



**ZHEJIANG COTECH
VALVE CO., LTD.**

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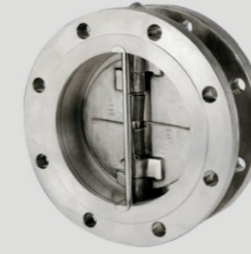
Our high quality
valves and
satisfaction
services bring
you Total
Solutions of
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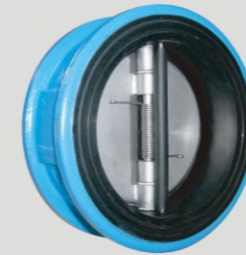




Wafer Dual Plate
Lug Type



Wafer Dual Plate
Double Flange Type



Wafer Dual Plate
Rubber Lined Type



Wafer Dual Plate Type



Wafer Single
Plate Thin Type



Wafer Single
Plate Type



Wafer Lift Type



Wafer Single Plate
Damper Type



COTECH Brief

ZHEJIANG COTECH VALVE CO., LTD specializes in producing wafer check valves equipped with 80 sets of machines occupying foorage area of 5000 m² and possessing 120 employees, of which 25 are professional engineers. The products are widely used in the felds of petroleum, chemical industry, metallurgy, power, paper industry, medicine and city constructon etc. and are exported to many countries like America, Europe, middle east and southeast and so on . And we win good reputaton with steady quality. To meet the demands of market and the development of corporaton, we are building a new industrial park with an area of 15000 m². It is scheduled that the producton capacity will be up to 150 Million Yuan afer the new industrial park is fnished.

We have set up perfect quality management system equipped with advanced testng and processing machines, such as material inspecton and analysis, Non-Destructve Testng, process inspecton, pressure test, material heat treatment, shot-peening and lapping etc. to make sure the products fully conform with the specifcatons to satsfy the customers' requirements.

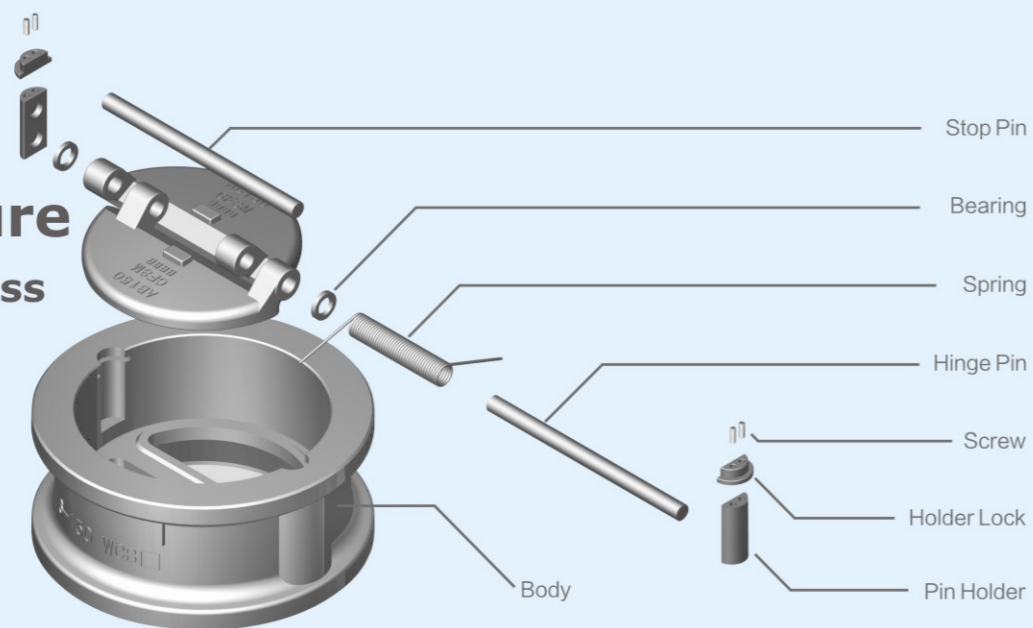
We set up ERP enterprise management system, CAD design R&D Center with design development ability like three dimensional drawing, fnite element analysis etc. and gradually develop into CAD/CAM. As for the structure defciency of wafer double disc check valve, we have developed a new shaf - embedded type wafer double disc check valve and have attained the patent(NO: ZL 2006 2 0118346.2), making up the blank of domestic market.

Scientfc management, strict discipline; contnuous improvement, never feeling satsfied; customer satsfied, strive to create frst-class enterprise” is not only the everlasting pursuit of COTECH, but also the sincere commitment to quality and service for wide range of end-users.

Plant of Cotech



Structure Retainerless Design



Applications

COTECH VALVES are used by the world's leading industrial companies to help keep their Operating Facilities Running Smoothly. In fact,

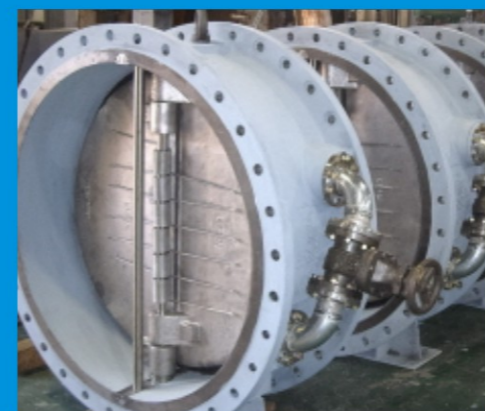
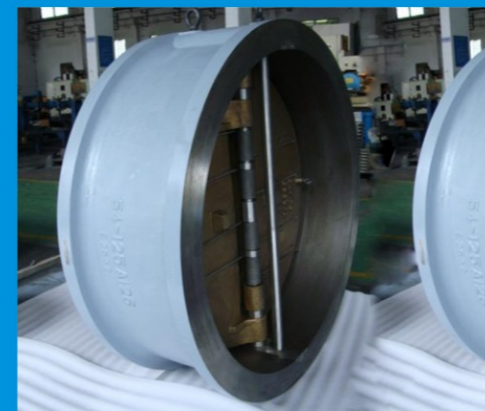
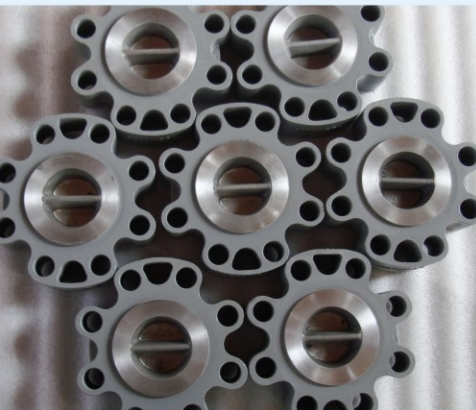
COTECH VALVES have a long history of proving themselves in many of the industrial world's toughest applications.



