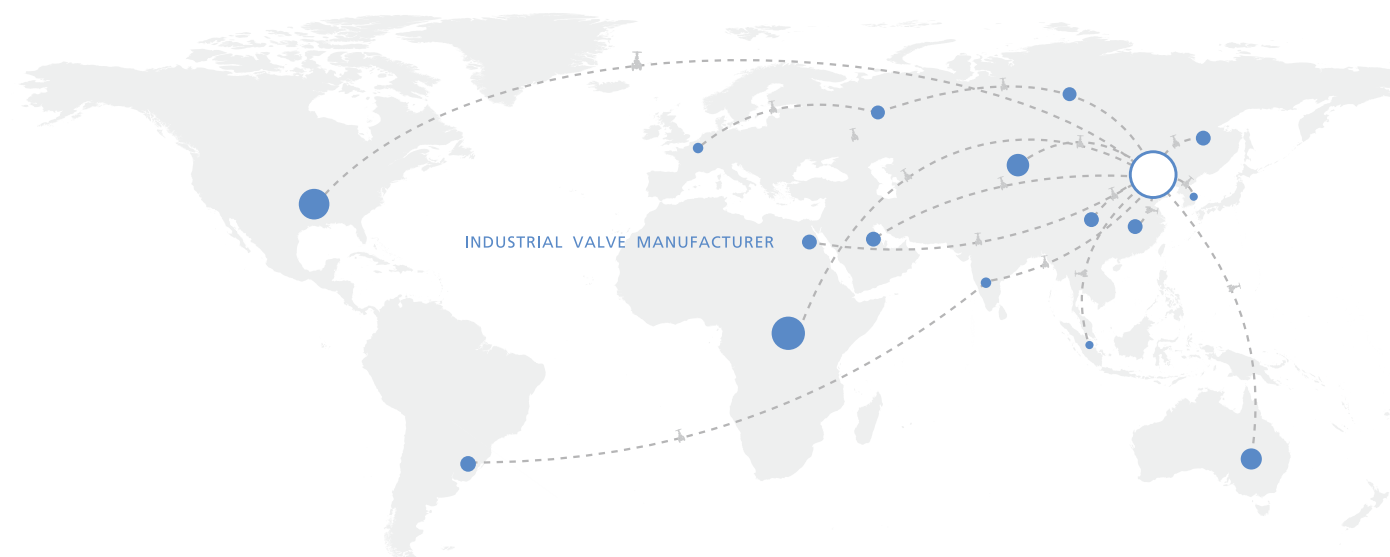




REV.2023-A



MT OKAY VALVE CO.,LTD.

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PLUG VALVE

MT OKAY VALVE CO.,LTD.

01 | COMPANY INTRODUCTION

OKAY VALVE was founded in 2007, is a professional manufacturer of industrial valves, located in the world famous valve industry base in Yancheng, Jiangsu Province, the company affiliated with a foundry and a manufacturing plant, and in Europe, America, Africa, Australia, the Middle East, Southeast Asia, East Asia and other parts of the world with branches and sales representative offices. The whole industry chain resources, perfect precision casting, sand casting, forging, heat treatment production lines, advanced processing and inspection equipment, continuous improvement of the quality management system, warm and thoughtful after-sales service and united work team, effectively meet the requirements of customers.

OKAY VALVE in strict accordance with API Q1 and ISO 9001 requirements to establish a quality system, in order to provide customers with zero defect products, OKAY VALVE has passed the certification of many institutions, Obtained API 600, API 6D, API 603, API 624, API 607, API 6FA, API 591, API 20A, ISO 9001, ISO 14001, ISO 45001, ISO 15848, CE/PED, TS, SIL, MESC SPE 77/300 and many other quality system certificates and product certificates.

The main products of OKAY VALVE include: gate valve, globe valve, check valve, ball valve, plug valve, butterfly valve and filter, etc. Products range in size from nominal diameter 1/2 "inch to 72" inch (DN15 to DN1800), nominal pressure ANSI 150 to 2500 lb (PN16 to PN420), and materials include carbon steel, alloy steel, stainless steel, duplex stainless steel, Inconel, bronze, etc. The products are designed and produced in strict accordance with API, ASME, ASTM, ISO, EN, GB and other specifications. The products are widely used in petroleum, natural gas, chemical industry, oil refining, power station, offshore industry, water treatment and various industrial systems.

OKAY VALVE is committed to providing customers with quality products, fast delivery and favorable price. It's our pursuing goal to be recognized as "Your Reliable Partner" in the field of industrial fluid control.

- The products are widely used in petroleum, natural gas, chemical industry, power station, marine industry, water treatment and various industrial systems



02 | COMPANY DISTRIBUTION



 **Fast technical support & delivery capability**

 **Optimal in-house supply of castings**

 **400 Global service calls/Overseas collaboration services**

03 | COMPANY QUALIFICATION



- API 600 • API 6D
- API 603 • API 624
- API 607 • API 6FA
- API 591 • API 20A
- ISO 9001 • ISO 14001
- ISO 45001 • ISO 15848
- CE/PED • TS • SIL
- MESC SPE 77/300

04 | INTRODUCTION TO THE FACTORY

// // // //

CNC Workshop



// // // //

Assembly workshop



// // // //

Painting shop & Warehouse



// // // //

Foundry

- Investment casting & sand casting process.
- Product capacity is 1000T/month.
- Max weight of single casting can be 8000 kgs.



