



MODENTIC

CLASS150-CLASS2500

2"-60"

API6D/API594/ASME B16.34



Check Valve



MODENTIC VALVE CORP.(NANJING)



MODENTIC

With a history of new product development and innovation that dates back to the company's inception in 1982, Modentic Group provides the products in a broad range of materials, sizes and pressure classes. Focused on various industrial sectors including Power Generation, Petroleum Refining, Oil & Gas, Food & Pharmacy and Commercial Construction, Modentic's highly engineered product solutions are widely specified and used throughout the world.

Partner with Modentic, you have chosen the reliable company of the valve design and engineering, we guarantee the durability and consistent quality of our products. The manufacturing documentation are always provided very detailed to ensure the traceability and easy maintenance, you never have to worry about the products do not perform as expected. We want you to be a life long partner of our dedicated work team, and we welcome your feedback about our performance all the time, which is an important extra value for our company.

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CERTIFICATE



ISO9001



API6D



API609

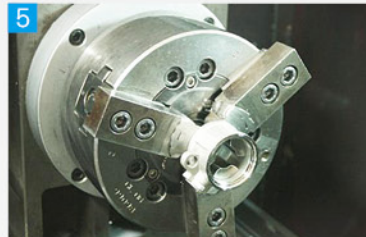


TS

Product range

API607 Fire Safe Ball Valves
Metal Seated Ball Valves
High Pressure Forged Ball Valves
API6D Trunnion Mounted Ball Valves
API609 Butterfly Valves
API6D/API600/API603 Gate/Check Valves
Bs1873 Globe Valves
Pneumatic Actuated Valve
Electric Actuated Valves

In-house Quality Assurance on Highest Level



1. PMI
2. Dimension Examination
3. MT
4. Neutral Salt Spray Testing
5. Precision Machining
6. Fire Testing
7. Pressure Testing
8. Laser Marking
9. UT
10. Hardness Testing

Modentic's quality assurance is dedicated to supplying zero defect valves to customers with reliable service life.



Check Valve

Check valve is an automatic valve, which is also called inverted valve or back valve. Its function is to prevent the medium back flowing. In order to avoid any accidents the medium is limited for one-way flow. So check valve is mainly used in the one-way flow pipe system. Normally, valve disc is opened automatically by the force produced by the flow, and then the flow moves from the inlet side to the outlet side. When the pressure of the inlet side is lower than that of the outlet side, the channel will be closed automatically by the force produced by the flow of medium as well as the gravity of disc itself. So in this way, preventing the medium back flowing is worked. According to the different ways of movement, check valve mainly has three types, namely lifting check valve, swing check valve and butterfly plate check valve.



Material List

Part Name	Material
Body	WCB, A105, WC6, F11, WC9, F22, LCB, LF1, CF8, 304, CF3, 304L, CF8M, 316, CF3M, 316L etc.
Bonnet	WCB, A105, WC6, F11, WC9, F22, LCB, LF1, CF8, 304, CF3, 304L, CF8M, 316, CF3M, 316L etc.
Disc	WCB, A105, WC6, F11, WC9, F22, LCB, LF1, CF8, 304, CF3, 304L, CF8M, 316, CF3M, 316L etc.
Pin	410, 304, 316 etc.
Sealing Face	13Cr / 13Cr, SS / Carbide, Monel, Carbide / Carbide, 20 Alloy, Copper alloy, Nitrile rubber, PTFE, Fluorine rubber, EPDM, Silicone rubber etc.

Check Valve

The hydromechanics performance (double petal check valve fluid resistance coefficient, flow coefficient and opening pressure)

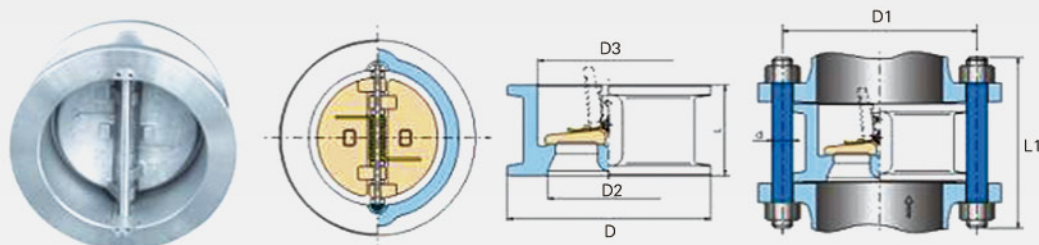
Nominal diameter		(When the valve is fully open) Fluid resistance coefficient (ξ)	Room temperature, water flow coefficient (when the valve is opening)			Fluid flow	
DN	NPS		Kv(m ³ /h)	Cv(U.S)	Cv(U.K)		
						Open the pressure approximation kpa	
50	2	2.6	63	74	62	2	1
65	2.5	2.4	109	128	107	2	1
80	3	2.3	172	201	169	2	1
100	4	2	289	338	283	2	2
125	5	1.8	476	557	466	2	1
150	6	1.5	750	878	735	2	1
200	8	1.3	1432	1675	1403	2	1
250	10	1.2	2330	2726	2283	2	1

Nominal diameter		(When the valve is fully open) Fluid resistance coefficient (ξ)	Room temperature, water flow coefficient (when the valve is opening)			Fluid flow	
DN	NPS		Kv(m ³ /h)	Cv(U.S)	Cv(U.K)		
						Open the pressure approximation kpa	
300	12	1	3676	4301	3602	2	1
350	14	0.9	5274	6171	5169	2	1
400	16	0.8	7306	8548	7160	3	1
450	18	0.8	9246	10818	9061	3	1
500	20	0.8	11415	13356	11187	3	1
600	24	0.7	17573	20560	17222	3	1
700	28	0.7	23919	27985	23441	4	1
750	30	0.7	27458	32126	26909	4	1
800	32	0.7	31241	36552	30616	4	1
900	36	0.7	39539	46261	38748	4	1
1000	40	0.7	48814	57112	47838	4	1
1050	42	0.7	53817	62966	52741	4	1
1200	48	0.7	70292	82242	68885	4	1

The hydromechanics performance (single-lobe lifting check valve fluid resistance coefficient, flow coefficient and opening pressure)

Nominal diameter		(When the valve is fully open)Fluid resistance coefficient (ξ)	Room temperature,water flow coefficient (when the valve is opening)			Fluid flow		
DN	NPS		Kv(m3/h)	Cv(U.S)	Cv(U.K)			
						Open the pressure approximation kpa		
15	1/2	6.4	2.6	3	2.5	3	2	2.5
20	3/4	5.1	6.4	7.5	6.3	3	2	2.5
25	1	4.1	12.6	14.8	12.3	3	2	2.5
32	1–1/4	4.1	19.7	23.1	19.3	3	2	2.5
40	1–1/2	3.8	29.5	34.5	28.9	3	2	2.5
50	2	3.5	54.6	63.9	53.5	3	2	2.5
65	2–1/2	3.5	85.4	99.9	83.7	3	2	2.5
80	3	3.2	128	150	125	3	2	2.5
100	4	2.8	244	286	249	3	2	2.5
125	5	2.9	375	439	368	3	1	2.2
150	6	3.1	522	611	512	3	1	2.2
200	8	3.2	915	1070	897	3	1	2.2

■ Wafer type double disc check valve (API MV1220)



Pressure rating	Size		Dimensions (mm)				Weight (Kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
										in	mm	RF	RTJ
Class 150	50	2	60	103	51	61	2.5	120.5	4	5/8	M16	140	155
	65	2 1/2	67	122	65	75	3	139.5	4	5/8	M16	150	165
	80	3	73	135	80	92	4	152.5	4	5/8	M16	160	175
	100	4	73	173	102	114	6	190.5	8	5/8	M16	170	185
	125	5	86	195	127	140	8	216	8	3/4	M20	190	205
	150	6	98	220	152	166	13	241.5	8	3/4	M20	205	220
	200	8	127	277	203	210	25	298.5	8	3/4	M20	240	255
	250	10	146	337	254	266	39	362	12	7/8	M24	270	285
	300	12	181	407	305	310	54	432	12	7/8	M24	310	325
	350	14	184	448	350	355	80	476	12	1	M27	325	340
	400	16	191	512	400	405	117	540	16	1	M27	340	355
	450	18	203	547	450	455	138	578	16	1 1/8	M30	365	380
	500	20	219	604	500	505	163	635	20	1 1/8	M30	385	400
	600	24	222	715	600	605	331	749.5	20	1 1/4	M33	405	420
Class 150 ASME B16.47B, API605	650	26	222	722	630	650	360	744.5	36	3/4	M20	365	—
	700	28	305	773	700	700	380	795.5	40	3/4	M20	455	—
	750	30	305	824	746	750	425	846	44	3/4	M20	455	—
	800	32	305	878	796	800	560	900	48	3/4	M20	460	—
	900	36	368	983	898	903	640	1009.5	44	7/8	M24	540	—
	1000	40	432	1090	976	985	870	1120.5	44	1	M27	620	—
	1050	42	432	1142	1050	1055	960	1171.5	48	1	M27	625	—
	1100	44	432	1193	1070	1070	1150	1222	52	1	M27	630	—
	1200	48	524	1302	1200	1205	1400	1335	44	1 1/8	M30	740	—
	1350	54	591	1460	1312	1315	2245	1492	56	1 1/8	M30	820	—
	1400	56	591	1512	1360	1370	2830	1543	60	1 1/8	M30	820	—
	1500	60	660	1628	1458	1470	3200	1662	52	1 1/4	M33	900	—

