Didtek®

www.didtek.com

Cast Steel Valves

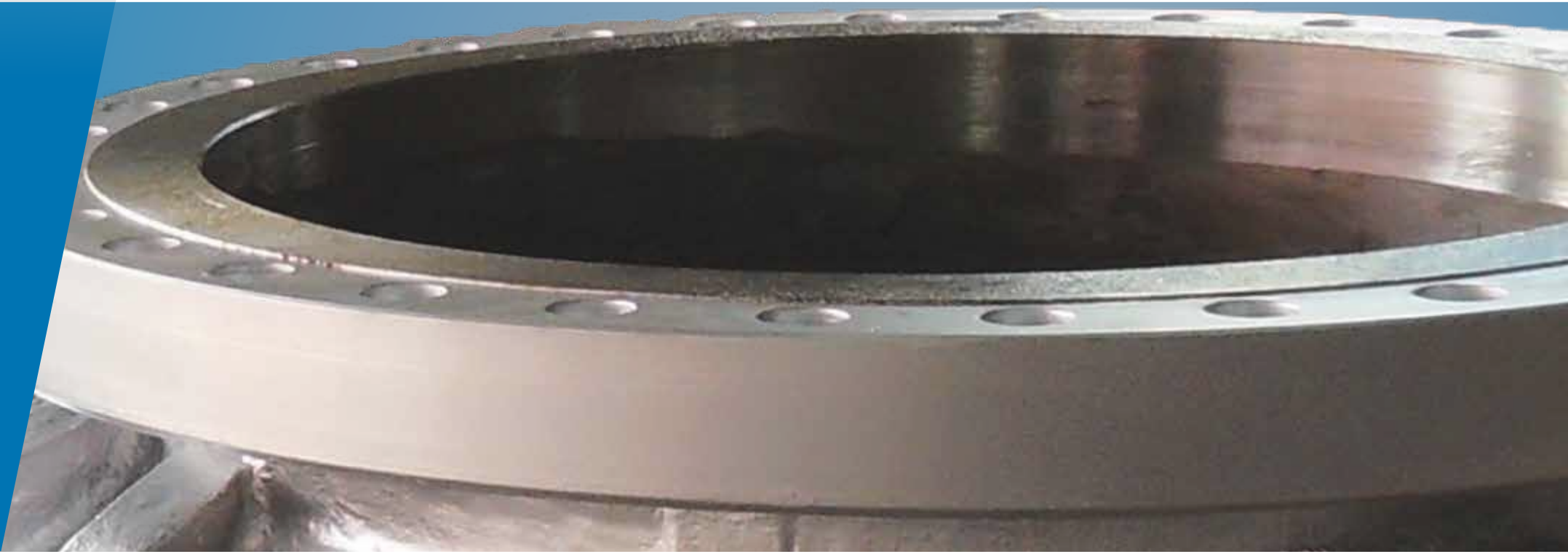
Gate/Globe/Check

Carbon
Stainless
ANSI 150-2500

Catalog CAV-1001

Welcome
to our catalog

Didtek's industrial valves are characterized by outstanding operational performance, exceptional reliability and durability. The line is also known for its standard features which are normally optional in other brands. Our valves are designed, engineered and manufactured in strict conformance to API, ASTM, ASME, ANSI and other recognized codes and requirements.



Content

Cast Steel Gate Valve

Category Gate Valve - API 600-Specification 02

Category Gate Valve - API 600 - 3D Draw And Materials 03

Category Gate Valve - API 600 - Gate Valve Picture 04

Category Gate Valve - API 600 - Table Of Available Dimensions 05

Cast Steel Globe Valve

Category Globe Valve - BS1873-Specification 07

Category Globe Valve - BS1873 - 3D Draw And Materials 08

Category Globe Valve - BS1873- Globe Valve Picture 09

Category Globe Valve - BS1873 - Table Of Available Dimensions 10

Cast Steel Swing Check Valve

Category Swing Check Valve - BS1868-Specification 12

Category Swing Check Valve - BS1868 - 3D Draw And Materials 13

Category Swing Check Valve - BS1868- Swing Check Valve Picture 14

Category Swing Check Valve - BS1868 - Table Of Available Dimensions 15

Engineer Data

Flanges ASME B 16.5 17

Flanges ASME B 16.47 19

Butt Weld ASME B 16.25 20

Pressure Temperature Ratings 21

Category Gate Valve - API 600-Specification

Cast Steel Gate Valve

Figure:DIDTEKCSGV

Didtek Cast steel Gate Valves are manufactured to the latest editionof API Standard 600 and tested to API Standard 598.

Application & Function:

Didtek Cast steel Gate valves are primarily used for stop valves fully opened or fully closed. They are not normally considered for throttling purposes, but more for slurries, viscous fluids, etc. Gate valves are characterized by a traveling wedge, which is moved with the operation of the stem nut. The wedge travels perpendicular to the direction of the flow. Gate valves usually have a minimum pressure drop when fully open, provide tight shut-off when fully closed, and remain relatively free of contamination buildup.

Accessories:

Accessories such as gear operators, actuators, bypasses, locking devices, chain wheels, extended stems and bonnets for cryogenic service and many others are available to meet the customers' requirements.

Applicable Standards:

- Gate valve, API600
- Steel Valves, ASME B16.34
- Face to face ASME B16.10
- End Flanges ASME B16.5/ASME B16.47
- Buttwelding ends ASME B16.25
- Inspection and test API 598

Pressure Range:

- ASME CL, 150, 300, 600, 900, 1500, 2500

Temperature Range:

- -50°C~650°C

Size Range:

- 2"~36"

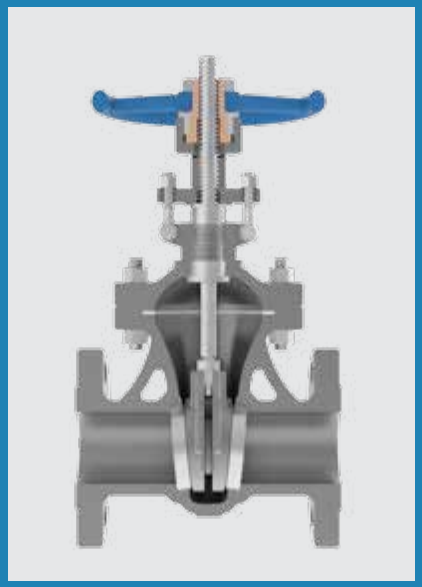
▪ Engineered for optimum control of fugitive emissions leakage to atmosphere.
▪ Polished valve stem and reduces diametrical tolerences ensure low fugitive emissions.
▪ Backseat relieves back pressure on the stem packing when fully seated.

▪ Welding Seating Ring
▪ API Trim #8 and #5 for different medium and temperature.
▪ Seat Ring has Stellite and 13%Cr Overlay that is ground and lapped.
▪ Flexible wedge compensates for seat face distortion.

14" and above (2 Pcs Yoke)

Gear Operator Available for any size

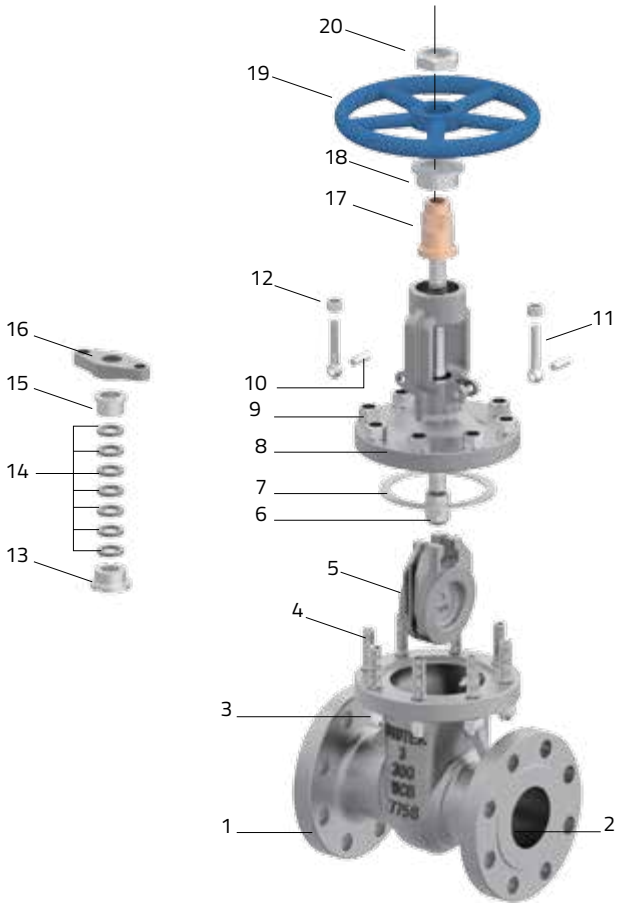
ISO 5210 Mounting Pad for Actuator



Design Description:

- Outside Screw and York
- Bolted Bonnet and Pressure Seal
- Flexible wedge, fully guided
- Welding seat rings or Renewable seat rings
- Rising stem and non-rising stem
- Available with gear operator
- Flange Ends
- Buttwelding Ends

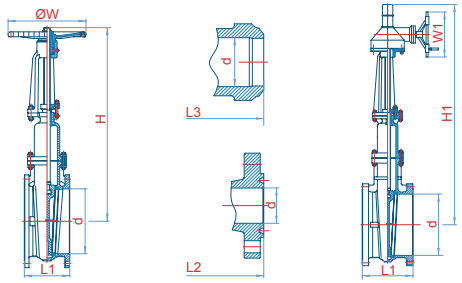
Category Gate Valve - API 600 - 3D Draw And Materials



Parts name	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM				Stainless Steel to ASTM				Parts name
1	Body	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	1
2	Seat	A105+13Cr	A105+304	F11/F22+STL				304	316	304L	316L	2
3	Nuts	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	3
4	Bolts	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	4
5	Disc	A216 WCB+13Cr	A352 LCB+304	A217 WC1+STL	A217 WC6+STL	A217 WC9+STL	A217 C5+STL	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	5
6	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	F304	F316	F304L	F316L	6
7	Gasket	SS Spiral Wound W/graphite,or SS Spiral Wound W/PTFE,or Reinforced PTFE										7
8	Bonnet	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	8
9	Nuts	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	9
10	Gland Eyebolt Pin	A29 1035						A276 304				10
11	Eyebolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	11
12	Nuts	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	12
13	Backseat Bushing	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	F304	F316	F304L	F316L	13
14	Packing	Braided graphite,or Die-formed graphite ring or PTFE										14
15	Gland	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	15
16	Gland Flange	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	16
17	Stem Nut	Copper alloy or A439 D2										17
18	Yoke Cap	AISI 1045	AISI 1045	AISI 1045	AISI 1045	AISI 1045	AISI 1045	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	18
19	Hand wheel	Ductile iron /Malleable Iron										19
20	H.W.Lock Nut	Carbon Steel						Stainless Steel				20

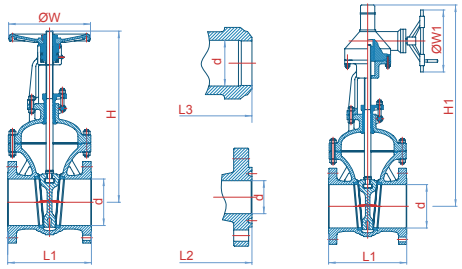
Category Gate Valve - API 600 - Gate Valve Picture