05 | QUALITY CONTROL

OKAY VALVE is equipped with most advanced & extensive inspection & testing facilities which help to control each process from raw material to final product. These facilities enable us to do UT, PT, MT, RT, PMI, Impact Test, Tensile Test, Hardness Test, CMM, Cryogenic Test, Fugitive Emission Test, High Pressure Gas Test, Paint Thickness Test, Surface Roughness Test and Hydraulic & Pneumatic Test etc.

01 Pressure Test	02 Torque Test	03 Nondestructive Test(NDT)	04 TAT Test
05 Cryogenic Test	06 Coordinate Measuring Machine	07 Heat Treatment Furnace	



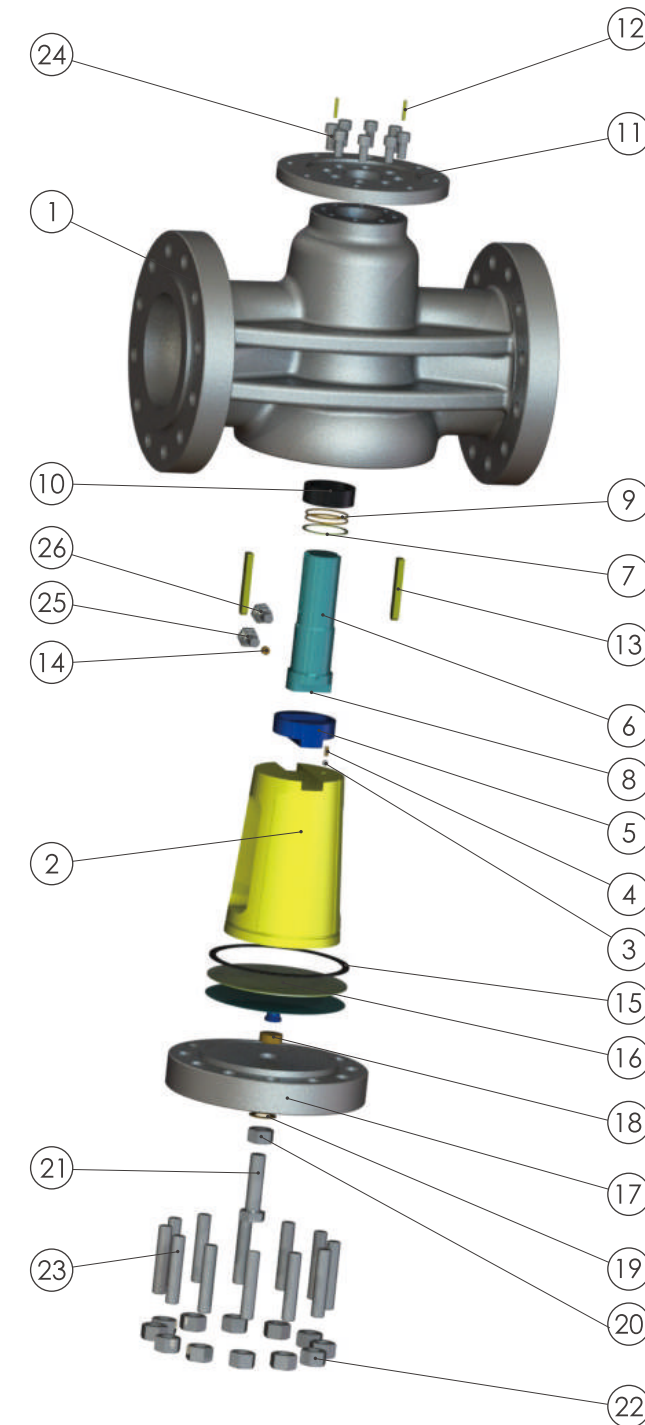
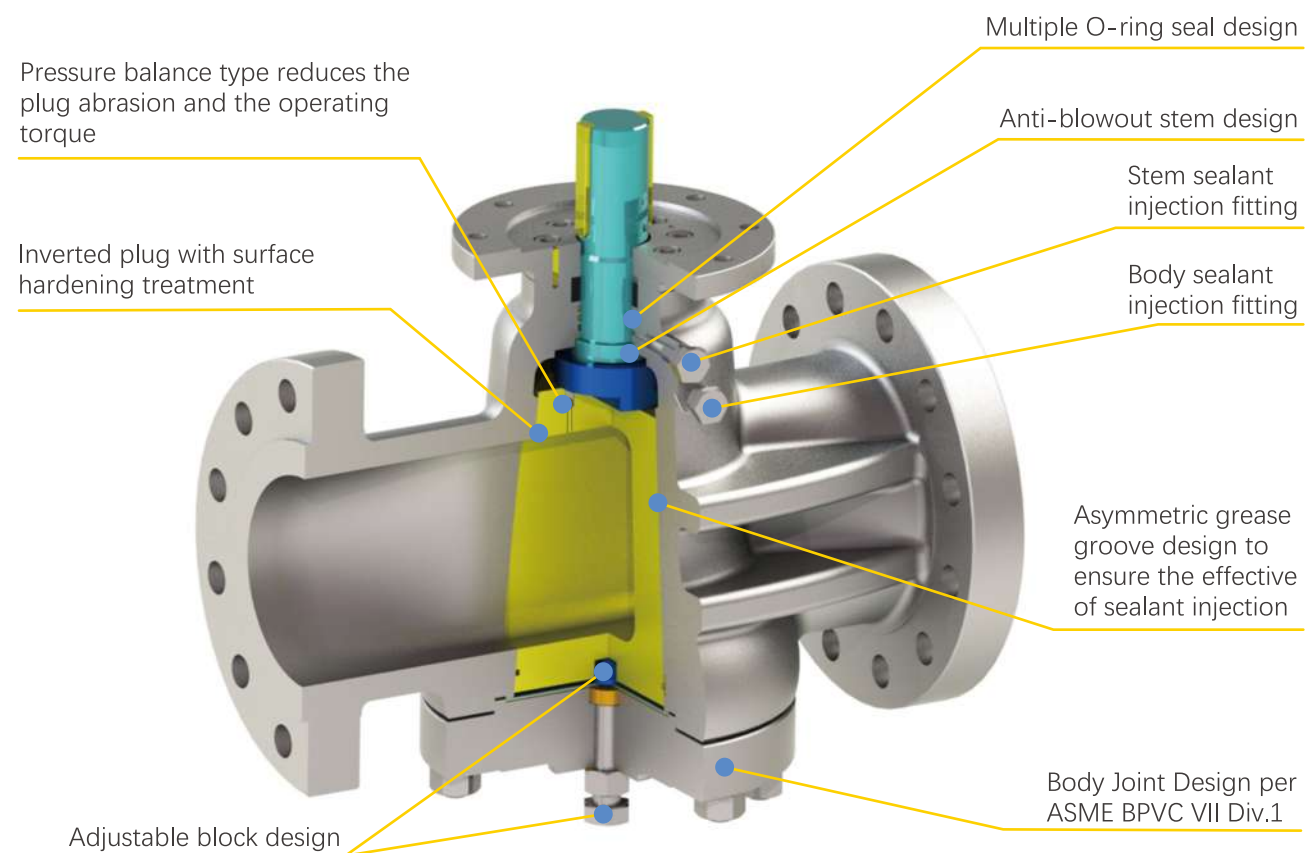
PRESSURE BALANCE TYPE