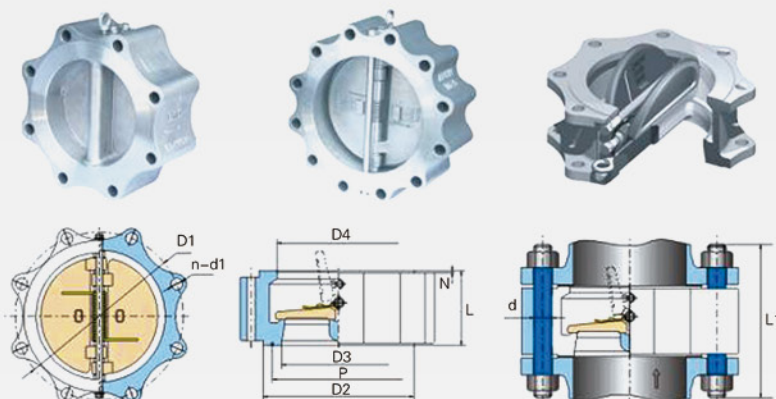
Pressure rating	Size	Dimensions (mm)					Weight (Kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
										in	mm	RF	RTJ
Class 150 ASME B16.47B, API605	1650	66	787	1881	1630	1663	5345	1930.5	52	1 1/4	M45×3	1075	–
	1800	72	851	2046	1780	1818	6100	2095.5	60	1 1/4	M45×3	1145	–
	1950	78	927	2204	1930	1973	8185	2260.5	64	2	M52×3	1250	–
	2100	84	1041	2369	2080	2115	10220	2425	64	2	M52×3	1365	–
Class 150 ASME B16.47A, MSS SP-44	650	26	222	770	633	650	380	806.5	24	1 1/4	M33	450	–
	700	28	305	827	700	700	400	863.5	28	1 1/4	M33	535	–
	750	30	305	878	746	750	440	914.5	28	1 1/4	M33	545	–
	800	32	305	935	796	800	580	978	28	1 1/2	M39×3	570	–
	900	36	368	1045	874	894	660	1086	32	1 1/2	M39×3	650	–
	1000	40	432	1158	976	985	890	1200	36	1 1/2	M39×3	710	–
	1050	42	432	1213	1050	1055	980	1257.5	36	1 1/2	M39×3	730	–
	1100	44	432	1274	1070	1070	1170	1314.5	40	1 1/2	M39×3	730	–
	1200	48	524	1380	1166	1205	1450	1422.5	44	1 1/2	M39×3	840	–
	1350	54	591	1545	1312	1315	2300	1594	44	1 3/4	M45×3	950	–
	1400	56	591	1602	1360	1370	2850	1651	48	1 3/4	M45×3	955	–
	1500	60	660	1710	1458	1470	3225	1759	52	1 3/4	M45×3	1040	–
Class 300	50	2	60	110	51	61	3	127	8	5/8	M16	155	175
	65	2 1/2	67	128	65	75	4	149	8	3/4	M20	175	195
	80	3	73	147	80	92	6	168.5	8	3/4	M20	190	210
	100	4	73	179	102	114	8	200	8	3/4	M20	195	215
	125	5	86	214	127	140	15	235	8	3/4	M20	215	235
	150	6	98	249	152	166	18	270	12	3/4	M20	230	250
	200	8	127	305	203	210	31	330	12	7/8	M24	280	300
	250	10	146	359	254	266	51	387.5	16	1	M27	315	335
	300	12	181	420	305	310	77	451	16	1 1/8	M30	365	385
	350	14	222	483	350	355	117	514.5	20	1 1/8	M30	410	430
	400	16	232	537	400	405	190	571.5	20	1 1/4	M33	435	455
	450	18	264	594	450	455	200	628.5	24	1 1/4	M33	475	495
	500	20	292	652	500	505	265	686	24	1 1/4	M33	510	535
	600	24	318	772	600	608	410	813	24	1 1/2	M39×3	560	585
Class 300 ASME B16.47B, API605	650	26	356	767	633	640	565	803	32	1 1/4	M33	625	–
	700	28	368	821	685	685	585	857	36	1 1/4	M33	635	–
	750	30	368	882	735	740	660	921	36	1 3/8	M36×3	650	–
	800	32	368	936	784	784	970	978	32	1 1/2	M39×3	675	–
	900	36	483	1044	873	880	1020	1089	32	1 5/8	M42×3	800	–
	1000	40	546	1146	976	985	1420	1191	40	1 5/8	M42×3	885	–
	1050	42	568	1196	1035	1045	1540	1244.5	36	1 3/4	M45×3	920	–
	1200	48	629	1365	1166	1190	2260	1416	40	1 7/8	M48×3	1010	–
	1350	54	718	1526	1312	1315	3102	1578	48	1 7/8	M48×3	1140	–
	1500	60	838	1704	1458	1470	4315	1764	40	2 1/4	M56×3	1280	–

Check Valve

Pressure rating	Size	Dimensions (mm)					Weight (Kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
										in	mm	RF	RTJ
Class 300 ASME B16.47A, MSS SP-44	650	26	356	831	633	640	580	876	28	1 5/8	M42×3	625	–
	700	28	368	895	685	685	600	940	28	1 5/8	M42×3	650	–
	750	30	368	949	735	740	680	997	28	1 3/4	M45×3	665	–
	800	32	368	1003	784	784	990	1054	28	1 7/8	M48×3	685	–
	900	36	483	1113	873	880	1050	1168.5	32	2	M52×3	820	–
	1000	40	546	1110	976	985	1400	1156	32	1 5/8	M42×3	885	–
	1050	42	568	1161	1035	1045	1520	1206.5	32	1 5/8	M42×3	915	–
	1200	48	629	1320	1166	1190	2250	1371.5	32	1 7/8	M48×3	1015	–
	1350	54	718	1489	1312	1315	3080	1549.5	28	2 1/4	M56×3	1160	–
	1500	60	838	1642	1458	1470	4300	1702	32	2 1/4	M56×3	1305	–
Class 600	50	2	60	110	51	61	4	127	8	5/8	M16	175	180
	65	2 1/2	67	128	65	75	5	149	8	3/4	M20	195	200
	80	3	73	147	80	92	8	168.5	8	3/4	M20	210	215
	100	4	79	191	102	108	11	216	8	7/8	M24	235	240
	125	5	105	239	127	136	20	267	8	1	M27	280	285
	150	6	136	264	152	162	26	292	12	1	M27	320	325
	200	8	165	318	200	212	55	349	12	1 1/8	M30	370	375
	250	10	213	398	250	266	95	432	16	1 1/4	M33	440	445
	300	12	229	455	305	312	140	489	20	1 1/4	M33	460	465
	350	14	273	490	337	355	223	527	20	1 3/8	M36×3	520	525
	400	16	305	562	387	400	360	603	20	1 1/2	M39×3	575	580
	450	18	362	610	438	450	395	654	20	1 5/8	M42×3	650	655
	500	20	368	680	489	500	518	724	24	1 5/8	M42×3	670	680
	600	24	438	786	591	600	836	838	24	1 7/8	M48×3	780	795
Class 600 ASME B16.47B, API605	650	26	457	761	633	640	950	806.5	28	1 5/8	M42×3	790	805
	700	28	483	815	684	690	1215	863.5	28	1 3/4	M45×3	830	845
	750	30	505	875	735	740	1378	927	28	1 7/8	M48×3	875	890
	800	32	533	928	779	784	1643	984	28	2	M52×3	920	940
	900	36	635	1045	874	880	2120	1105	28	2 1/4	M56×3	1065	1085
Class 600 ASME B16.47A, MSS SP-44	650	26	457	863	633	640	980	914.5	28	1 7/8	M48×3	795	810
	700	28	483	910	684	690	1250	965	28	2	M52×3	835	850
	750	30	505	967	735	740	1420	1022.5	28	2	M52×3	860	905
	800	32	533	1020	779	784	1700	1079.5	28	2 1/4	M56×3	905	925
	900	36	635	1126	874	880	2200	1194	28	2 1/2	M64×3	1035	1055
	1000	40	660	1153	976	985	2650	1213	32	2 1/4	M56×3	1115	–
	1050	42	702	1215	1020	1030	3135	1283	28	2 1/2	M64×3	1190	–
	1200	48	787	1386	1166	1170	3755	1460.5	32	2 3/4	M70×3	1330	–
Class 900	50	2	70	140	51	58	8	165	8	7/8	M24	225	230
	65	2 1/2	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	165	80	90	14	190.5	8	7/8	M24	240	245
	100	4	102	204	102	108	20	235	8	1 1/8	M30	285	290