Category Gate Valve - API 600 - Table Of Available Dimensions



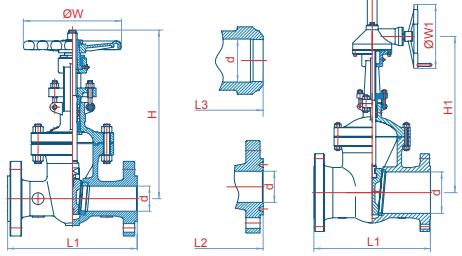
150LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"
		50 mm	65 mm	80 mm	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm	500 mm	600 mm	650 mm	700 mm	750 mm	800 mm	850 mm	900 mm
Face to Face	L1:RF	178	190	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	711
	L2:RTJ	191	203	216	241	279	305	343	368	394	419	445	470	521	-	-	-	-	-	-
	L3:BW	216	241	282	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1016
Valve Bore(d)		50	63	76	100	150	200	250	300	336	387	438	488	590	633	684	735	779	830	874
Valve Height(H)		340	365	410	485	595	755	895	1040	1145	1333	1420	1635	1862	-	-	-	-	-	-
Valve Height(H1)		-	-	-	-	795	1015	1210	1405	1535	1780	1900	2220	2557	2680	2890	3110	3280	3500	3640
Handwheel Diameter(W)		200	200	250	280	300	360	400	450	500	500	600	700	800	-	-	-	-	-	-
Handwheel Diameter(W1)		-	-	-	-	310	310	310	460	460	460	460	530	530	530	530	600	600	600	600
Weight(Kg)	Handwheel	20	23	36	54	82	136	196	299	381	536	608	827	1202	-	-	-	-	-	-
	Gear	-	-	-	-	104	150	215	315	451	597	651	863	1357	1550	1880	2300	2550	2950	3390



300LB

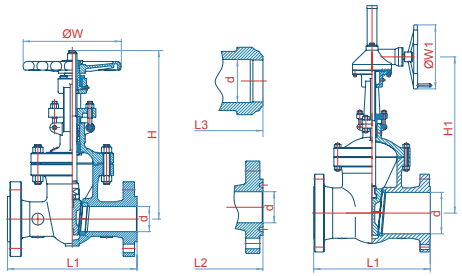
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	650mm	700mm	750mm	800mm	850mm	900mm
Face to Face	L1:RF	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1626	1727
	L2:RTJ	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1654	1756
	L3:BW	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1626	1727
Valve Bore（d）		50	63	76	100	150	200	250	300	336	387	431	482	584	633	684	735	779	830	874
Valve Height(H)		364	385	460	540	649	798	940	1129	1195	1340	1503	1625	1965	-	-	-	-	-	-
Valve Height(H1)		-	-	-	650	835	1030	1255	1460	1585	1830	2000	2175	2620	2850	3080	3180	3300	3550	3760
Handwheel Diameter(W)		200	200	250	280	350	400	450	500	600	500	650	750	900	-	-	-	-	-	-
Handwheel Diameter(W1)		-	-	-	310	310	310	460	460	460	460	460	530	530	600	600	600	600	600	600
Weight(Kg)	Handwheel	26	36	55	67	147	228	332	512	715	850	1100	1300	2200	-	-	-	-	-	-
	Gear	-	-	-	100	186	235	416	502	756	965	1224	1400	2385	3000	3300	3550	4400	5200	6050



600LB

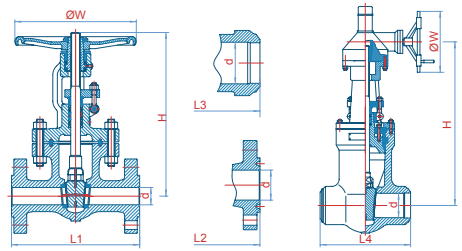
Valve Size		2"	2-1/2	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Face to Face	L1:RF	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
	L2:RTJ	295	333	359	435	562	664	791	841	892	994	1095	1200	1407
	L3:BW	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
Valve Bore（d）		50	63	76	100	150	199	247	298	326	374	419	463	558
Valve Height(H)		380	420	500	575	750	850	1005	1130	1270	1365	-	-	-
Valve Height(H1)		-	-	585	695	900	1110	1300	1650	1750	1900	2020	2172	2650
Handwheel Diameter(W)		200	250	280	300	450	500	650	700	900	900	-	-	-
Handwheel Diameter(W1)		-	-	310	310	460	460	460	460	530	530	600	600	600
Weight(Kg)	Handwheel	37	50	82	142	245	423	682	932	1177	1513	-	-	-
	Gear	-	-	87	227	286	472	657	893	1318	1720	1980	2460	3650

Category Gate Valves - API 600 - Table Of Available Dimensions



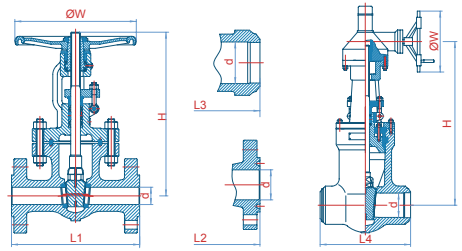
900LB

Valve Size		2"	2-1/2	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm
Face to Face	L1:RF	368	419	381	457	610	737	838	965	1029	1130	1219	1321
	L2:RTJ	371	422	384	460	613	740	841	968	1038	1140	1232	1334
	L3:BW	368	419	381	457	610	737	838	965	1029	1130	1219	1321
Valve Bore（d）		47	57	72	98	146	190	238	282	311	355	400	444
Valve Height(H)		500	450	505	575	795	885	1035	1180	1350	1890	-	-
Valve Height(H1)		-	-	590	625	900	1000	1130	1520	1600	2100	2232	2435
Handwheel Diameter(W)		280	280	300	350	500	650	700	9000	900	900	-	-
Handwheel Diameter(W1)		-	-	310	310	460	460	530	530	530	600	800	800
Weight(Kg)	Handwheel	70	110	140	178	358	550	1000	1215	1600	2150	-	-
	Gear	-	-	167	227	396	627	1100	1310	1665	2330	3000	3800



1500LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm
Face to Face	L1:RF	368	419	470	546	705	832	991	1130	1257	1384	1537
	L2:RTJ	371	422	473	549	711	841	1000	1146	1276	1407	1559
	L3:BW(BB)	368	419	470	546	705	832	991	1130	1257	1384	1537
	L4:BW(PSB)	216	254	305	406	559	711	864	991	1067	1194	1346
Valve Bore（d）		47	57	69	92	136	177	222	263	288	330	311
Valve Height(H)		430	490	540	650	835	925	1230	-	-	-	-
Valve Height(H1)		-	-	680	810	1035	1180	1525	1620	1905	2050	-
Handwheel Diameter(W)		280	300	350	400	500	750	900	-	-	-	-
Handwheel Diameter(W1)		-	-	310	310	460	530	600	600	600	600	-
Weight(Kg)	Handwheel	70	110	175	270	520	820	1560	-	-	-	-
	Gear	-	-	202	300	575	915	1750	2120	3306	3450	-



2500LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm
Face to Face	L1:RF	451	508	578	673	914	1022	1270	1422
	L2:RTJ	454	514	584	683	927	1038	1292	1445
	L3:BW(BB)	451	508	578	673	914	1022	1270	1422
	L4:BW(PSB)	279	330	368	457	610	762	914	1041
Valve Bore（d）		38	47	57	72	111	146	184	218
Valve Height(H)		490	580	630	725	1040	1150	1400	-
Valve Height(H1)		580	630	765	850	1100	1150	1460	1660
Handwheel Diameter(W)		280	300	350	400	600	750	900	-
Handwheel Diameter(W1)		310	310	310	310	530	460	600	600
Weight(Kg)	Handwheel	100	150	245	390	780	1260	2380	-
	Gear	130	180	275	420	835	1355	2565	3250

Category Globe Valve - BS1873-Specification

Cast Steel Globe Valve

Figure:DIDTEKCSGLV

Didtek Cast steel Globe Valves are manufactured to the latest editionof BS1873and tested to API Standard 598.

Application & Function:

Didtek Cast steel globe valve is used for throttling flow control. Shut off is accomplished by moving the disc against the flow stream rather than across it as in the case with a gate valve. The flow pattern through a globe valve involves changes in direction, resulting in greater resistance to flow, causing high pressure drop. Didtek Cast steel Globe valve is an excellent valve to use for on-off service, also is highly suited for frequent cycling and control of fluids anywhere in amount or volume between the open and closed positions.

Didtek Cast steel globe valve must be installed in the proper relation to the media flow as indicated by the flow direction arrow marked on the valve body. This valve is considered uni-directional and must be installed with the pressure side or inlet under the seat.

Accessories:

Accessories such as gear operators, actuators, bypasses,locking devices, chain wheels, extended stems and bonnets for cryogenic service and many others are available to meet the customers' requirements.

Applicable Standards:

- Globe valve, BS1873
- Steel Valves, ASME B16.34
- Face to face ASME B16.10
- End Flanges ASME B16.5/ASME B16.47
- Butt welding ends ASME B16.25
- Inspection and test API 598

Pressure Range

- ASME CL, 150, 300, 600, 900, 1500, 2500

Temperature Range:

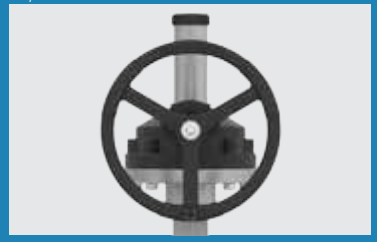
- -50°C~650°C

Size Range:

- 2"~24"

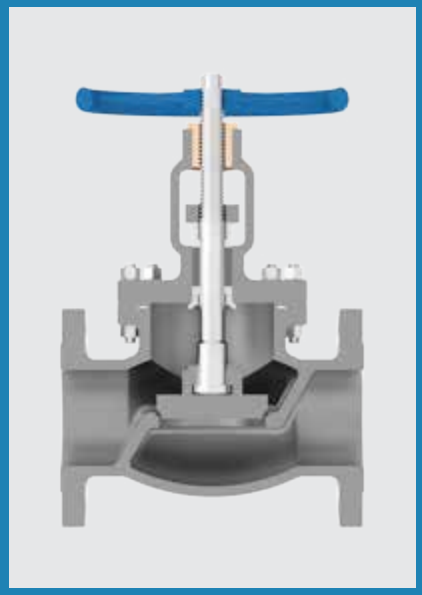
▪ Engineered for optimum control of fugitive emissions leakage to atmosphere.
▪ Polished valve stem and reduces diametrical tolerences ensure low fugitive emissions.
▪ Backseat relieves back pressure on the stem packing when fully seated.

Contoured "Conical" disc design for excellent throttling control.
The Conical disc integrally guided for accurate sealing on the seat.



Gear Operator Available for any size

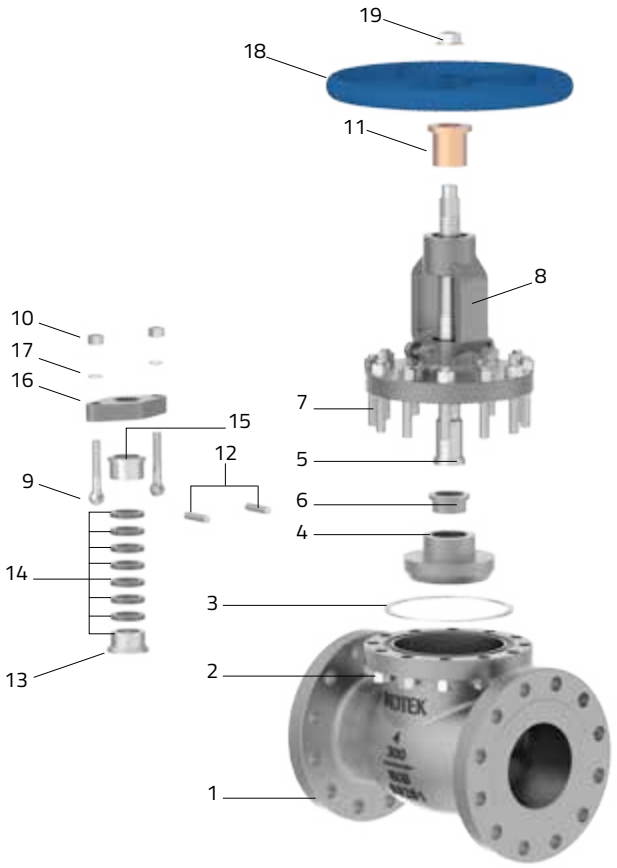
ISO 5211 Mounting Pad for Actuator



Design Description:

- Outside Screw and York
- Bolted Bonnet and Pressure Seal
- Flexible wedge, fully guided
- Rising stem and non-rising stem
- Available with gear operator
- Flange Ends
- Buttwelding Ends
- Seat welded stellite or 13% Cr