Pressure Rating : Class 150-300-600-900-1500-2500

Design Standard : API 599, API 6D

Max size : NPS 36"

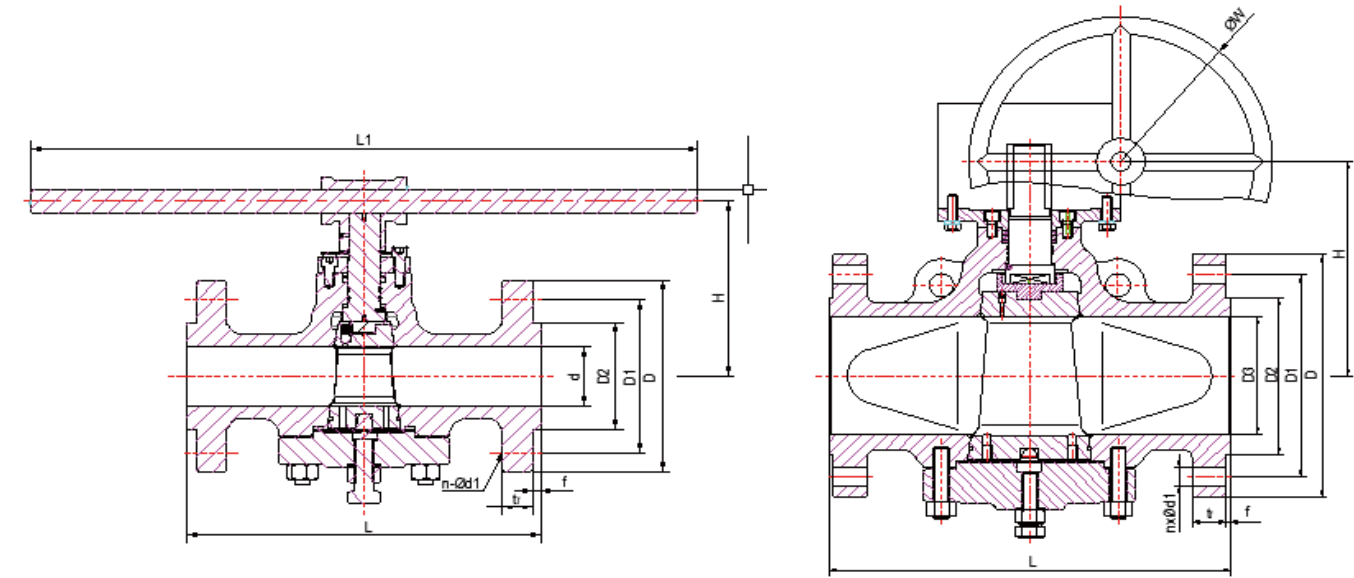
Design Structure :



Material Sheet

ITEM	PART	MATERIAL
26	Sealant Injection fitting	SS304
25	Sealant Injection fitting	SS304
24	Bolt	ASTM A193 B7
23	Stud	ASTM A193 B7
22	Nut	ASTM A194 2H
21	Bolt	ASTM A193 B7
20	Nut	ASTM A194 2H
19	Washer	PTFE
18	Adjustment Block	ASTM A276 420
17	Bonnet	ASTM A216 WCB
16	Metal Sheet	SS304
15	Gasket	304SS + Graphite
14	Check Ball	ASTM A276 420
13	Key	AISI 1045
12	Pin	AISI 1045
11	Top Flange	ASTM A216 WCB
10	Packing	Graphite
9	O-ring	VITON
8	Anti-static Spring	SS304
7	Gasket	PTFE
6	Stem	ASTM A182 F6a CL2
5	Coupling	ASTM A276 420
4	Anti-static Spring	SS304
3	Anti-static Ball	SS304
2	Plug	WCB Nitriding
1	Body	ASTM A216 WCB