Equipment

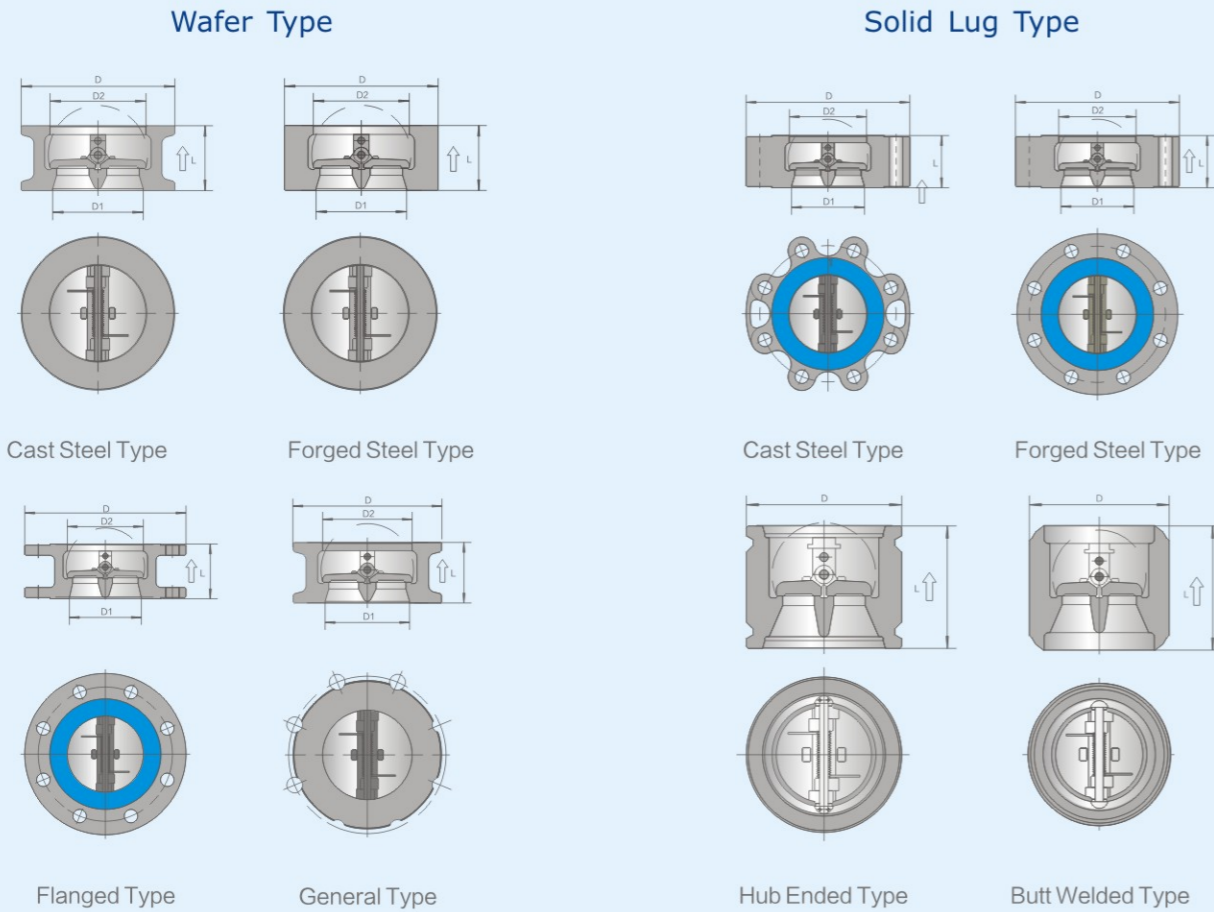


**Our high quality
valves and
satisfaction
services bring
you Total
Solutions of
Industrial Wafer
Check Valves**



Dual Plate Check Valve

Dual Plate Check Valve Types



Standards

1	Design and Manufacture	API 594 \ API 6D \ JB / T 8937
2	Pressure-temperature Ratings	ASME B16.34 \ DIN 2401 \ GB / T 9124
3	Face-to-face Dimensions	API 594 \ API 6D \ DIN 3202 \ JB / T 8937
4	Inspection and Test	API 598 \ API 6D \ JB / T 9092
5	End Flange Dimensions	ASME B16.5 \ ASME B1647 \ API 605 \ ISO 7005-1 \ JIS B2238 \ DIN 2543~2548 \ GB / T 9112~9124 \ JB/T 74-90 \ HG 20592~20635
6	Materials (Cast or Forged)	ASTM \ GB \ JIS \ DIN \ BS

Pressure Rating and Size

ASME CLASS						
150	300	600	900	1500	2500	
2~60" (50~1500mm)	2~60" (50~1500mm)	2~48" (50~1200mm)	2~48" (50~1200mm)	2~24" (50~600mm)	2~60" (50~300mm)	
API 6A			JIS			
2 1/16~20 3/4"	2 1/16~20 3/4"	2 1/16~11"	50A~1200A	50A~900A	50A~400A	
PN (Mpa)						
PN 10	PN 16	PN 25	PN 40	PN 63	PN 100	
50~1600mm	50~1600mm	50~1200mm	50~600mm	50~400mm	50~400mm	

Dual Plate Check Valve

Material List

BODY	DISC	BODY SEAT	DISC SEAT	SPRING	WETTED PARTS
A216 WCB / A105	A351 CF8	410SS/STELLITE	Same as Disc	Inconel x-750	410 SS
A216 WCB / A105	A351 CF8	VITON/BUNA-N/EPDM	Same as Disc	Inconel x-750	410 SS
A216 WCB / A105	A351 CF8M	316SS/STELLITE	Same as Disc	Inconel x-750	316 SS
A216 WCB / A105	A351 CF8M	VITON/BUNA-N/EPDM	Same as Disc	Inconel x-750	316 SS
A352 LCC / A350 LF2	A351 CF8M	316SS/STELLITE	Same as Disc	Inconel x-750	316 SS
A352 LCC / A350 LF2	A351 CF8M	VITON/BUNA-N/EPDM	Same as Disc	Inconel x-750	316 SS
A351 CFBM / A182 F316	A351 CF8M	Same as Body	Same as Disc	Inconel x-750	316 SS
A351 CFBM / A182 F316	A351 CF8M	VITON/BUNA-N/EPDM	Same as Disc	Inconel x-750	316 SS
A890 GR 4A	A890 GR 4A	Same as Body	Same as Disc	Inconel x-750	A182 F51
A890 GR 5A	A890 GR 5A	Same as Body	Same as Disc	Inconel x-750	A182 F53
UNS S31254	UNS S31254	Same as Body	Same as Disc	Inconel x-750	254-SMO
UNS N26625	UNS N26625	Same as Body	Same as Disc	Inconel x-750	Inconel 625

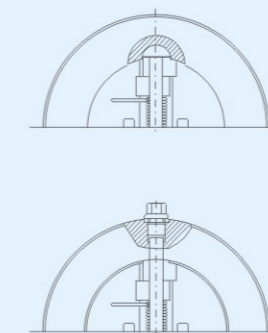
Structure Features

- Retainerless body; No gasket restrictions; No media leakage.
- It is short in face to face dimensions, being 1/4~1/8 times of traditional fange type check valve.
- It is impact in volume size and light in weight of about 1/4~1/20 times that of traditional fange type check valve
- The disc closes quickly with less water hammer pressure.
- It is convenient in installation, being available for use on level or vertical pipelines.
- Flow passage is fluent with less flow resistance.
- Disc travel is short with less impact force caused by valve closing.
- Soft seat is rubber cure process and fire safe design.

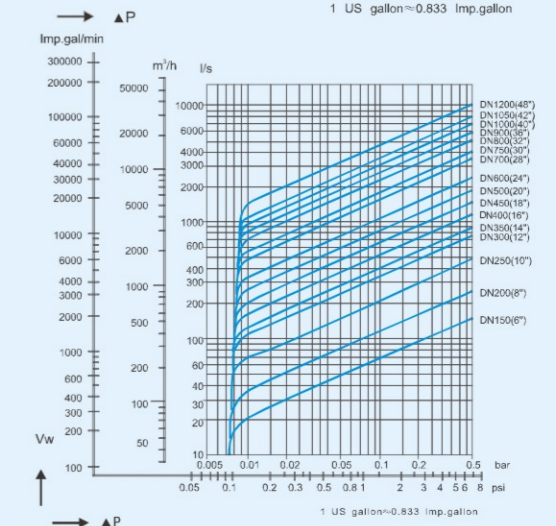
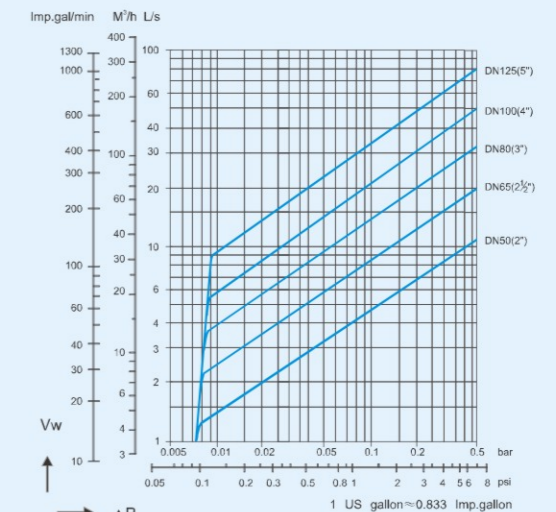
Structure Comparison

The Dual Plate Check Valve's body is essentially a short, heavy wall cylinder with no holes through the body wall. There is no need for retainers and leakage to the outside is impossible.

Conventional Dual Plate Check Valves Require holes through the body wall to facilitate the installation of the hinge and stop pins. These holes are sealed by threaded pipe plugs called retainers. After being in service for a period of time, these plugs often leak due to temperature cycling, vibration and other causes.



Fluid Dynamics



Dual Plate Check Valve

Main Outline Dimensions (Wafer Type)

Class 150

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 150 PN 20	1 1/2	40	60	85	40	42	1.5	98.5	4	1/2	M12	130	145
	2	50	60	103	51	55	2.2	120.5	4	5/8	M16	140	155
	2 1/2	65	67	122	65	68	3.1	139.5	4	5/8	M16	150	165
	3	80	73	135	80	82	4.3	152.5	4	5/8	M16	160	175
	4	100	73	173	102	108	6.3	190.5	8	5/8	M16	170	185
	5	125	86	195	127	130	8.4	216	8	3/4	M20	190	205
	6	150	98	221	152	165	12.6	241.5	8	3/4	M20	205	220
	8	200	127	277	203	220	24	298.5	8	3/4	M20	240	255
	10	250	146	337	254	270	40	362	12	7/8	M24	270	285
	12	300	181	408	305	320	66	432	12	7/8	M24	310	325
	14	350	184	448	337	350	83	476	12	1	M27	325	340
	16	400	191	513	387	400	102	540	16	1	M27	340	355
	18	450	203	547	438	438	124	578	16	1 1/8	M30	365	380
	20	500	219	604	495	495	150	635	20	1 1/8	M30	385	400
	24	600	222	715	595	595	203	749.5	20	1 1/4	M33	405	420
	28	700	305	830	685	685	380	863.6	28	1 1/4	M33	540	-
	30	750	305	880	735	735	413	914.4	28	1 1/4	M33	550	-
	32	800	305	938	780	780	580	978	28	1 1/2	M39	570	-
	36	900	368	1045	875	875	665	1085.8	32	1 1/2	M39	660	-
	40	1000	432	1160	975	975	880	1200	36	1 1/2	M39	720	-
42	1050	432	1216	1020	1020	998	1257.3	36	1 1/2	M39	740	-	
48	1200	524	1380	1165	1165	1470	1422.4	44	1 1/2	M39	850	-	
54	1350	568	1546	1320	1320	2100	1593.8	44	1 3/4	M45	940	-	
60	1500	629	1708	1460	1460	2950	1757	52	1 3/4	M45	1020	-	