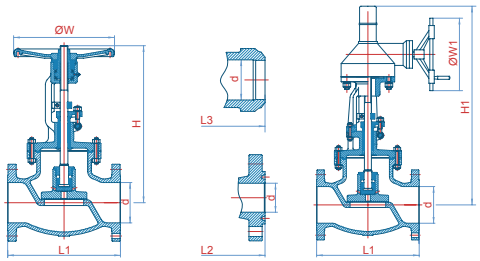
Category Globe Valve - BS1873 - 3D Draw And Materials



Parts name	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM				Stainless Steel to ASTM				Parts name
1	Body	A216 WCB+13Cr	A352 LCB+304	A217 WC1+STL	A217 WC6+STL	A217 WC9+STL	A217 C5+STL	A351 CF8	A351 CF8M	A351CF3	A351CF3M	1
2	Nuts	A194 2H	A194 4	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	2
3	Gasket	SS Spiral Wound W/graphite,or SS Spiral Wound W/PTFE,or Reinforced PTFE										3
4	Disc	A216 WCB+13Cr	A352 LCB+304	A217 WC1+STL	A217 WC6+STL	A217 WC9+STL	A217 C5+STL	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	4
5	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	5
6	Disc Nut	ASTM A105	ASTM A105	ASTM A105	ASTM A105	ASTM A105	ASTM A105	A182 F304	A182 F304	A182 F304	A182 F304	6
7	Bolts	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	7
8	Bonnet	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	8
9	Eyebolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	9
10	Nuts	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	10
11	Stem Nut	Copper alloy or A439 D2										11
12	Gland Eyebolt Pin	A29 1035						A276 304				12
13	Backseat Bushing	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	13
14	Packing	Braided graphite,or Die-formed graphite ring or PTFE										14
15	Gland	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	15
16	Gland Flange	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	16
17	Gasket	AISI 1025						SS304				17
18	Hand wheel	Ductile iron /Malleable Iron										18
19	Lock Nut	Carbon Steel						Stainless Steel				19

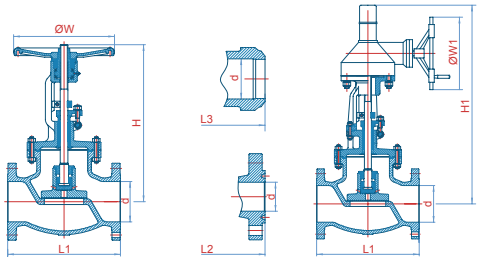
Category Globe Valve - BS1873- Globe Valve Picture

Category Globe Valve - BS1873 - Table Of Available Dimensions



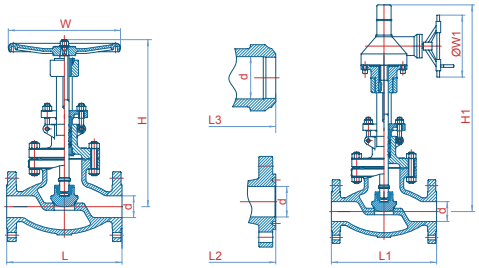
150LB

Valve Size		2"	2-1/2	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Face to Face	L1:RF	203	216	241	292	406	495	622	698	787	914	978	978	1295
	L2:RTJ	216	229	254	305	419	508	635	711	800	927	991	991	1308
	L3:BW	203	216	241	292	406	495	622	698	787	914	978	978	1295
Valve Bore（d）		51	64	76	102	152	203	254	305	337	387	438	489	590
Valve Height(H)		328	360	373	400	528	680	775	880	-	-	-	-	-
Valve Height(H1)		-	-	-	-	556	658	805	955	1100	1175	1345	1450	1690
Handwheel Diameter(W)		200	250	280	300	350	400	450	500	-	-	-	-	-
Handwheel Diameter(W1)		-	-	-	-	310	310	460	460	460	460	460	600	600
Weight(Kg)	Handwheel	18	26	43	54	95	160	299	373	-	-	-	-	-
	Gear					114	158	259	378	640	920	1450	1650	2200



300LB

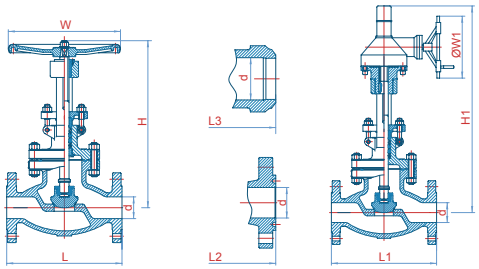
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm
Face to Face	L1:RF	267	292	318	356	444	559	622	711	838	864	977	1016
	L2:RTJ	283	308	333	371	460	575	638	727	-	-	-	-
	L3:BW	267	292	318	356	444	559	622	711	-	-	-	-
Valve Bore（d）		51	64	76	102	152	203	254	305	336	387	431	482
Valve Height(H)		346	390	403	474	635	870	950	1030	-	-	-	-
Valve Height(H1)		-	-	-	-	690	950	990	1155	1155	1325	1473	1574
Handwheel Diameter(W)		200	250	280	350	450	550	600	600	-	-	-	-
Handwheel Diameter(W1)		-	-	-	-	310	460	460	460	600	600	720	720
Weight(Kg)	Handwheel	29	44	59	87	162	281	355	575	-	-	-	-
	Gear	-	-	-	-	177	389	409	635	880	1300	1600	2100



600LB

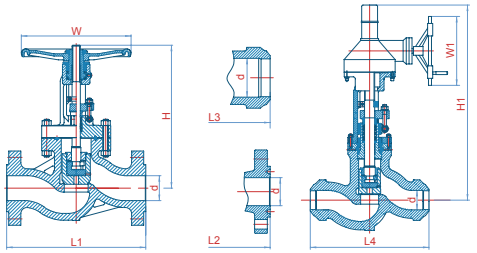
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm
Face to Face	L1:RF	292	330	356	432	559	660	787	838	889	991	1092
	L2:RTJ	295	333	359	435	562	664	791	841	892	994	1095
	L3:BW	292	330	356	432	559	660	787	838	889	991	1092
Valve Bore（d）		51	64	76	102	152	200	248	298	323	375	419
Valve Height(H)		360	410	465	545	785	930	-	-	-	-	-
Valve Height(H1)		-	-	-	575	975	1120	1219	1570	1730	1960	1990
Handwheel Diameter(W)		250	280	280	400	550	650	-	-	-	-	-
Handwheel Diameter(W1)		-	-	-	310	460	460	600	600	600	600	600
Weight(Kg)	Handwheel	35	42	66	117	263	469	-	-	-	-	-
	Gear	-	-	-	148	334	544	875	1280	1700	1944	2500

Category Globe Valve - BS1873 - Table Of Available Dimensions



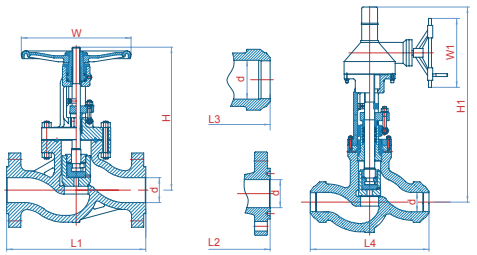
900LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm
Face to Face	L1:RF	368	419	381	457	610	737	838	965
	L2:RTJ	371	422	384	460	613	740	841	968
	L3:BW	368	419	381	457	610	737	838	965
Valve Bore（d）		48	57	73	98	146	190	238	282
Valve Height(H)		480	520	564	685	950	1050	-	-
Valve Height(H1)		-	-	630	720	1015	1140	1510	1740
Handwheel Diameter(W)		350	350	400	450	650	700	-	-
Handwheel Diameter(W1)		-	-	310	310	460	460	530	600
Weight(Kg)	Handwheel	55	68	113	179	429	680	-	-
	Gear	-	-	128	210	480	750	820	1262



1500LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm
Face to Face	L1:RF	368	419	470	546	705	832	991	1130
	L2:RTJ	371	422	473	549	711	841	1001	1146
	L3:BW(BB)	368	419	470	546	705	832	991	1130
	L4:BW(PSB)	216	254	305	406	559	711	864	991
Valve Bore（d）		48	57	70	92	137	178	222	263
Valve Height(H)		505	550	630	808	930	1140	-	-
Valve Height(H1)		-	-	765	890	1020	1230	1625	1840
Handwheel Diameter(W)		350	400	450	460	610	610	-	-
Handwheel Diameter(W1)		-	-	310	310	530	530	600	600
Weight(Kg)	Handwheel	137	141	261	336	966	1210	-	-
	Gear	-	-	320	397	1035	1280	1718	2408



2500LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm
Face to Face	L1:RF	451	508	578	673	914	1022	1270
	L2:RTJ	454	514	584	683	927	1035	1292
	L3:BW(BB)	451	508	578	673	914	1022	1270
	L4:BW(PSB)	279	330	368	457	610	762	914
Valve Bore（d）		38	47	57	73	92	146	184
Valve Height(H)		500	580	680	755	-	-	-
Valve Height(H1)		-	-	785	865	1040	1240	1520
Handwheel Diameter(W)		400	450	500	600	-	-	-
Handwheel Diameter(W1)		-	-	460	530	600	600	600
Weight(Kg)	Handwheel	158	-	275	-	-	-	-
	Gear	-	-	335	409	966	1210	1450

Category Swing Check Valve - BS1868-Specification

Cast Steel Swing Check Valve

Figure: DITEKCSSCV

Didtek Cast steel Check Valves are manufactured to the latest editionof BS1868 and tested to API Standard 598.

Application & Function:

Didtek Cast steel swing check valve is used to prevent back flow in the line. Flow is in a straight line through the valve resulting in minimal pressure drop. The disc swings into the open position as the media flows through the line. Back pressure in the line holds the disc in the closed position.

Didtek Cast steel Swing check valves may be installed in horizontal or vertical lines, but must be installed in proper relation to the media flow as indicated by the flow direction arrow marked on the body.

Accessories:

Accessories such as bypasses, locking devices, counter weight and many others are available to meet the customers' requirements.

Applicable Standards:

- Check valve, BS1868
- Steel Valves, ASME B16.34
- Face to face ASME B16.10
- End Flanges ASME B16.5/ASME16.47
- Buttwelding ends ASME B16.25
- Inspection and test API 598

Pressure Range

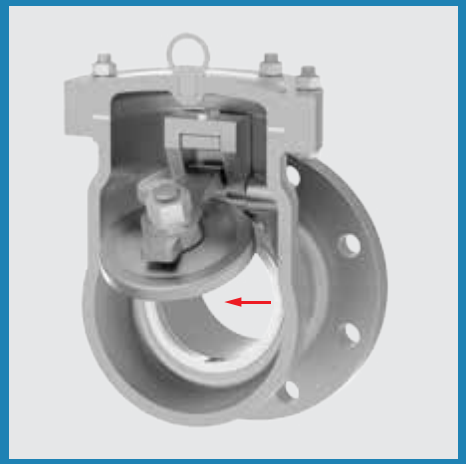
- ASME CL, 150, 300, 600, 900, 1500, 2500

Temperature Range:

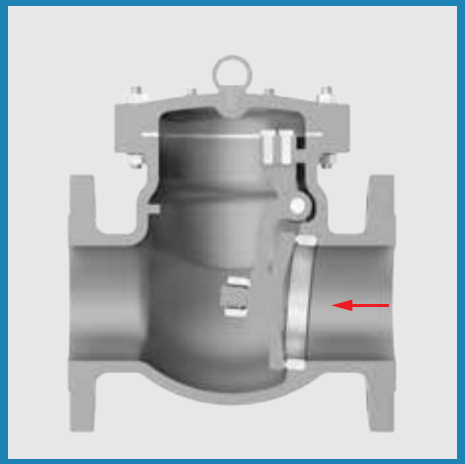
- -50°C~650°C

Size Range:

- 2"~36"



A105 seat ring is seal welded to provide tightly close off.
Seat rings have 13%Cr or stellite overlay to provide increased resistance to wear, abrasion, erosion.