Note: Other materials can be provided on request



CLASS 150

ITEM		STANDARD DIMENSION															
DN	NPS	d	FACE TO FACE DIMENSION			D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)		
(mm)	(inch)		Venturi Pattern	Regular Pattern	Short Pattern										Venturi Pattern	Regular Pattern	Short Pattern
25	1	25	140	140	140	110	79.4	50.8	2	9.6	4-Φ16	190	500		16	16	16
40	1-1/2	38	165	165	165	125	98.4	73	2	12.7	4-Φ16	215	600		23	23	23
50	2	49	178	178	178	150	120.7	92.1	2	14.3	4-Φ19	220	600		26	26	26
65	2-1/2	62	190	190	190	180	139.7	104.8	2	15.9	4-Φ19	255	850		31	31	31
80	3	74	203	203	203	190	152.4	127.0	2	17.5	4-Φ19	280	850		35	35	35
100	4	100	229	305	229	230	190.5	157.2	2	22.3	8-Φ19	310		300	52	68	52
125	5	127	381	381	254	255	215.9	185.7	2	22.3	8-Φ22	345		300	95	95	78
150	6	150	394	394	267	280	241.3	215.9	2	23.9	8-Φ22	370		350	135	135	102
200	8	201	457	457	292	345	298.5	269.9	2	27	8-Φ22	410		350	210	210	163
250	10	252	533	533	330	405	362	323.8	2	28.6	12-Φ25	455		600	360	360	176
300	12	303	610	610	356	485	431.8	381.0	2	30.2	12-Φ25	520		800	485	485	254
350	14	334	686	686		535	476.3	412.8	2	33.4	12-Φ29	595		800	705	705	
400	16	385	762	762		595	539.8	469.9	2	35	16-Φ29	610		800	790	790	
450	18	436	864	864		635	577.9	533.4	2	38.1	16-Φ32	630		600	895	895	
500	20	487	914	914		700	635	584.2	2	41.3	20-Φ32	655		600	975	975	
600	24	589	1067	1067		815	794.3	692.2	2	46.1	20-Φ35	705		600	1895	1895	
750	30	743	1295		1016	985	914.4	857	2	75	20-Φ35	765		800	2706		2540
900	36	895.3	1600			1170	1086	1022	2	90	30-Φ41	873		800	3156		

CLASS 300

ITEM		STANDARD DIMENSION															
DN	NPS	d	FACE TO FACE DIMENSION			D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)		
(mm)	(inch)		Venturi Pattern	Regular Pattern	Short Pattern										Venturi Pattern	Regular Pattern	Short Pattern
25	1	25	159	159	159	125	88.9	50.8	2	15.9	4-Φ19	156	500		18	18	18
40	1-1/2	38	190	190	190	155	114.3	73	2	19.1	4-Φ22	170	620		25	25	25
50	2	49	216	216	216	165	127	92.1	2	20.7	8-Φ19	225	620		42	42	42
65	2-1/2	62	241	241	241	190	149.2	104.8	2	23.9	8-Φ22	255	700		51	51	51
80	3	74	282	282	282	210	168.3	127.0	2	27	8-Φ22	280	850		59	59	59
100	4	100	305	305	305	255	200	157.2	2	30.2	8-Φ22	310	950		69	69	69
150	6	150	403	403	403	320	269.9	215.9	2	35	12-Φ22	580		500	166	166	166
200	8	201	419	502	419	380	330.2	269.9	2	39.7	12-Φ25	625		550	196	215	196
250	10	252	457	568	457	445	387.4	323.8	2	46.1	16-Φ29	746		600	280	316	280
300	12	303	502	711	502	520	450.8	381.0	2	49.3	16-Φ32	771		750	510	596	510
350	14	334	762	762	762	585	514.4	412.8	2	52.4	20-Φ32	795		750	805	805	805
400	16	385	838	838	838	650	571.5	469.9	2	55.6	20-Φ35	813		550	912	912	912
450	18	436	914	914	914	710	628.6	533.4	2	58.8	24-Φ35	846		550	1112	1112	1112
500	20	487	991	991	991	775	685.8	584.2	2	62	24-Φ35	956		800	1624	1624	1624
600	24	589	1143	1143	1143	915	812.8	692.2	2	68.3	24-Φ41	995		800	2153	2153	2153
750	30	735	1397	1397	1397	1090	997	857	2	90.5	28-Φ48	1105		800	2568	2568	2568
900	36	874	1727	1727	1727	1270	1168.4	1022	2	103.2	32-Φ54	1340		800	2946	2946	2946

