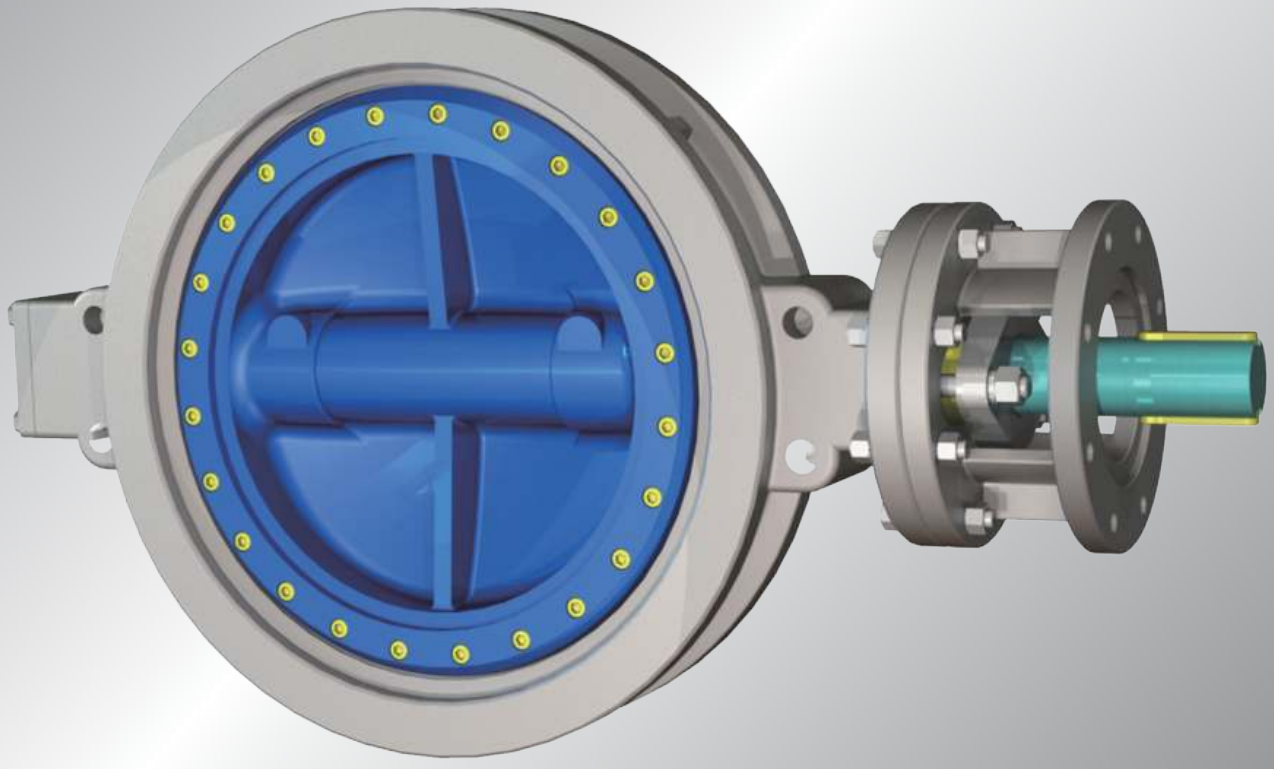


Triple Offset Butterfly Valves

MT GROUP

Company Introduction

MT group founded in 2003, is two-decade old international valve company, headquartered in Shanghai.The group's primary objective is to exceed in production quality, safety and value to the worldwide market, and to be a global leader in valve production, supply and customer service. With vast access to rich industrial resources which ensures superior quality of product and expedient delivery to customers.

Our leading products include ball valves, gate valves, globe valves, check valves, plug valves and butterfly valves, which are widely used in the oil, gas, chemical industry, power station, offshore, and water treatment, as well as various other industrial systems.