Class 300

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 300 PN 50	1 1/2	40	60	94	40	42	1.8	114.5	4	3/4	M20	160	170
	2	50	60	110	51	55	2.5	127	8	5/8	M16	155	175
	2 1/2	65	67	128	65	68	4	149	8	3/4	M20	175	195
	3	80	73	147	80	82	5	168.5	8	3/4	M20	190	210
	4	100	73	179	102	108	7	200	8	3/4	M20	195	215
	5	125	86	214	127	130	11.2	235	8	3/4	M20	215	235
	6	150	98	249	152	165	16.5	270	12	3/4	M20	230	250
	8	200	127	305	203	220	31.5	330	12	7/8	M24	280	300
	10	250	146	359	254	270	49.5	387.5	16	1	M27	315	335
	12	300	181	420	305	320	81	451	16	1 1/8	M30	365	385
	14	350	222	483	337	350	117	514.5	20	1 1/8	M30	410	430
	16	400	232	537	387	400	158	571.5	20	1 1/4	M33	435	455
	18	450	264	594	438	438	200	628.5	24	1 1/4	M33	475	495
	20	500	292	652	495	495	285	686	24	1 1/4	M33	510	535
	24	600	318	772	595	595	380	813	24	1 1/2	M39	560	585
	28	700	368	896	685	685	586	939.8	28	1 5/8	M42	660	-
	30	750	368	950	735	735	696	997	28	1 3/4	M45	680	-
	32	800	368	1004	780	780	986	1054	28	1 7/8	M48	700	-
	36	900	483	1114	875	875	1070	1168.4	32	2	M51	840	-
	40	1000	568	1110	975	975	1320	1155.7	32	1 5/8	M42	920	-
42	1050	568	1160	1020	1020	1500	1206.5	32	1 5/8	M42	930	-	
48	1200	629	1320	1165	1165	2250	1371.6	32	1 7/8	M48	1030	-	
54	1350	635	1488	1320	1320	3360	1549.4	28	2 1/4	M57	1100	-	
60	1500	701	1640	1460	1460	4425	1701.8	32	2 1/4	M57	1190	-	

Dual Plate Check Valve

Class 600

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 600 PN 110	2	50	60	110	51	55	2.5	127	8	5/8	M16	175	180
	2 1/2	65	67	128	65	68	4	149	8	3/4	M20	195	200
	3	80	73	147	80	82	5	168.5	8	3/4	M20	210	215
	4	100	79	191	102	108	9	216	8	7/8	M24	235	240
	5	125	105	240	127	130	14.5	267	8	1	M27	280	285
	6	150	136	264	152	165	27	292	12	1	M27	320	325
	8	200	165	318	200	210	48	349	12	1 1/8	M30	370	375
	10	250	213	398	250	255	93.5	432	16	1 1/4	M33	440	445
	12	300	229	455	300	300	114.5	489	20	1 1/4	M33	460	465
	14	350	273	490	335	335	187	527	20	1 3/8	M36	520	525
	16	400	305	562	385	385	261	603	20	1 1/2	M39	575	580
	18	450	362	610	435	435	365	654	20	1 5/8	M42	650	655
	20	500	368	680	487	487	453	724	24	1 5/8	M42	670	680
	24	600	438	786	585	585	705	838	24	1 7/8	M48	780	790
	28	700	505	912	685	685	995	965.2	28	2	M51	870	880
	30	750	505	968	735	735	1180	1022.4	28	2	M51	880	890
	32	800	505	1020	780	780	1675	1079.5	28	2 1/4	M57	900	910
	36	900	635	1128	875	875	2110	1193.8	28	2 1/2	M64	1050	1060
	40	1000	701	1152	975	975	2245	1212.8	32	2 1/4	M57	1180	1190
	42	1050	701	1215	1020	1020	2550	1282.7	28	2 1/2	M64	1210	1220
48	1200	787	1386	1165	1165	3830	1460.5	32	2 3/4	M70	1360	1370	

Class 900

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 900 PN 150	2	50	70	140	50	55	6	165	8	7/8	M24	225	230
	2 1/2	65	83	162	65	68	7.5	190.5	8	1	M27	250	255
	3	80	83	165	75	82	9.6	190.5	8	7/8	M24	240	245
	4	100	102	204	100	108	17	235	8	1 1/8	M30	285	290
	5	125	110	245	125	130	28	279.5	8	1 1/4	M33	310	315
	6	150	159	286	150	160	41	317.5	12	1 1/8	M30	365	370
	8	200	206	356	200	210	80	393.5	12	1 3/8	M36	440	445
	10	250	241	432	250	255	135	470	16	1 3/8	M36	490	495
	12	300	292	495	300	300	212	533.5	20	1 3/8	M36	560	565
	14	350	356	520	325	325	335	559	20	1 1/2	M39	645	655
	16	400	384	572	380	380	395	616	20	1 5/8	M42	685	695
	18	450	451	636	425	425	600	686	20	1 7/8	M48	790	800
	20	500	451	696	475	475	810	749.5	20	2	M52	810	820
	24	600	495	835	570	570	1030	901.5	20	2 1/2	M64	945	955
	28	700	559	944	670	670	1450	1022.4	20	3	M76	1050	1060
	30	750	559	1008	715	715	1820	1085.8	20	3	M76	1060	1070
	32	800	559	1070	760	760	2100	1155.7	20	3 1/4	M82	1100	1110
	36	900	701	1198	860	860	3250	1289	20	3 1/2	M88	1280	1290

Dual Plate Check Valve

Class 1500

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 1500 PN 260	2	50	70	140	50	55	6	165	8	7/8	M24	225	230
	2 1/2	65	83	162	65	68	7.5	190.5	8	1	M27	250	255
	3	80	83	172	75	82	9.6	203	8	7/8	M30	270	275
	4	100	102	208	100	108	17	241.5	8	1 1/4	M33	310	315
	5	125	110	252	125	130	38	292	8	1 1/2	M39	370	375
	6	150	159	281	150	150	50	317.5	12	1 3/8	M36	430	440
	8	200	206	350	200	200	96	393.5	12	1 5/8	M42	510	520
	10	250	248	433	250	250	176	482.5	12	1 7/8	M48	600	610
	12	300	305	518	300	300	287	571.5	16	2	M52	695	710
	14	350	356	576	320	320	433	635	16	2 1/4	M56	775	790
	16	400	384	640	370	370	580	705	16	2 1/2	M64	850	870
	18	450	468	703	420	420	780	774.7	16	2 3/4	M70	970	990
20	500	533	754	470	470	1250	831.8	16	3	M76	1080	1100	
24	600	559	898	570	570	2700	990.6	16	3 1/2	M88	1190	1210	

Class 2500

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 2500 PN 420	2	50	70	143	50	55	9	171.5	8	1	M27	255	260
	2 1/2	65	83	166	65	68	12	197	8	1 1/8	M30	290	300
	3	80	86	194	75	82	16	228.5	8	1 1/4	M33	320	330
	4	100	105	232	100	108	30	273	8	1 1/2	M39	370	380
	5	125	110	277	125	130	52	324	8	1 3/4	M45	420	435
	6	150	159	316	150	155	65	368.5	8	2	M52	515	530
	8	200	206	386	200	205	124	438	12	2	M52	600	620
	10	250	254	475	245	245	223	539.5	12	2 1/2	M64	750	775
	12	300	305	548	300	300	395	619	12	2 3/4	M70	855	885

Dual Plate Check Valve

Main Outline Dimensions (Wafer Type)

JIS 10K

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
JIS 10K	-	40	60	88	40	42	1.5	105	4	-	M16	140	-
	-	50	60	103	51	55	2.2	120	4	-	M16	140	-
	-	65	67	123	65	68	3.1	140	4	-	M16	150	-
	-	80	73	133	80	82	4.3	150	8	-	M16	155	-
	-	100	73	158	102	108	6.3	175	8	-	M16	155	-
	-	125	86	189	127	130	8.4	210	8	-	M20	185	-
	-	150	98	219	152	165	12.6	240	8	-	M20	200	-
	-	200	127	269	203	220	24	290	12	-	M20	230	-
	-	250	146	332	254	270	40	355	12	-	M22	260	-
	-	300	181	377	305	320	66	400	16	-	M22	295	-
	-	350	184	422	337	350	83	445	16	-	M22	305	-
	-	400	191	484	387	400	102	510	16	-	M24	320	-
	-	450	203	539	43	438	124	565	20	-	M24	340	-
	-	500	219	594	495	495	150	620	20	-	M24	355	-
	-	600	222	698	595	595	203	730	24	-	M30	375	-
	-	700	305	808	685	685	380	840	24	-	M30	460	-
	-	750	305	868	735	735	413	900	24	-	M30	470	-
	-	800	305	918	780	780	580	950	28	-	M30	470	-
	-	900	368	1018	875	875	665	1050	28	-	M30	540	-
	-	1000	432	1122	975	975	880	1160	28	-	M36	620	-
-	1200	524	1344	1165	1165	1470	1380	32	-	M36	720	-	
-	1350	568	1495	1320	1320	2100	1540	36	-	M42	790	-	
-	1500	629	1655	1460	1460	2950	1700	40	-	M42	860	-	