CLASS 600

ITEM		STANDARD DIMENSION														
DN	NPS	d	FACE TO FACE DIMENSION			D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)	
(mm)	(inch)		Venturi Pattern	Regular Pattern											Venturi Pattern	Regular Pattern
25	1	25	216	216		125	88.9	50.8	7	17.5	4-Φ19	165	500		11	11
40	1-1/2	38	241	241		155	114.3	73.0	7	22.3	4-Φ22	178	600		23	23
50	2	49	292	292		165	127	92.1	7	25.4	8-Φ19	198	600		25.6	25.6
80	3	74	356	356		210	168.3	127.0	7	31.8	8-Φ22	220	800		48	48
100	4	100	432	432		275	215.9	157.2	7	38.1	8-Φ25	235	950		84	84
150	6	150	559	559		355	292.1	215.9	7	47.7	12-Φ29	570		550	246	246
200	8	201	660	660		420	349.2	269.9	7	55.6	12-Φ32	716		550	412	412
250	10	252	787	787		510	431.8	323.8	7	63.5	16-Φ35	756		650	596	596
300	12	303	838	838		560	489	381.0	7	66.7	20-Φ35	785		650	631	631
350	14	334	889	889		605	527	412.8	7	69.9	20-Φ38	830		650	654	654
400	16	385	991	991		685	603.2	469.9	7	76.2	20-Φ41	860		800	1189	1189
450	18	436	1092	1092		745	654	533.4	7	82.6	20-Φ45	885		800	1662	1662
500	20	487	1194	1194		815	723.9	584.2	7	88.9	24-Φ45	915		800	1878	1878
600	24	589	1397	1397		940	838.2	692.2	7	101.6	24-Φ51	964		650	2186	2186
650	26	633	1448	1448		1015	914.4	749	7	108	28-Φ51	987		650	2305	2305
750	30	735	1651	1651		1130	1022.4	857	7	114.3	28-Φ54	1068		650	2569	2569
900	36	874	2083	2083		1315	1193.8	1022	7	123.9	28-Φ67	1104		650	2951	2951

CLASS 900

ITEM		STANDARD DIMENSION													
DN	NPS	d	FACE TO FACE DIMENSION		D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)	
(mm)	(inch)		Venturi Pattern	Regular Pattern										Venturi Pattern	Regular Pattern
25	1	25	254	254	150	101.6	50.8	7	28.6	4-Φ25	165	600		11	11
40	1-1/2	38	305	305	180	123.8	73.0	7	31.8	4-Φ29	178	750		23	23
50	2	49	368	368	215	165.1	92.1	7	38.1	8-Φ25	198	800		25.6	25.6
80	3	74	381	381	240	190.5	127.0	7	38.1	8-Φ25	236		650	115	115
100	4	100	457	457	290	235	157.2	7	44.5	8-Φ32	254		650	136	136
150	6	150	610	610	380	317.5	215.9	7	55.6	12-Φ32	605		800	274	274
200	8	201	737	737	470	393.7	269.9	7	63.5	12-Φ38	664		800	565	565
250	10	252	838	838	545	469.9	323.8	7	69.9	16-Φ38	736		800	675	675
300	12	303	965	965	610	533.4	381.0	7	79.4	20-Φ38	783		800	784	784
400	16	373	1130	1130	705	616	469.9	7	88.9	20-Φ45	856		650	863	863
500	20	471	1321	1321	855	749.3	584.2	7	108	20-Φ54	916		650	984	984

CLASS 1500

ITEM		STANDARD DIMENSION													
DN	NPS	d	FACE TO FACE DIMENSION		D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)	
(mm)	(inch)		Venturi Pattern	Regular Pattern										Venturi Pattern	Regular Pattern
25	1	25	254	254	150	101.6	50.8	7	28.6	4-Φ25	165	600		16.3	16.3
40	1-1/2	38	305	305	180	123.8	73.0	7	31.8	4-Φ29	178	750		18	18
50	2	49	368	368	215	165.1	92.1	7	38.1	8-Φ25	198	800		71	71
80	3	74	470	470	265	203.2	127.0	7	47.7	8-Φ32	232		650	126	126
100	4	100	546	546	310	241.3	157.2	7	54	8-Φ35	510		650	175	175
150	6	144	705	705	395	317.5	215.9	7	82.6	12-Φ38	562		800	263	263
200	8	192	832	832	485	393.7	269.9	7	92.1	12-Φ45	731		800	532	532
250	10	239	991	991	585	482.6	323.8	7	108	12-Φ51	763		800	689	689
300	12	287	1130	1130	678	571.5	381.0	7	123.9	16-Φ54	794		800	754	754
400	16	360	1384	1384	825	704.8	469.9	7	146.1	16-Φ67	856		650	948	948

CLASS 2500

ITEM		STANDARD DIMENSION													
DN	NPS	d	FACE TO FACE DIMENSION		D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)	
(mm)	(inch)		Regular Pattern											Regular Pattern	
25	1	25	308		160	108	50.8	7	35	4-Φ25	165	600	17.6		
40	1-1/2	38	384		205	146	73.0	7	44.5	4-Φ32	187	750	19.5		
50	2	42	451		235	171.4	92.1	7	50.9	8-Φ29	220	800	81		
80	3	62	578		305	228.6	127.0	7	66.7	8-Φ35	562	650	138		
100	4	87	673		355	273	157.2	7	76.2	8-Φ41	516	650	185		
150	6	131	914		485	368.3	215.9	7	108	8-Φ54	569	800	286		
200	8	179	1022		550	438.2	269.9	7	127	12-Φ54	731	800	549		
250	10	223	1270		675	539.8	323.8	7	165.1	12-Φ67	763	800	692		
300	12	265	1422		760	619.1	381.0	7	184.2	12-Φ73	794	800	787		

