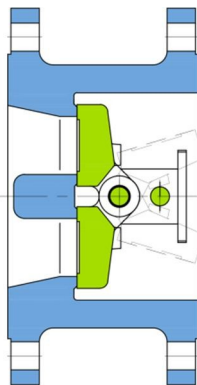
Typical Wafer Check Valve



Wafer Type,
Dual Plate



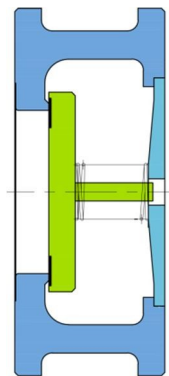
Lug Type,
Dual Plate



Flanged Type,
Dual Plate



Wafer Type,
Single Plate

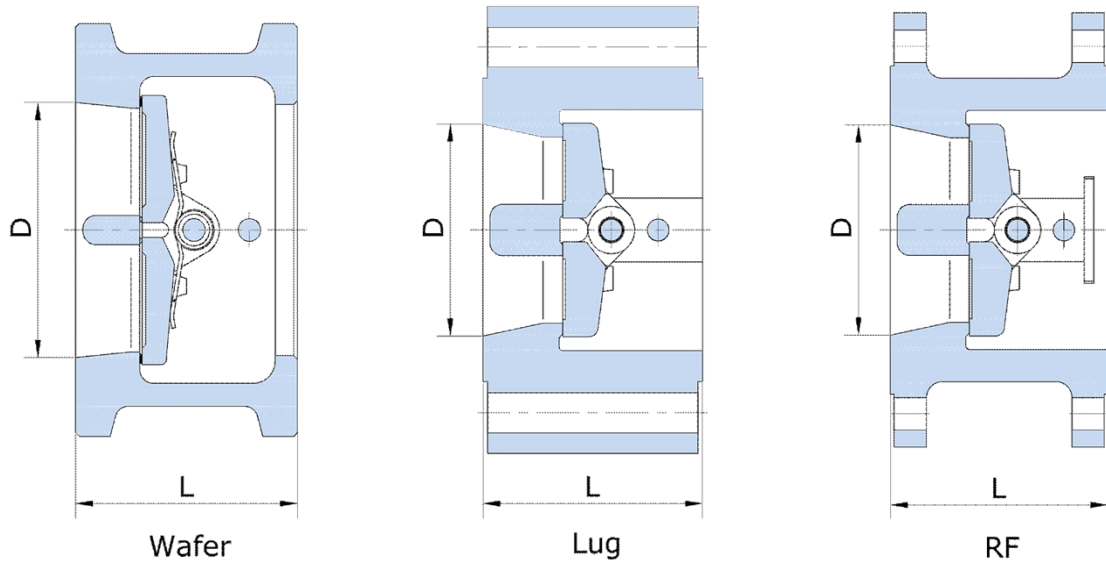


Wafer Type,
Lift Type

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 ½	2 ½	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)

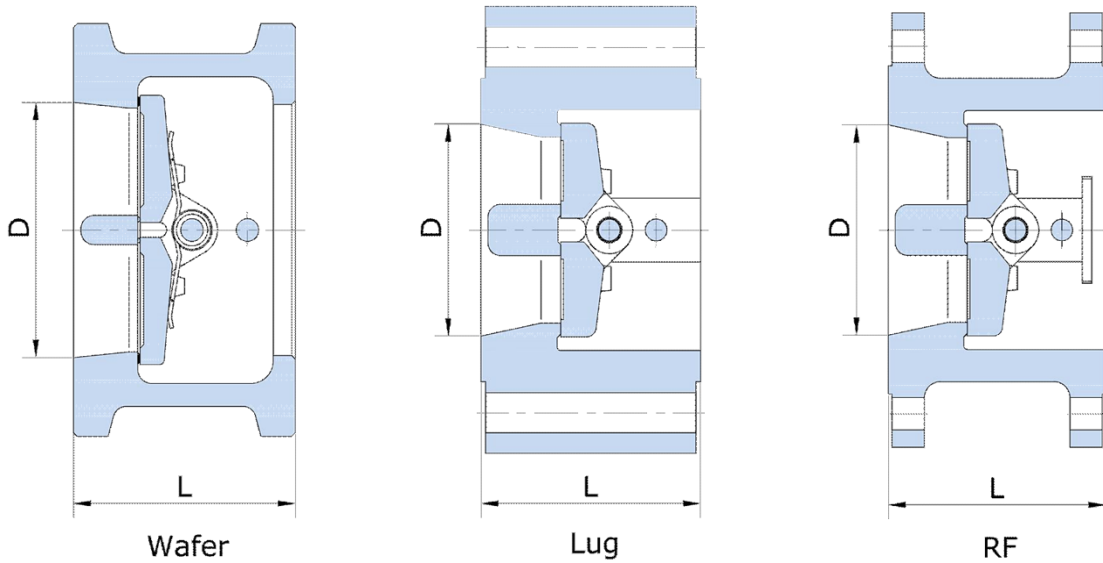
Size in/mm	D	L		Weight (lb/kg)
		WAFER/ LUG	WAFER	
2	2	2.36	7	
50	50	60	3	
2 ½	2 ½	2.64	9	
65	65	67	4	
3	3	2.87	13	
80	80	73	6	
4	4	2.87	18	
100	100	73	8	
6	6	3.86	40	
150	150	98	18	
8	8	5	84	
200	200	127	38	
10	10	5.75	112	
250	250	146	51	
12	12	7.13	170	
300	300	181	77	
14	14	8.74	258	
350	350	222	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 ½	2 ½	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)