JIS 20K

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
JIS 20K	-	40	60	88	40	42	1.8	105	4	-	M16	145	-
	-	50	60	103	51	55	2.5	120	8	-	M16	145	-
	-	65	67	123	65	68	4	140	8	-	M16	155	-
	-	80	73	139	80	82	5	160	8	-	M20	175	-
	-	100	73	164	102	108	7	185	8	-	M20	180	-
	-	125	86	202	127	130	11.2	225	8	-	M22	200	-
	-	150	98	237	152	165	16.5	260	12	-	M22	220	-
	-	200	127	282	203	220	31.5	305	12	-	M22	255	-
	-	250	146	355	254	270	49.5	380	12	-	M24	290	-
	-	300	181	405	305	320	81	430	16	-	M24	330	-
	-	350	222	449	337	350	117	480	16	-	M30 X 3	390	-
	-	400	232	509	387	400	158	540	16	-	M30 X 3	415	-
	-	450	264	574	438	438	200	605	20	-	M30 X 3	450	-
	-	500	292	629	495	495	285	660	20	-	M30 X 3	480	-
	-	600	318	733	595	595	380	770	24	-	M36 X 3	530	-
	-	700	368	853	685	685	586	900	24	-	M45 X 3	620	-
	-	750	368	916	735	735	696	970	24	-	M52 X 3	640	-
	-	800	368	976	780	780	986	1030	24	-	M52 X 3	650	-
	-	900	483	1085	875	875	1070	1140	28	-	M52 X 3	780	-

Dual Plate Check Valve

Main Outline Dimensions (Wafer Type)

PN 10

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 10	-	50	60	108	51	55	2.2	125	4	-	M16	150	-
	-	65	67	128	65	68	3.1	145	4	-	M16	155	-
	-	80	73	142	80	82	4.3	160	8	-	M16	160	-
	-	100	73	162	102	108	6.3	180	8	-	M16	165	-
	-	125	86	192	127	130	8.4	210	8	-	M16	180	-
	-	150	98	218	152	165	12.6	240	8	-	M20	205	-
	-	200	127	273	203	220	24	295	8	-	M20	235	-
	-	250	146	328	254	270	40	350	12	-	M20	255	-
	-	300	181	378	305	320	66	400	12	-	M20	290	-
	-	350	184	438	337	350	83	460	16	-	M20	295	-
	-	400	191	489	387	400	102	515	16	-	M24	310	-
	-	450	203	539	438	438	124	565	20	-	M24	325	-
	-	500	219	594	495	495	150	620	20	-	M24	345	-
	-	600	222	696	595	595	203	725	20	-	M27	355	-
	-	700	305	811	685	685	380	840	24	-	M27	440	-
	-	800	305	918	780	780	580	950	24	-	M30	450	-
-	900	368	1018	875	875	665	1050	28	-	M30	520	-	
-	1000	432	1124	975	975	880	1160	28	-	M33	590	-	
-	1200	524	1340	1165	1165	1470	1380	32	-	M36	695	-	

PN 16

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 16	-	50	60	108	51	55	2.2	125	4	-	M16	150	-
	-	65	67	128	65	68	3.1	145	4	-	M16	155	-
	-	80	73	142	80	82	4.3	160	8	-	M16	160	-
	-	100	73	162	102	108	6.3	180	8	-	M16	165	-
	-	125	86	192	127	130	8.4	210	8	-	M16	180	-
	-	150	98	218	152	165	12.6	240	8	-	M20	205	-
	-	200	127	273	203	220	24	295	12	-	M20	235	-
	-	250	146	329	254	270	40	355	12	-	M24	265	-
	-	300	181	384	305	320	66	410	12	-	M24	305	-
	-	350	184	444	337	350	83	470	16	-	M24	310	-
	-	400	191	496	387	400	102	525	16	-	M27	330	-
	-	450	203	556	438	438	124	585	20	-	M27	345	-
	-	500	219	618	495	495	150	650	20	-	M30	370	-
	-	600	222	732	595	595	203	770	20	-	M33	380	-
	-	700	305	802	685	685	380	840	24	-	M33	470	-
	-	800	305	912	780	780	580	950	24	-	M36	475	-
-	900	368	1012	875	875	665	1050	28	-	M36	545	-	
-	1000	432	1126	975	975	880	1170	28	-	M39	620	-	
-	1200	524	1340	1165	1165	1470	1390	32	-	M45	735	-	

Dual Plate Check Valve

PN 25

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 25	-	50	60	108	51	55	2.2	125	4	-	M16	150	-
	-	65	67	128	65	68	3.1	145	8	-	M16	160	-
	-	80	73	142	80	82	4.3	160	8	-	M16	170	-
	-	100	73	168	102	108	6.3	190	8	-	M20	180	-
	-	125	86	194	127	130	8.4	220	8	-	M24	205	-
	-	150	98	224	152	165	13.5	250	8	-	M24	220	-
	-	200	127	284	203	220	26	310	12	-	M24	255	-
	-	250	146	341	254	270	43	370	12	-	M27	285	-
	-	300	181	401	305	320	70	430	16	-	M27	325	-
	-	350	184	458	337	350	90	490	16	-	M30	340	-
	-	400	191	515	387	400	110	550	16	-	M33	360	-
	-	450	203	565	438	438	135	600	20	-	M33	375	-
	-	500	219	622	495	495	158	660	20	-	M33	395	-
	-	600	222	732	595	595	220	770	20	-	M36	410	-
	-	700	305	831	685	685	400	875	24	-	M39	500	-
	-	800	305	942	780	780	600	990	24	-	M45	520	-
-	900	368	1040	875	875	685	1090	28	-	M45	590	-	
-	1000	432	1155	975	975	900	1210	28	-	M52	675	-	
-	1200	524	1365	1165	1165	1510	1420	32	-	M52	790	-	

PN 40

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 40	-	50	60	108	51	55	2.5	125	4	-	M16	150	-
	-	65	67	128	65	68	4	145	8	-	M16	160	-
	-	80	73	142	80	82	5	160	8	-	M16	170	-
	-	100	73	168	102	108	7	190	8	-	M20	180	-
	-	125	86	194	127	130	11.2	220	8	-	M24	205	-
	-	150	98	224	152	165	16.5	250	8	-	M24	220	-
	-	200	127	291	203	220	31.5	320	12	-	M27	270	-
	-	250	146	353	254	270	49.5	385	12	-	M30	300	-
	-	300	181	418	305	320	81	450	16	-	M30	345	-
	-	350	184	475	337	350	117	510	16	-	M33	400	-
	-	400	191	547	387	400	158	585	16	-	M36	425	-
	-	450	203	618	438	438	200	670	20	-	M36	470	-
	-	500	219	696	495	495	285	770	20	-	M39	505	-
	-	600	222	811	595	595	380	875	20	-	M45	575	-

Dual Plate Check Valve

PN 63

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm	RF	RJ			
PN 63	-	50	60	114	51	55	2.5	-	135	4	-	M20	170	185
	-	65	67	138	65	68	4	-	160	8	-	M20	180	195
	-	80	73	148	80	82	5	-	170	8	-	M20	190	205
	-	100	79	174	102	108	9	-	200	8	-	M24	210	225
	-	125	105	211	127	130	14.5	-	240	8	-	M27	250	265
	-	150	136	248	152	165	27	-	280	8	-	M30	290	305
	-	200	165	310	200	210	48	-	345	12	-	M33	335	350
	-	250	213	362	250	255	93.5	-	400	12	-	M33	395	410
	-	300	229	422	300	300	114.5	-	460	16	-	M33	420	435
	-	350	273	487	335	335	187	-	525	16	-	M36	480	495
-	400	305	541	385	385	261	-	585	16	-	M39	525	540	