Pressure rating	Size	Dimensions (mm)					Weight (Kg)	Pipe flange (for reference)					
	DN	NPS	L	D	D2	D3		D1	Bolt Quantity	Bolt diameter d		Bolt length L1	
										in	mm	RF	RTJ
Class 900	125	5	110	245	127	136	30	279.5	8	1 1/4	M33	310	315
	150	6	159	286	150	162	42	317.5	12	1 1/8	M30	365	370
	200	8	206	356	200	212	84	393.5	12	1 3/8	M36×3	440	445
	250	10	241	432	250	266	145	470	16	1 3/8	M36×3	490	495
	300	12	292	495	305	312	220	533.5	20	1 3/8	M36×3	560	565
	350	14	356	518	337	355	350	559	20	1 1/2	M39×3	645	655
	400	16	384	572	387	400	470	616	20	1 5/8	M42×3	685	695
	450	18	451	635	438	450	605	686	20	1 7/8	M48×3	790	805
	500	20	451	695	487	496	820	749.5	20	2	M52×3	810	825
Class 900 ASME B16.47B, API605	600	24	495	835	591	600	1050	901.5	20	2 1/2	M64×3	945	965
	650	26	533	835	617	630	1182	901.5	20	2 1/2	M64×3	955	1050
	700	28	572	898	665	680	1441	971.5	20	2 3/4	M70×3	1030	1145
	750	30	635	955	712	735	1578	1035	20	3	M76×3	1125	1180
	800	32	660	1012	760	784	2030	1092	20	3	M76×3	1160	1260
Class 900 ASME B16.47A, MSS SP-44	900	36	718	1120	855	865	2607	1200	24	3	M76×3	1240	995
	650	26	533	879	617	630	1200	952.5	20	2 3/4	M70×3	975	1055
	700	28	572	943	665	680	1460	1022.5	20	3	M76×3	1035	1055
	750	30	635	1006	712	735	1600	1086	20	3	M76×3	1110	1130
	800	32	660	1070	760	784	2050	1155.5	20	3 1/4	M82×3	1165	1185
	900	36	718	1195	855	865	2607	1289	20	3 1/2	M90×3	1265	1285
	1000	40	762	1246	950	965	2930	1340	24	3 1/2	M90×3	1360	–
	1050	42	787	1296	995	1015	3310	1390.5	24	3 1/2	M90×3	1400	–
Class 1500	1200	48	851	1483	1140	1160	4415	1587.5	24	4	M100×3	1545	–
	50	2	70	140	51	58	8	165	8	7/8	M24	225	230
	65	2 1/2	83	162	65	73	11	190.5	8	1	M27	250	255
	80	3	83	172	80	90	19	203	8	1 1/8	M30	270	275
	100	4	102	207	102	108	26	241.5	8	1 1/4	M33	310	315
	125	5	110	252	127	136	51	292	8	1 1/2	M39×3	370	375
	150	6	159	280	150	162	68	317.5	12	1 3/8	M36×3	430	440
	200	8	206	350	200	212	130	393.5	12	1 5/8	M42×3	510	520
	250	10	248	433	254	266	210	482.5	12	1 7/8	M48×3	600	610
	300	12	305	518	305	312	384	571.5	16	2	M52×3	690	715
	350	14	356	576	337	355	550	635	16	2 1/4	M56×3	775	800
	400	16	384	639	387	400	635	705	16	2 1/2	M64×3	850	880
	450	18	468	701	430	438	790	774.5	16	1 3/4	M70×3	955	985
	500	20	533	753	478	487	1275	832	16	3	M76×3	1065	1095
Class 2500	600	24	559	897	570	578	2710	990.5	16	3 1/2	M90×3	1170	1205
	50	2	70	143	42	48	10	171.5	8	1	M27	255	260
	65	2 1/2	83	166	52	58	18	197	8	1 1/8	M30	290	305
	80	3	86	194	62	68	26	228.5	8	1 1/4	M33	320	330
	100	4	105	232	88	94	40	273	8	1 1/2	M39×3	370	380
	125	5	110	277	100	106	59	324	8	1 3/4	M45×3	420	435
	150	6	159	315	150	162	90	368.5	8	2	M52×3	515	530
	200	8	206	385	180	186	150	438	12	2	M52×3	600	620
	250	10	248	474	225	232	240	539.5	12	2 1/2	M64×3	750	775
	300	12	305	547	266	272	440	619	12	2 3/4	M70×3	855	885

■ Casting body lug type double-disc check valve (API) MV1221



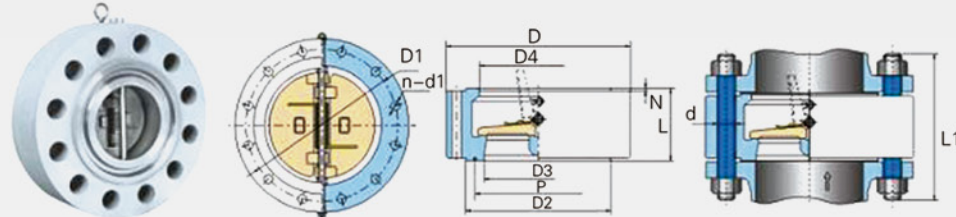
Pressure rating	Size		Dimensions (mm)											Weight (Kg)	Pipe flange (for reference)				
	NPS	DN	L	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1		N		Bolt Quantity	Bolt diameter d		Bolt length L1	
					RF	RJ					in	mm				in	mm	RF	RJ
Class 150 ASME B16.47B	2	50	60	120.5	92	102	51	58	82.55	4	3/4	19	2	4	4	5/8	M16	140	155
	2 1/2	65	67	139.5	105	121	65	73	101.6	4	3/4	19	2	5.5	4	5/8	M16	150	165
	3	80	73	152.5	127	133	80	88	114.3	4	3/4	19	2	7	4	5/8	M16	160	175
	4	100	73	190.5	157	171	102	108	149.225	8	3/4	19	2	11	8	5/8	M16	170	185
	5	125	86	216	186	194	127	132	171.45	8	7/8	22.5	2	15	8	3/4	M20	190	205
	6	150	98	241.5	216	219	152	160	193.675	8	7/8	22.5	2	19	8	3/4	M20	205	220
	8	200	127	298.5	270	273	203	210	247.65	8	7/8	22.5	2	36	8	3/4	M20	240	255
	10	250	146	362	324	330	254	266	304.801	12	1	25.5	2	61	12	7/8	M24	270	285
	12	300	181	432	381	406	305	310	381.001	12	1	25.5	2	119	12	7/8	M24	310	325
	14	350	184	476	413	425	350	355	396.876	12	1 1/8	28.5	2	131	12	1	M27	325	340
	16	400	191	540	470	483	400	405	454.026	16	1 1/8	28.5	2	180	16	1	M27	340	355
	18	450	203	578	533	546	450	455	517.526	16	1 1/4	32	2	203	16	1 1/8	M30	365	380
	20	500	219	635	584	597	500	505	558.801	20	1 1/4	32	2	275	20	1 1/8	M30	385	400
	24	600	222	749.5	692	711	600	605	673.101	20	1 3/8	35	2	314	20	1 1/4	M33	405	420
	28	700	305	795.5	762	–	700	700	–	40	7/8	22.5	2	910	40	3/4	M20	455	–
	30	750	305	846	813	–	746	750	–	44	7/8	22.5	2	1025	44	3/4	M20	455	–
	32	800	305	900	864	–	796	800	–	48	7/8	22.5	2	1344	48	3/4	M20	460	–
	36	900	368	1009.5	972	–	898	903	–	44	1	25.5	2	1536	44	7/8	M24	540	–
	42	1050	432	1171.5	1130	–	1050	1055	–	48	1 1/8	28.5	2	2310	48	1	M27	625	–
	48	1200	524	1335	1289	–	1200	1205	–	44	1 1/4	32	2	3364	44	1 1/8	M30	740	–
Class 300 ASME B16.47B	2	50	60	127	92	108	51	58	82.55	8	3/4	19	2	6	8	5/8	M16	155	175
	2 1/2	65	67	149	105	127	65	73	101.6	8	7/8	22.5	2	7	8	3/4	M20	175	195
	3	80	73	168.5	127	146	80	88	123.825	8	7/8	22.5	2	10	8	3/4	M20	190	210
	4	100	73	200	157	175	102	108	149.225	8	7/8	22.5	2	16	8	3/4	M20	195	215
	5	125	86	235	186	210	127	132	171.45	8	7/8	22.5	2	29	8	3/4	M20	215	235
	6	150	98	270	216	241	152	160	211.138	12	7/8	22.5	2	32	12	3/4	M20	230	250

Pressure rating	Size		Dimensions (mm)											Weight (Kg)	Pipe flange (for reference)				
	NPS	DN	L	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1		N		Bolt Quantity	Bolt diameter d		Bolt length L1	
					RF	RJ					in	mm				in	mm	RF	RJ
Class 300 ASME B16.47B	8	200	127	330	270	302	203	210	269.876	12	1	25.5	2	55	12	7/8	M24	280	300
	10	250	146	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	82	16	1	M27	315	335
	12	300	181	451	381	413	305	310	381.001	16	1 1/4	32	2	92	16	1 1/8	M30	365	385
	14	350	222	514.5	413	457	350	355	419.101	20	1 1/4	32	2	251	20	1 1/8	M30	410	430
	16	400	232	571.5	470	508	400	405	469.901	20	1 3/8	35	2	342	20	1 1/4	M33	435	455
	18	450	264	628.5	533	575	450	455	533.401	24	1 3/8	35	2	391	24	1 1/4	M33	475	495
	20	500	292	686	584	635	500	505	584.201	24	1 3/8	35	2	536	24	1 1/4	M33	510	535
	24	600	318	813	692	749	600	608	692.151	24	1 5/8	41	2	833	24	1 1/2	M39	560	585
	30	750	368	921	845	—	735	740	—	36	1 1/2	38	2	1395	36	1 3/8	M36	650	—
	36	900	483	1089	1010	—	873	880	—	32	1 3/4	44.5	2	1862	32	1 5/8	M42	800	—
	42	1050	568	1245	1168	—	1035	1045	—	36	1 7/8	48	2	3861	36	1 3/4	M45	920	—
	48	1200	629	1416	1327	—	1179	1190	—	40	2	51	2	4370	40	1 7/8	M48	1010	—
Class 600	2	50	60	127	92	108	51	58	82.55	8	3/4	19	7	6.5	8	5/8	M16	175	180
	2 1/2	65	67	149	105	127	65	73	101.6	8	7/8	22.5	7	8	8	3/4	M20	195	200
	3	80	73	168	127	146	80	88	123.825	8	7/8	22.5	7	10	8	3/4	M20	210	215
	4	100	79	216	157	175	102	108	149.225	8	1	22.5	7	21	8	7/8	M24	235	240
	5	125	105	266.5	186	210	127	136	180.975	8	1 1/8	28.5	7	41	8	1	M27	280	285
	6	150	136	292	216	241	152	162	211.138	12	1 1/8	28.5	7	57	12	1	M27	320	325
	8	200	165	349	270	302	200	212	269.876	12	1 1/4	32	7	94	12	1 1/8	M30	370	375
	10	250	213	432	324	356	250	266	323.851	16	1 3/8	35	7	164	16	1 1/4	M33	440	445
	12	300	229	489	381	413	305	312	381.001	20	1 3/8	35	7	213	20	1 1/4	M33	460	465
	14	350	273	527	413	457	337	355	419.101	20	1 1/2	38	7	343	20	1 3/8	M36	520	525
	16	400	305	603	470	508	387	400	469.901	20	1 5/8	41	7	476	20	1 1/2	M39	575	580
	18	450	362	654	533	575	438	450	533.401	20	1 3/4	44.5	7	685	20	1 5/8	M42	650	655
	20	500	368	724	584	635	489	500	584.201	24	1 3/4	44.5	7	908	24	1 5/8	M42	670	680
	24	600	438	838	692	749	591	600	692.151	24	2	51	7	1088	24	1 7/8	M48	780	790