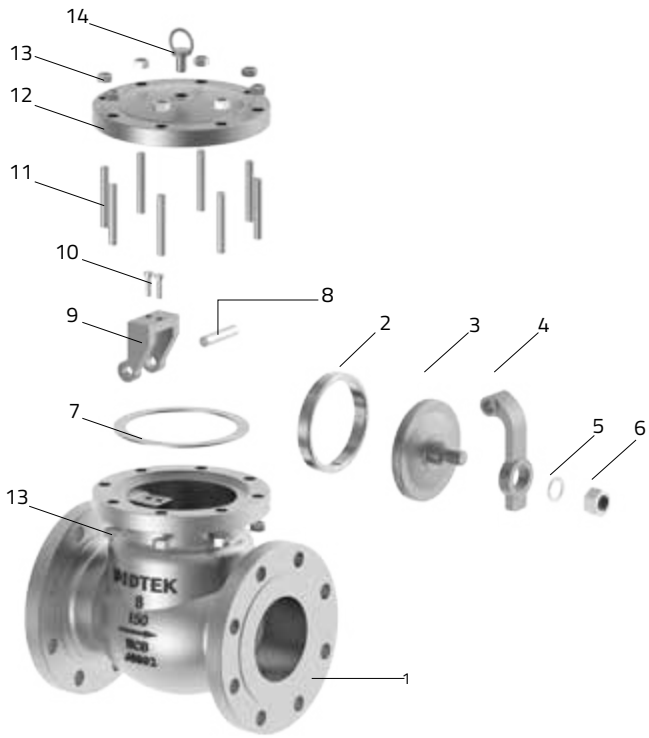


Disc is secured by welded disc nut to prevent disassembly due to vibration and closure impact.
Disc to hanger connection allows for free disc movement to avoid localized wear.

Design Description:

- Outside Screw and York
- Bolted Bonnet and Pressure Seal
- Welding seat rings or Renewable seat rings
- Flange Ends
- Buttwelding Ends

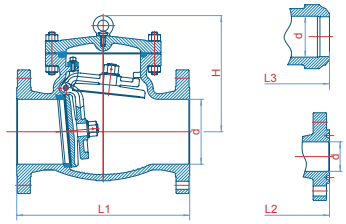
Category Swing Check Valve - BS1868 - 3D Draw And Materials



No.	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM				Stainless Steel to ASTM				No.
1	Body	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	1
2	Seat	A105+13Cr		F11/F22+STL				304	316	304L	316L	2
3	Disc	A216 WCB+13Cr	A352 LCB+304	A217 WC1+STL	A217 WC6+STL	A217 WC9+STL	A217 C5+STL	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	3
4	Hinge	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	4
5	Disc Washer	AISI 1035						Stainless Steel				5
6	Disc Nut	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	6
7	Gasket	SS Spiral Wound W/graphite,or SS Spiral Wound W/PTFE,or Reinforced PTFE										7
8	Hinge pin	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	8
9	Yoke	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	9
10	Yoke Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	10
11	Stud	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	11
12	Bonnet	A216 WCB	A352 LCB	A217 WC1	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351CF3	A351CF3M	12
13	Nuts	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	13
14	Eye bolt	AISI 1035										14

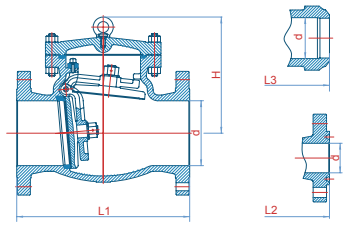
Category Swing Check Valve - BS1868- Swing Check Valve Picture

Category Swing Check Valve - BS1868 - Table Of Available Dimensions



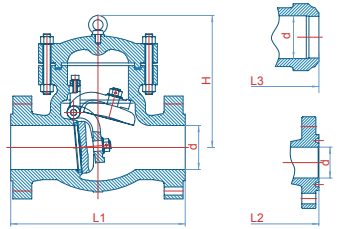
150LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	650mm	700mm	750mm	800mm	900mm
Face to Face	L1:RF	203	216	241	292	356	495	622	698	787	864	978	978	1295	1295	1448	1524	1727	1956
	L2:RTJ	216	229	254	305	368	508	635	711	800	876	991	991	1308	-	-	-	-	-
	L3:BW	203	216	241	292	356	495	622	698	787	864	978	978	1295	1295	1448	1524	1727	1956
Valve Bore (d)		51	64	76	102	152	203	254	303	337	387	438	489	591	633	684	735	779	874
Valve Height(H)		138	160	172	245	280	347	390	435	465	525	580	615	710	840	920	980	1016	1092
Weight(Kg)		14	19	24	43	72	124	196	330	417	503	630	791	960	1250	1580	1950	2800	3200



300LB

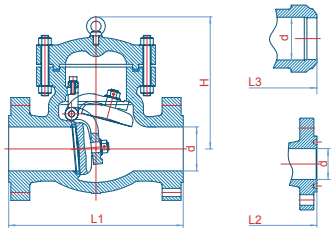
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	650mm	700mm	750mm	800mm	900mm
Face to Face	L1:RF	267	292	318	356	444	533	622	711	838	864	978	1016	1346	1346	1499	1594	1727	2083
	L2:RTJ	283	308	333	371	460	549	638	727	854	879	994	1035	1368	1372	1524	1619	-	-
	L3:BW	267	292	318	356	444	533	622	711	838	864	978	1016	1346	1346	1499	1594	1727	2083
Valve Bore（d）		51	64	76	102	152	203	254	303	337	387	432	483	584	633	684	735	779	874
Valve Height(H)		150	178	223	255	310	355	445	485	515	560	620	685	760	850	920	1150	1260	1390
Weight(Kg)		22	35	44	57	120	194	290	450	587	761	1030	1191	1892	2300	2600	3200	3700	4300



600LB

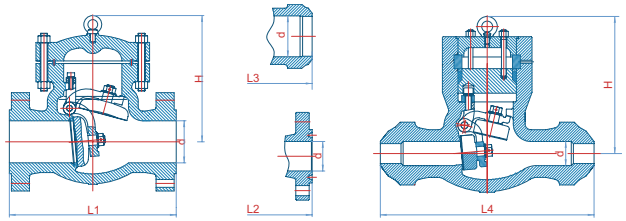
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Face to Face	L1:RF	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
	L2:RTJ	295	333	359	435	562	663	790	841	892	994	1095	1200	1407
	L3:BW	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
Valve Bore（d）		51	64	76	102	152	200	248	298	327	375	419	464	559
Valve Height(H)		170	178	225	275	385	445	500	570	590	650	778	970	1100
Weight(Kg)		26	35	59	99	208	357	561	752	889	1285	1800	2150	3200

Category Swing Check Valve - BS1868 - Table Of Available Dimensions



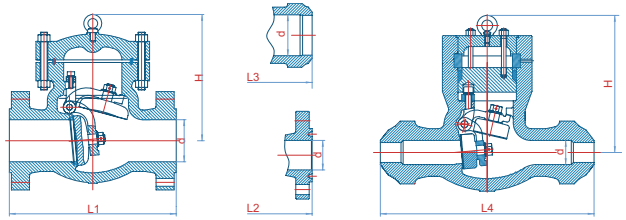
900LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Face to Face	L1:RF	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
	L2:RTJ	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568
	L3:BW	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
Valve Bore（d）		51	64	73	98	146	190	238	283	311	356	400	444	533
Valve Height(H)		170	178	225	275	385	445	500	570	590	650	778	970	1100
Weight(Kg)		67	75	102	134	354	514	754	818	1180	1909	2500	2960	4600



1500LB

Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm
Face to Face	L1:RF	368	419	470	546	705	832	991	1130	1257	1384	1537	1664
	L2:RTJ	371	422	473	549	711	841	1000	1146	1276	1407	1559	1686
	L3:BW(BB)	368	419	470	546	705	832	991	1130	1257	1384	1537	1664
	L4:BW(PSB)	216	254	305	406	559	711	864	991	1067	1194	-	-
Valve Bore（d）		48	57	70	92	137	178	222	264	289	330	371	416
Valve Height(H)		265	240	303	340	430	500	605	785	830	950	1080	1145
Weight(Kg)		72	75	188	210	473	634	1140	1939	200	2700	3960	4400

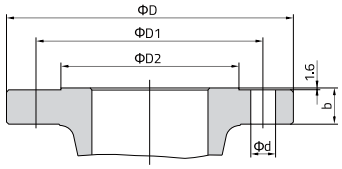


2500LB

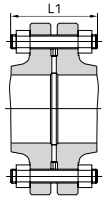
Valve Size		2"	2-1/2"	3"	4"	6"	8"	10"	12"
		50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm
Face to Face	L1:RF	451	508	578	673	914	1022	1270	1422
	L2:RTJ	454	514	584	683	927	1038	1292	1445
	L3:BW(BB)	451	508	578	673	914	1022	1270	1422
	L4:BW(PSB)	279	330	368	457	610	762	914	1041
Valve Bore（d）		38	48	57	73	111	146	184	219
Valve Height(H)		285	305	350	410	540	620	705	855
Weight(Kg)		93	100	196	`	868	970	1700	2080

Engineer Data

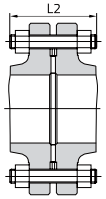
Flanges ASME B 16.5 RF



Class150 & Class300 RF Flanges



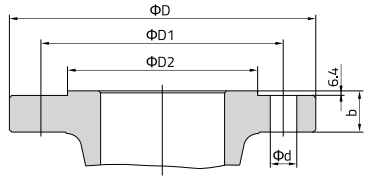
Length of Stud Bolt



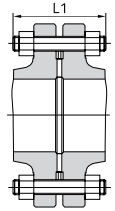
Length of Machine Bolt

Class	Size		Dimensions(mm)					Bolt		L1	L2
	DN	NPS	D	D1	D2	b	d	Number	Diam(in)		
Class150	15	1/2	90	60.3	35	10	16	4	1/2	55	50
	20	3/4	100	69.9	43	10.5	16	4	1/2	65	50
	25	1	110	79.4	51	11.5	16	4	1/2	65	55
	32	1 1/4	115	88.9	64	13	16	4	1/2	70	55
	40	1 1/2	125	98.4	73	14.5	16	4	1/2	70	65
	50	2	150	120.7	92	16	19	4	5/8	85	70
	65	2 1/2	180	139.7	105	18	19	4	5/8	90	75
	80	3	190	152.4	127	19.5	19	4	5/8	90	75
	100	4	230	190.5	157	24	19	8	5/8	90	75
	125	5	255	215.9	186	24	22	8	3/4	95	85
	150	6	280	241.3	216	25.5	22	8	3/4	100	85
	200	8	345	298.5	270	29	22	8	3/4	110	90
	250	10	405	362	324	30.5	25	12	7/8	115	100
	300	12	485	431.8	381	32	25	12	7/8	120	100
	350	14	535	476.3	413	35	29	12	1	135	115
	400	16	595	539.8	470	37	29	16	1	135	115
	450	18	635	577.9	533	40	32	16	1 1/8	145	125
	500	20	700	635	584	43	32	20	1 1/8	160	140
	600	24	815	749.3	692	48	35	20	1 1/4	170	150
Class300	15	1/2	95	66.7	35	15	16	4	1/2	65	55
	20	3/4	115	82.6	43	16	19	4	5/8	75	65
	25	1	125	88.9	51	18	19	4	5/8	75	65
	32	1 1/4	135	98.4	64	19.5	19	4	5/8	85	70
	40	1 1/2	155	114.3	73	21	22	4	3/4	90	75
	50	2	165	127	92	22.5	19	8	5/8	90	75
	65	2 1/2	190	149.2	105	25.5	22	8	3/4	100	85
	80	3	210	168.3	127	29	22	8	3/4	110	90
	100	4	255	200	157	32	22	8	3/4	115	95
	125	5	280	235	186	35	22	8	3/4	120	110
	150	6	320	269.9	216	37	22	12	3/4	120	110
	200	8	380	330.2	270	41.5	25	12	7/8	140	120
	250	10	445	387.4	324	48	29	16	1	160	140
	300	12	520	450.9	381	51	32	16	1 1/8	170	145
	350	14	585	514.4	413	54	32	20	1 1/8	180	160
	400	16	650	571.5	470	57.5	35	20	1 1/4	190	165
	450	18	710	628.6	533	60.5	35	24	1 1/4	195	170
	500	20	775	685.8	584	63.5	35	24	1 1/4	205	185
	600	24	915	812.8	692	70	41	24	1 1/2	230	205