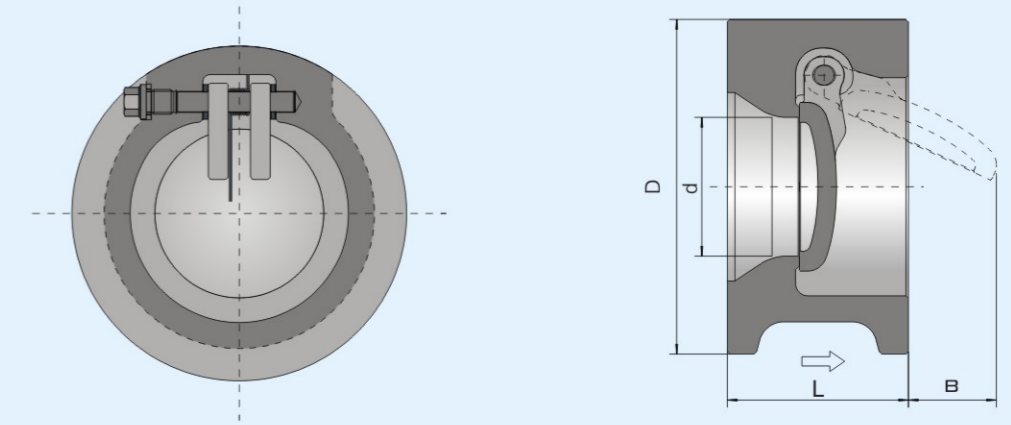
PN 100

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm	RF	RJ			
PN 100	-	50	60	120	51	55	2.5	-	145	4	-	M24	185	200
	-	65	67	144	65	68	4	-	170	8	-	M24	195	210
	-	80	73	154	80	82	5	-	180	8	-	M24	205	220
	-	100	79	181	102	108	9	-	210	8	-	M27	225	240
	-	125	105	218	127	130	14.5	-	250	8	-	M30	265	280
	-	150	136	258	152	165	27	-	290	12	-	M30	305	320
	-	200	165	324	200	210	48	-	360	12	-	M33	355	370
	-	250	213	392	250	255	93.5	-	430	12	-	M36	425	440
	-	300	229	456	300	300	114.5	-	500	16	-	M39	465	480
	-	350	273	510	335	335	187	-	560	16	-	M45	535	550
-	400	305	570	385	385	261	-	620	16	-	M45	585	600	

PN 160

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm	RF	RJ			
PN 160	-	50	70	120	50	55	6	-	145	4	-	M24	210	225
	-	65	83	144	65	68	7.5	-	170	8	-	M24	235	250
	-	80	83	154	75	82	9.6	-	180	8	-	M24	245	260
	-	100	102	181	100	108	17	-	210	8	-	M27	280	295
	-	125	110	218	125	130	28	-	250	8	-	M30	305	320
	-	150	159	258	150	160	41	-	290	12	-	M30	365	385
	-	200	206	325	200	210	80	-	360	12	-	M33	425	445
	-	250	241	389	250	255	135	-	430	12	-	M39	495	515
	-	300	292	459	300	300	212	-	500	16	-	M39	570	600

Single Wafer Check



Material List

BODY	DISC	BODY SEAT	DISC SEAT	SPRING	WETTED PARTS
A216 WCB / A105	A351 CF8	410SS / STELLITE	Same as Disc	Inconel x-750	410 SS
A216 WCB / A105	A351 CF8	VITON / BUNA-N / EPDM	Same as Disc	Inconel x-750	410 SS
A216 WCB / A105	A351 CF8M	316SS / STELLITE	Same as Disc	Inconel x-750	316 SS
A216 WCB / A105	A351 CFBM	VITON / BUNA-N / EPDM	Same as Disc	Inconel x-750	316 SS
A352 LCC / A350 LF2	A351 CF8M	316SS / STELLITE	Same as Disc	Inconel x-750	316 SS
A352 LCC / A350 LF2	A351 CF8M	VITON / BUNA-N / EPDM	Same as Disc	Inconel x-750	316 SS
A351 CFBM / A182 F316	A351 CF8M	Same as Body	Same as Disc	Inconel x-750	316 SS
A351 CFBM / A182 F316	A351 CF8M	VITON / BUNA-N / EPDM	Same as Disc	Inconel x-750	316 SS
A890 GR 4A	A890 GR 4A	Same as Body	Same as Disc	Inconel x-750	A182 F51
A890 GR 5A	A890 GR 5A	Same as Body	Same as Disc	Inconel x-750	A182 F53
UNS S31254	UNS S31254	Same as Body	Same as Disc	Inconel x-750	254-SMO
UNS N26625	UNS N26625	Same as Body	Same as Disc	Inconel x-750	Inconel 625

Main Outline Dimensions Class 150

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange							
	Nps	Dn	L	D	d	B		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts		
								Inch	Mm	RF	RJ				
Class 150 PN 20	11/2	40	60	85	30	12	1.5	-	98.5	4	-	1/2	M12	130	145
	2	50	60	103	38	20	2.2	-	120.5	4	-	5/8	M16	140	155
	2 1/2	65	67	122	45	28	3.1	-	139.5	4	-	5/8	M16	150	165
	3	80	73	135	56	35	4.3	-	152.5	4	-	5/8	M16	160	175
	4	100	73	173	76	55	6.3	-	190.5	8	-	5/8	M16	170	185
	5	125	86	195	96	73	8.4	-	216	8	-	3/4	M20	190	205
	6	150	98	221	120	90	12.6	-	241.5	8	-	3/4	M20	205	220
	8	200	127	277	165	105	24	-	298.5	8	-	3/4	M20	240	255
	10	250	146	337	195	122	40	-	362	12	-	7/8	M24	270	285
	12	300	181	407	241	130	66	-	432	12	-	7/8	M24	310	325
Class 150 PN 20	14	350	184	448	267	155	83	-	476	12	-	1	M27	325	340
	16	400	191	512	318	165	102	-	540	16	-	1	M27	340	355
	18	450	203	547	356	205	124	-	578	16	-	1 1/8	M30	365	380
	20	500	219	604	387	245	150	-	635	20	-	1 1/8	M30	385	400
	24	600	222	715	485	320	203	-	749.5	20	-	1 1/4	M33	405	420

Single Plate Wafer Check Valve

Main Outline Dimensions (Wafer Type)

Class 300

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	d	B		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm		Inch	Mm	RF	RJ
Class 300 PN 50	1 1/2	40	60	94	30	12	1.8	114.5	4	3/4	M20	160	170	
	2	50	60	110	38	20	2.5	127	8	5/8	M16	155	175	
	2 1/2	65	67	128	45	28	4	149	8	3/4	M20	175	195	
	3	80	73	147	56	35	5	168.5	8	3/4	M20	190	210	
	4	100	73	179	76	55	7	200	8	3/4	M20	195	215	
	5	125	86	214	96	73	11.2	235	8	3/4	M20	215	235	
	6	150	98	249	120	90	16.5	270	12	3/4	M20	230	250	
	8	200	127	305	165	105	31.5	330	12	7/8	M24	280	300	
	10	250	146	359	195	122	49.5	387.5	16	1	M27	315	335	
	12	300	181	420	241	130	81	451	16	1 1/8	M30	365	385	
	14	350	222	483	267	155	117	514.5	20	1 1/8	M30	410	430	
	16	400	232	537	318	165	158	571.5	20	1 1/4	M33	435	455	
	18	450	264	594	356	205	200	628.5	24	1 1/4	M33	475	495	
	20	500	292	652	387	245	285	686	24	1 1/4	M33	510	535	
24	600	318	772	485	320	380	813	24	1 1/2	M39	560	585		

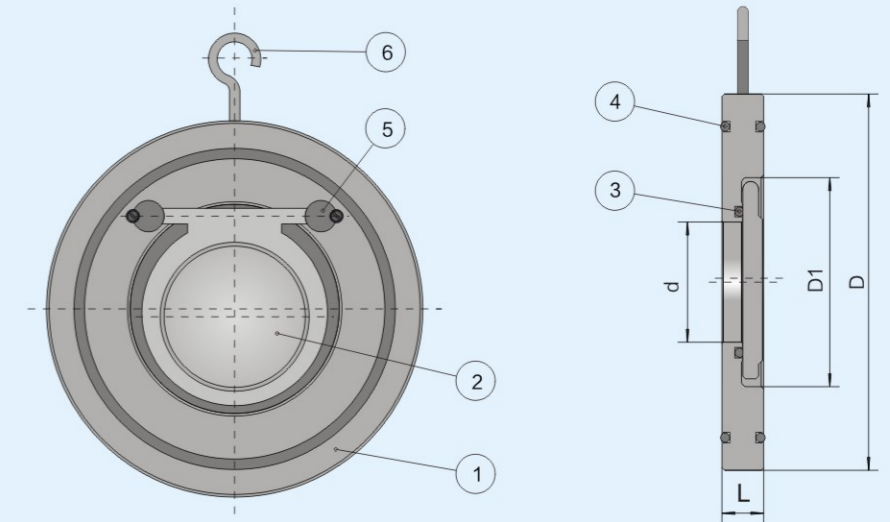
Class 600

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	d	B		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm		Inch	Mm	RF	RJ
Class 600 PN 110	2	50	60	110	38	20	2.5	127	8	5/8	M16	175	180	
	2 1/2	65	67	128	45	28	4	149	8	3/4	M20	195	200	
	3	80	73	147	56	35	5	168.5	8	3/4	M20	210	215	
	4	100	79	191	76	55	9	216	8	7/8	M24	235	240	
	5	125	105	240	96	73	14.5	267	8	1	M27	280	285	
	6	150	136	264	120	90	27	292	12	1	M27	320	325	
	8	200	165	318	165	105	48	349	12	1 1/8	M30	370	375	
	10	250	213	398	195	122	93.5	432	16	1 1/4	M33	440	445	
	12	300	229	455	241	130	114.5	489	20	1 1/4	M33	460	465	
	14	350	273	490	267	155	187	527	20	1 3/8	M36	520	525	
	16	400	305	562	318	165	261	603	20	1 1/2	M39	575	580	
	18	450	362	610	355	205	365	654	20	1 5/8	M42	650	655	
	20	500	368	680	385	245	453	724	24	1 5/8	M42	670	680	
	24	600	438	786	480	320	705	838	24	1 7/8	M48	780	790	

