

PRODUCT RANGE VALVES

G E K O
CONTROL-VALVES
OUR QUALITY IS YOUR SUCCESS



Gate Valve

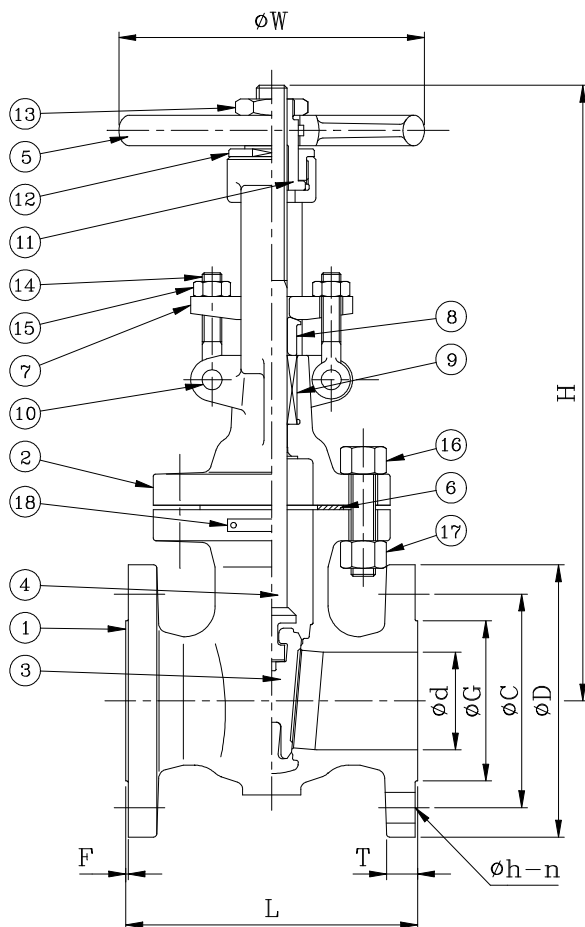


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CAST STAINLESS STEEL GATE VALVES-ANSI CLASS 150

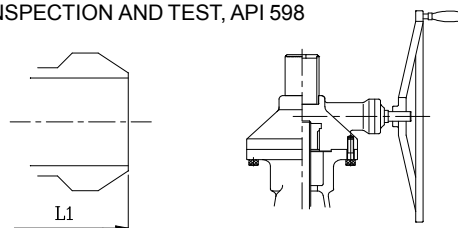
DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- INTEGRAL SEATS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS



APPLICABLE STANDARDS:

- GATE VALVES, API 603
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		CF8	CF8M	CF3M
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Hand Wheel	A47 / A536		
6	Gasket	PTFE / Grafoil+316 Sheet		
7	Gland flange	A351-CF8		
8	Gland	A351-CF8M		
9	Gland packing	PTFE / Graphite		
10	Eye Bolt Pin	A276-304		
11	Stem Nut	A439-D2 / Bronze		
12	Retainer Nut	A351-CF8		
13	Wheel Nut	B16		
14	Eye Bolt	A193-B8		
15	Eye Bolt Nut	A194-8		
16	Bonnet Bolt	A193-B8		
17	Bonnet Bolt Nut	A194-8		
18	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

			PSIG
SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)	
450 (32 kg/cm ²)	314 (22 kg/cm ²)	80 (6 kg/cm ²)	

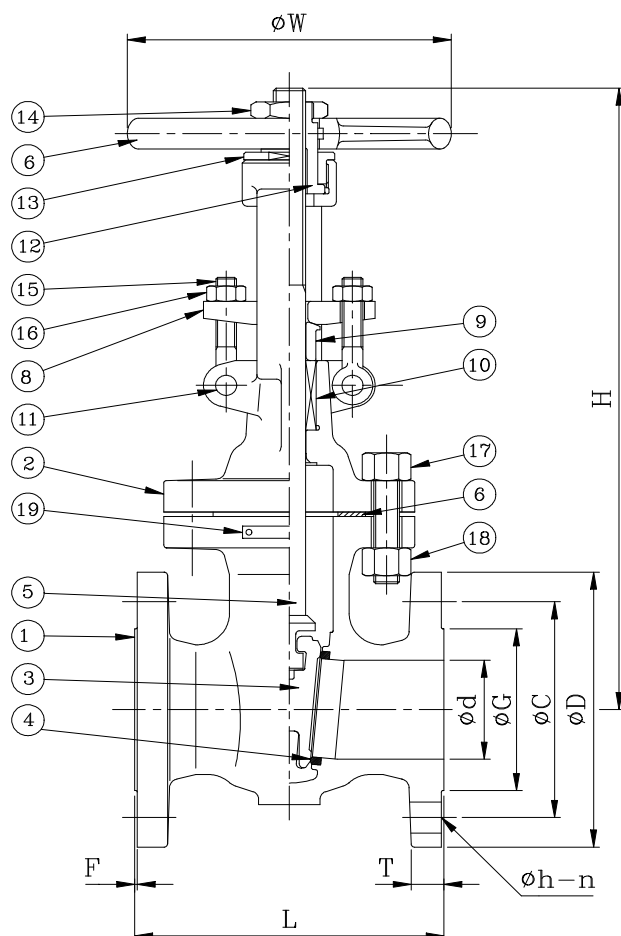
DIMENSION TABLE:

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15	1/2	12.7	108	108	184	202	100	10.0	1.6	88.9	60.5	35.1	16.0	4	4.5
20	3/4	19.0	117	117	195	220	100	10.5	1.6	98.6	69.9	43.0	16.0	4	6
25	1	25.4	127	127	208	238	100	11.2	1.6	108.0	79.2	50.8	16.0	4	7.5
40	1 1/2	38.1	165	165	236	286	150	14.3	1.6	127.0	98.6	73.2	16.0	4	11
50	2	50.8	178	216	278	338	150	15.8	1.6	152.4	120.7	92.0	19.0	4	13
65	2 1/2	63.5	191	241	322	398	150	17.5	1.6	177.8	139.7	104.7	19.0	4	19
80	3	76.2	203	282	366	455	200	19.1	1.6	190.5	152.4	127.0	19.0	4	25
100	4	101.6	229	305	430	545	250	23.9	1.6	228.6	190.5	157.2	19.0	8	38
150	6	152.4	267	403	572	740	300	25.4	1.6	279.4	241.3	215.9	22.3	8	63
200	8	203.2	292	419	727	943	300	28.5	1.6	342.9	298.5	269.8	22.3	8	112
250	10	254.0	330	457	873	1145	350	30.3	1.6	406.4	362.0	323.9	25.4	12	168
300	12	304.8	356	502	1025	1348	400	31.8	1.6	482.6	431.8	381.0	25.4	12	288
350	14	336.6	381	572	1138	1482	450	35.1	1.6	533.4	476.3	412.8	28.5	12	362
400	16	387.4	406	610	1279	1869	500	36.6	1.6	596.9	539.8	469.9	28.5	16	516
450	18	438.2	432	660	1492	1964	550	39.7	1.6	635.0	577.9	533.4	31.8	16	626
500	20	489.0	458	711	1612	2129	600	43.0	1.6	698.5	635.0	584.2	31.8	20	838
600	24	590.6	508	813	1936	2565	700	47.8	1.6	812.8	749.3	692.2	35.0	20	1120

CAST STAINLESS STEEL GATE VALVES-ANSI CLASS 150

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- INTEGRAL SEATS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

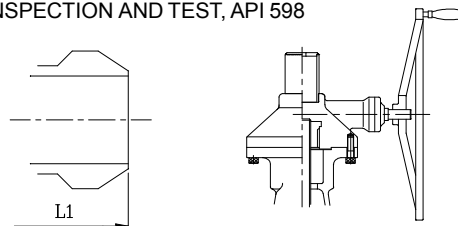


DIMENSION TABLE:

ITEM	DN	NPS	Ød	L	L1	H	H(OPEN)	ØW	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
	15	1/2	12.7	108	108	184	202	100	10.0	1.6	88.9	60.5	35.1	16.0	4	4.5
	20	3/4	19.0	117	117	195	220	100	10.5	1.6	98.6	69.9	43.0	16.0	4	6
	25	1	25.4	127	127	208	238	100	11.2	1.6	108.0	79.2	50.8	16.0	4	7.5
	40	1 1/2	38.1	165	165	236	286	150	14.3	1.6	127.0	98.6	73.2	16.0	4	11
	50	2	50.8	178	216	278	338	150	15.8	1.6	152.4	120.7	92.0	19.0	4	13
	65	2 1/2	63.5	191	241	322	398	150	17.5	1.6	177.8	139.7	104.7	19.0	4	19
	80	3	76.2	203	282	366	455	200	19.1	1.6	190.5	152.4	127.0	19.0	4	25
	100	4	101.6	229	305	430	545	250	23.9	1.6	228.6	190.5	157.2	19.0	8	38
	150	6	152.4	267	403	572	740	300	25.4	1.6	279.4	241.3	215.9	22.3	8	63
	200	8	203.2	292	419	727	943	300	28.5	1.6	342.9	298.5	269.8	22.3	8	112
	250	10	254.0	330	457	873	1145	350	30.3	1.6	406.4	362.0	323.9	25.4	12	168
	300	12	304.8	356	502	1025	1348	400	31.8	1.6	482.6	431.8	381.0	25.4	12	288
	350	14	336.6	381	572	1138	1482	450	35.1	1.6	533.4	476.3	412.8	28.5	12	362
	400	16	387.4	406	610	1279	1869	500	36.6	1.6	596.9	539.8	469.9	28.5	16	516
	450	18	438.2	432	660	1492	1964	550	39.7	1.6	635.0	577.9	533.4	31.8	16	626
	500	20	489.0	458	711	1612	2129	600	43.0	1.6	698.5	635.0	584.2	31.8	20	838
	600	24	590.6	508	813	1936	2565	700	47.8	1.6	812.8	749.3	692.2	35.0	20	1120

APPLICABLE STANDARDS:

- GATE VALVES, API 603
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		CF3
1	Body	A351-CF3
2	Bonnet	A351-CF3
3	Disc	A351-CF3
4	Seat	A351-CF8 +H/F STL#6
5	Stem	A182-F304
6	Hand Wheel	A47 / A536
7	Gasket	PTFE / Grafoil+316 Sheet
8	Gland flange	A351-CF8
9	Gland	A351-CF8M
10	Gland packing	PTFE / Graphite
11	Eye Bolt Pin	A276-304
12	Stem Nut	A439-D2 / Bronze
13	Retainer Nut	A351-CF8
14	Wheel Nut	B16
15	Eye Bolt	A193-B8
16	Eye Bolt Nut	A194-8
17	Bonnet Bolt	A193-B8
18	Bonnet Bolt Nut	A194-8
19	Name Plate	A666-304

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG		
SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
450 (32 kg/cm ²)	314 (22 kg/cm ²)	80 (6 kg/cm ²)

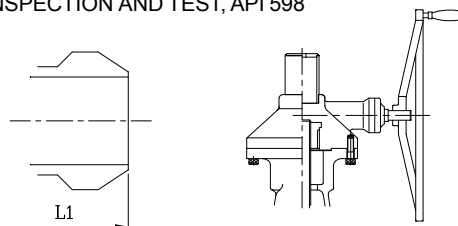
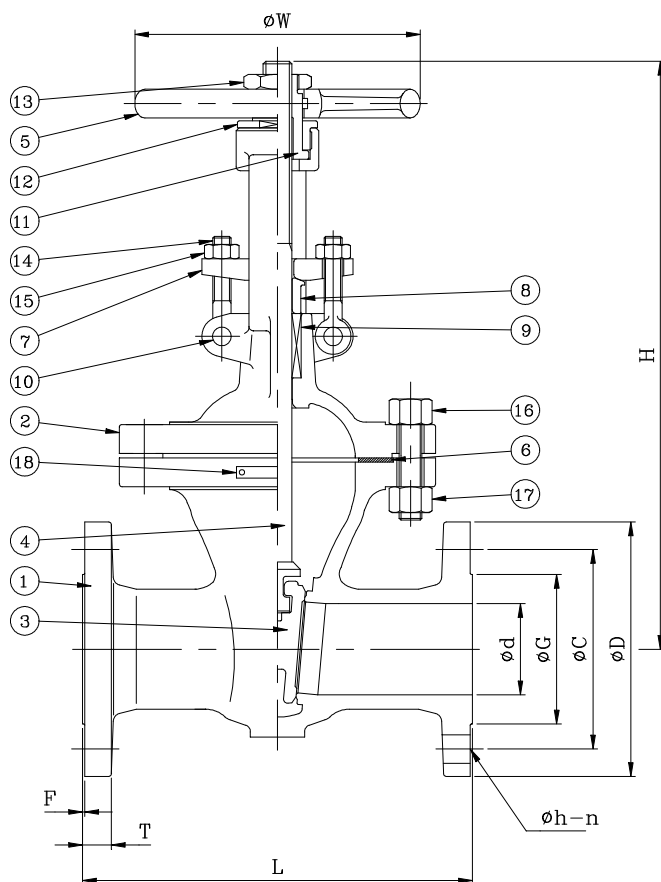
CAST STAINLESS STEEL GATE VALVES – ANSI CLASS 300

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- INTEGRAL SEATS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		CF8	CF8M	CF3M
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Hand Wheel	A47 / A536		
6	Gasket	304 Spiralwound	316 Spiralwound	316L Spiralwound
7	Gland flange	A351-CF8		
8	Gland	A351-CF8M		
9	Gland packing	PTFE / Graphite		
10	Eye Bolt Pin	A276-304		
11	Stem Nut	A439-D2 / Bronze		
12	Retainer Nut	A351-CF8		
13	Wheel Nut	B16		
14	Eye Bolt	A193-B8		
15	Eye Bolt Nut	A194-8		
16	Bonnet Bolt	A193-B8		
17	Bonnet Bolt Nut	A194-8		
18	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
1125 (79 kg/cm ²)	814 (57 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ø d	L & L1	H	H(OPEN)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
15	1/2	12.7	140	365	380	100	14.3	1.6	95.3	66.5	35.1	16.0	4	6
20	3/4	19.0	152	390	410	100	15.8	1.6	117.4	82.6	43.0	19.0	4	8
25	1	25.4	165	394	420	150	17.5	1.6	124.0	88.9	50.8	19.0	4	10
40	1 1/2	38.1	191	398	442	200	20.6	1.6	155.5	114.3	73.2	22.3	4	17
50	2	50.8	216	400	460	200	22.4	1.6	165.1	127.0	92.0	19.0	8	27
65	2 1/2	63.5	241	432	510	250	25.4	1.6	190.5	149.4	104.7	22.3	8	43
80	3	76.2	282	463	550	250	28.5	1.6	209.6	168.1	127.0	22.3	8	47
100	4	101.6	305	508	624	300	31.8	1.6	254.0	200.2	157.2	22.3	8	72
150	6	152.4	403	675	840	350	36.6	1.6	317.5	269.8	215.9	22.3	12	140
200	8	203.2	419	822	1043	400	41.2	1.6	381.0	330.2	269.8	25.4	12	223
250	10	254.0	457	1025	1290	450	47.8	1.6	444.5	387.4	323.9	28.5	16	348
300	12	304.8	502	1272	1588	500	50.8	1.6	520.7	450.9	381.0	31.8	16	577
350	14	336.6	762	1458	1820	600	53.9	1.6	584.2	514.4	412.8	31.8	20	710
400	16	387.4	838	1614	2032	700	57.2	1.6	647.7	571.5	469.9	35.0	20	1038
450	18	438.2	914	1738	2208	800	60.5	1.6	711.2	628.7	533.4	35.0	24	1227
500	20	489.0	991	1990	2512	900	63.5	1.6	774.7	685.8	584.2	35.0	24	1640
600	24	590.6	1143	2268	2896	1000	69.9	1.6	914.4	812.8	692.2	41.0	24	2302