Flanges ASME B 16.5 RF



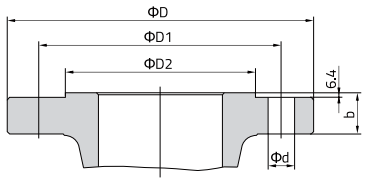
Class 600-Class 2500 RF Flanges



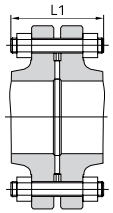
Length of Stud Bolt

Class	Size		Dimensions(mm)					Bolt		L1
	DN	NPS	D	D1	D2	b	d	Number	Diam(in)	
Class600	15	1/2	95	66.7	35	14.5	15	4	1/2	75
	20	3/4	115	82.6	43	16	19	4	5/8	90
	25	1	125	88.9	51	18	19	4	5/8	90
	32	1 1/4	135	98.4	64	21	19	4	5/8	95
	40	1 1/2	155	114.3	73	22.5	22	4	3/4	110
	50	2	165	127	92	22.5	19	8	5/8	110
	65	2 1/2	190	149.2	105	29	22	8	3/4	120
	80	3	210	168.3	127	32	22	8	3/4	125
	100	4	275	215.9	157	38.5	25	8	7/8	145
	125	5	330	266.7	186	44.5	29	8	1	165
	150	6	155	292.1	216	48	29	12	1	170
	200	8	420	349.2	270	56	32	12	1 1/8	190
	250	10	510	431.8	324	63.5	35	16	1 1/4	215
	300	12	560	489	381	67	35	20	1 1/4	220
	350	14	605	527	413	70	38	20	1 1/4	235
	400	16	685	603.2	470	76.5	41	20	1 1/2	255
	450	18	745	654	533	83	44	20	1 5/8	275
	500	20	815	723.9	584	89	44	24	1 5/8	285
	600	24	940	838.2	692	102	51	24	1 7/8	330
Class900	15	1/2	120	82.6	35	22.5	22	4	3/4	110
	20	3/4	130	88.9	43	26	22	4	3/4	115
	25	1	150	101.6	51	29	25	4	7/8	125
	32	1 1/4	160	111.1	64	29	25	4	7/8	125
	40	1 1/2	180	123.8	73	32	29	4	1	140
	50	2	215	165.1	92	39	25	8	7/8	145
	65	2 1/2	245	190.5	105	42	29	8	1	160
	80	3	240	190.5	127	39	25	8	7/8	145
	100	4	290	235	157	45	32	8	1 1/8	170
	125	5	350	279.4	186	51	35	8	1 1/4	190
	150	6	380	317.5	216	56	32	12	1 1/8	190
	200	8	470	393.7	270	64	38	12	1 3/8	220
	250	10	545	469.9	324	70	38	16	1 3/8	235
	300	12	610	533.4	381	80	38	20	1 3/8	255
	350	14	640	558.8	413	86	41	20	1 1/2	275
	400	16	705	616	470	89	44	20	1 5/8	285
	450	18	785	685.8	533	102	51	20	1 7/8	325
	500	20	855	749.3	584	108	54	20	2	350
	600	24	1040	901.7	692	140	67	20	2 1/2	440

Flanges ASME B 16.5 RF



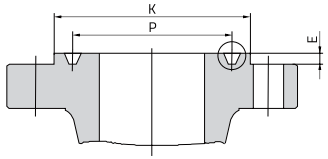
Class 600-Class 2500 RF Flanges

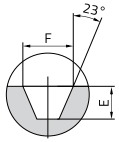


Length of Stud Bolt

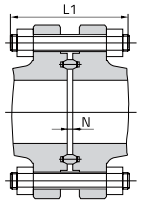
Class	Size		Dimensions(mm)					Bolt		L1
	DN	NPS	D	D1	D2	b	d	Number	Diam(in)	
Class1500	15	1/2	120	82.6	35	23	22	4	3/4	110
	20	3/4	130	88.9	43	26	22	4	3/4	115
	25	1	150	101.6	51	29	25	4	7/8	125
	32	1 1/4	160	111.1	64	29	25	4	7/8	125
	40	1 1/2	180	123.8	73	32	29	4	1	140
	50	2	215	165.1	92	39	25	8	7/8	145
	65	2 1/2	245	190.5	105	42	29	8	1	160
	80	3	265	203.2	127	48	32	8	1 1/8	180
	100	4	310	241.3	157	54	35	8	1 1/4	195
	125	5	375	292.1	186	74	41	8	1 1/2	250
	150	6	395	317.5	216	83	38	12	1 3/8	260
	200	8	485	393.7	270	92	44	12	1 5/8	290
	250	10	585	482.6	324	108	51	12	1 7/8	335
	300	12	675	571.5	381	124	54	16	2	375
	350	14	750	635	413	134	60	16	2 1/4	405
	400	16	825	704.8	470	147	67	16	2 1/2	445
	450	18	915	774.7	533	162	73	16	2 3/4	495
	500	20	985	831.8	584	178	79	16	3	540
	600	24	1170	990.6	692	204	92	16	3 1/2	615
Class2500	15	1/2	135	88.9	35	30.5	22	4	3/4	120
	20	3/4	140	95.2	43	32	22	4	3/4	125
	25	1	160	108	51	35	25	4	7/8	140
	32	1 1/4	185	130.2	64	38.5	29	4	1	150
	40	1 1/2	205	146	73	44.5	32	4	1 1/8	170
	50	2	235	171.4	92	51	29	8	1	180
	65	2 1/2	265	196.8	105	57.5	32	8	1 1/8	195
	80	3	305	228.6	127	67	35	8	1 1/4	220
	100	4	355	273	157	76.5	41	8	1 1/2	255
	125	5	420	323.8	186	92.5	48	8	1 3/4	300
	150	6	485	368.3	216	108	54	8	2	345
	200	8	550	438.2	270	127	54	12	2	380
	250	10	675	539.8	324	165.5	67	12	2 1/2	490
	300	12	760	619.1	381	184.5	74	12	2 3/4	540

Flanges ASME B 16.5 RTJ





Class 150-Class2500 RTJ Flanges



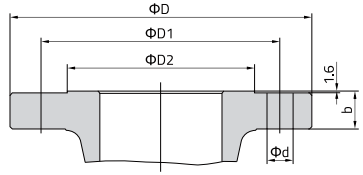
Length of Stud Bolt

Class	Size		Ring		Dimensions(mm)				L1
	DN	NPS	Number	P	E	F	K	N	
Class150	25	1	R15	47.63	6.35	8.74	63.5	4	75
	32	1 1/4	R17	57.15	6.35	8.74	73	4	85
	40	1 1/2	R19	65.07	6.35	8.74	82.5	4	85
	50	2	R22	82.55	6.35	8.74	102	4	95
	65	2 1/2	R25	101.6	6.35	8.74	121	4	100
	80	3	R29	114.3	6.35	8.74	133	4	100
	100	4	R36	149.23	6.35	8.74	171	4	100
	125	5	R40	171.45	6.35	8.74	194	4	110
	150	6	R43	193.68	6.35	8.74	219	4	115
	200	8	R48	247.65	6.35	8.74	273	4	120
	250	10	R52	304.8	6.35	8.74	330	4	125
	300	12	R56	381	6.35	8.74	406	4	135
	350	14	R59	396.88	6.35	8.74	425	3	145
	400	16	R64	454.03	6.35	8.74	483	3	145
	450	18	R68	517.53	6.35	8.74	546	3	160
	500	20	R72	558.8	6.35	8.74	597	3	170
	600	24	R76	673.1	6.35	8.74	711	3	185
Class300	15	1/2	R11	34.14	5.54	7.14	51	3	75
	20	3/4	R13	42.88	6.35	8.74	63.5	4	90
	25	1	R16	50.8	6.35	8.74	70	4	90
	32	1 1/4	R18	60.33	6.35	8.74	79.5	4	95
	40	1 1/2	R20	68.27	6.35	8.74	90.5	4	100
	50	2	R23	82.55	7.92	11.91	108	6	100
	65	2 1/2	R26	101.6	7.92	11.91	127	6	115
	80	3	R31	123.83	7.92	11.91	146	6	120
	100	4	R37	149.23	7.92	11.91	175	6	125
	125	5	R41	180.98	7.92	11.91	210	6	135
	150	6	R45	211.12	7.92	11.91	241	6	140
	200	8	R49	269.88	7.92	11.91	302	6	150
	250	10	R53	323.85	7.92	11.91	356	6	170
	300	12	R57	381	7.92	11.91	413	6	185
	350	14	R61	419.1	7.92	11.91	457	6	190
	400	16	R65	469.9	7.92	11.91	508	6	205
	450	18	R69	533.4	7.92	11.91	575	6	210
	500	20	R73	584.2	9.53	13.49	635	6	220
	600	24	R77	692.15	11.13	16.66	749	6	255

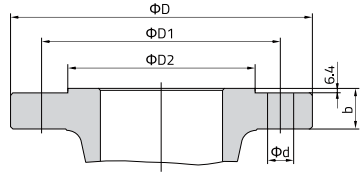
Flanges ASME B 16.5 RTJ

Class	Size		Ring	Dimensions(mm)					L1
	DN	NPS	Number	P	E	F	K	N	
Class600	15	1/2	R11	34.14	5.54	7.14	51	3	75
	20	3/4	R13	42.88	6.35	8.74	63.5	4	90
	25	1	R16	50.8	6.35	8.74	70	4	90
	32	1 1/4	R18	60.33	6.35	8.74	79.5	4	95
	40	1 1/2	R20	68.27	6.35	8.74	90.5	4	110
	50	2	R23	82.55	7.92	11.91	108	5	110
	65	2 1/2	R26	101.6	7.92	11.91	127	5	120
	80	3	R31	123.83	7.92	11.91	146	5	125
	100	4	R37	149.23	7.92	11.91	175	5	145
	125	5	R41	180.98	7.92	11.91	210	5	165
	150	6	R45	211.12	7.92	11.91	241	5	170
	200	8	R49	269.88	7.92	11.91	302	5	195
	250	10	R53	323.85	7.92	11.91	356	5	215
	300	12	R57	381	7.92	11.91	413	5	220
	350	14	R61	419.1	7.92	11.91	457	5	235
	400	16	R65	469.9	7.92	11.91	508	5	255
	450	18	R69	533.4	7.92	11.91	575	5	275
	500	20	R73	584.2	9.53	13.49	635	5	290
	600	24	R77	692.15	11.13	16.66	749	6	335
Class900 Class1500	15	1/2	R12	39.67	6.35	8.74	60.5	4	110
	20	3/4	R14	44.45	6.35	8.74	66.5	4	115
	25	1	R16	50.8	6.35	8.74	71.5	4	125
	32	1 1/4	R18	60.33	6.35	8.74	81	4	125
	40	1 1/2	R20	68.27	6.35	8.74	92	4	140
	50	2	R24	95.25	7.92	11.91	124	3	145
	65	2 1/2	R27	107.95	7.92	11.91	137	3	160
Class900	80	3	R31	123.83	7.92	11.91	156	4	145
	100	4	R37	149.23	7.92	11.91	181	4	170
	125	5	R41	180.98	7.92	11.91	216	4	190
	150	6	R45	211.12	7.92	11.91	241	4	195
	200	8	R49	269.88	7.92	11.91	308	4	220
	250	10	R53	323.85	7.92	11.91	362	4	235
	300	12	R57	381	7.92	11.91	419	4	255
	350	14	R62	419.1	11.13	16.66	467	4	280
	400	16	R66	469.9	11.13	16.66	524	4	290
	450	18	R70	533.4	12.7	19.84	594	5	335
	500	20	R74	584.2	12.7	19.84	648	5	360
	600	24	R78	692.15	15.88	26.97	772	6	455
Class1500	80	3	R35	136.53	7.92	11.91	168	3	180
	100	4	R39	161.93	7.92	11.91	194	3	195
	125	5	R44	193.68	7.92	11.91	229	3	250
	150	6	R46	211.14	9.53	13.94	248	3	265
	200	8	R50	269.88	11.13	16.66	318	4	300
	250	10	R54	323.85	11.13	16.66	371	4	345
	300	12	R58	381	14.27	23.01	438	5	385
	350	14	R63	419.1	15.88	26.97	489	6	425
	400	16	R67	469.9	17.48	30.18	546	8	470
	450	18	R71	533.4	17.48	30.18	613	8	525
	500	20	R75	584.2	17.48	33.32	673	10	565
	600	24	R79	692.15	20.62	36.53	794	11	650
Class2500	15	1/2	R13	42.88	6.35	8.74	65	4	120
	20	3/4	R16	50.8	6.35	8.74	73	4	125
	25	1	R18	60.33	6.35	8.74	82.5	4	140
	32	1 1/4	R21	72.23	7.92	11.94	102	3	150
	40	1 1/2	R23	82.55	7.92	11.94	114	3	170
	50	2	R26	101.6	7.92	11.94	133	3	180
	65	2 1/2	R28	111.13	9.53	13.49	149	3	205
	80	3	R32	127	9.53	13.49	168	3	230
	100	4	R38	157.18	11.13	16.66	203	4	260
	125	5	R42	190.5	12.7	19.84	241	4	310
	150	6	R47	228.6	12.7	19.84	279	4	355
	200	8	R51	279.4	14.27	23.01	340	5	395
	250	10	R55	342.9	17.48	30.18	425	6	510
	300	12	R60	406.4	17.48	33.32	495	8	560