Valve torque pressure balanced plug

ITEM		CL150			CL300			CL600		CL900		CL1500		CL2500	
DN (mm)	NPS (inch)	Venturi Pattern	Regular Pattern	Short Pattern	Venturi Pattern	Regular Pattern	Short Pattern	Venturi Pattern	Regular Pattern	Venturi Pattern	Regular Pattern	Venturi Pattern	Regular Pattern	Regular Pattern	
25	1								82	105	105	115		715	
40	1-1/2								86	154	172	172	182		1020
50	2	75	75	75				105	196	235	235	236		2350	
65	2-1/2	86	86	86				116	261	356	356				
80	3	165	165	165				263	376	489	489	564		6850	
100	4	252	252	252				356	678	748	748	786			
125	5	365	365	365						846	986	986	1140	2480	
150	6	580	580	312	435	620	435	706	1120	1540	1540	2865			
200	8	1758	1758	1365	652	1352	652	1125	2165	2820	2820	3365			
250	10	1780	1780	1456	1458	2150	1458	2130	2685	4940	4940				
300	12	2650	2650	1980	2300	2540	2300	2460	4180						
350	14	1965	1965		3320		3320	4170	4170						
400	16	2615	2615		3900		3900	5560	5560						
450	18	2980	2980		4720		4720	6720	6720						
500	20	3156	3156		5520		5520	9560	9560						
600	24	3756	3756		6980		6980	13250	13250						
750	30	4563	4563					15690	15690						
900	36	5890	5890					19846	19846						

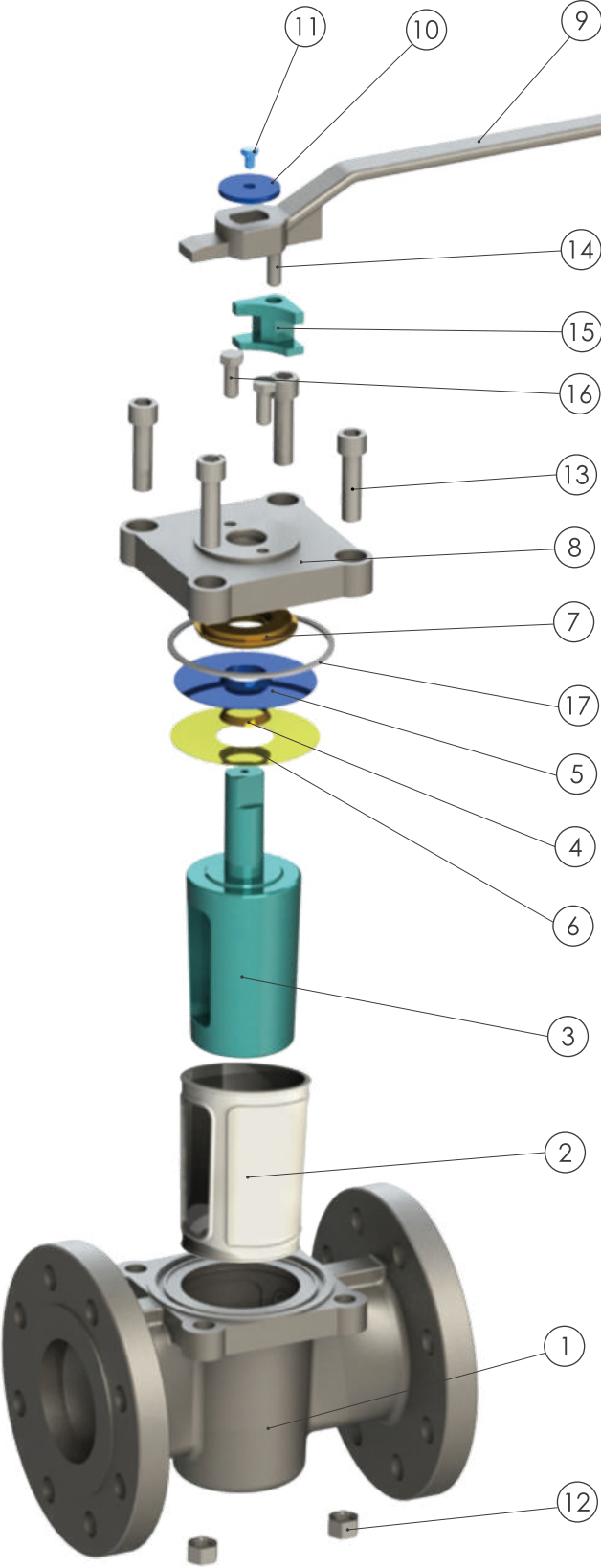
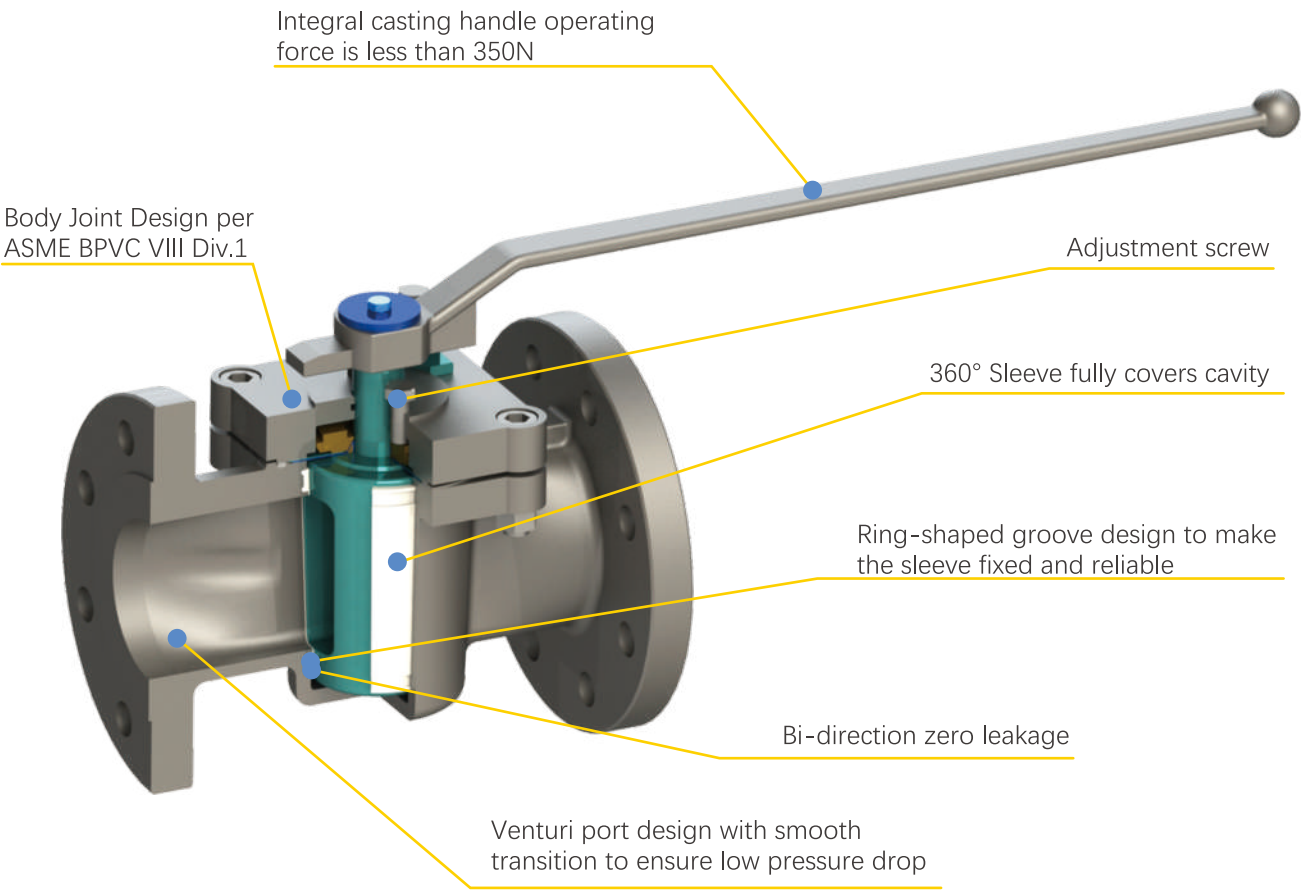
NON-LUBRICATED TYPE