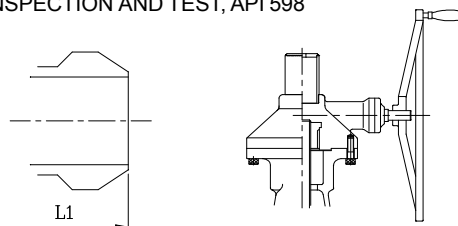
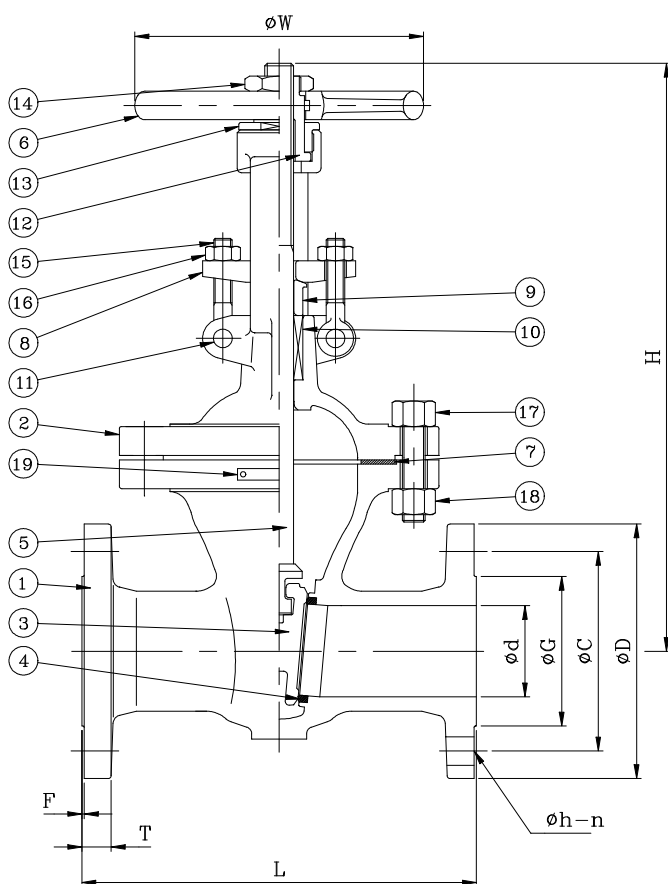
CAST STAINLESS STEEL GATE VALVES – ANSI CLASS 300

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- INTEGRAL SEATS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		CF3
1	Body	A351-CF3
2	Bonnet	A351-CF3
3	Disc	A351-CF3+STL#6
4	Seat	A351-CF3+STL#6
5	Stem	A182-F316
6	Hand Wheel	A47 / A536
7	Gasket	304 Spiralwound
8	Gland flange	A351-CF8
9	Gland	A351-CF8
10	Gland packing	PTFE / Graphite
11	Eye Bolt Pin	A276-304
12	Stem Nut	A439-D2 / Bronze
13	Retainer Nut	A351-CF8
14	Wheel Nut	B16
15	Eye Bolt	A193-B8
16	Eye Bolt Nut	A194-8
17	Bonnet Bolt	A193-B8
18	Bonnet Bolt Nut	A194-8
19	Name Plate	A666-304

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
1125 (79 kg/cm ²)	814 (57 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

ITEM	DN	NPS	Ød	L & L1	H	H(OPEN)	ØW	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
	15	1/2	12.7	140	365	380	100	14.3	1.6	95.3	66.5	35.1	16.0	4	6
	20	3/4	19.0	152	390	410	100	15.8	1.6	117.4	82.6	43.0	19.0	4	8
	25	1	25.4	165	394	420	150	17.5	1.6	124.0	88.9	50.8	19.0	4	10
	40	1 1/2	38.1	191	398	442	200	20.6	1.6	155.5	114.3	73.2	22.3	4	17
	50	2	50.8	216	400	460	200	22.4	1.6	165.1	127.0	92.0	19.0	8	27
	65	2 1/2	63.5	241	432	510	250	25.4	1.6	190.5	149.4	104.7	22.3	8	43
	80	3	76.2	282	463	550	250	28.5	1.6	209.6	168.1	127.0	22.3	8	47
	100	4	101.6	305	508	624	300	31.8	1.6	254.0	200.2	157.2	22.3	8	72
	150	6	152.4	403	675	840	350	36.6	1.6	317.5	269.8	215.9	22.3	12	140
	200	8	203.2	419	822	1043	400	41.2	1.6	381.0	330.2	269.8	25.4	12	223
	250	10	254.0	457	1025	1290	450	47.8	1.6	444.5	387.4	323.9	28.5	16	348
	300	12	304.8	502	1272	1588	500	50.8	1.6	520.7	450.9	381.0	31.8	16	577
	350	14	336.6	762	1458	1820	600	53.9	1.6	584.2	514.4	412.8	31.8	20	710
	400	16	387.4	838	1614	2032	700	57.2	1.6	647.7	571.5	469.9	35.0	20	1038
	450	18	438.2	914	1738	2208	800	60.5	1.6	711.2	628.7	533.4	35.0	24	1227
	500	20	489.0	991	1990	2512	900	63.5	1.6	774.7	685.8	584.2	35.0	24	1640
	600	24	590.6	1143	2268	2896	1000	69.9	1.6	914.4	812.8	692.2	41.0	24	2302