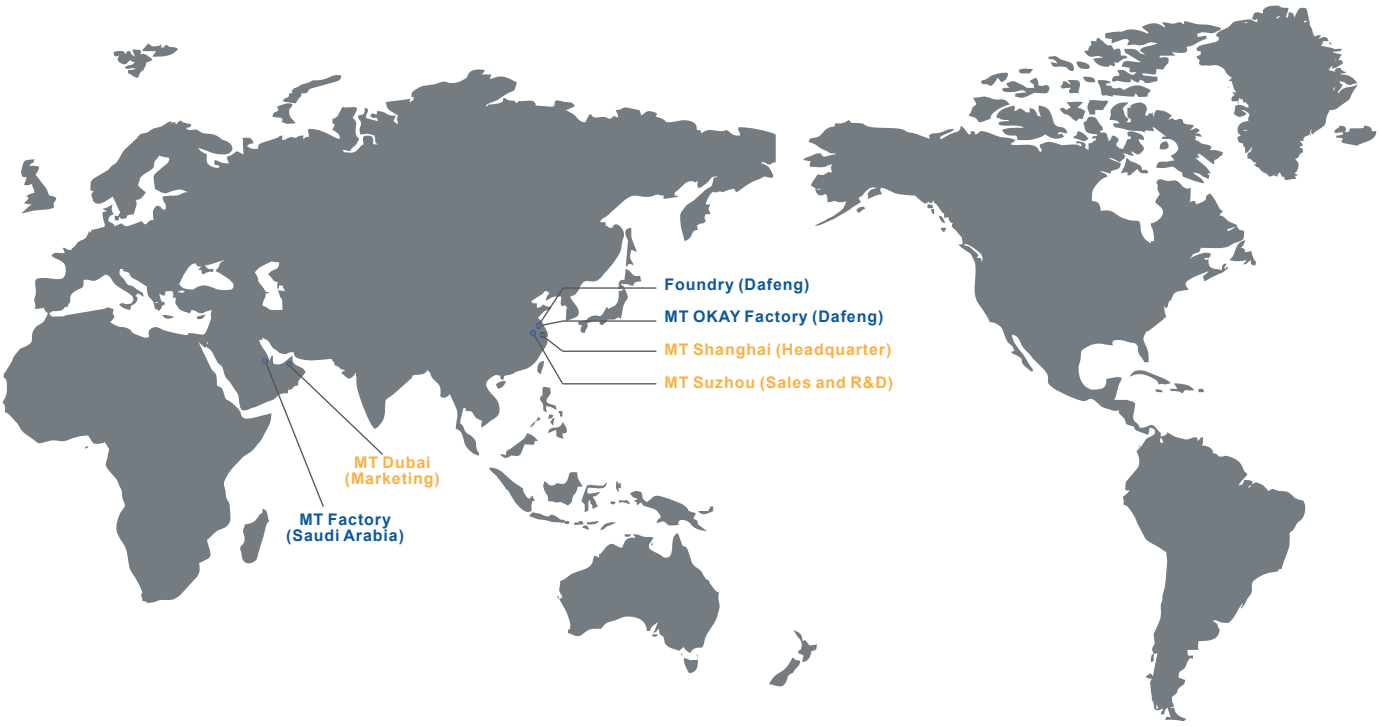
Product size ranges from 1/2 to 72 inches and pressure class ranges from Class150 to 2500. All Our products are in strict compliance with API, ASME, ANSI, DIN, ISO, GB and other reputed international standards. We have more than 50 experienced professionals to provide professional technical response and product application services. We are equipped with a professional valve R&D laboratory to ensure that product design and development meet the requirements of various harsh working conditions.