Check Valve

Pressure rating	Size		Dimensions (mm)											Weight (Kg)	Pipe flange (for reference)				
	NPS	DN	L	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1		N		Bolt Quantity	Bolt diameter d		Bolt length L1	
					RF	RJ					in	mm				in	mm	RF	RJ
Class 900	2	50	70	165.1	92	124	51	58	95.25	8	1	25.5	7	13	8	7/8	M24	225	230
	2 1/2	65	83	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	18	8	1	M27	250	255
	3	80	83	190.5	127	156	80	90	123.82	8	1	25.5	7	21	8	7/8	M24	240	245
	4	100	102	234.9	157	181	102	108	149.22	8	1 1/4	32.0	7	36	8	1 1/8	M30	285	290
	5	125	110	279.4	186	216	127	136	180.98	8	1 3/8	35.0	7	65	8	1 1/4	M33	310	315
	6	150	159	317.5	216	241	150	162	211.12	12	1 1/4	32.0	7	92	12	1 1/8	M36	365	370
	8	200	206	393.7	270	308	200	212	269.88	12	1 1/2	38.0	7	174	12	1 3/8	M36	440	445
	10	250	241	469.9	324	362	250	266	323.85	16	1 1/2	38.0	7	264	16	1 3/8	M36	490	495
	12	300	292	533.4	381	419	305	312	381.00	20	1 1/2	38.0	7	450	20	1 3/8	M36	560	565
	14	350	356	558.8	413	467	337	355	419.10	20	1 5/8	41.0	7	612	20	1 1/2	M39	645	655
	16	400	384	615.9	470	524	387	400	469.90	20	1 3/4	44.5	7	712	20	1 5/8	M42	685	695
	18	450	451	685.8	533	594	438	450	533.40	20	2	51.0	7	1160	20	1 7/8	M48	790	805
	20	500	451	749.3	584	648	487	496	584.20	20	2 1/8	54.0	7	1568	20	2	M52	810	825
	24	600	495	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	1881	20	2 1/2	M64	945	965
Class 1500	2	50	70	165.1	92	124	51	58	95.25	8	1	25.5	7	14	8	7/8	M24	225	230
	2 1/2	65	83	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	19	8	1	M27	250	255
	3	80	83	203.2	127	168	80	90	136.52	8	1 1/4	32.0	7	25	8	1 1/8	M30	270	275
	4	100	102	241.3	157	194	102	108	161.92	8	1 3/8	35.0	7	43	8	1 1/4	M33	310	315
	5	125	110	292.1	186	229	127	136	193.68	8	1 5/8	41.0	7	72	8	1 1/2	M39	370	375
	6	150	159	317.5	216	248	150	162	211.12	12	1 1/2	38.0	7	101	12	1 3/8	M36	430	440
	8	200	206	393.7	270	318	200	212	269.88	12	1 3/4	45.0	7	240	12	1 5/8	M42	510	520
	10	250	248	482.6	324	371	254	266	323.85	12	2	51.0	7	306	12	1 7/8	M48	600	610
	12	300	305	571.5	381	438	305	312	381.00	16	2 1/8	54.0	7	541	16	2	M52	695	715
	14	350	356	635	413	489	337	355	419.10	16	2 3/8	61.0	7	932	16	2 1/4	M56	775	800
	16	400	384	704.8	470	546	387	400	469.90	16	2 5/8	66.5	7	980	16	2 1/2	M64	850	880
Class 2500	2	50	70	171.4	92	133	42	48	101.6	8	1 1/8	28.5	7	19	8	1	M27	255	260
	2 1/2	65	83	196.8	105	149	52	58	111.12	8	1 1/4	32.0	7	31	8	1 1/8	M30	290	305
	3	80	83	228.6	127	168	62	68	127	8	1 3/8	35.0	7	38	8	1 1/4	M33	320	330
	4	100	102	273	157	203	88	94	157.18	8	1 5/8	41.0	7	69	8	1 1/2	M39	370	380
	5	125	110	323.8	186	241	100	106	190.5	8	1 7/8	48.0	7	135	8	1 3/4	M45	420	435
	6	150	159	368.3	216	279	150	162	228.60	8	2 1/8	54.0	7	184	8	2	M52	515	530
	8	200	206	438.1	270	340	180	186	279.40	12	2 1/8	54.0	7	380	12	2	M52	600	620
	10	250	248	539.7	324	425	225	232	342.90	12	2 5/8	66.5	7	489	12	2 1/2	M64	750	775
	12	300	305	619.1	381	495	266	272	406.40	16	2 7/8	73.0	7	747	16	2 3/4	M70	855	885

■ Lug type double disc check valve (forging body) (API) FMV1221

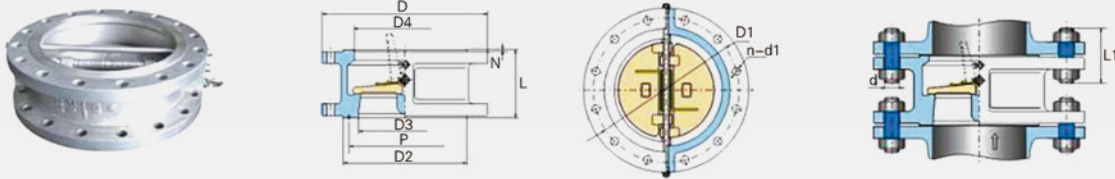


Pressure rating	Size		Dimensions (mm)											Weight (Kg)	Pipe flange (for reference)				
	NPS	DN	L	D	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1			N	Bolt diameter d		Bolt length L1	
						RF	RJ					in	mm			in	mm	RF	RJ
Class 150 ASME B16.47B	2	50	60	150	120.5	92	102	51	58	82.55	4	3/4	19	2	7	5/8	M16	140	155
	2 1/2	65	67	180	139.5	105	121	65	73	101.6	4	3/4	19	2	9	5/8	M16	150	165
	3	80	73	190	152.5	127	133	80	88	114.3	4	3/4	19	2	12	5/8	M16	160	175
	4	100	73	230	190.5	157	171	102	108	149.225	8	3/4	19	2	19	5/8	M16	170	185
	5	125	86	255	216	186	194	127	132	171.45	8	7/8	22.5	2	25	3/4	M20	190	205
	6	150	98	280	241.5	216	219	152	160	193.675	8	7/8	22.5	2	32	3/4	M20	205	220
	8	200	127	345	298.5	270	273	203	210	247.65	8	7/8	22.5	2	63	3/4	M20	240	255
	10	250	146	405	362	324	330	254	266	304.801	12	1	25.5	2	93	7/8	M24	270	285
	12	300	181	485	432	381	406	305	310	381.001	12	1	25.5	2	170	7/8	M24	310	325
	14	350	184	535	476	413	425	350	355	396.876	12	1 1/8	28.5	2	199	1	M27	325	340
	16	400	191	595	540	470	483	400	405	454.026	16	1 1/8	28.5	2	246	1	M27	340	355
	18	450	203	635	578	533	546	450	455	517.526	16	1 1/4	32	2	290	1 1/8	M30	365	380
	20	500	219	700	635	584	597	500	505	568.801	20	1 1/4	32	2	348	1 1/8	M30	385	400
	24	600	222	815	749.5	692	711	600	605	673.101	20	1 3/8	35	2	396	1 1/4	M33	405	420
	28	700	305	835	795.5	762	—	700	700	—	40	7/8	22.5	2	1270	3/4	M20	455	—
	30	750	305	885	846	813	—	746	750	—	44	7/8	22.5	2	1987	3/4	M20	455	—
	32	800	305	940	900	864	—	796	800	—	48	7/8	22.5	2	2925	3/4	M20	460	—
	36	900	368	1055	1008.5	972	—	898	903	—	44	1	25.5	2	1430	7/8	M24	540	—
	42	1050	432	1225	1171.5	1130	—	1050	1055	—	48	1 1/8	28.5	2	2377	1	M27	625	—
	48	1200	524	1390	1335	1289	—	1200	1205	—	44	1 1/4	32	2	4174	1 1/8	M30	740	—
Class 300 ASME B16.47B	2	50	60	165	127	92	108	51	58	82.55	8	3/4	19	2	8	5/8	M16	155	175
	2 1/2	65	67	190	149	105	127	65	73	101.6	8	7/8	22.5	2	10	3/4	M20	175	195
	3	80	73	210	168.5	127	146	80	88	123.825	8	7/8	22.5	2	14	3/4	M20	190	210
	4	100	73	255	200	157	175	102	108	149.225	8	7/8	22.5	2	23	3/4	M20	195	215
	5	125	86	280	235	186	210	127	132	180.98	8	7/8	22.5	2	41	3/4	M20	215	235
	6	150	98	320	270	216	241	152	160	211.138	12	7/8	22.5	2	45	3/4	M20	230	250
	8	200	127	380	330	270	302	203	210	269.876	12	1	25.5	2	78	7/8	M24	280	300
	10	250	146	445	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	115	1	M27	315	335
	12	300	181	520	451	381	413	305	310	381.001	16	1 1/4	32	2	242	1 1/8	M30	365	385
	14	350	222	585	514.5	413	457	350	355	419.101	20	1 1/4	32	2	360	1 1/8	M30	410	430
	16	400	232	650	571.5	470	508	400	405	469.901	20	1 3/8	35	2	489	1 1/4	M33	435	455
	18	450	264	710	628.5	533	575	450	455	533.401	24	1 3/8	35	2	558	1 1/4	M33	475	495
	20	500	292	775	686	584	635	500	505	584.201	24	1 3/8	35	2	766	1 1/4	M33	510	535
	24	600	318	915	813	692	749	600	608	692.151	24	1 5/8	41	2	1190	1 1/2	M39	560	585
	30	750	368	990	921	845	—	735	740	—	36	1 1/2	38	2	1996	1 3/8	M36	650	—
	36	900	483	1170	1089	1010	—	873	880	—	32	1 3/4	44.5	2	2660	1 5/8	M42	800	—
	42	1050	568	1335	1245	1168	—	1035	1045	—	36	1 7/8	48	2	5515	1 3/4	M45	920	—
48	1200	629	1510	1416	1327	—	1179	1190	—	40	2	51	2	6239	1 7/8	M48	1010	—	
Class 600	2	50	60	165	127	92	108	51	58	82.55	8	3/4	19	7	8	5/8	M16	175	180
	2 1/2	65	67	190	149	105	127	65	73	101.6	8	7/8	22.5	7	10	3/4	M20	195	200
	3	80	73	210	168	127	146	80	88	123.825	8	7/8	22.5	7	14	3/4	M20	210	215
	4	100	79	275	216	157	175	102	108	149.225	8	1	22.5	7	30	7/8	M24	235	240
	5	125	105	330	266.5	186	210	127	136	180.975	8	1 1/8	28.5	7	58	1	M27	280	285
	6	150	136	355	292	216	241	152	162	211.138	12	1 1/8	28.5	7	81	1	M27	320	325
	8	200	165	420	349	270	302	200	212	269.876	12	1 1/4	32	7	134	1 1/8	M30	370	375
	10	250	213	510	432	324	356	250	266	323.851	16	1 3/8	35	7	234	1 1/4	M33	440	445
	12	300	229	560	489	381	413	305	312	381.001	20	1 3/8	35	7	304	1 1/4	M33	460	465
	14	350	273	605	527	413	457	337	355	419.101	20	1 1/2	38	7	490	1 3/8	M36	520	525
	16	400	305	685	603	470	508	387	400	469.901	20	1 5/8	41	7	680	1 1/2	M39	575	580
	18	450	362	745	654	533	575	438	450	533.401	20	1 3/4	44.5	7	978	1 5/8	M42	650	655
	20	500	368	815	724	584	635	489	500	584.201	24	1 3/4	44.5	7	1297	1 5/8	M42	670	680
	24	600	438	940	838	692	749	591	600	692.151	24	2	51	7	1554	1 7/8	M48	780	790