Class 900

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	d	B		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm		Inch	Mm	RF	RJ
Class 900 PN 150	2	50	70	140	38	20	6	165	8	7/8	M24	225	230	
	2 1/2	65	83	162	45	28	7.5	190.5	8	1	M27	250	255	
	3	80	83	165	56	35	9.6	190.5	8	7/8	M24	240	245	
	4	100	102	204	76	55	17	235	8	1 1/8	M30	285	290	
	5	125	110	245	96	73	28	279.5	8	1 1/4	M33	310	315	
	6	150	159	286	120	90	41	317.5	12	1 1/8	M30	365	370	
	8	200	206	356	165	105	80	393.5	12	1 3/8	M36	440	445	
	10	250	241	432	195	122	135	470	16	1 3/8	M36	490	495	
	12	300	292	495	241	130	212	533.5	20	1 3/8	M36	560	565	
	14	350	356	520	267	155	335	559	20	1 1/2	M39	645	655	
	16	400	384	572	318	165	395	616	20	1 5/8	M42	685	695	
	18	450	451	636	355	205	600	686	20	1 7/8	M48	790	800	
	20	500	451	696	385	245	810	749.5	20	2	M52	810	820	
	24	600	495	835	480	320	1030	901.5	20	2 1/2	M64	945	955	

Thin Type Single Wafer Check



Material List

1.BODY	2.DISK	3.SEAT	4.BODY SEAL	5.HOLDER	6.EYE BOLT
ASTM / A105	A182 / F304	VITON / BUNA/ EPDM / PTFE	VITON / BUNA/ EPDM / PTFE	ASTM / A105	Carbon Steel
A182 / F304	A182 / F304	VITON / BUNA/ EPDM / PTFE	VITON / BUNA/ EPDM / PTFE	A182 / F304	Stainless Steel
A182 / F316	A182 / F316	VITON / BUNA/ EPDM / PTFE	VITON / BUNA/ EPDM / PTFE	A182 / F316	Stainless Steel
A182 / F304L	A182 / F304L	VITON / BUNA/ EPDM / PTFE	VITON / BUNA/ EPDM / PTFE	A182 / F304L	Stainless Steel
A182 / F316L	A182 / F316L	VITON / BUNA/ EPDM / PTFE	VITON / BUNA/ EPDM / PTFE	A182 / F316L	Stainless Steel

Main Outline Dimensions (Wafer Type)

Class 150

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange						
	Nps	Dn	L	D	d	D1		Diameter Of Bolts Circle		Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
								Inch	Mm		Inch	Mm	RF	RJ
Class 150 PN 20	2	50	19	103	32	50	1.2	120.5	4	5/8	M16	100	-	
	2 1/2	65	19	122	42	65	1.6	139.5	4	5/8	M16	100	-	
	3	80	19	135	46	80	2.7	152.5	4	5/8	M16	105	-	
	4	100	19	173	70	100	3.2	190.5	8	5/8	M16	115	-	
	5	125	19	195	86	125	3.9	216	8	3/4	M20	125	-	
	6	150	19	221	114	150	4.5	241.5	8	3/4	M20	125	-	
	8	200	29	277	140	200	10	298.5	8	3/4	M20	140	-	
	10	250	29	337	204	254	15.2	362	12	7/8	M24	150	-	
	12	300	38	407	242	305	29.2	432	12	7/8	M24	165	-	
	14	350	44	448	270	335	42.5	476	12	1	M27	185	-	
	16	400	51	512	312	387	63.5	540	16	1	M27	200	-	
	18	450	60	547	360	438	80	578	16	1 1/8	M30	220	-	
	20	500	64	604	410	489	105	635	20	1 1/8	M30	230	-	
	24	600	64	715	490	591	160	749.5	20	1 1/4	M33	245	-	

Single Plate Wafer Check Valve (Thin Type)

Main Outline Dimensions (Wafer Type)

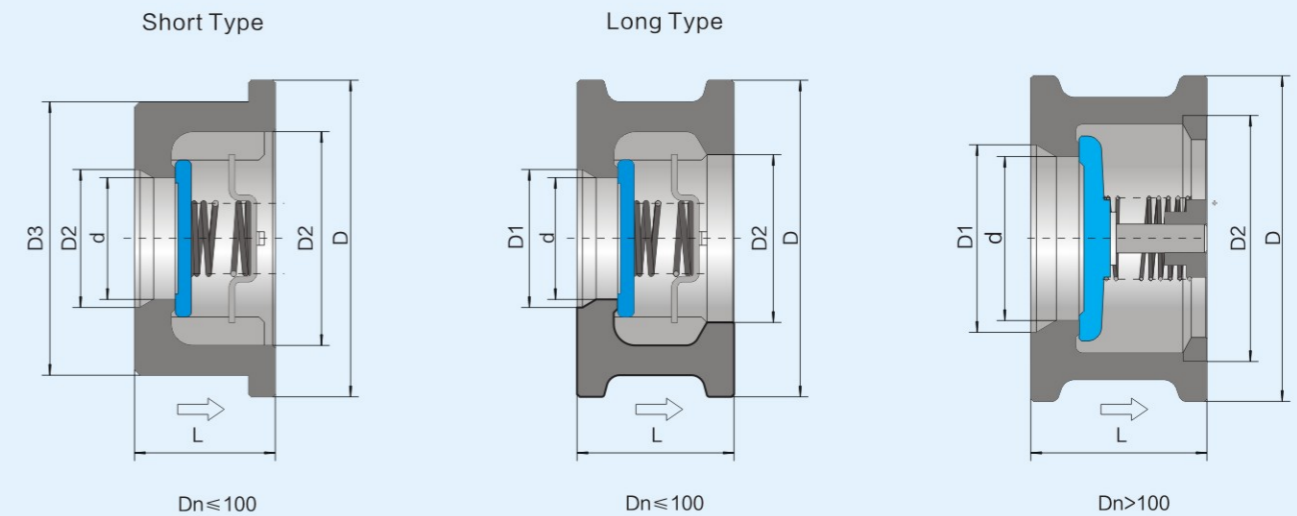
PN 10

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	d	D1		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 10	2	50	19	108	32	50	1.2	125	4	5/8	M16	110	-
	2 1/2	65	19	128	42	65	1.6	145	4	3/4	M16	110	-
	3	80	19	142	46	80	2.7	160	8	3/4	M16	110	-
	4	100	19	162	70	100	3.2	180	8	7/8	M16	110	-
	5	125	19	192	86	125	3.9	210	8	1	M16	115	-
	6	150	19	218	114	150	4.5	240	8	1	M20	125	-
	8	200	29	273	140	200	10	295	8	1 1/8	M20	135	-
	10	250	29	328	204	250	15.2	350	12	1 1/4	M20	140	-
	12	300	38	378	242	300	29.2	400	12	1 1/4	M20	150	-
	14	350	44	438	270	350	42.5	460	16	1 3/8	M20	155	-
	16	400	51	489	312	400	63.5	515	16	1 1/2	M24	170	-
	18	450	60	539	360	450	80	565	20	1 5/8	M24	185	-
	20	500	64	594	410	500	105	620	20	1 5/8	M24	190	-
	24	600	64	696	490	600	160	725	20	1 7/8	M27	200	-

PN 16

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	d	D1		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
PN 16	2	50	19	108	32	50	1.2	125	4	-	M16	110	-
	2 1/2	65	19	128	42	65	1.6	145	4	-	M16	110	-
	3	80	19	142	46	80	2.7	160	8	-	M16	110	-
	4	100	19	162	70	100	3.2	180	8	-	M16	110	-
	5	125	19	192	86	125	3.9	210	8	-	M16	115	-
	6	150	19	218	114	150	4.5	240	8	-	M20	125	-
	8	200	29	273	140	200	10	295	12	-	M20	135	-
	10	250	29	329	204	250	15.2	355	12	-	M24	150	-
	12	300	38	384	242	300	29.2	410	12	-	M24	165	-
	14	350	44	444	270	350	42.5	470	16	-	M24	170	-
	16	400	51	496	312	400	63.5	525	16	-	M27	190	-
	18	450	60	556	360	450	80	585	20	-	M27	205	-
	20	500	64	618	410	500	105	650	20	-	M30	215	-
	24	600	64	732	490	600	160	770	20	-	M33	225	-

Lift Type Wafer Check Valve



Main Outline Dimensions (Wafer Type)