Pressure Rating : Class 150-300-600

Design Standard : API 599

Max size : NPS 16"

Design Structure :



Material Sheet

ITEM	PART	MATERIAL
17	Gasket	304SS+Graphite
16	Gland Bolt	ASTM A193B7
15	Stop Block	ASTM 276 304
14	Bolt	ASTM A193 B7
13	Bolt	ASTM A193 B7
12	Bonnet Nuts	ASTM A194 2H
11	Handle Screw	ASTM A193 B7
10	Washer	ASTM A276 304
9	Handle	ASTM WCB+ENP
8	Bonnet	ASTM A216 WCB
7	Retainer Ring	ASTM A276 304
6	Flat Gasket	PTFE
5	Gasket	ASTM A276 304
4	Seal Ring	PTFE
3	Plug	ASTM A216WCB+ENP
2	Sleeve	PTFE
1	Body	ASTM A216 WCB

Note: Other materials can be provided on request

CLASS 300

ITEM		STANDARD DIMENSION																
DN	NPS	d	FACE TO FACE DIMENSION			D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)			Torque N.m
(mm)	(inch)		Venturi Pattern	Regular Pattern	Short Pattern										Venturi Pattern	Regular Pattern	Short Pattern	
15	1/2	15	176	176	176	95	66.7	34.9	2	14.3	4-Φ16	105	250		5.5	5.5	5.5	20
20	3/4	20	140	140	140	115	82.6	42.9	2	15.9	4-Φ19	105	250		4.6	4.6	4.6	25
25	1	25	159	159	159	125	88.9	50.8	2	15.9	4-Φ19	107	250		4.9	4.9	4.9	25
40	1-1/2	38	190	190	190	155	114.3	73	2	19.1	4-Φ22	126	350		8.6	8.6	8.6	50
50	2	49	216	216	216	165	127	92.1	2	20.7	8-Φ19	160	350		14.9	14.9	14.9	80
65	2-1/2	62	241	241	241	190	149.2	104.8	2	23.9	8-Φ22	169	450		19.8	19.8	19.8	90
80	3	74	282	282	282	210	168.3	127.0	2	27	8-Φ22	176	650		22.7	22.7	22.7	130
100	4	100	305	305	305	255	200	157.2	2	30.2	8-Φ22	189	650		32.6	32.6	32.6	150
150	6	150	403	403	403	320	269.9	215.9	2	35		284		600	85	85	85	600
200	8	201	419	502	419	380	330.2	269.9	2	39.7		326		600	236	273	125	850
250	10	252	457	568	457	445	387.4	323.8	2	46.1		374		600	294	326	142	1000
300	12	303	502	711	502	520	450.8	381.0	2	49.3		395		600	345	398	162	2850
350	14	334	762	762	762	585	514.4	412.8	2	52.4		487		600	416	416	416	6100
400	16	385	838	838	838	650	571.5	469.9	2	55.6		514		750	495	495	495	7500
450	18	436	914	914	914	710	628.6	533.4	2	58.8		539		750	910	910	910	8500
500	20	487	991	991	991	775	685.8	584.2	2	62		615		800	987	987	987	9150
600	24	589	1143	1143	1143	915	812.8	692.2	2	68.3		694		800	1206	1206	1206	10500