Check Valve

Pressure rating	Size		Dimensions (mm)												Weight (Kg)	Pipe flange (for reference)			
	NPS	DN	L	D	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1		N		Bolt diameter d		Bolt length L1	
						RF	RJ					in	mm			in	mm	RF	RJ
Class 900	2	50	70	215	165.1	92	124	51	58	95.25	8	1	25.5	7	16	7/8	M24	225	230
	2 1/2	65	83	245	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	22	1	M27	250	255
	3	80	83	240	190.5	127	156	80	90	123.82	8	1	25.5	7	26	7/8	M24	240	245
	4	100	102	290	234.9	157	181	102	108	149.22	8	1 1/4	32.0	7	45	1 1/8	M30	285	290
	5	125	110	350	279.4	186	216	127	136	180.98	8	1 3/8	35.0	7	81	1 1/4	M33	310	315
	6	150	159	380	317.5	216	241	150	162	211.12	12	1 1/4	32.0	7	115	1 1/8	M30	365	370
	8	200	206	470	393.7	270	308	200	212	269.88	12	1 1/2	38.0	7	217	1 3/8	M36	440	445
	10	250	241	545	469.9	324	362	250	266	323.85	16	1 1/2	38.0	7	330	1 3/8	M36	490	495
	12	300	292	610	533.4	381	419	305	312	381.00	20	1 1/2	38.0	7	509	1 3/8	M36	560	565
	14	350	356	640	558.8	413	467	337	355	419.10	20	1 5/8	41.0	7	765	1 1/2	M39	645	655
	16	400	384	705	615.9	470	524	387	400	469.90	20	1 3/4	44.5	7	890	1 5/8	M42	685	695
	18	450	451	785	685.8	533	594	438	450	533.40	20	2	51.0	7	1450	1 7/8	M48	790	805
	20	500	451	855	749.3	584	648	487	496	584.20	20	2 1/8	54.0	7	1960	2	M52	810	825
	24	600	495	1040	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	2351	2 1/2	M64	945	965
Class 1500	2	50	70	215	165.1	92	124	51	58	95.25	8	1	25.5	7	16	7/8	M24	225	230
	2 1/2	65	83	245	190.5	105	137	65	73	107.95	8	1 1/8	28.5	7	22	1	M27	250	255
	3	80	83	265	203.2	127	168	80	90	136.52	8	1 1/4	32.0	7	29	1 1/8	M30	270	275
	4	100	102	310	241.3	157	194	102	108	161.92	8	1 3/8	35.0	7	51	1 1/4	M33	310	315
	5	125	110	375	292.1	186	229	127	136	193.68	8	1 5/8	41.0	7	85	1 1/2	M39	370	375
	6	150	159	395	317.5	216	248	150	162	211.12	12	1 1/2	38.0	7	119	1 3/8	M36	430	440
	8	200	206	485	393.7	270	318	200	212	269.88	12	1 3/4	44.5	7	283	1 5/8	M42	510	520
	10	250	248	585	482.6	324	371	254	266	323.85	12	2	51.0	7	361	1 7/8	M48	600	610
	12	300	305	675	571.5	381	438	305	312	381.00	16	2 1/8	54.0	7	637	2	M52	695	715
	14	350	356	750	635	413	489	337	355	419.10	16	2 3/8	61.0	7	1097	2 1/4	M56	775	800
	16	400	384	825	704.8	470	546	387	400	469.90	16	2 5/8	66.5	7	1152	2 1/2	M64	850	880
	Class 2500	2	50	70	235	171.4	92	133	42	48	101.6	8	1 1/8	28.5	7	19	1	M27	255
2 1/2		65	83	265	196.8	105	149	52	58	111.12	8	1 1/4	32.0	7	31	1 1/8	M30	290	305
3		80	86	305	228.6	127	168	62	68	127	8	1 3/8	35.0	7	38	1 1/4	M33	320	330
4		100	105	355	273	157	203	88	94	157.18	8	1 5/8	41.0	7	69	1 1/2	M39	370	380
5		125	110	420	323.8	186	241	100	106	190.5	8	1 7/8	48.0	7	135	1 3/4	M45	420	435
6		150	159	485	368.3	216	279	150	162	228.60	8	2 1/8	54.0	7	184	2	M52	515	530
8		200	206	550	438.1	270	340	180	186	279.40	12	2 1/8	54.0	7	380	2	M52	600	620
10		250	254	675	539.7	324	425	225	232	342.90	12	2 5/8	66.5	7	489	2 1/2	M64	750	775
12		300	305	760	619.1	381	495	266	272	406.40	12	2 7/8	73.0	7	747	2 3/4	M70	855	885

■ Double flanged type double disc check valve (API) MV1223

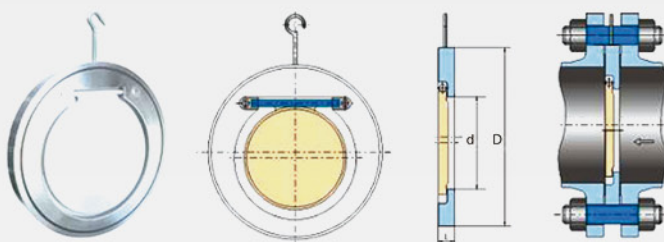


Pressure rating	Size		Dimensions (mm)											Pipe flange (for reference)					
	NPS	DN	L	D	D1	D2		D3	D4	P	Screw Quantity	Screw diameter d1		N	Bolt Quantity	Bolt diameter d		Bolt length L1	
						RF	RJ					in	mm			in	mm	RF	RJ
Class 150 ASME B16.47B	8	200	127	345	298.5	270	273	203	210	247.65	8	7/8	22.5	2	8	3/4	M20	120	135
	10	250	146	405	362	324	330	254	266	304.801	12	1	25.5	2	12	7/8	M24	135	150
	12	300	181	485	432	381	406	305	310	381.001	12	1	25.5	2	12	7/8	M24	135	150
	14	350	184	535	476	413	425	350	355	396.876	12	1 1/8	28.5	2	12	1	M27	145	160
	16	400	191	595	540	470	483	400	405	454.026	16	1 1/8	28.5	2	16	1	M27	155	170
	18	450	203	635	578	533	546	450	455	517.526	16	1 1/4	32	2	16	1 1/8	M30	165	180
	20	500	219	700	635	584	597	500	505	568.801	20	1 1/4	32	2	20	1 1/8	M30	170	185
	24	600	222	815	749.5	692	711	600	605	673.101	20	1 3/8	35	2	20	1 1/4	M33	185	200
	28	700	305	835	795.5	762	-	700	700	-	40	7/8	22.5	2	40	3/4	M20	205	-
	30	750	305	885	846	813	-	746	750	-	44	7/8	22.5	2	44	3/4	M20	210	-
	32	800	305	940	900	864	-	796	800	-	48	7/8	22.5	2	48	3/4	M20	225	-
	36	900	368	1055	1009.5	972	-	898	903	-	44	1	25.5	2	44	7/8	M24	250	-
	42	1050	432	1225	1171.5	1130	-	1050	1055	-	48	1 1/8	28.5	2	48	1	M27	275	-
	48	1200	524	1390	1335	1289	-	1200	1205	-	44	1 1/4	32	2	44	1 1/8	M30	305	-
Class 300 ASME B16.47B	8	200	127	380	330	270	302	203	210	269.876	12	1	22.5	2	12	7/8	M24	155	175
	10	250	146	445	387.5	324	356	254	266	323.851	16	1 1/8	28.5	2	16	1	M27	175	195
	12	300	181	520	451	381	413	305	310	381.001	16	1 1/4	32	2	16	1 1/8	M30	185	205
	14	350	222	585	514.5	413	457	350	355	419.101	20	1 1/4	32	2	20	1 1/8	M30	195	215
	16	400	232	650	571.5	470	508	400	405	469.901	20	1 3/8	35	2	20	1 1/4	M33	205	225
	18	450	264	710	628.5	533	575	450	455	533.401	24	1 3/8	35	2	24	1 1/4	M33	210	230
	20	500	292	775	686	584	635	500	505	584.201	24	1 5/8	35	2	24	1 1/4	M33	215	230
	24	600	318	915	813	692	749	600	608	692.151	24	1 1/2	41	2	24	1 1/2	M39	250	265
	30	750	368	990	921	845	-	735	740	-	36	1 3/4	38	2	36	1 3/8	M36	290	-
	36	900	483	1170	1089	1010	-	873	880	-	36	1 7/8	44.5	2	36	1 5/8	M42	325	-
	42	1050	568	1335	1245	1168	-	1035	1045	-	36	2	48	2	36	1 3/4	M45	360	-
	48	1200	629	1510	1416	1327	-	1179	1190	-	40	1 1/4	51	2	40	1 7/8	M48	400	-