Class 150

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 150 PN 20	1/2	15	25	46	15	25	0.29	60.5	4	1/2	M14	90	-
	3/4	20	31.5	56	19	30	0.41	70	4	1/2	M14	100	-
	1	25	35.5	65	24	36	0.55	79.5	4	1/2	M14	105	120
	1 1/4	32	40	74	31	43	0.75	89	4	1/2	M14	115	130
	1 1/2	40	45	84	39	52	1.3	98.5	4	1/2	M14	120	135
	2	50	56	103	48	62	2.2	120.5	4	5/8	M16	140	155
	2 1/2	65	63	122	62	75	2.8	139.5	4	5/8	M16	155	170
	3	80	71	135	76	90	3.5	152.5	4	5/8	M16	165	180
	4	100	80	173	95	112	4.8	190.5	8	5/8	M16	175	190
	5	125	110	195	110	125	12.2	216.0	8	3/4	M20	210	225
	6	150	125	220	127	150	17.1	241.5	8	3/4	M20	230	245
	8	200	160	277	165	200	29.2	298.5	8	3/4	M20	270	285

Lift Type Wafer Check Valve

Main Outline Dimensions (Wafer Type) Class 300

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
Class 300 PN 50	1/2	15	25	52	15	25	25	0.29	66.5	4	1/2	M14	95	105
	3/4	20	31.5	65	19	30	30	0.45	82.5	4	5/8	M16	110	125
	1	25	35.5	72	24	36	36	0.6	89.0	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	2.5	127.0	8	5/8	M16	145	170
	2 1/2	65	63	128	62	75	75	3.1	149.0	8	3/4	M20	170	190
	3	80	71	147	76	90	90	4.2	168.5	8	3/4	M20	185	205
	4	100	80	179	95	112	112	5.5	200.0	8	3/4	M20	200	220
	5	125	110	214	110	125	132	13.2	235.0	8	3/4	M20	235	255
6	150	125	249	127	150	158	21.9	270.0	12	3/4	M20	255	275	
8	200	160	305	165	200	208	35.8	330.0	12	7/8	M24	305	325	

Class 600

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
Class 600 PN 110	1/2	15	25	52	15	25	25	0.45	66.5	4	1/2	M14	95	105
	3/4	20	31.5	65	19	30	30	0.82	82.5	4	5/8	M16	110	125
	1	25	35.5	72	24	36	36	1.1	89.0	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	127.0	8	5/8	M16	155	170
	2 1/2	65	63	128	62	75	75	4.1	149.0	8	3/4	M20	175	195
	3	80	71	147	76	90	90	6.2	168.5	8	3/4	M20	190	210
	4	100	80	191	95	112	112	10.8	216.0	8	7/8	M24	220	240
	5	125	110	239	110	125	132	25.2	267.0	8	1	M27	265	285
6	150	125	264	127	150	158	32	292.0	12	1	M27	290	310	
8	200	160	318	165	200	208	52	349.0	12	1 1/8	M30	345	365	

Class 900

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
Class 900 PN 150	1/2	15	25	52	15	25	25	0.45	66.5	4	1/2	M16	95	105
	3/4	20	31.5	65	19	30	30	0.82	82.5	4	5/8	M30	110	125
	1	25	35.5	72	24	36	36	1.1	89.0	4	5/8	M27	115	130
	1 1/4	32	40	81	31	43	43	1.3	98.5	4	5/8	M27	125	140
	1 1/2	40	45	94	39	52	52	1.8	114.5	4	3/4	M16	145	160
	2	50	56	110	48	62	62	2.8	127.0	8	5/8	M24	155	170
	2 1/2	65	63	128	62	75	75	4.1	149.0	8	3/4	M16	175	195
	3	80	71	147	76	90	90	6.2	168.5	8	3/4	M20	190	210
	4	100	80	191	95	112	112	10.8	216.0	8	7/8	M14	220	240
	5	125	110	239	110	125	132	25.2	267.0	8	1	M20	265	285
6	150	125	264	127	150	158	32	292.0	12	1	M16	290	310	
8	200	160	318	165	200	208	52	349.0	12	1 1/8	M20	345	365	

Lift Type Wafer Check Valve

Main Outline Dimensions (Wafer Type) PN 16-25 (Short Type)

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange				
	Nps	Dn	L	D	d	D1	D2				D3	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ		
PN 16-25	1	25	22	72	24	36	47	58	0.35	85	4	2	2	90	-
	1 1/4	32	28	83	31	46	56	68	0.55	100	4	8	6	110	-
	1 1/2	40	31.5	93	39	55	66	78	0.80	110	4	8	6	115	-
	2	50	40	108	48	65	78	90	1.20	125	4	8	6	125	-
	2 1/2	65	46	128	62	80	95	110	1.8	145	8	8	6	135	-
	3	80	50	142	76	96	110	128	2.2	160	8	8	6	145	-
	4	100	60	168	95	115	135	150	3.8	190	8	4	0	160	-
	5	125	90	194	110	125	132	-	9.3	220	8	8	4	205	-
	6	150	106	224	127	150	158	-	15	250	8	8	4	225	-
	8	200	140	284	165	200	208	-	26	310	12	8	4	260	-

PN 40 (Short Type)

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange				
	Nps	Dn	L	D	d	D1	D2				D3	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ		
PN 40	1	25	22	72	24	36	47	58	0.35	85	4	2	2	90	-
	1 1/4	32	28	83	31	46	56	68	0.55	100	4	8	6	110	-
	1 1/2	40	31.5	93	39	55	66	78	0.80	110	4	8	6	115	-
	2	50	40	108	48	65	78	90	1.20	125	4	8	6	125	-
	2 1/2	65	46	128	62	80	95	110	1.8	145	8	8	6	135	-
	3	80	50	142	76	96	110	128	2.2	160	8	8	6	145	-
	4	100	60	168	95	115	135	150	3.8	190	8	4	0	160	-
	5	125	90	194	110	125	132	-	9.3	220	8	8	4	205	-
	6	150	106	224	127	150	158	-	15	250	8	8	4	225	-
	8	200	140	284	165	200	208	-	26	310	12	8	4	260	-

PN 10-16 (Long Type)

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
PN 10-16	-	15	25	52	15	25	25	0.3	65	4	-	M12	90	-
	-	20	31.5	62	19	30	30	0.45	75	4	-	M12	100	-
	-	25	35.5	72	24	36	36	0.6	85	4	-	M12	105	-
	-	32	40	83	31	43	43	0.8	100	4	-	M16	115	-
	-	40	45	93	39	52	52	1.4	110	4	-	M16	120	-
	-	50	56	108	48	62	62	2.3	125	4	-	M16	140	-
	-	65	63	128	62	75	75	3.0	145	4	-	M16	150	-
	-	80	71	142	76	90	90	3.8	160	8	-	M16	155	-
	-	100	80	162	95	112	112	5.0	180	8	-	M16	170	-
	-	125	110	192	110	125	132	11	210	8	-	M16	200	-
-	150	125	218	127	150	158	16	240	8	-	M20	225	-	
-	200	160	273	165	200	208	28	295	8	-	M20	260	-	
-	200	160	273	165	200	208	28	295	12	-	M20	260	-	

Lift Type Wafer Check Valve

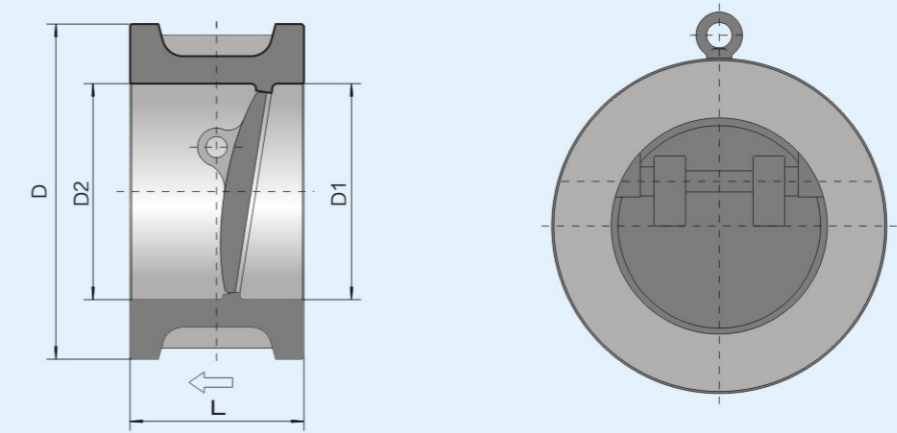
PN 25 (Long Type)

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
PN 25	1/2	52	15	25	25	0.3	25	0.3	65	4	-	M12	90	-
	3/4	62	19	30	30	0.45	30	0.45	75	4	-	M12	100	-
	1	72	24	36	36	0.6	36	0.6	85	4	-	M12	105	-
	1 1/4	83	31	43	43	0.8	43	0.8	100	4	-	M16	115	-
	1 1/2	93	39	52	52	1.4	52	1.4	110	4	-	M16	120	-
	2	108	48	62	62	2.3	62	2.3	125	4	-	M16	140	-
	2 1/2	128	62	75	75	3.0	75	3.0	145	8	-	M16	150	-
	3	142	76	90	90	3.8	90	3.8	160	8	-	M16	165	-
	4	168	95	112	112	5.2	112	5.2	190	8	-	M20	180	-
5	194	110	125	132	11.8	132	11.8	220	8	-	M24	225	-	
6	224	127	150	158	18	158	18	250	8	-	M24	245	-	
8	200	160	284	165	200	208	30	310	12	-	M24	285	-	