Backed by its multiple manufacturing units, own foundry, forge shop, innovative design engineering Team, dynamic & professional management, offices, associates and channel partners across all continents; MT Group is emerging as a leading Flow Control solution provider around the globe. MT Group is comitted to provide prompt response, high quality of products and services all time every time. The factories under MT group, respectively, get through the ISO 9001, ISO 14001, ISO 18001, CE, API 6D, API 600, API 607, API 6FA, TS, and a series of international and domestic certification. Products cover Europe, America, Africa, Middle East and Southeast Asia and other regions.

Certification



- API 6D
- API 600
- API 607
- ISO 9001
- AD 2000
- CE/PED
- ISO 14001
- ISO 18001
- API 594
- TS



Fast technical support & delivery capability
High quality castings and forgings from in-house supply
Globalizing collaborative service



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



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.



PRESSURE TEST



TORQUE TEST

NONDESTRUCTIVE TEST(NDT)



TAT TEST





CRYOGENIC TEST



COORDINATE MEASURING MACHINE

HEAT TREATMENT FURNACE



INDUSTRIAL VALVE MANUFACTURER

Quality Control

MT Group's factories are equipped with precise measurement and testing equipment to perform UT, MT, PT, PMI, Impact Test, Tensile test, CMM, High Temperature Test, Cryogenic Test, Low Emission Test, High Pressure Gas Test, Paint Thickness Test, Surface Roughness Test, Hydraulic Test etc. Entirely supply chain management , from raw material purchasing until finished goods every process is under control.

Triple Offset Butterfly Valves

Pressure Rating:

Class 150-300-600

Standard:

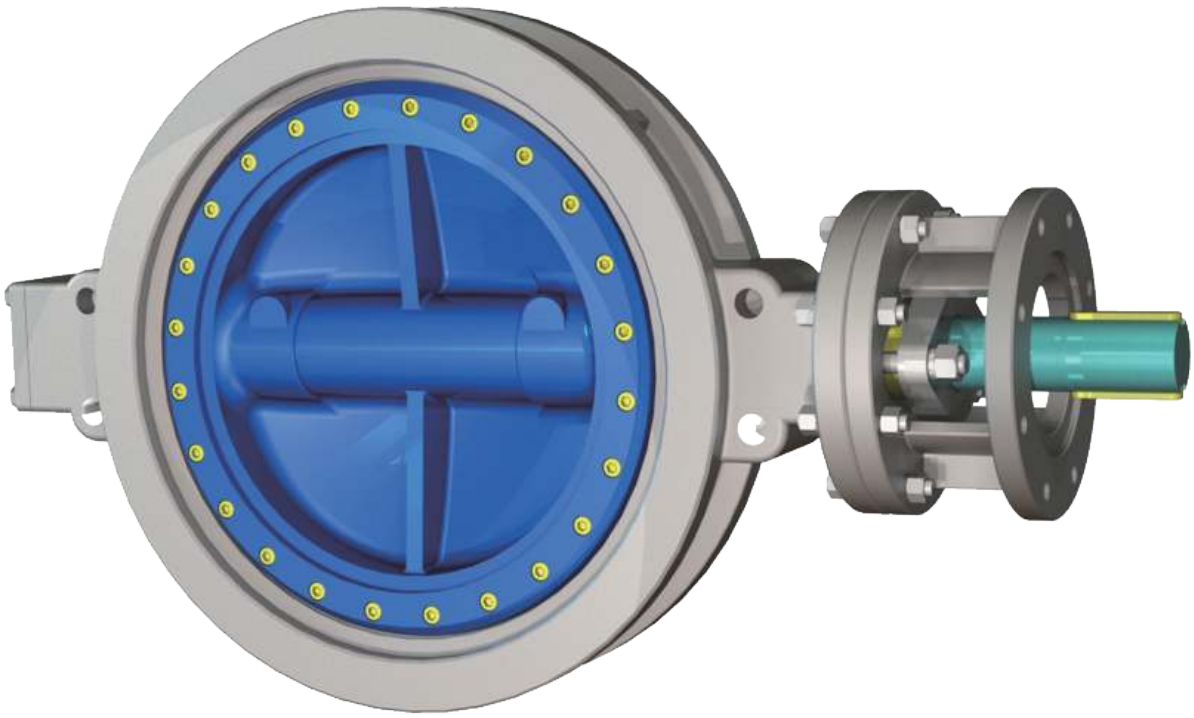
API 609, ASME B16.34

Maxsize:

NPS 60''

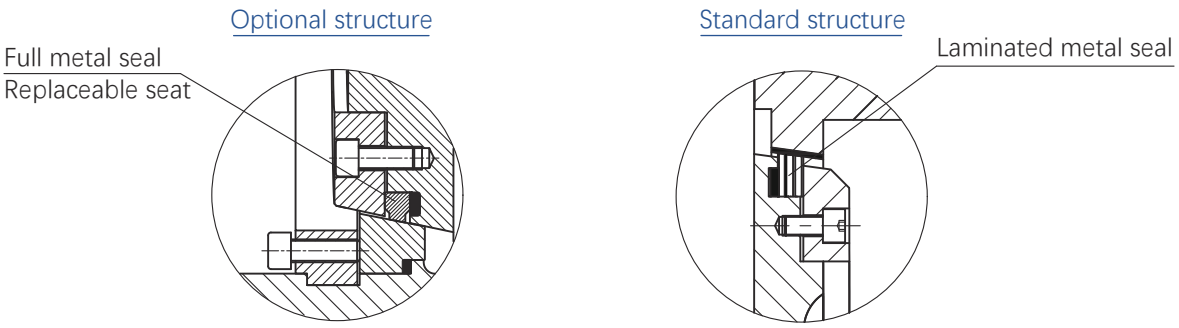
Design Structure:

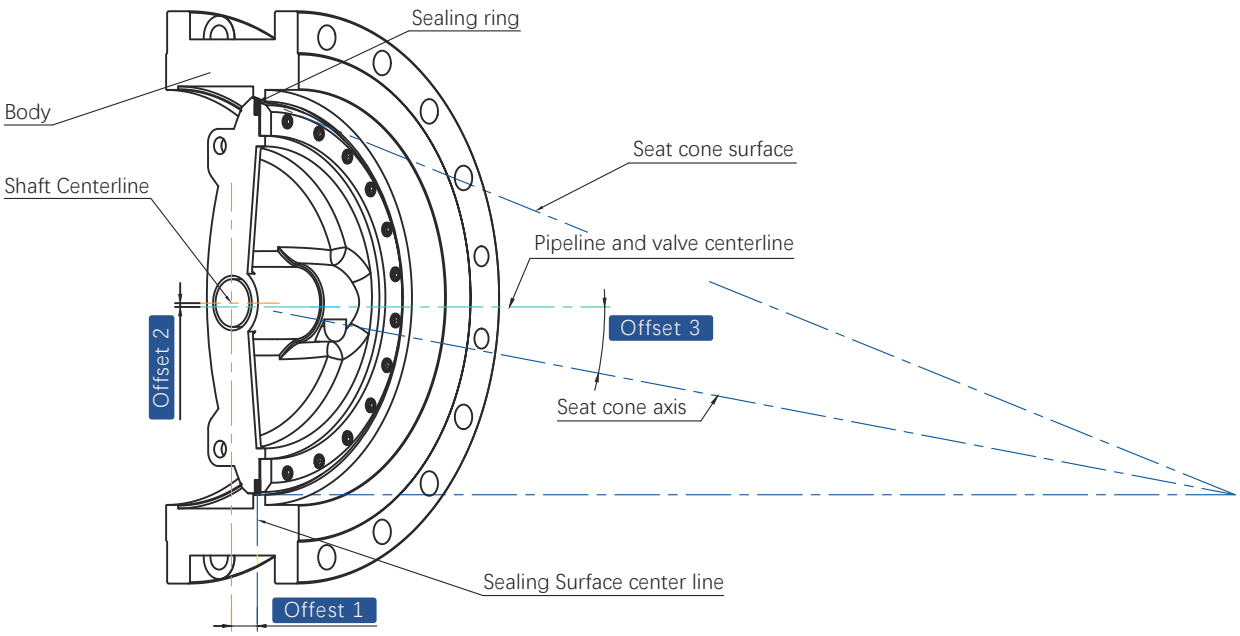
Bi-directional / Metal Seated / Integral Seat or Replaceable Seat