Check Valve

Pressure rating	Size		Dimensions (mm)												Pipe flange (for reference)					
	NPS	DN	L	D	D1	D2		D3	D4	P	Screw Quantity	Screw dia- meter d1		N	Bolt Quantity	Bolt diameter d		Bolt length L1		
						RF	RJ					in	mm			in	mm	RF	RJ	
Class 600	8	200	165	420	349	270	302	200	212	269.876	12	1 3/8	32	7	12	1 1/8	M30	210	215	
	10	250	213	510	432	324	356	250	266	323.851	16	1 3/8	35	7	16	1 1/4	M33	230	235	
	12	300	229	560	489	381	413	305	312	381.001	20	1 1/2	35	7	20	1 1/4	M33	240	245	
	14	350	273	605	527	413	457	337	355	419.101	20	1 5/8	38	7	20	1 3/8	M36	260	265	
	16	400	305	685	603	470	508	387	400	469.901	20	1 1/2	41	7	20	1 1/2	M39	280	285	
	18	450	362	745	654	533	575	438	450	533.401	20	1 3/4	44.5	7	20	1 5/8	M42	295	300	
	20	500	368	815	724	584	635	489	500	584.201	20	1 3/4	44.5	7	20	1 5/8	M42	310	315	
	24	600	438	940	838	692	749	591	600	692.151	24	2	51	7	24	1 7/8	M48	350	360	
Class 900	8	200	206	470	393.7	270	308	200	212	269.88	24	1 1/2	38.0	7	24	1 3/8	M36	245	250	
	10	250	241	545	469.9	324	362	250	266	323.85	12	1 1/2	38.0	7	12	1 3/8	M36	260	265	
	12	300	292	610	533.4	381	419	305	312	381.00	16	1 1/2	38.0	7	16	1 3/8	M36	275	280	
	14	350	356	640	558.8	413	467	337	355	419.10	20	1 5/8	41.0	7	20	1 1/2	M39	295	305	
	16	400	384	705	615.9	470	524	387	400	469.90	20	1 3/4	44.5	7	20	1 5/8	M42	305	315	
	18	450	451	785	685.8	533	594	438	450	533.40	20	2	51.0	7	20	1 7/8	M48	350	365	
	20	500	451	855	749.3	584	648	487	496	584.20	20	1 1/4	54.0	7	20	2	M52	370	385	
	24	600	495	1040	901.7	692	772	591	600	692.15	20	2 5/8	66.5	7	20	2 1/2	M64	470	490	
Class 1500	8	200	206	485	393.7	270	318	200	212	269.88	20	1 3/4	45.0	7	20	1 5/8	M42	315	325	
	10	250	248	585	482.6	324	371	250	266	323.85	12	2	51.0	7	12	1 7/8	M48	365	375	
	12	300	305	675	571.5	381	438	305	312	381.00	16	2 1/8	54.0	7	16	2	M52	400	415	
	14	350	356	750	635	413	489	337	355	419.10	16	2 3/8	61.0	7	16	2 1/4	M56	435	455	
	16	400	384	825	704.8	470	546	387	400	469.90	16	2 5/8	66.5	7	16	2 1/2	M64	480	505	

■ Wafer type single disc check valve (forging body) short series MV1222

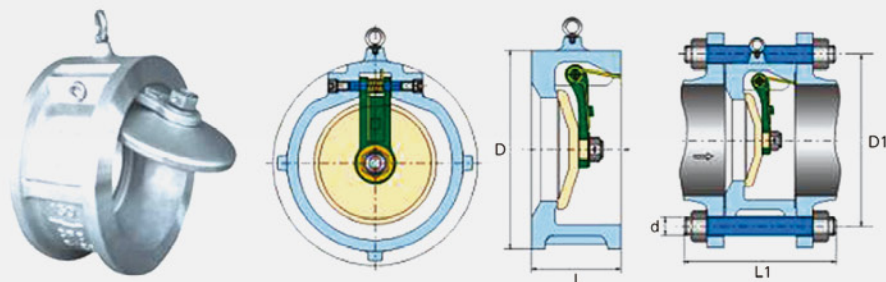


Size	d	L	D CLASS 150LB
50	30	19	104
65	40	19	123
80	52	19	136
100	71	19	174
125	93	19	196
150	114	19	221
200	157	29	278
250	195	29	339
300	230	38	409
350	270	44	449
400	310	51	512
450	360	60	548
500	406	64	605
600	490	70	716

Size	d	L	D CLASS 300LB
50	30	19	111
65	40	19	129
80	52	19	148
100	71	19	180
125	93	19	215
150	114	22	250
200	157	29	306
250	195	38	360
300	230	51	421
350	270	51	484
400	310	51	538
450	360	76	595
500	406	83	653

Size	d	L	D CLASS 600LB
50	30	19	111
65	40	19	129
80	52	19	148
100	71	22	192
125	93	25	240
150	114	29	265
200	157	38	319
250	195	57	399
300	230	60	456
350	270	67	491
400	310	73	563
450	360	83	611
500	406	92	681

■ Wafer type single disc check valve long series(API) MV1222L



Pressure rating	Size		Dimensions (mm)		Weight (Kg)	Pipe flange (for reference)					
	NPS	DN	L	D		Bolt hole center Diameter D1	Screw Quantity	Screw diameter d		Bolt length L1	
								in	mm	RF	RJ
Class 150	2	50	60	103	3	120.5	4	5/8	M16	140	155
	2 1/2	65	67	122	4	139.5	4	5/8	M16	150	165
	3	80	73	135	5	152.5	4	5/8	M16	160	175
	4	100	73	173	8	190.5	8	5/8	M16	170	185
	5	125	86	195	10	216	8	3/4	M20	190	205
	6	150	98	220	16	241.5	8	3/4	M20	205	220
	8	200	127	277	30	298.5	8	3/4	M20	240	255
	10	250	146	337	47	362	12	7/8	M24	270	285
	12	300	181	407	65	432	12	7/8	M24	310	325
	14	350	184	448	102	476	12	1	M27	325	340
	16	400	191	512	137	540	16	1	M27	340	355
	18	450	203	547	166	578	16	1 1/8	M30	365	380
	20	500	219	604	193	635	20	1 1/8	M30	385	400
	24	600	222	715	397	749.5	20	1 1/4	M33	405	420

Pressure rating	Size		Dimensions (mm)		Weight (Kg)	Pipe flange (for reference)					
	NPS	DN	L	D		Bolt hole center Diameter D1	Screw Quantity	Screw diameter d		Bolt length L1	
								in	mm	RF	RJ
Class 300	2	50	60	110	4	127	8	5/8	M16	155	175
	2 1/2	65	67	128	5	149	8	3/4	M20	175	195
	3	80	73	147	7	168.5	8	3/4	M20	190	210
	4	100	73	179	10	200	8	3/4	M20	195	215
	5	125	86	214	18	235	8	3/4	M20	215	235
	6	150	98	249	22	270	12	3/4	M20	230	250
	8	200	127	305	37	330	12	7/8	M24	280	300
	10	250	146	359	61	387.5	16	1	M27	315	335
	12	300	181	420	92	451	16	1 1/8	M30	365	385
	14	350	222	483	140	514.5	20	1 1/8	M30	410	430
	16	400	232	537	228	571.5	20	1 1/4	M33	435	455
	18	450	264	594	240	628.5	24	1 1/4	M33	475	495
	20	500	292	652	318	686	24	1 1/4	M33	510	535
	24	600	318	772	492	813	24	1 1/2	M39	560	585
Class 600	2	50	60	110	5	127	8	5/8	M16	175	180
	2 1/2	65	67	128	6	149	8	3/4	M20	195	200
	3	80	73	147	10	168	8	3/4	M20	210	215
	4	100	79	191	13	216	8	7/8	M24	235	240
	5	125	105	239	24	267	8	1	M27	280	285
	6	150	136	264	31	292	12	1	M27	320	325
	8	200	165	318	66	349	12	1 1/8	M30	370	375
	10	250	213	298	114	432	16	1 1/4	M33	440	445
	12	300	229	455	168	489	20	1 1/4	M33	460	465
	14	350	273	490	268	527	20	1 3/8	M36	520	525
	16	400	305	562	432	603	20	1 1/2	M39	575	580
	18	450	362	610	474	654	20	1 5/8	M42	650	655
	20	500	368	680	622	724	24	1 5/8	M42	670	680
	24	600	438	786	1003	838	24	1 7/8	M48	780	790
Class 900	2	50	70	140	10	165	8	7/8	M24	225	230
	2 1/2	65	83	162	13	190.5	8	1	M27	250	255
	3	80	83	165	17	190.5	8	7/8	M24	240	245
	4	100	102	204	24	235	8	1 1/8	M30	285	290
	5	125	110	245	36	279.5	8	1 1/4	M33	310	315
	6	150	159	286	50	317.5	12	1 1/8	M30	365	370
	8	200	206	356	101	393.5	12	1 3/8	M36	440	445
	10	250	241	432	174	470	16	1 3/8	M36	490	495
	12	300	292	495	264	533.5	20	1 3/8	M36	560	565
	14	350	356	518	420	559	20	1 1/2	M39	645	655
	16	400	384	572	564	616	20	1 5/8	M42	685	695
	18	450	451	635	726	686	20	1 7/8	M48	790	805
	20	500	451	695	984	749.5	20	2	M52	810	825
	24	600	495	835	1260	901.5	20	2 1/2	M64	945	965