Flanges ASME B 16.47 Series A & MSS SP 44 RF



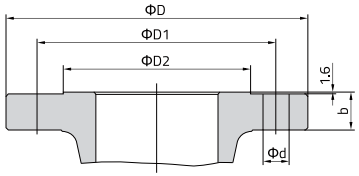
Class 150 & Class 300 RF Flanges



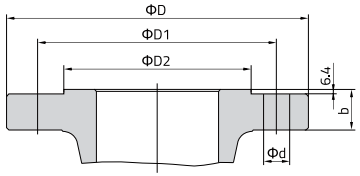
Class 600-Class 2500 RF Flanges

Class	Size		Dimensions(mm)					Bolt	
	DN	NPS	D	D1	D2	b	d	Number	Diam(in)
Class150	650	26	870	806.5	749	68.5	35	24	1 1/4
	700	28	927	863.6	800	71.5	35	28	1 1/4
	750	30	984	914.4	857	75	35	28	1 1/4
	800	32	1060	977.9	914	81	41	28	1 1/2
	850	34	1111	1028.7	965	82.5	41	32	1 1/2
	900	36	1168	1085.9	1022	90.5	41	32	1 1/2
	950	38	1238	1149.4	1073	87.5	41	32	1 1/2
	1000	40	1289	1200.2	1124	90.5	41	36	1 1/2
	1050	42	1346	1257.3	1194	96.8	41	36	1 1/2
	1200	48	1511	1422.4	1359	108	41	44	1 1/2
	1350	54	1683	1593.9	1511	120.5	48	44	1 3/4
	1400	56	1746	1651	1575	124	48	48	1 3/4
	1500	60	1854	1759	1676	132	48	52	1 3/4
Class300	650	26	972	876.3	749	79.2	44	28	1 5/8
	700	28	1035	939.8	800	86	44	28	1 5/8
	750	30	1092	997	857	92	48	28	1 3/4
	800	32	1149	1054.1	914	99	51	28	1 7/8
	850	34	1207	1104.9	965	101.6	51	28	1 7/8
	900	36	1270	1168.4	1022	104.6	54	32	2
	950	38	1168	1092.2	1029	108	41	32	1 1/2
	1000	40	1238	1155.7	1086	114.3	44	32	1 5/8
	1050	42	1289	1206.5	1137	119.1	44	32	1 5/8
	1200	48	1467	1371.6	1302	133.5	51	32	1 7/8
Class600	650	26	1016	914.4	749	108	51	28	1 7/8
	700	28	1073	965.2	800	111.5	54	28	2
	750	30	1130	1022.4	857	114.3	54	28	2
	800	32	1194	1079.5	914	117.3	60	28	2 1/4
	850	34	1245	1130.3	965	121	60	28	2 1/4
	900	36	1314	1193.8	1022	124	67	28	2 1/2
Class900	650	26	1086	952.5	749	140	73	20	2 3/4
	700	28	1168	1022.4	800	143	79	20	3

Flanges ASME B 16.47 Series B & API 605 RF



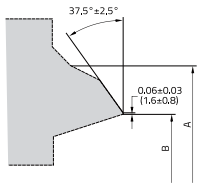
Class 150 & Class 300 RF Flanges



Class 600-Class 2500 RF Flanges

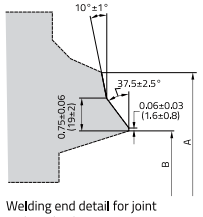
Class	Size		Dimensions(mm)					Bolt	
	DN	NPS	D	D1	D2	b	d	Number	Diam(in)
Class150	650	26	786	744.5	711	41	22	36	3/4
	700	28	837	795.3	762	44.5	22	40	3/4
	750	30	887	846.1	813	44.5	22	44	3/4
	800	32	941	900.2	864	46	22	48	3/4
	850	34	1005	957.3	921	49.5	25	40	7/8
	900	36	1057	1009.7	972	52.5	25	44	7/8
	950	38	1124	1069.8	1022	54	28	40	1
	1000	40	1175	1120.6	1080	55.6	28	44	1
	1050	42	1226	1171.4	1130	58.6	28	48	1
	1200	48	1392	1335	1289	65	32	44	1 1/8
	1350	54	1549	1492.3	1441	71.5	32	56	1 1/8
	1400	56	1600	1543.1	1492	73	32	60	1 1/8
	1500	60	1726	1662.2	1600	76.2	35	52	1 1/4
Class300	650	26	867	803.1	737	89	35	32	1 1/4
	700	28	921	857.3	787	89	35	36	1 1/4
	750	30	991	920.8	845	93.7	38	36	1 3/8
	800	32	1054	977.9	902	103	41	32	1 1/2
	850	34	1108	1031.7	953	103	41	36	1 1/2
	900	36	1171	1089.2	1010	103	44	32	1 5/8
	950	38	1222	1140	1060	111.2	44	36	1 5/8
	1000	40	1273	1190.8	1115	116	44	40	1 5/8
	1050	42	1334	1244.6	1168	119	48	36	1 3/4
	1200	48	1511	1416.1	1327	128.5	51	40	1 7/8
Class600	650	26	889	806.5	727	111.2	44	28	1 5/8
	700	28	953	863.6	784	116	48	28	1 3/4
	750	30	1022	927.1	841	125.5	51	28	1 5/8
	800	32	1086	984.3	895	130	54	28	2
	850	34	1162	1054.1	953	141.2	60	24	2 1/4
	900	36	1213	1104.9	1010	146	60	28	2 1/4
Class900	650	26	1022	901.7	762	135	67	20	2 1/2
	700	28	1105	971.6	819	147.5	73	20	2 3/4

Butt Weld ASME B 16.25



Welding end detail for joint without backing ring

Welding end detail intended for use on 0.88in(22mm) and thinner nominal wall thicknesses



Welding end detail for joint without backing ring

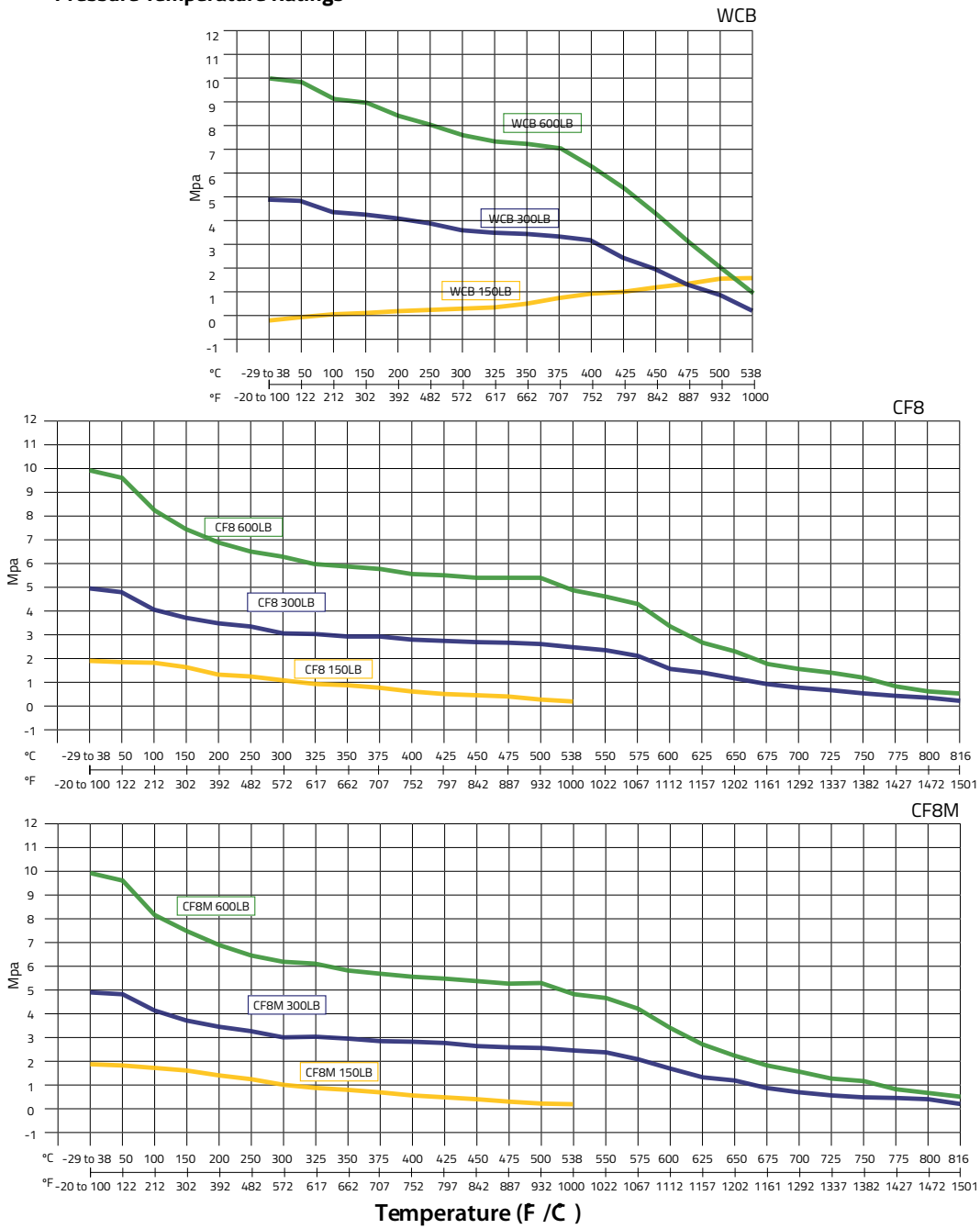
Note 1 Internal surface may be as formed or machined for dimension b at root face contour within the envelope shall be in accordance with section

Nominal Pipe Size		Schedule Number or Wall	Outside Diameter		Nominal Inside Diameter	Machined Inside Diameter	Nominal Wall Thickness
DN	NPS		Forging or Process module,A	Moulded Steel Valve,A	B	C	t
65	2 1/2	40	73	75	62.5	62.93	5.16
		80			59	59.69	7.01
		160			54	55.28	9.53
		XXS			45	47.43	14.02
80	3	40	88.9	91	78	78.25	5.49
		80			73.5	74.53	7.62
		160			66.5	68.38	11.13
		XXS			58.5	61.19	15.24
100	4	40	114.3	117	102	102.73	6.02
		80			97	98.28	8.56
		120			92	93.78	11.13
		160			87.5	89.65	13.49
		XXS			80	83.3	17.12
125	5	40	141.3	144	128	128.8	6.55
		80			122	123.58	9.53
		120			116	118.04	12.7
		160			109.5	112.47	15.88
		XXS			103	106.92	19.05
150	6	40	168.3	172	154	154.82	7.11
		80			146.5	148.06	10.97
		120			140	142.29	14.27
		160			132	135.31	18.26
		XXS			124.5	128.85	21.95
200	8	40	219.1	223	203	203.75	8.18
		60			198.5	200.02	10.31
		80			193.5	195.84	12.7
		100			189	191.65	15.09
		120			182.5	186.11	18.26
		140			178	181.98	20.62
		XXS			174.5	179.16	22.23
		160			173	177.79	23.01
250	10	40	273	278	254.5	255.74	9.27
		60			247.5	249.74	12.7
		80			243	245.55	15.09
		100			236.5	240.01	18.26
		120			230	234.44	21.44
		140			222	227.51	25.4
		160			216	221.95	28.58
		STD			305	306.08	9.53
300	12	40	323.8	329	303	304.72	10.31
		XS			298.5	300.54	12.7
		60			295	297.79	14.27
		80			289	292.17	17.48
		100			281	285.24	21.44
		120			273	278.31	25.4
		140			266.5	272.75	28.58
		160			257	264.45	33.32