Design Feature:

1. High performance triple offset butterfly valves can meet the zero leakage in bi-directional.
2. Triple offset completely eliminates the friction between the seat and sealing ring in 90° rotation.
3. STL. hard-face seat could be applied to various working conditions for long service life.
4. One-piece cast body, face-to-face dimensions conforming to ASME B16.10 and API 609.
5. Intrinsically fireproof thanks to all metal structure and leak-tight performance.
6. Anti-blowout stem for high reliability, completely conforming to API 609.
7. One-piece shaft structure, stem and disc jointed by key or pin-key combination.

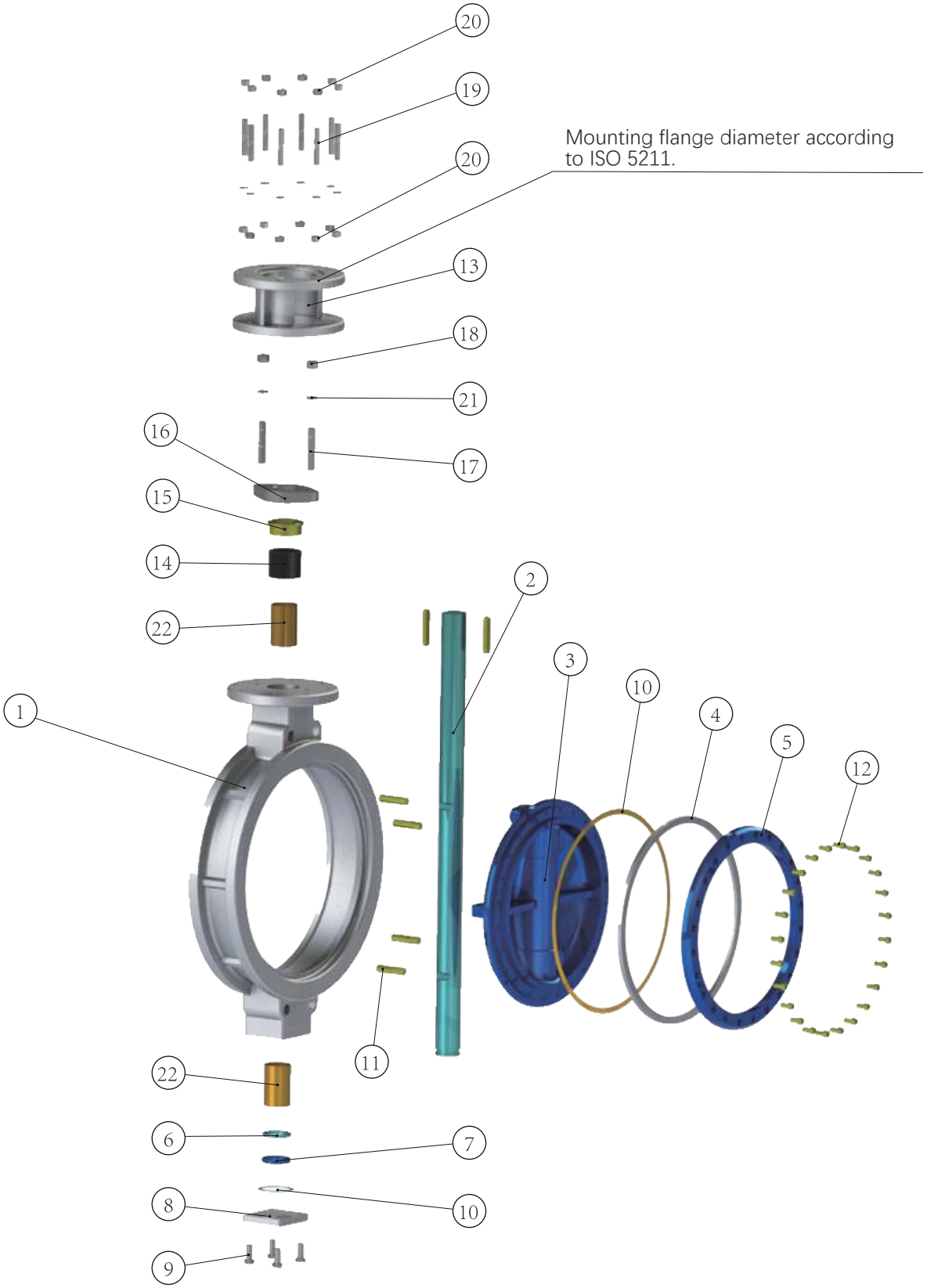


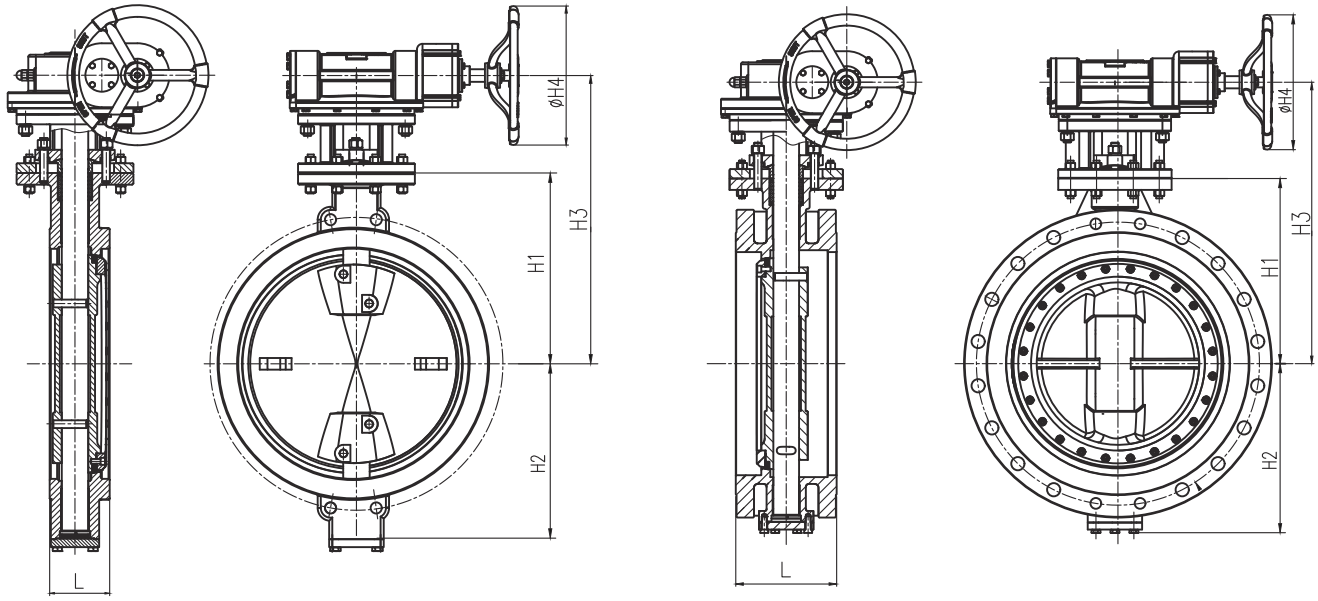


Material Sheet

ITEM	PART	CARBON STEEL	STAINLESS STEEL
1	Body	ASTM A216 WCB+STL.21	ASTM A351 CF8M+STL.21
2	Stem	ASTM A182 F6a	ASTM A182 F51
3	Disc	ASTM A216 WCB	ASTM A351 CF8M
4	Sealing Ring	UNS S31803+Graphite	UNS S31803+Graphite
5	Retainer Ring	ASTM A276 410	UNS S31803
6	Stop Ring	ASTM A276 420	ASTM A276 316