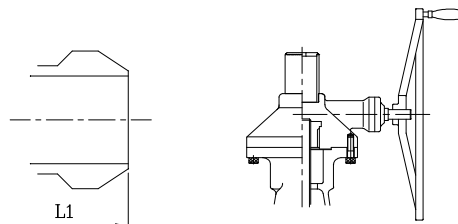
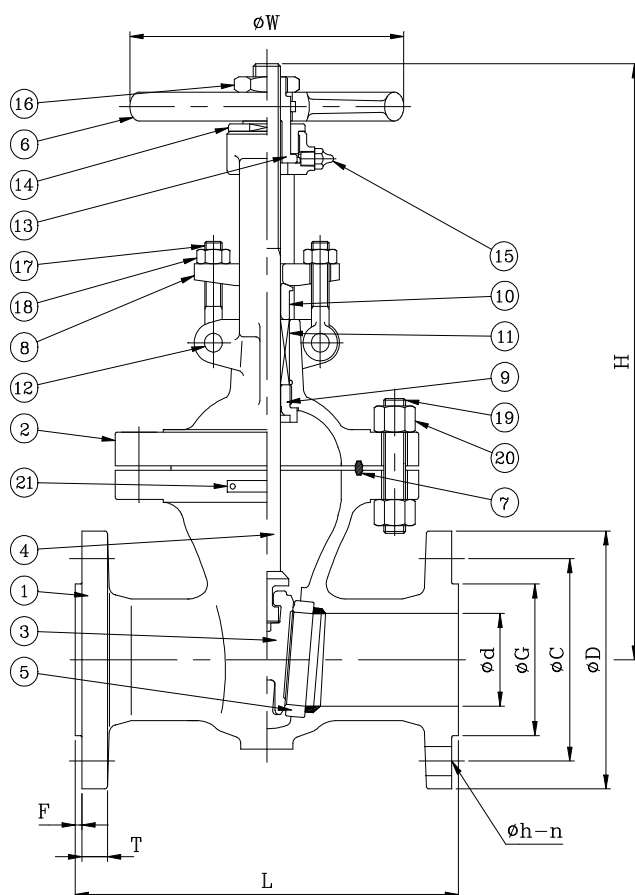
CAST STAINLESS STEEL GATE VALVES – ANSI CLASS 600

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND Yoke
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		A351-CF3M
1	Body	A351-CF3M
2	Bonnet	A351-CF3M
3	Disc	A351-CF3M
4	Stem	A182-F316L
5	Seat	A351-CF3M
6	Hand Wheel	A47 / A536
7	Gasket	316 Spiralwound / Grafoil filler
8	Gland Flange	A351-CF8
9	Bonnet Bush	A351-CF8M
10	Gland	A351-CF8M
11	Gland packing	PTFE / Graphite
12	Eye Bolt Pin	A276-304
13	Stem Nut	A439-D2 / Bronze
14	Retainer Nut	A351-CF8
15	Nipple	Brass
16	Wheel Nut	B16
17	Eye Bolt	A193-B8
18	Eye Bolt Nut	A194-8
19	Bonnet Bolt	A193-B8
20	Bonnet Bolt Nut	A194-8
21	Name Plate	A666-304

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
2225 (156 kg/cm ²)	1628 (114 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ød	L & L1	H	H(OPEN)	ØW	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
50	2	50.8	292	370	440	146	25.4	6.4	165.1	127.0	92.0	19.0	8	37
65	2 1/2	63.5	330	468	543	250	28.5	6.4	190.5	149.4	104.7	22.3	8	56
80	3	76.2	356	475	567	300	31.8	6.4	209.6	168.2	127.0	22.3	8	76
100	4	101.6	432	558	677	350	38.1	6.4	273.1	215.9	157.2	25.4	8	136
150	6	152.4	559	719	894	450	47.8	6.4	355.6	292.1	215.9	28.5	12	285
200	8	200.2	660	858	1085	500	55.6	6.4	419.1	349.3	269.8	31.8	12	460
250	10	247.7	787	999	1277	700	63.5	6.4	508.0	431.8	323.9	35.0	16	730
300	12	298.5	838	1173	1505	800	66.6	6.4	558.8	489.0	381.0	35.0	20	980
350	14	327.2	889	1298	1662	610	69.9	6.4	603.3	527.1	412.8	38.1	20	1380
400	16	374.7	991	1470	1884	610	76.2	6.4	685.8	603.3	469.9	41.0	20	1810
450	18	419.1	1092	1586	2044	610	82.6	6.4	743.0	654.1	533.4	44.5	20	2320
500	20	463.6	1200	1750	2248	610	95.3	6.4	812.8	723.9	635.0	44.5	24	2733