Butt Weld ASME B 16.25

Nominal Pipe Size		Schedule Number or Wall	Outside Diameter		Nominal Inside Diameter	Machined Inside Diameter	Nominal Wall Thickness
DN	NPS		Forging or Process module,A	Moulded Steel Valve,A	B	C	t
350	14	STD	355.6	362	336.5	337.88	9.53
		40			333.5	335.08	11.13
		XS			330	332.34	12.7
		60			325.5	328.15	15.09
		80			317.5	321.22	19.05
		100			308	312.86	23.83
		120			300	305.93	27.79
		140			292	299	21.75
		160			284	292.07	35.71
400	16	STD	406.4	413	387.5	388.68	9.53
		40			381	383.14	12.7
		60			373	376.21	16.66
		80			363.5	367.84	21.44
		100			354	359.53	26.19
		120			344.5	351.18	30.69
		140			333.5	341.43	36.53
		160			325.5	334.5	40.49
450	18	STD	457.2	464	438	439.48	9.53
		XS			432	433.94	12.7
		40			428.5	431.19	14.27
		60			419	422.82	19.05
		80			409.5	414.46	23.83
		100			398.5	404.78	29.36
		120			387.5	395.03	34.93
		140			378	386.77	39.67
		160			366.5	376.99	45.24
500	20	STD	508	516	489	490.28	9.53
		XS			482.5	484.74	12.7
		40			478	480.55	15.09
		60			467	470.88	20.62
		80			455.5	461.13	26.19
		100			443	450.02	32.54
		120			432	440.29	38.1
		140			419	429.17	44.45
		160			408	419.44	50.01
550	22	STD	558.8	567	539	541.08	9.53
		XS			533	535.54	12.7
		60			514	518.86	22.23
		80			501	507.75	28.58
		100			488.5	496.63	34.93
		120			476	485.52	41.28
		140			463	474.41	47.63
		160			450.5	463.3	53.98
600	24	STD	609.6	619	590.5	591.88	9.53
		XS			584	586.34	12.7
		30			581	583.59	14.27
		40			574.5	577.97	17.48
		60			560.5	565.49	24.61
		80			547.5	554.38	30.96
		100			532	540.49	38.89
		120			517.5	528.03	46.02
		140			505	516.91	52.37
		160			490.5	504.37	59.54

Pressure Temperature Ratings



Class 150 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3) (4)	A217 WC6(4) (5)	A217 WC9(4) (5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	1.96	1.98	1.84	1.63	1.84	1.98	1.98	2	1.9	1.9	1.59	1.9	2	1.59
50	1.92	1.95	1.82	1.6	1.84	1.95	1.95	1.95	1.83	1.84	1.53	1.87	1.95	1.54
100	1.77	1.77	1.74	1.49	1.77	1.77	1.77	1.77	1.77	1.62	1.33	1.74	1.77	1.35
150	1.58	1.58	1.58	1.44	1.58	1.58	1.58	1.58	1.58	1.48	1.2	1.58	1.58	1.23
200	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.37	1.12	1.38	1.38	1.13
250	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.05	1.21	1.21	1.04
300	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1	1.02	1.02	0.97
325	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
350	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
375	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
400	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
425	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55		
450	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46		
475	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37		0.37		
500	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28		0.28		
538	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		0.14		

Shell Test		2.94	2.97	2.76	2.45	2.76	2.97	2.97	3	2.85	2.85	2.39	2.85	3	2.39
Closure Tightness Test	Liquid	2.16	2.18	2.02	1.79	2.02	2.18	2.18	2.2	2.09	2.09	1.75	2.09	2.2	1.75
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, allowed, but not recommended to be used for a long time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 465°C for a long time, allowed, but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not use it when over 315°C.
(10) Only use the annealed material.

Class 300 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3) (4)	A217 WC6(4) (5)	A217 WC9(4) (5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	5.11	5.17	4.8	4.26	4.8	5.17	5.17	5.17	4.96	4.96	4.14	4.96	5.17	4.14
50	5.01	5.17	4.75	4.18	4.8	5.17	5.17	5.17	4.78	4.81	4	4.88	5.17	4.01
100	4.66	5.15	4.53	3.88	4.79	5.15	5.15	5.15	4.09	4.22	3.48	4.53	5.07	3.53
150	4.51	5.02	4.39	3.76	4.73	4.97	5.03	5.03	3.7	3.85	3.14	4.25	4.59	3.2
200	4.38	4.86	4.25	3.64	4.58	4.8	4.86	4.86	3.45	3.57	2.92	3.99	4.27	2.94
250	4.19	4.63	4.08	3.49	4.45	4.63	4.63	4.63	3.25	3.34	2.75	3.78	4.05	2.72
300	3.98	4.29	3.87	3.32	4.29	4.29	4.29	4.29	3.09	3.16	2.61	3.61	3.89	2.54
325	3.87	4.14	3.76	3.22	4.14	4.14	4.14	4.14	3.02	3.09	2.55	3.54	3.82	2.44
350	3.76	4	3.64	3.12	4.03	4.03	4.03	4.03	2.96	3.03	2.51	3.48	3.76	
375	3.64	3.78	3.5	3.04	3.89	3.89	3.89	3.89	2.9	2.99	2.48	3.42	3.74	
400	3.47	3.47	3.26	2.93	3.65	3.65	3.65	3.65	2.84	2.94	2.43	3.39	3.65	
425	2.88	2.88	2.73	2.58	3.52	3.52	3.52	3.52	2.8	2.91	2.39	3.36		
450	2.3	2.3	2.16	2.14	3.37	3.37	3.37	3.37	2.74	2.88	2.34	3.35		
475	1.74	1.74	1.57	1.41	3.17	3.17	3.17	2.79	2.69	2.87		3.17		
500	1.18	1.18	1.11	1.03	2.41	2.57	2.82	2.14	2.65	2.82		2.82		
538	0.59	0.59	0.59	0.59	1.13	1.49	1.84	1.37	2.44	2.52		2.52		
550						1.27	1.56	1.2	2.36	2.5		2.5		
575						0.88	1.05	0.89	2.08	2.4		2.4		
600						0.61	0.69	0.62	1.69	1.99		2.16		
625						0.43	0.45	0.4	1.38	1.58		1.83		
650						0.28	0.28	0.24	1.13	1.27		1.41		
675									0.93	1.03		1.24		
700									0.8	0.84		1.01		
725									0.68	0.7		0.79		
750									0.58	0.59		0.59		
775									0.46	0.46		0.46		
800									0.35	0.35		0.35		
816									0.28	0.28		0.28		

Shell Test		7.67	7.76	7.2	6.39	7.2	7.76	7.76	7.76	7.44	7.44	6.21	7.44	7.76	6.21
Closure Tightness Test	Liquid	5.62	5.69	5.28	4.69	5.28	5.69	5.69	5.69	5.46	5.46	4.56	5.46	5.69	4.56
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, allowed, but not recommended to be used for a l ong time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 465°C for a long time, allowed, but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process.
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not use it when over 315°C.
(10) Only use the annealed material.

Class 600 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3)(4)	A217 WC6(4)(5)	A217 WC9(4)(5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	10.21	10.34	9.6	8.51	9.6	10.34	10.34	10.34	9.93	9.93	8.27	9.93	10.34	8.27
50	10.02	10.34	9.49	8.35	9.6	10.34	10.34	10.34	9.56	9.62	8	9.75	10.34	8.03
100	9.32	10.3	9.07	7.77	9.59	10.3	10.3	10.3	8.17	8.44	6.96	9.06	10.13	7.06
150	9.02	10.03	8.79	7.51	9.47	9.95	10.03	10.03	7.4	7.7	6.28	8.49	9.19	6.41
200	8.76	9.72	8.51	7.28	9.16	9.59	9.72	9.72	6.9	7.13	5.83	7.99	8.53	5.87
250	8.39	9.27	8.16	6.98	8.9	9.27	9.27	9.27	6.5	6.68	5.49	7.56	8.09	5.44
300	7.96	8.57	7.74	6.64	8.57	8.57	8.57	8.57	6.18	6.32	5.21	7.22	7.77	5.08
325	7.74	8.26	7.52	6.45	8.26	8.26	8.26	8.26	6.04	6.18	5.1	7.07	7.63	4.88
350	7.51	8	7.28	6.25	8.04	8.04	8.04	8.04	5.93	6.07	5.01	6.95	7.53	
375	7.27	7.57	6.99	6.07	7.76	7.76	7.76	7.76	5.81	5.98	4.95	6.84	7.47	
400	6.94	6.94	6.52	5.87	7.33	7.33	7.33	7.33	5.69	5.89	4.86	6.78	7.33	
425	5.75	5.75	5.46	5.15	7	7	7	7	5.6	5.83	4.77	6.72		
450	4.6	4.6	4.32	4.27	6.77	6.77	6.77	6.77	5.48	5.77	4.68	6.69		
475	3.42	3.42	3.13	2.82	6.34	6.34	6.34	5.57	5.39	5.73		6.34		
500	2.35	2.32	2.21	2.06	4.81	5.15	5.65	4.28	5.3	5.65		5.65		
538	1.18	1.18	1.18	1.18	2.27	2.98	3.69	2.74	4.89	5		5		
550						2.54	3.13	2.41	4.71	4.98		4.98		
575						1.76	2.11	1.78	4.17	4.79		4.79		
600						1.22	1.38	1.25	3.38	3.98		4.29		
625						0.85	0.89	0.8	2.76	3.16		3.66		
650						0.57	0.57	0.47	2.25	2.53		2.81		
675									1.87	2.06		2.52		
700									1.61	1.68		2		
725									1.35	1.4		1.54		
750									1.16	1.17		1.17		
775									0.9	0.9		0.9		
800									0.7	0.7		0.7		
816									0.59	0.59		0.59		

Shell Test		15.32	15.51	14.4	12.77	14.4	15.51	15.51	15.51	14.9	14.9	12.4	14.9	15.51	12.4
Closure Tightness Test	Liquid	11.23	11.37	10.56	9.36	10.56	11.37	11.37	11.37	10.92	10.92	9.1	10.92	11.37	9.1
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, allowed, but not recommended to be used for a long time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 465°C for a long time but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use it until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not use when over 315°C.
(10) Only use the annealed material.