7	Space Ring	ASTM A276 420	ASTM A276 316
8	Bottom Cover	ASTM A105	ASTM A182 F316
9	Bolt	ASTM A193 B7	ASTM A193 B8M
10	Gasket	SS304+Graphite	SS316+Graphite
11	Pin	ASTM A276 410	UNS S31803
12	Screw	ASTM A193 B8M CL.2	ASTM A193 B8M CL.2
13	Yoke	ASTM A216 WCB	ASTM A351 CF8M
14	Packing	Graphite	Graphite
15	Gland	ASTM A276 410	ASTM A276 316
16	Gland Flange	ASTM A216 WCB	ASTM A351 CF8
17	Stud	ASTM A193 B7	ASTM A193 B8M
18	Nut	ASTM A194 2H	ASTM A194 8M
19	Stud	ASTM A193 B7	ASTM A193 B8M
20	Nut	ASTM A194 2H	ASTM A194 8M
21	Washer	Carbon Steel	Stainless Steel
22	Space Ring	ASTM A276 410	ASTM A276 316

Design Structure





CLASS 150

Size	Double Flange		Wafer Or Lug Type	Height of Valve Center Above (H1)	Valve Center Below (H2)	Length From Valve Center to Handwheel (H3)	Diameter of Gear Box Handwheel (H4)	Yoke Flange (ISO 5211)	End Flange
	Face to Face (L) (Short Pattern)	Face to Face (L) (Long Pattern)	Face to Face (L)						
2"	108	178	43	94	77	188	250	F07	ASME B16.5
2-1/2"	112	191	46	109	92	203	250	F07	ASME B16.5
3"	114	203	48	114	97	208	250	F07	ASME B16.5