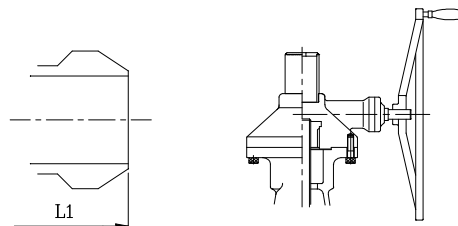
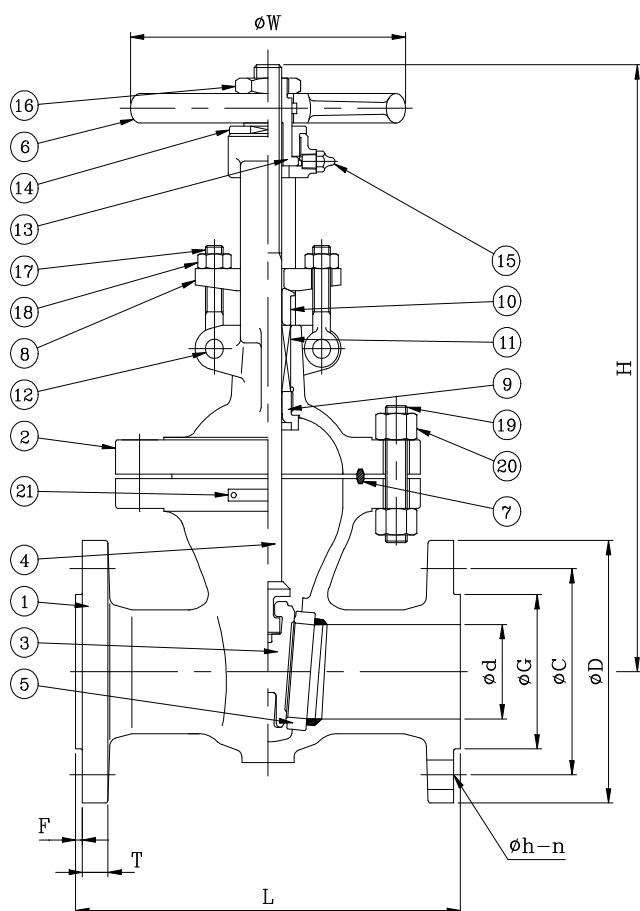
CAST STAINLESS STEEL GATE VALVES – ANSI CLASS 900

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		A351-CF3M
1	Body	A351-CF3M
2	Bonnet	A351-CF3M
3	Disc	A351-CF3M
4	Stem	A182-F316L
5	Seat	A351-CF3M
6	Hand Wheel	A47 / A536
7	Gasket	316 Spiralwound / Grafoil filler
8	Gland Flange	A351-CF8
9	Bonnet Bush	A351-CF8M
10	Gland	A351-CF8M
11	Gland packing	PTFE / Graphite
12	Eye Bolt Pin	A276-304
13	Stem Nut	A439-D2 / Bronze
14	Retainer Nut	A351-CF8
15	Nipple	Brass
16	Wheel Nut	B16
17	Eye Bolt	A193-B8
18	Eye Bolt Nut	A194-8
19	Bonnet Bolt	A193-B8
20	Bonnet Bolt Nut	A194-8
21	Name Plate	A666-304

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
3350 (235 kg/cm ²)	2442 (171 kg/cm ²)	80 (6 kg/cm ²)

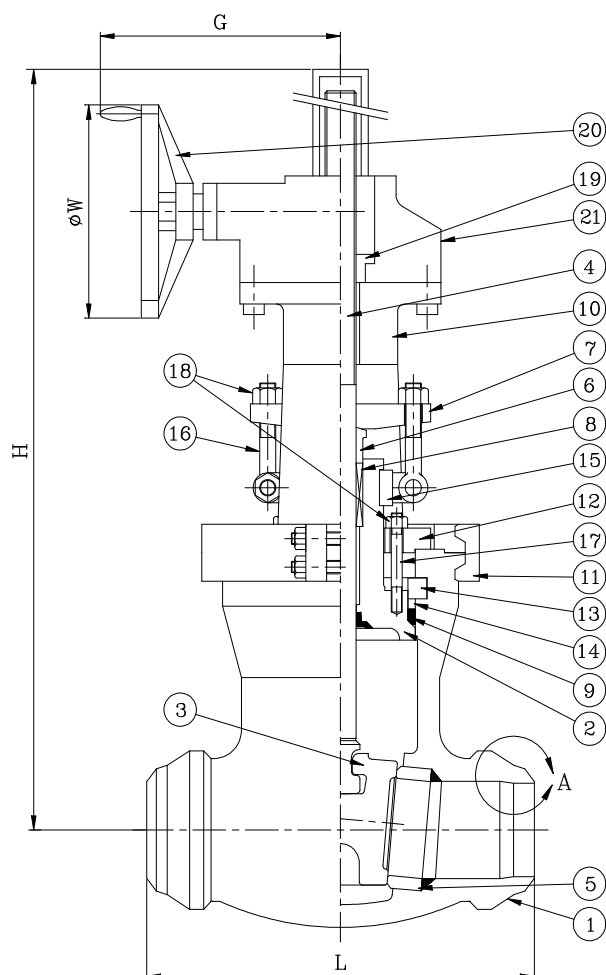
DIMENSION TABLE:

DN	NPS	Ød	L & L1	H	H _(OPEN)	ØW	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
50	2	47.8	368	548	615	300	38.1	6.4	215.9	165.1	92.0	25.4	8	59
65	2 1/2	57.2	419	580	658	350	41.1	6.4	244.3	190.5	104.7	28.5	8	86
80	3	73.2	381	666	760	350	38.1	6.4	241.3	190.5	127.0	25.4	8	115
100	4	98.6	457	748	868	400	44.5	6.4	292.1	235.0	157.2	31.8	8	198
150	6	146.1	610	860	1005	450	55.6	6.4	381.0	317.5	215.9	31.8	12	407
200	8	190.5	737	948	1120	600	63.5	6.4	469.9	393.7	269.8	38.1	12	725
250	10	238.3	838	1062	1340	650	69.9	6.4	546.1	469.9	323.9	38.1	16	1091
300	12	282.4	965	1217	1550	700	79.2	6.4	609.6	533.4	381.0	38.1	20	1629

CAST STAINLESS STEEL GATE VALVES – ANSI CLASS 1500

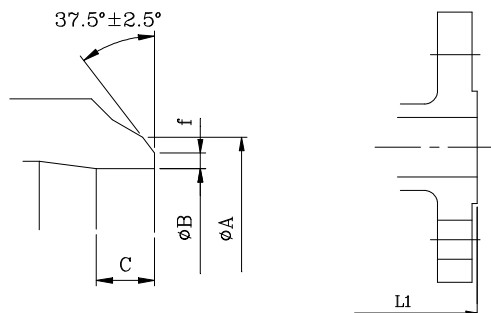
DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- PRESSURE SEAL BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL, GEAR OPERATOR
- AVAILABLE WITH BY-PASS VALVE
- FLANGED ENDS
- BUTTWELDING ENDS



APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



DETAIL A

Flanged Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		A351-CF3M
1	Body	A351-CF3M
2	Bonnet	A351-CF3M
3	Disc	A351-CF3M
4	Stem	A182-F316
5	Seat	A351-CF3M
6	Gland	A276-316
7	Gland Flange	A216-WCB
8	Gland Packing	Grafoil
9	Gasket (P.S.)	Grafoil
10	Yoke	A216-WCB
11	Yoke Clamp	A216-WCB
12	Bonnet Retainer	A216-WCB
13	Retainer Ring	A182-F316
14	Spacer Ring	A182-F316
15	Eye Bolt Clamp	A216-WCB
16	Eye Bolt	A193-B7
17	Bolts	A193-B7
18	Nuts	A184-2H
19	Stem Nut	Bronze
20	Hand Wheel	A47
21	Bevel Gear	Commercial

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG		
SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
5575 (391 kg/cm ²)	4076 (286 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	L & L1	H	ØW	G	ØA	ØB	C	f	WT.(Kg)
150	6	559	1043	610	337	172	132	20	1.6	390
200	8	711	1285	610	337	223	173	20	1.6	640
250	10	864	1580	610	512	278	216	20	1.6	980
300	12	991	1880	750	512	329	257	20	1.6	1280

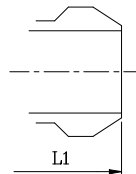
CAST STEEL GATE VALVES – ANSI CLASS 150

DESIGN DESCRIPTION:

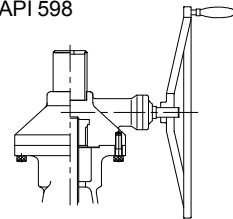
- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- GATE VALVES, API 600
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends



Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Stem	A182-F6a		
5	Seat	A105+ H/F STL#6	A182-F11+H/F	A350-LF2+H/F
6	Hand Wheel	A47 / A536		
7	Gasket	Grafoil+316 Sheet		
8	Gland flange	A216-WCB		
9	Bonnet Bush	A276-410		
10	Gland	A276-410		
11	Gland packing	Graphite		
12	Eye Bolt Pin	A276-410		
13	Stem Nut	A439-D2		
14	Retainer Nut	A36		
15	Nipple	Brass		
16	Wheel Nut	A36		
17	Eye Bolt	A307 B		
18	Eye Bolt Nut	A194-2H		
19	Bonnet Bolt	A193-B7	A193-B7	A193-B7M
20	Bonnet Bolt Nut	A194-2H	A194-2H	A194-2HM
21	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
450 (32 kg/cm ²)	314 (22 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ø d	L	L1	H	H(OPEN)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(kg)
50	2	50.8	178	216	343	406	200	15.8	1.6	152.4	120.7	92.0	19.0	4	20
65	2 1/2	63.5	191	241	413	492	250	17.5	1.6	177.8	139.7	104.7	19.0	4	29
80	3	76.2	203	282	442	530	250	19.1	1.6	190.5	152.4	127.0	19.0	4	32
100	4	101.6	229	305	496	612	300	23.9	1.6	228.6	190.5	157.2	19.0	8	51
150	6	152.4	267	403	640	802	350	25.4	1.6	279.4	241.3	215.9	22.3	8	86
200	8	203.2	292	419	780	998	350	28.5	1.6	342.9	298.5	269.8	22.3	8	130
250	10	254.0	330	457	964	1228	400	30.3	1.6	406.4	362.0	323.9	25.4	12	216
300	12	304.8	356	502	1134	1450	450	31.8	1.6	482.6	431.8	381.0	25.4	12	312
350	14	336.6	381	572	1384	1745	500	35.1	1.6	533.4	476.3	412.8	28.5	12	445
400	16	387.4	406	610	1602	2020	600	36.6	1.6	596.9	539.8	469.9	28.5	16	540
450	18	438.2	432	660	1715	2183	700	39.7	1.6	635.0	577.9	533.4	31.8	16	700
500	20	489.0	458	711	1974	2488	800	43.0	1.6	698.5	635.0	584.2	31.8	20	900
600	24	590.6	508	813	2248	2872	900	47.8	1.6	812.8	749.3	692.2	35.0	20	1120