CLASS 150

ITEM		STANDARD DIMENSION																
DN	NPS	d	FACE TO FACE DIMENSION			D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)			Torque N.m
(mm)	(inch)		Venturi Pattern	Regular Pattern	Short Pattern										Venturi Pattern	Regular Pattern	Short Pattern	
15	1/2	15	176	176	176	90	60.3	34.9	2	8	4-Φ16	105	250		4.9	4.9	4.9	20
20	3/4	20	140	140	140	100	69.9	42.9	2	8.9	4-Φ16	105	250		4.1	4.1	4.1	25
25	1	25	140	140	140	110	79.4	50.8	2	9.6	4-Φ16	107	250		4.6	4.6	4.6	25
40	1-1/2	38	165	165	165	125	98.4	73	2	12.7	4-Φ16	126	350		7.8	7.8	7.8	50
50	2	49	178	178	178	150	120.7	92.1	2	14.3	4-Φ19	160	350		12.3	12.3	12.3	80
65	2-1/2	62	190	190	190	180	139.7	104.8	2	15.9	4-Φ19	169	450		16.3	16.3	16.3	90
80	3	74	203	203	203	190	152.4	127.0	2	17.5	4-Φ19	176	650		19.5	19.5	19.5	130
100	4	100	229	305	229	230	190.5	157.2	2	22.3	8-Φ19	189	650		22.6	22.6	22.6	150
150	6	150	394	394	267	280	241.3	215.9	2	23.9	8-Φ22	284	600		59	59	102	600
200	8	201	457	457	292	345	298.5	269.9	2	27	8-Φ22	326	600		213	213	125	850
250	10	252	533	533	330	405	362	323.8	2	28.6	12-Φ25	374	600		268	268	142	1000
300	12	303	610	610	356	485	431.8	381.0	2	30.2	12-Φ25	395	600		312	312	162	2850
350	14	334	686	686		535	476.3	412.8	2	33.4	12-Φ29	487	600		368	368	-	6100
400	16	385	762	762		595	539.8	469.9	2	35	16-Φ29	514	750		439	439	-	7500
450	18	436	864	864		635	577.9	533.4	2	38.1	16-Φ32	539	750		856	856	-	8500
500	20	487	914	914		700	635	584.2	2	41.3	20-Φ32	615	800		893	893	-	9150
600	24	589	1067	1067		815	794.3	692.2	2	46.1	20-Φ35	694	800		975	975	-	10500

CLASS 600

ITEM		STANDARD DIMENSION														
DN	NPS	d	FACE TO FACE DIMENSION		D	D1	D2	f	b	n-Φd	H	L1	φW	WEIGHT(Kg)		Torque N.m
(mm)	(inch)		Venturi Pattern	Regular Pattern										Venturi Pattern	Regular Pattern	
15	1/2	15	176	176	95	66.7	34.9	7	14.3	4-Φ16	105	250		6.9	6.9	20
20	3/4	20	140	140	115	82.6	42.9	7	15.9	4-Φ19	105	250		5.6	5.6	25
25	1	25	216	216	125	88.9	50.8	7	17.5	4-Φ19	107	250		7.8	7.8	25
40	1-1/2	38	241	241	155	114.3	73.0	7	22.3	4-Φ22	126	350		9.6	9.6	50
50	2	49	292	292	165	127	92.1	7	25.4	8-Φ19	160	350		14.6	14.6	80
65	2-1/2	62	330	330	190	149.2	104.8	7	28.6	8-Φ22	169	450		19.4	19.4	90
80	3	74	356	356	210	168.3	127.0	7	31.8	8-Φ22	176	650		22.9	22.9	130
100	4	100	432	432	275	215.9	157.2	7	38.1	8-Φ25	189	650		29.6	29.6	150
150	6	150	559	559	355	292.1	215.9	7	47.7	12-Φ29	284	600		76	76	600
200	8	201	660	660	420	349.2	269.9	7	55.6	12-Φ32	326	600		259	259	850
250	10	252	787	787	510	431.8	323.8	7	63.5	16-Φ35	374	600		324	324	1000
300	12	303	838	838	560	489	381.0	7	66.7	20-Φ35	395	600		397	397	2850
350	14	334	889	889	605	527	412.8	7	69.9	20-Φ38	487	600		426	426	6100
400	16	385	991	991	685	603.2	469.9	7	76.2	20-Φ41	514	750		756	756	7500
450	18	436	1092	1092	745	654	533.4	7	82.6	20-Φ45	539	750		1056	1056	8500
500	20	487	1194	1194	815	723.9	584.2	7	88.9	24-Φ45	615	800		1269	1269	9150
600	24	589	1397	1397	940	838.2	692.2	7	101.6	24-Φ51	694	800		1437	1437	10500