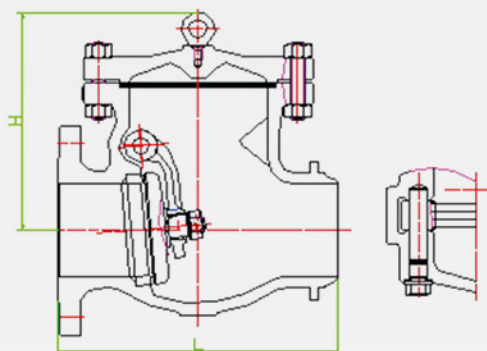
■ Wafer type lift check valve(API) WA001



Pressure rating	Size		Dimensions (mm)					Weight (Kg)	Pipe flange (for reference)					
	NPS	DN	L	D	D2	D3	D4		Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d1		Bolt length L1	
											in	mm	RF	RJ
Class 150	1/2	15	25	46	15	25	25	0.28	60.5	4	1/2	M14	90	—
	3/4	20	31.5	56	19	30	30	0.42	70	4	1/2	M14	100	—
	1	25	35.5	65	24	36	36	0.56	79.5	4	1/2	M14	105	120
	1 1/4	32	40	74	31	43	43	0.75	89	4	1/2	M14	115	130
	1 1/2	40	45	84	39	52	52	1.3	98.5	4	1/2	M14	120	135
	2	50	56	103	48	62	62	2.1	120.5	4	5/8	M16	140	155
	2 1/2	65	63	122	62	75	75	2.8	139.5	4	5/8	M16	155	170
	3	80	71	135	76	90	90	3.6	152.5	4	5/8	M16	165	180
	4	100	80	173	95	112	112	4.8	190.5	8	5/8	M16	175	190
	5	125	110	195	110	125	132	12	216	8	3/4	M20	210	225
	6	150	125	220	127	150	158	17	241.5	8	3/4	M20	230	245
Class 300	1/2	15	25	52	15	25	25	0.3	66.5	4	1/2	M14	95	105
	3/4	20	31.5	65	19	30	30	0.46	82.5	4	5/8	M16	110	125
	1	25	35.5	72	24	36	36	0.6	89	4	5/8	M16	115	130
	1 1/4	32	40	81	31	43	43	0.8	98.5	4	5/8	M16	125	140
	1 1/2	40	45	94	39	52	52	1.5	114.5	4	3/4	M20	140	155
	2	50	56	110	48	62	62	2.4	127	8	5/8	M16	145	170
	2 1/2	65	63	128	62	75	75	3	149	8	3/4	M20	170	190
	3	80	71	147	76	90	90	4	168.5	8	3/4	M20	185	205
	4	100	80	179	95	112	112	5.5	200	8	3/4	M20	200	220
	5	125	110	214	110	125	132	13	235	8	3/4	M20	235	255
	6	150	125	249	127	150	158	22	270	12	3/4	M20	255	275
	8	200	160	305	165	200	208	36	330	12	7/8	M24	305	325

Pressure rating	Size		Dimensions (mm)					Weight (Kg)	Pipe flange (for reference)					
	NPS	DN	L	D	D2	D3	D4		Bolt hole center Diameter D1	Bolt Quantity	Screw diameter d1		Bolt length L1	
											in	mm	RF	RJ
Class 600	1/2	15	25	52	15	25	25	0.4	66.5	4	1/2	M14	95	105
	3/4	20	31.5	65	19	30	30	0.8	82.5	4	5/8	M16	110	125
	1	25	35.5	72	24	36	36	1	89	4	5/8	M16	115	130
	1 1/4	32	40	81	31	43	43	1.3	98.5	4	5/8	M16	125	140
	1 1/2	40	45	94	39	52	52	1.8	114.5	4	3/4	M20	145	160
	2	50	56	110	48	62	62	2.8	127	8	5/8	M16	155	170
	2 1/2	65	63	128	62	75	75	4	149	8	3/4	M20	175	195
	3	80	71	147	76	90	90	6	168.5	8	3/4	M20	190	210
	4	100	80	191	95	112	112	11	216	8	7/8	M24	220	240
	5	125	110	239	110	125	132	25	267	8	1	M27	265	285
	6	150	125	264	127	150	158	32	292	12	1	M27	290	310
	8	200	160	318	165	200	208	52	349	12	1 1/8	M30	345	365
Class 900	1/2	15	25	62	15	25	25	0.6	82.5	4	3/4	M20	125	140
	3/4	20	31.5	69	19	30	30	0.9	89	4	3/4	M20	135	150
	1	25	35.5	77	24	36	36	1.2	101.5	4	7/8	M24	155	170
	1 1/4	32	40	87	31	43	43	1.5	111	4	7/8	M24	160	175
	1 1/2	40	45	97	39	52	52	2	124	4	1	M27	175	190
	2	50	56	140	48	62	62	5.5	165	8	7/8	M24	195	210
	2 1/2	65	63	162	62	75	75	7.5	190.5	8	1	M27	215	230
	3	80	71	165	76	90	90	8	190.5	8	7/8	M24	210	225
	4	100	80	204	95	112	112	14	235	8	1 1/8	M30	245	260
	5	125	110	245	110	125	132	27	279.5	8	1 1/4	M33	290	310
	6	150	125	286	127	150	158	41	317.5	12	1 1/8	M30	310	325
	8	200	160	356	165	200	208	76	393.5	12	1 3/8	M36	375	390

■ Cast Swing Check Valve (Bolted Bonnet) SF/SCB (Flanged End/Butt weld End)



Class 150 Cast Check Valve SF150/SCB150

NPS	in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1	in	8	8.5	9.5	11.5	13	14	19.5	24.5	27.5	31	34	38.5	38.5	51	51	57	60	68	77	85	89	101
(RF-BW)	mm	203	216	241	292	330	356	495	622	699	787	864	978	978	1295	1295	1448	1524	1727	1956	2159	2261	2566
H	in	5.9	6.6	6.7	8	9.1	11.7	13.8	15.3	17.2	18.8	20.7	22.9	24.7	34.6	35.8	36.8	38.2	49.2	54.2	55.5	57.8	64.6
	mm	150.5	168	171	204	230	296.5	351.5	389.5	437.5	476.5	525	582	627	880	910	935	970	1250	1377	1410	1468	1642
WT (RF)	Kg	15	22	28	42	57	79	131	177	282	380	542	632	855	970	1276	1600	2020	2430	3130	4230	5030	6680
WT (BW)	Kg	10	12	17	29	45	57	96	143	227	294	468	552	755	831	1120	1420	1760	2130	2930	3730	4430	5680

(1) Remark: Sizes above 48", please contact our sales department or technical department.

Class 300 Cast Check Valve SF300/SCB300

NPS	in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1	in	10.5	11.5	12.5	14	15.75	17.5	21	24.5	28	33	34	38.5	40	53	53	59	62.75	68	82	96	103	124
(RF-BW)	mm	267	292	318	356	400	445	533	622	711	838	864	978	1016	1346	1346	1499	1594	1727	2083	2438	2617	3151
H	in	6.9	7.3	8.5	10.2	12	12.5	15	17.1	20.1	22.1	23.5	26.6	28.7	33.9	36.6	45.8	50	50	59.4	68.9	73.6	87.8
	mm	176	185	216	259	304	317	380	434	511	561	596	675	730	860	930	1163	1270	1270	1510	1750	1870	2230
WT (RF)	Kg	20	30	40	65	84	118	193	310	450	595	840	933	1320	1848	2375	2660	3680	3880	5030	6290	7050	9310
WT (BW)	Kg	16	22	30	53	73	101	157	232	414	455	766	774	960	1792	1995	2260	2780	3380	4430	5640	6150	8310

Remark: Sizes above 48", please contact our sales department or technical department.

Class 600 Cast Check Valve SF600/SCB600

NPS	in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	63	65	70	82	90	96	100
(RF-BW)	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1600	1651	1778	2083	2286	2438	2540
L2 (RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.5	63.5	65.5	70.6	82.6	-	-	-
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1613	1664	1794	2099	-	-	-
H	in	7.2	8.3	9.1	10.4	11.6	14.7	16.8	20.4	22.4	24.5	26.8	29.6	38.4	43.7	43.7	46.9	52.1	53.8	60.7	67	70.9	85.5
	mm	184	210	232	263	295	374	426	517	569	622	680	752	975	1111	1110	1192	1324	1367	1542	1702	1800	2171
WT (RF)	Kg	30	43	55	93	160	208	339	547	715	885	1310	1620	2120	3100	3800	4600	5500	6800	8100	8900	9800	11100
WT (BW)	Kg	21	35	43	64	115	145	256	375	589	694	932	1279	1702	2497	3100	3900	4700	6000	7200	8100	9900	10200

Remark: Sizes above 48", please contact our sales department or technical department.