4"	127	229	54	135	130	229	250	F07/F10	ASME B16.5
6"	140	267	57	168	158	289	320	F10	ASME B16.5
8"	152	292	64	200	192	321	320	F12	ASME B16.5
10"	165	330	71	234	232	368	360	F12	ASME B16.5
12"	178	356	81	290	270	444	460	F14	ASME B16.5
14"	190	381	92	305	296	499	600	F16	ASME B16.5
16"	216	406	102	342	332	536	600	F16	ASME B16.5
18"	222	432	114	375	360	569	600	F16	ASME B16.5
20"	229	457	127	405	392	601	600	F16/F25	ASME B16.5
24"	267	508	154	490	480	701	600	F25	ASME B16.5
26"	292	559	165	495	485	706	600	F25/F30	ASME B16.47A/B
28"	292	610	165	525	513	736	600	F30	ASME B16.47A/B
30"	318	610	190	552	542	811	600	F30	ASME B16.47A/B
32"	218	660	190	600	578	859	600	F30/F35	ASME B16.47A/B
36"	330	711	203	656	642	1003	650	F35	ASME B16.47A/B
40"	410		216	715	706	1128	700	F40	ASME B16.47A/B
42"	410		254	745	735	1158	700	F40	ASME B16.47A/B
48"	470		254	850	828	1303	750	F40	ASME B16.47A/B
54"			390	940	915	1393	750	F40/F48	ASME B16.47A/B
56"			390	965	950	1433	750	F48	ASME B16.47A/B
60"			390	1230	1007	1698	750	F48	ASME B16.47A/B