PN 40 (Long Type)

Pressure Class	Nominal Pipe Size		Dimension					Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	d	D1	D2				Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ	
PN 40	-	15	25	52	15	25	25	0.3	65	4	-	M12	90	-
	-	20	31.5	62	19	30	30	0.45	75	4	-	M12	100	-
	-	25	35.5	72	24	36	36	0.6	85	4	-	M12	105	-
	-	32	40	83	31	43	43	0.8	100	4	-	M16	115	-
	-	40	45	93	39	52	52	1.4	110	4	-	M16	120	-
	-	50	56	108	48	62	62	2.3	125	4	-	M16	140	-
	-	65	63	128	62	75	75	3.0	145	8	-	M16	150	-
	-	80	71	142	76	90	90	3.8	160	8	-	M16	165	-
	-	100	80	168	95	112	112	5.2	190	8	-	M20	180	-
	-	125	110	194	110	125	132	13	220	8	-	M24	225	-
	-	150	125	224	127	150	158	19	250	8	-	M24	245	-
	-	200	160	291	165	200	208	32	320	12	-	M24	285	-

Tilting Wafer Check Valve



Main Outline Dimensions (Wafer Type) Class 150

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Diameter Of Bolts Circle	Number Of Bolts	Pipe Flange			
	Nps	Dn	L	D	D1	D2				Diameter Of Bolts		Length Of Bolts	
									Inch	Mm	RF	RJ	
Class 150 PN 20	2	50	60	103	51	60	2.2	120.5	4	5/8	M16	140	155
	2 1/2	65	67	122	65	72	3.1	139.5	4	5/8	M16	150	165
	3	80	73	135	76	82	4.3	152.5	4	5/8	M16	160	175
	4	100	73	173	102	108	6.3	190.5	8	5/8	M16	170	185
	5	125	86	195	127	135	8.4	216	8	3/4	M20	190	205
	6	150	98	221	152	160	12.6	241.5	8	3/4	M20	205	220
	8	200	127	277	203	215	24	298.5	8	3/4	M20	240	255
	10	250	146	337	254	266	40	362	12	7/8	M24	270	285
	12	300	181	407	305	318	66	432	12	7/8	M24	310	325
	14	350	184	448	337	350	83	476	12	1	M27	325	340
	16	400	191	512	387	400	102	540	16	1	M27	340	355
	18	450	203	547	438	450	124	578	16	1 1/8	M30	365	380
20	500	219	604	489	500	150	635	20	1 1/8	M30	385	400	
24	600	222	715	591	605	203	749.5	20	1 1/4	M33	405	420	

Tilting Wafer Check Valve

Class 300

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 300 PN 50	2	50	60	110	51	60	2.5	127	8	5/8	M16	155	175
	2 1/2	65	67	128	65	72	4	149	8	3/4	M20	175	195
	3	80	73	147	76	82	5	168.5	8	3/4	M20	190	210
	4	100	73	179	102	108	7	200	8	3/4	M20	195	215
	5	125	86	214	127	135	11.2	235	8	3/4	M20	215	235
	6	150	98	249	152	160	16.5	270	12	3/4	M20	230	250
	8	200	127	305	203	215	31.5	330	12	7/8	M24	280	300
	10	250	146	359	254	266	49.5	387.5	16	1	M27	315	335
	12	300	181	420	305	318	81	451	16	1 1/8	M30	365	385
	14	350	222	483	337	350	117	514.5	20	1 1/8	M30	410	430
	16	400	232	537	387	400	158	571.5	20	1 1/4	M33	435	455
	18	450	264	594	438	450	200	628.5	24	1 1/4	M33	475	495
	20	500	292	652	489	500	285	686	24	1 1/4	M33	510	535
24	600	318	772	591	605	380	813	24	1 1/2	M39	560	585	

Class 600

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 600 PN 110	2	50	60	110	51	60	2.5	127	8	5/8	M16	175	180
	2 1/2	65	67	128	65	72	4	149	8	3/4	M20	195	200
	3	80	73	147	76	82	5	168.5	8	3/4	M20	210	215
	4	100	79	191	102	108	9	216	8	7/8	M24	235	240
	5	125	105	240	127	135	14.5	267	8	1	M27	280	285
	6	150	136	264	152	160	27	292	12	1	M27	320	325
	8	200	165	318	203	215	48	349	12	1 1/8	M30	370	375
	10	250	213	398	254	266	93.5	432	16	1 1/4	M33	440	445
	12	300	229	455	305	318	114.5	489	20	1 1/4	M33	460	465
	14	350	273	490	337	350	187	527	20	1 3/8	M36	520	525
	16	400	305	562	387	400	261	603	20	1 1/2	M39	575	580
	18	450	362	610	438	450	365	654	20	1 5/8	M42	650	655
	20	500	368	680	489	500	453	724	24	1 5/8	M42	670	680
24	600	438	786	591	605	705	838	24	1 7/8	M48	780	790	

Tilting Wafer Check Valve

Class 900

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 900 PN 150	2	50	70	140	50	50	6	165	8	7/8	M24	225	230
	2 1/2	65	83	162	65	65	7.5	190.5	8	1	M27	250	255
	3	80	83	165	75	75	9.6	190.5	8	7/8	M24	240	245
	4	100	102	204	100	100	17	235	8	1 1/8	M30	285	290
	5	125	110	245	125	125	28	279.5	8	1 1/4	M33	310	315
	6	150	159	286	150	150	41	317.5	12	1 1/8	M30	365	370
	8	200	206	356	201	201	80	393.5	12	1 3/8	M36	440	445
	10	250	241	432	252	252	135	470	16	1 3/8	M36	490	495
	12	300	292	495	303	303	212	533.5	20	1 3/8	M36	560	565
	14	350	356	520	325	325	335	559	20	1 1/2	M39	645	655
	16	400	384	572	375	375	395	616	20	1 5/8	M42	685	695
	18	450	451	636	425	425	600	686	20	1 7/8	M48	790	800
	20	500	451	696	475	475	810	749.5	20	2	M52	810	820
24	600	495	835	570	570	1030	901.5	20	2 1/2	M64	945	955	

Class 1500

Pressure Class	Nominal Pipe Size		Dimension				Weight (Kg)	Pipe Flange					
	Nps	Dn	L	D	D1	D2		Diameter Of Bolts Circle	Number Of Bolts	Diameter Of Bolts		Length Of Bolts	
										Inch	Mm	RF	RJ
Class 1500 PN 250	2	50	70	140	50	50	6	165	8	7/8	M24	225	230
	2 1/2	65	83	162	65	65	7.5	190.5	8	1	M27	250	255
	3	80	83	172	75	75	9.6	203	8	7/8	M30	270	275
	4	100	102	208	100	100	17	241.5	8	1 1/4	M33	310	315
	5	125	110	252	125	125	38	292	8	1 1/2	M39	370	375
	6	150	159	281	150	150	50	317.5	12	1 3/8	M36	430	440
	8	200	206	350	195	195	96	393.5	12	1 5/8	M42	510	520
	10	250	248	433	245	245	176	482.5	12	1 7/8	M48	600	610
	12	300	305	518	290	290	287	517.5	16	2	M52	695	710
	14	350	356	576	320	320	433	635	16	2 1/4	M56	775	790
	16	400	384	640	365	365	580	705	16	2 1/2	M64	850	870
	18	450	468	703	410	410	780	774.7	16	2 3/4	M70	970	990
	20	500	533	754	456	456	1250	831.8	16	3	M76	1080	1100
24	600	559	898	550	550	2700	990.6	16	3 1/2	M88	1190	1210	

Service Recommendations

COTECH being with quality tenet of Quality as Root, Customers as Paramountcy, would like to announce the following commitment for products quality, technical service and after-sales service.

Products quality commitment

The products of the company are manufactured with advanced technics and made by superior material, meeting the contract's requirements on quality and specification. On conditions of correct installation, normal operation and maintenance, the fine performance of the products are guaranteed during the service life. Quality and performance requirements of all products after completion would undergo strict and overall inspections and test according to provisions of contracts to ensure eligibility rate of 100%.

Warranty duration of 12 months after qualified adjustment and installation for valves is ensured.(except for special working conditions and products with special requirement). Within the period of warranty, the company is responsible for any deficiency or failure due to the objection of design, procedures, and materials.

Promises of technical and after-sales service

Detailed technical information would be provided for customers upon request.

During the installation and adjustment of products, top-ranking technical service is available for customers at any time, including necessary technical documents and drawings, training for operation maintenance for field installation, adjustment, and maintenance according to customers requirement, to ensure the skillful operation tests and inspections of products for customers. Local counseling is also available for clients at any moment during normal function.

To customers Complaints, reply would be possible within one working day, of which timely harmony would be rendered until satisfaction of clients.