Class 900 Cast Check Valve SF900/SCB900

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L-L1	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	65	69	73	77	84.9
(RF-BW)	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1651	1753	1854	1956	2156
L2 (RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.7	65.9	69.9	73.9	-	-
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1333	1568	1673	1775	1876	-	-
H	in	11.7	11.8	11.8	12.9	17.4	19.8	26.1	30.5	30.8	33	33	36.7	36.4	44.1	54	59.9	65.8	71.7
	mm	296	300	300	327	441	502	664	775	782	838	839	932	924	1121	1372	1521	1671	1821
WT (RF)	Kg	70	100	110	150	305	510	810	1120	1380	1900	3000	4000	5200	6600	7550	8850	10150	12750
WT (BW)	Kg	50	68	77	113	230	387	632	901	1139	1613	2660	3550	4650	5630	6420	7510	8600	10780

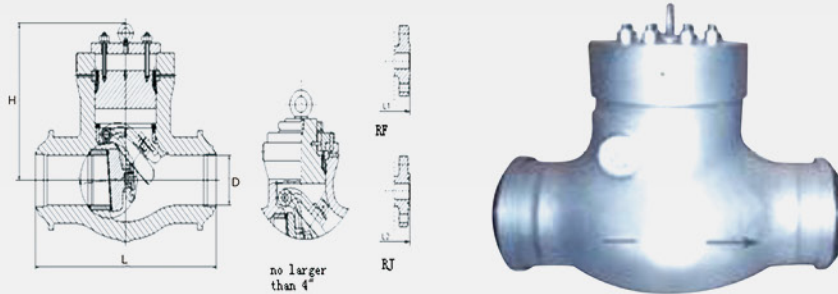
Class 1500 Cast Check Valve SF1500/SCB1500

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750
L-L1	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	66.5	76.5	82	87.5	93
(RF-BW)	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	2083	2222.5	2362
L2 (RTJ)	in	14.62	16.62	18.62	21.62	28	33.13	39.38	45.12	50.25	55.38	61.4	66.4	77.6	-	-	-
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972	-	-	-
H	in	11.7	11.8	13.4	16.2	20.1	26.8	29.8	33.7	37.4	40.1	45.2	50.6	60.6	70.6	80.7	90.7
	mm	296	300	341	412	511	680	756	857	950	1020	1147	1284	1539	1794	2049	2304
WT (RF)	Kg	70	100	150	245	550	1010	1476	2280	3060	4500	6100	8000	9800	11600	13400	15200
WT (BW)	Kg	50	77	115	190	452	750	1012	1780	2290	3500	5200	7500	8400	9300	10200	11100

Class 2500 Cast Check Valve SF2500/SCB2500

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L-L1	in	17.75	20	22.75	26.5	36	40.25	50	56	62	68	73.9	79.9	91.9
(RF-BW)	mm	451	508	578	673	914	1022	1270	1422	1575	1727	1877	2029	2334
L2 (RTJ)	in	17.87	20.25	23	26.88	36.5	40.87	50.88	56.88	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1445	-	-	-	-	-
H	in	16.4	16.5	17.4	18.9	20.1	28	33.5	39.4	47.2	51.2	55.1	59.1	63
	mm	416	419	441	479	511	711	851	1000	1200	1300	1400	1500	1600
WT (RF)	Kg	145	240	330	650	806	2420	3750	5500	7400	9010	11200	12700	14000
WT (BW)	Kg	110	190	260	535	665	1980	2980	4350	6200	8250	9400	11890	13000

■ Cast Swing Check Valve(Pressure Sealed) SFP/SCBP (Flanged End/Butt weld End)



Class 600 Cast Pressure Sealed Check Valve SF600P/SCB600P

NPS	in	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750
L	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	63	65
(RF-BW)	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1600	1651
L2 (RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.13	47.25	55.38	57.5	63.5	65.5
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1613	1664
H	in	9.5	10.4	10.6	12.5	15.7	15.7	23.1	23.9	27.4	29.5	28.7	28.75	32.25	37.38	39.38	43.25	47.25
	mm	241	264	270	318	400	400	587	606	695	749	730	730	819	949	1000	1099	1200
WT (RF)	Kg	27	35	45	85	135	190	350	500	670	880	1150	1480	1880	2600	3100	3500	4000
WT (BW)	Kg	18	25	32	55	85	130	260	370	490	660	850	1100	1490	2040	2500	2800	3150

Class 900 Cast Pressure Sealed Check Valve SF900P/SCB900P

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750
L (BW)	in	8.5	10	12	14	20	26	31	36	39	43	48	52	61	63	67	71
	mm	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1600	1702	1803
L1 (RF)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	65	69	73
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1651	1753	1854
L2 (RTJ)	in	14.6	16.1	15.1	18.1	24.1	29.1	33.1	38.1	40.9	44.9	48.5	52.5	61.75	65.88	69.88	73.88
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1333	1568	1673	1775	1876
H	in	9.5	10.4	10.6	12.5	15.7	23.1	23.9	27.4	29.5	28.7	33.5	34	37.75	39.38	45.25	55.13
	mm	241	264	270	318	400	587	606	695	749	730	851	864	959	1000	1149	1400
WT (RF)	Kg	42	55	58	110	242	599	893	1365	1628	1733	2300	3000	4100	4600	5200	6000
WT (BW)	Kg	21	32	34	68	168	462	725	1071	1281	1418	1850	2400	2900	3600	4000	4600

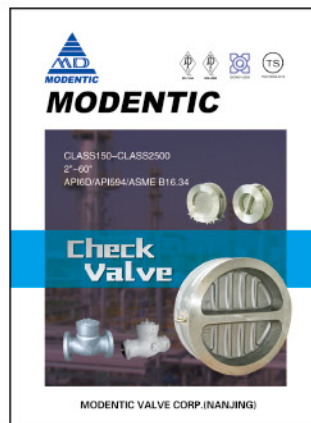
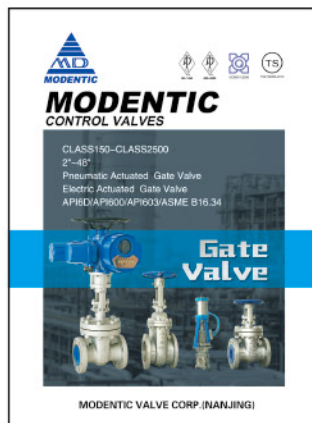
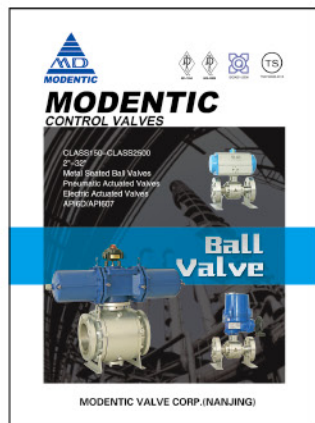
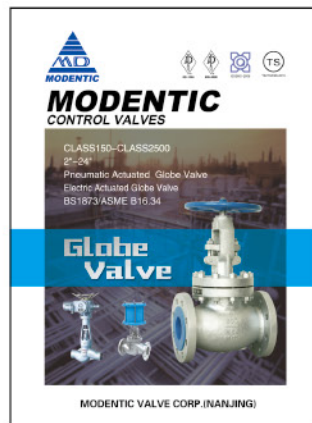
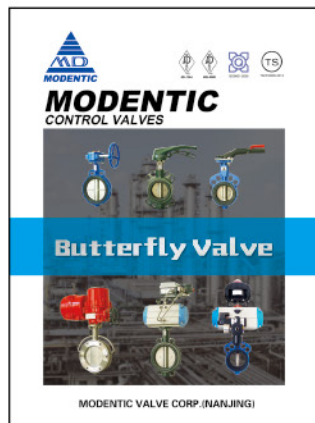
Check Valve

Class 1500 Cast Pressure Sealed Check Valve SF1500P/SCB1500P

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L (BW)	in	8.5	10	12	16	22	28	34	39	42	47	60.5	65.5	76.5
	mm	216	254	305	406	559	711	864	991	1067	1194	1537	1664	1943
L1 (RF)	in	14.5	16.5	18.5	21.5	27.8	32.8	39	44.5	49.5	54.4	60.5	65.5	76.5
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943
L2 (RTJ)	in	14.6	16.6	18.6	21.6	28	33.1	39.4	45.1	50.3	55.4	61.38	66.38	77.63
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
H	in	9.5	10.4	10.8	12.5	16.6	18.9	23.3	25.4	28	29.5	34.63	37.38	43.25
	mm	241	264	274	318	422	479	591	645	711	749	880	949	1099
WT (RF)	Kg	42	58	105	147	360	641	1103	1628	2205	2730	3300	4200	6000
WT (BW)	Kg	21	34	42	74	233	504	777	1155	1481	1680	2100	2600	3500

Class 2500 Cast Pressure Sealed Check Valve SF2500P/SCB2500P

NPS	in	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L (BW)	in	11	13	14.5	18	24	30	36	41	44	49	55	61	68
	mm	279	330	368	457	610	762	914	1041	1118	1245	1397	1549	1727
L1 (RF)	in	17.8	20	22.8	26.5	36	40.3	50	56					
	mm	451	508	578	673	914	1022	1270	1422					
L2 (RTJ)	in	17.9	20.3	23	26.9	36.5	40.9	50.9	56.9	60.88				
	mm	454	514	584	683	927	1038	1292	1445	1546	-	-	-	-
H	in	9.6	10.4	10.6	12.5	17.8	22	22.7	25.8	33.88	35.38	39.38	45.25	55.13
	mm	245	264	270	318	451	559	576	656	860	899	1000	1149	1400
WT (RF)	Kg	89	124	163	299	588	1071	1676	2772	3350				
WT (BW)	Kg	53	74	89	142	285	598	783	1512	2450	3200	4050	5000	7200



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