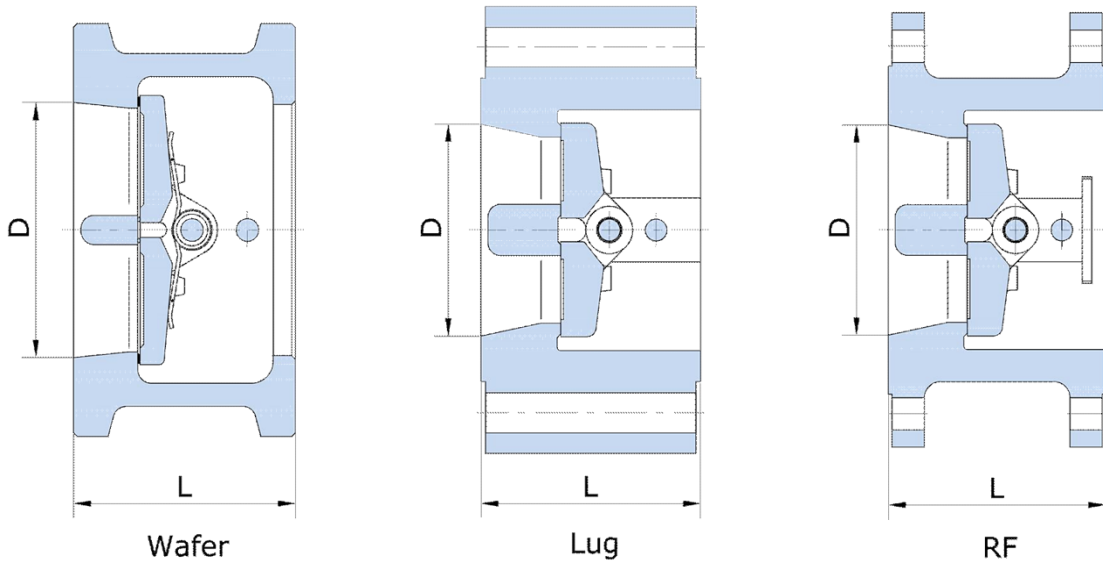
Size in/mm	D	L		Weight (lb/kg)
		WAFER/ LUG	WAFER	
2	2	2.76	18	
50	50	70	8	
2 ½	2 ½	3.27	24	
65	65	83	11	
3	3	3.27	31	
80	80	83	14	
4	4	4	44	
100	100	102	20	
6	6	6.26	93	
150	150	159	42	
8	8	8.11	185	
200	200	206	84	
10	10	9.5	319	
250	250	241	145	
12	12	11.5	485	
300	300	292	220	
14	14	14	770	
350	350	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.  	 								

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

1 Special
2 Class 150
3 Class 300
5 Class 1500
6 Class 600

D End Connection

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

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

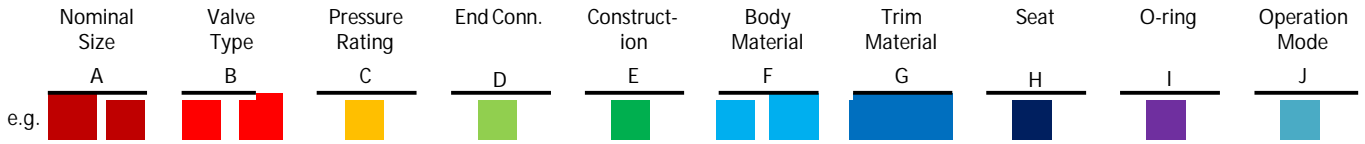
F Body Material

X0 Special
C1 A105
C2 A216 WCA
C4 A216 WCB
C6 A216 WCC
M1 A182 F1
M2 A217 WC1
M3 A182 F2
M4 A217 WC4
M5 A182 F12 CL 2
M6 A217 WC5
M7 A182 F11 CL 2
M8 A217 WC6
M9 A182 F22 CL 3
M0 A217 WC9
E1 A182 F5
E2 A217 C5
E4 A217 C6
E5 A182 F9
E6 A217 C12
E7 A182 F91
E8 A217 C12A
L1 A350 LF1
L2 A352 LCA
L3 A350 LF2
L4 A352 LC2
L5 A350 LF3
L6 A352 LC3
L7 A350 LF5
L8 A352 LCB
L9 A350 LF6
LA A350 LF9
LB A352 LC9
LD A352 LCC
S1 A182 F304
S2 A351 CF8
S3 A182 F304L
S4 A351 CF3
S5 A182 F316
S6 A351 CF8M
S7 A182 F316L
S8 A351 CF3M
S9 A182 F347
S0 A351 CF8C
D1 A182 F51
D2 A995 4A
D3 A182 F53
D4 A995 5A
D5 A182 F55
D6 A995 6A

G Trim Material

00 Special	8. 13Cr/Stellite /13Cr	16 Stellite /Stellite /316	25 F53 /F53 /F53
01 13Cr/13Cr/13Cr	9. 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
4. Hard 13Cr/Hard 13Cr/13Cr	12 316/Stellite/316	21 316L /316L /316L	35 Stellite /Stellite /304L
5. Stellite /Stellite/13Cr	13 Alloy 20/Alloy 20 /Alloy 20	22 321 /321 /321	
6. 13Cr/Cu-Ni/13Cr	14 Alloy 20/Stellite /Alloy 20	23 F55 /F55 /F55	
7. 13Cr/Hard 13Cr /13Cr	15 Stellite /Stellite /304	24 F51/F51 /F51	

CHECKVALVE



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

H Seat

I O-Ring

J Operation

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

- 0** None
- 1** Viton
- 2** Teflon
- 3** HNBR
- 4** NBR
- 5** Special
- 6** EPDM

- X** No Operation

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: MTI 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.
- MTI 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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