CLASS 300

Size	Double Flange		Wafer Or Lug Type	Height of Valve Center Above (H1)	Valve Center Below (H2)	Length From Valve Center to Handwheel (H3)	Diameter of Gear Box Handwheel (H4)	Yoke Flange (ISO 5211)	End Flange
	Face to Face (L) (Short Pattern)	Face to Face (L) (Long Pattern)	Face to Face (L)						
2"	150	216	43	105	90	199	250	F07	ASME B16.5
3"	180	282	48	130	110	244	250	F07/F10	ASME B16.5
4"	190	305	54	155	150	276	320	F10	ASME B16.5
6"	210	403	59	195	190	329	360	F12	ASME B16.5
8"	230	408	73	230	225	394	460	F14	ASME B16.5
10"	250	457	83	270	260	464	600	F16	ASME B16.5
12"	270	502	92	315	305	509	600	F16	ASME B16.5
14"	290	762	117	350	340	561	600	F16/F25	ASME B16.5
16"	310	838	133	390	380	601	600	F25	ASME B16.5
18"	330	614	149	420	410	679	600	F25/F30	ASME B16.5
20"	350	991	159	460	450	719	600	F25/F30	ASME B16.5
24"	390	1143	181	535	525	882	650	F35	ASME B16.5
26"	410	1245	210	570	555	917	650	F35	ASME B16.47A/B
28"	430	1346	229	600	590	947	650	F35/F40	ASME B16.47A/B
30"	450	1397	241	635	625	982	650	F35/F40	ASME B16.47A/B
32"	470	1524	241	675	660	1128	750	F40	ASME B16.47A/B
36"	510	1727	241	745	725	1198	750	F48	ASME B16.47A/B
40"	550		300	750	720	1218	750	F48	ASME B16.47A/B
42"	570		300	770	750	1238	750	F48/F60	ASME B16.47A/B
48"	630		360	875	850	1385	800	F48/F60	ASME B16.47A/B
54"			390	990	960	1500	800	F60	ASME B16.47A/B
56"			390	1020	990	1530	800	F60	ASME B16.47A/B
60"			440	1080	1050	1590	800	F60	ASME B16.47A/B

CLASS 600

Size	Double Flange		Wafer Or Lug Type	Height of Valve Center Above (H1)	Valve Center Below (H2)	Length From Valve Center to Handwheel (H3)	Diameter of Gear Box Handwheel (H4)	Yoke Flange (ISO 5211)	End Flange
	Face to Face (L) (Short Pattern)	Face to Face (L) (Long Pattern)	Face to Face (L)						
3"	180	356	54	150	130	271	80	F12	ASME B16.5
4"	190	432	64	190	165	311	80	F12	ASME B16.5
6"	210	559	78	245	215	404	100	F14	ASME B16.5
8"	230	660	102	280	255	474	135	F16	ASME B16.5
10"	250	787	117	340	310	551	150	F25	ASME B16.5
12"	270	838	140	375	345	594/634	150/190	F25/F30	ASME B16.5
14"	290	889	155	410	375	629/669	150/190	F25/F30	ASME B16.5
16"	310	991	178	460	425	719	190	F35	ASME B16.5
18"	330	1092	200	500	465	817	190	F35	ASME B16.5
20"	350	1194	216	545	505	888/918	190/220	F35/F40	ASME B16.5
24"	390	1397	232	620	585	1033	220	F40	ASME B16.5
26"		1448	292	660	630	1088/1128	220/260	F40/F48	ASME B16.47A/B
28"		1549	292	710	670	1178	260	F48	ASME B16.47A/B
30"		1651	318	740	705	1208	260	F48	ASME B16.47A/B
32"		1778	318	775	745	1285	260	F60	ASME B16.47A/B
36"		2083	330	850	822	1360	260	F60	ASME B16.47A/B
40"			410	870	842	1380	260	F60	ASME B16.47A/B

REV. 2020-A

MT GROUP

INDUSTRIAL VALVE MANUFACTURER

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