Class 900 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3) (4)	A217 WC6(4) (5)	A217 WC9(4) (5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	15.32	15.51	14.41	12.77	14.41	15.51	15.51	15.51	14.89	14.89	12.41	14.89	15.51	12.41
50	15.04	15.51	14.24	12.53	14.41	15.51	15.51	15.51	14.35	14.43	12.01	14.63	15.51	12.04
100	13.98	15.46	13.6	11.65	14.38	15.44	15.46	15.46	12.26	12.66	10.44	13.59	15.2	10.59
150	13.52	15.05	13.18	11.27	14.2	14.92	15.06	15.06	11.1	11.55	9.42	12.74	13.78	9.61
200	13.14	14.58	12.76	10.92	13.74	14.39	14.58	14.58	10.34	10.7	8.75	11.98	12.8	8.81
250	12.58	13.9	12.23	10.47	13.35	13.9	13.9	13.9	9.75	10.01	8.24	11.34	12.14	8.17
300	11.95	12.86	11.61	9.95	12.86	12.86	12.86	12.86	9.27	9.49	7.82	10.83	11.66	7.61
325	11.61	12.4	11.27	9.67	12.4	12.4	12.4	12.4	9.07	9.27	7.64	10.61	11.45	7.33
350	11.27	12.01	10.92	9.37	12.07	12.07	12.07	12.07	8.89	9.1	7.52	10.43	11.29	
375	10.91	11.35	10.49	9.11	11.65	11.65	11.65	11.65	8.71	8.96	7.43	10.26	11.21	
400	10.42	10.42	9.79	8.8	10.98	10.98	10.98	10.98	8.53	8.83	7.29	10.17	10.98	
425	8.63	8.63	8.19	7.73	10.51	10.51	10.51	10.51	8.4	8.74	7.16	10.08		
450	6.9	6.9	6.48	6.41	10.14	10.14	10.14	10.14	8.22	8.65	7.02	10.04		
475	5.23	5.13	4.7	4.23	9.51	9.51	9.51	8.36	8.08	8.6		9.51		
500	3.53	3.47	3.32	3.09	7.22	7.72	8.47	6.41	7.95	8.47		8.47		
538	1.77	1.77	1.77	1.77	3.4	4.47	5.53	4.11	7.33	7.52		7.52		
550						3.81	4.69	3.61	7.07	7.48		7.48		
575						2.64	3.16	2.67	6.25	7.18		7.18		
600						1.83	2.07	1.87	5.06	5.97		6.42		
625						1.28	1.34	1.2	4.14	4.74		5.49		
650						0.85	0.85	0.71	3.38	3.8		4.25		
675									2.8	3.1		3.76		
700									2.41	2.51		2.98		
725									2.03	2.1		2.32		
750									1.73	1.76		1.76		
775									1.37	1.37		1.37		
800									1.05	1.05		1.05		
816									0.86	0.86		0.86		

Shell Test		22.98	23.27	21.62	19.16	21.62	23.27	23.27	23.27	22.34	22.34	18.62	22.34	23.27	18.62
Closure Tightness Test	Liquid	16.85	17.06	15.85	14.05	15.85	17.06	17.06	17.06	16.38	16.38	13.65	16.38	17.06	13.65
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, but not recommended to be used for a long time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 465°C for a long time ,but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use it until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not use it when over 315°C.
(10) Only use the annealed material.

Class 1500 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3) (4)	A217 WC6(4) (5)	A217 WC9(4) (5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	25.53	25.86	24.01	21.28	24.01	25.86	25.86	25.86	24.82	24.82	20.68	24.82	25.86	20.68
50	25.06	25.86	23.73	20.89	24.01	25.86	25.86	25.86	23.91	24.06	20.01	24.38	25.86	20.07
100	23.3	25.76	22.67	19.42	23.97	25.74	25.76	25.76	20.43	21.1	17.39	22.65	25.33	17.65
150	22.54	25.08	21.97	18.78	23.67	24.87	25.08	25.08	18.5	19.25	15.7	21.24	22.96	16.02
200	21.9	24.32	21.27	18.21	22.9	23.98	24.34	24.34	17.24	17.83	14.58	19.97	21.33	14.68
250	20.97	23.18	20.39	17.46	22.25	23.18	23.18	23.18	16.24	16.69	13.73	18.91	20.23	13.61
300	19.91	21.44	19.34	16.59	21.44	21.44	21.44	21.44	15.46	15.81	13.03	18.04	19.43	12.69
325	19.36	20.66	18.79	16.12	20.66	20.66	20.66	20.66	15.11	15.44	12.74	17.68	19.08	12.21
350	18.78	20.01	18.2	15.62	20.11	20.11	20.11	20.11	14.81	15.16	12.54	17.38	18.82	
375	18.18	18.92	17.49	15.18	19.41	19.41	19.41	19.41	14.52	14.94	12.38	17.1	18.68	
400	17.36	17.36	16.31	14.67	18.31	18.31	18.31	18.31	14.22	14.72	12.15	16.95	18.31	
425	14.38	14.38	13.65	12.88	17.51	17.51	17.51	17.51	14	14.57	11.93	16.81		
450	11.5	11.5	10.79	10.68	16.9	16.9	16.9	16.9	13.7	14.42	11.71	16.73		
475	8.72	8.54	7.83	7.05	15.82	15.82	15.82	13.93	13.47	14.34		15.82		
500	5.88	5.79	5.54	5.15	12.03	12.86	14.09	10.69	13.24	14.09		14.09		
538	2.95	2.95	2.95	2.95	5.67	7.45	9.22	6.86	12.21	12.55		12.55		
550						6.35	7.82	6.02	11.78	12.49		12.49		
575						4.4	5.26	4.44	10.42	11.97		11.97		
600						3.05	3.44	3.12	8.44	9.95		10.7		
625						2.13	2.23	2	6.89	7.91		9.12		
650						1.42	1.42	1.18	5.63	6.33		7.07		
675									4.67	5.16		6.27		
700									4.01	4.19		4.97		
725									3.38	3.49		3.86		
750									2.89	2.93		2.96		
775									2.28	2.28		2.28		
800									1.74	1.74		1.74		
816									1.41	1.41		1.41		

Shell Test		38.3	38.79	36.02	31.92	36.02	38.79	38.79	38.79	37.23	37.23	31.02	37.23	38.79	31.02
Closure Tightness Test	Liquid	28.08	28.45	26.41	23.41	26.41	28.45	28.45	28.45	27.3	27.3	22.75	27.3	28.45	22.75
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, but not recommended to be used for a long time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 465°C for a long time,but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use it until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not use it when over 315°C.
(10) Only use the annealed material

Class 2500 Pressure-Temperature Ratings ASME B16.5, ASME B16.34

ASTM Materials	Group 1.1	Group 1.2	Group 1.3	Group 1.4	Group 1.5	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 2.3	Group 2.5	Group 2.8	Group 3.17
	A216 WCB(1) A350 LF2(1)	A216 WCC(1) A350 LCC(2) A352 LC2 A352 LC3	A352 LCB(2)	A350 LF2(1)	A182 F1(3) A350 LC1(2) A217 WC1(3) (4)	A217 WC6(4) (5)	A217 WC9(4) (5)	A217 C5(4)	A182 F304(6) A351 CF3(7) A351 CF8(7)	A182 F316(6) A351 CF3M(8) A351 CF8M(6)	A182 F304L (7) A182 F316L (11)	A351 CF8C(6)	A182 F51(9)	A351 CN7M(10)
Temperature (°C)	Working Pressure,Mpa													
-29 to 38	42.55	43.09	40.01	35.46	40.01	43.09	43.09	43.09	41.37	41.37	34.47	41.37	43.09	34.49
50	41.77	43.09	39.56	34.81	40.01	43.09	43.09	43.09	39.85	40.09	33.35	40.64	43.09	33.44
100	38.83	42.94	37.78	32.36	19.95	42.9	42.94	42.94	34.04	35.16	28.99	37.74	42.22	29.42
150	37.56	41.81	36.61	31.3	39.45	41.45	41.82	41.82	30.84	32.08	26.16	35.39	38.27	26.7
200	36.5	40.54	35.44	30.34	38.17	39.96	40.54	40.54	28.73	29.72	24.3	33.28	35.54	24.47
250	34.95	38.62	33.98	29.1	37.09	38.62	38.62	38.62	27.07	27.81	22.89	31.51	33.72	22.69
300	33.18	35.71	32.24	27.65	35.71	35.71	35.71	35.71	25.76	26.35	21.72	30.07	32.38	21.15
325	32.26	34.43	31.31	26.86	34.43	34.43	34.43	34.43	25.19	25.74	21.23	29.46	31.8	20.35
350	31.3	33.35	30.33	26.04	33.53	33.53	33.53	33.53	24.69	25.27	20.89	28.96	31.37	
375	30.31	31.53	29.14	25.3	32.32	32.32	32.32	32.32	24.19	24.9	20.63	28.51	31.31	
400	28.93	28.93	27.19	24.45	30.49	30.49	30.49	30.49	23.7	24.53	20.25	28.26	30.49	
425	23.97	23.97	22.75	21.47	29.16	29.16	29.16	29.16	23.33	24.29	19.88	28.01		
450	19.17	19.17	17.99	17.8	28.18	28.18	28.18	28.18	22.84	24.04	19.51	27.88		
475	14.53	14.24	13.06	11.74	26.39	26.39	26.39	23.21	22.45	23.89		26.39		
500	9.79	9.65	9.23	8.59	20.05	21.44	23.5	17.82	22.07	23.5		23.5		
538	4.92	4.92	4.92	4.92	9.46	12.41	15.37	11.43	20.36	20.89		20.89		
550						10.59	13.03	10.04	19.63	20.8		20.8		
575						7.34	8.77	7.4	17.37	19.95		19.95		
600						5.09	5.74	5.19	14.07	16.59		17.85		
625						3.55	3.72	3.33	11.49	13.18		15.2		
650						2.36	2.36	1.97	9.35	10.55		11.77		
675									7.79	8.6		10.45		
700									6.69	6.98		8.3		
725									5.63	5.82		6.44		
750									4.81	4.89		4.91		
775									3.8	3.8		3.8		
800									2.92	2.92		2.92		
816									2.38	2.38		2.38		

Shell Test		63.83	64.64	60.02	53.19	60.02	64.64	64.64	64.64	62.06	62.06	51.71	62.06	64.64	51.71
Closure Tightness Test	Liquid	46.81	47.4	44.01	39.01	44.01	47.4	47.4	47.4	45.51	45.51	37.92	45.51	47.4	37.92
	Gas	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(1) The carburet of the carbon steel may be allowed to transform into graphite when placed in the working condition over 427°C for a long time, but not recommended to be used for a long time.
(2) Do not use when over 340°C.
(3) The carburet of the carbon steel be allowed to transform into graphite when placed in the working condition over 465°C for a long time, but not recommended to be used for a long time.
(4) Only use the material via normalizing plus tempering process
(5) Do not use when over 590°C.
(6) In the working condition with the temperature over 538°C , do not use it until the carbon content is equal and over 0.04%.
(7) Do not use when over 425°C.
(8) Do not use when over 455°C.
(9) This kind of steel may become fragile when used in a high temperature improperly. Do not it use when over 315°C.
(10) Only use the annealed material.

No.

Date

No.

Date

No.

Date

About us

Since year '1985' our founders started the workshop for valve production, we have always been adhering to the belief that we are going to be the leader in the Chinese market on resource and development, in order to build the top standard among our competitors.

The chosen location was OuBei town, a strategic position to reach a wide range of suppliers of semi-finished products, foundries and raw materials and to be very close to Shanghai port. Since the beginning, our company policy did reward our employees who are outstanding for precision and meticulousness. Those choices get paid back immediately: from a simple workshop of 800 m^2, we did expand our actual factory to over 25,000 m^2 size and more than 600 employees, among whom over 20% have a university degree.

In order to fulfill our customer needs, we established a partnership with 2 valves production sites in Tianjin, a forged flange and a fitting production sites in Shijiazhuang, 5 valves and a pipe production in OuBei town then we incorporated a foundry in Li Shui.

Low cost of labor is not anymore the only advantage to produce in China as it was before, thus our second generation managers did enhance our business attitude to compete in the world market by developing quality control on our suppliers and our service, which can now compete with any European company.

didtek®

UK OFFICE

DIDTEK INTERNATIONAL (UK) LTD

Add: Churchill House 142-146 Old Street, London, England, EC1V 9BW

Tel:+44-20-37690276

Email: uk@didtek.com

Web: www.didtek.com

USA OFFICE

DIDTEK VALVE INTERNATIONAL (USA) LTD

Add: 31 Christamon S, Irvine, California, USA, CA92620

Tel:+1-949-5563942

Email: usa@didtek.com

Web: www.didtek.com

CHINA HEADQUARTER

Gaoneng Group, Wenzhou Didtek Valve Co.,Ltd

Add: Lingyang Industrial Zone, Oubei, Yongjia, Zhejiang, P.R.CHINA, 325000

Tel: +86-577-67378255

Fax:+86-577-67338181

Email:sales@didtek.com

Web:www.didtek.com

© Didtek 2014, All Rights Reserved

No part of this catalog or any of its contents may be reproduced, copied, modified or adapted, without the prior written consent of the author, unless indicated for stand-alone materials.

Commercial use and distribution of the contents of the catalog is not allowed without express and prior written consent of the author.

Headoffice

The company is located in the town of Ou Bei where is famous for landscape of Nanxi river

Sales Network

Our customers are all over the world.

Agent:

We have been working to find reliable sales agents or distributors.

Didtek®

sales@didtek.com