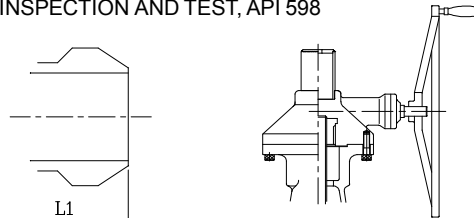
CAST STEEL GATE VALVES – ANSI CLASS 300

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL GATE VALVES, API 600
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Stem	A182-F6a		
5	Seat	A105+ H/F STL#6	A182-F11+H/F	A350-LF2+H/F
6	Hand Wheel	A47 / A536		
7	Gasket	304 Spiralwound / Grafoil Filler		
8	Gland flange	A216-WCB		
9	Bonnet Bush	A276-410		
10	Gland	A276-410		
11	Gland packing	Graphite		
12	Eye Bolt Pin	A276-410		
13	Stem Nut	A439-D2		
14	Retainer Nut	A36		
15	Nipple	Brass		
16	Wheel Nut	A36		
17	Eye Bolt	A307 B		
18	Eye Bolt Nut	A194-2H		
19	Bonnet Bolt	A193-B7	A193-B7	A193-B7M
20	Bonnet Bolt Nut	A194-2H	A194-2H	A194-2HM
21	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
1125 (79 kg/cm ²)	814 (57 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ø d	L & L1	H	H(OPEN)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
50	2	50.8	216	400	460	200	22.4	1.6	165.1	127.0	92.0	19.0	8	27
65	2 1/2	63.5	241	432	510	250	25.4	1.6	190.5	149.4	104.7	22.3	8	40
80	3	76.2	282	463	550	250	28.5	1.6	209.6	168.1	127.0	22.3	8	47
100	4	101.6	305	508	624	300	31.8	1.6	254.0	200.2	157.2	22.3	8	72
150	6	152.4	403	675	840	350	36.6	1.6	317.5	269.8	215.9	22.3	12	140
200	8	203.2	419	822	1043	400	41.2	1.6	381.0	330.2	269.8	25.4	12	223
250	10	254.0	457	1025	1290	450	47.8	1.6	444.5	387.4	323.9	28.5	16	348
300	12	304.8	502	1272	1588	500	50.8	1.6	520.7	450.9	381.0	31.8	16	577
350	14	336.6	762	1458	1820	600	53.9	1.6	584.2	514.4	412.8	31.8	20	710
400	16	387.4	838	1614	2032	700	57.2	1.6	647.7	571.5	469.9	35.0	20	1038
450	18	438.2	914	1738	2208	800	60.5	1.6	711.2	628.7	533.4	35.0	24	1227
500	20	489.0	991	1990	2512	900	63.5	1.6	774.7	685.8	584.2	35.0	24	1640
600	24	590.6	1143	2268	2896	1000	69.9	1.6	914.4	812.8	692.2	41.0	24	2302

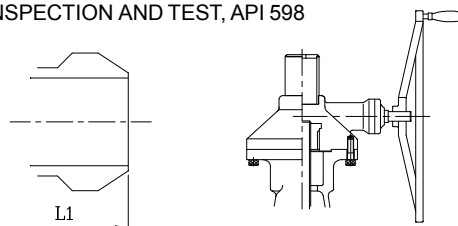
CAST STEEL GATE VALVES – ANSI CLASS 600

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND Yoke
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL GATE VALVES, API 600
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		WC6
1	Body	A217-WC6
2	Bonnet	A217-WC6
3	Disc	A217-WC6 + H/F 410
4	Stem	A182-F6a
5	Seat	A182-F11 + H/F STL#6
6	Hand Wheel	A47 / A536
7	Gasket	Soft-Iron
8	Gland flange	A216-WCB
9	Bonnet Bush	A276-410
10	Gland	A276-410
11	Gland packing	Graphite
12	Eye Bolt Pin	A276-410
13	Stem Nut	A439-D2
14	Retainer Nut	A36
15	Nipple	Brass
16	Wheel Nut	A36
17	Eye Bolt	A193-B7
18	Eye Bolt Nut	A194-2H
19	Bonnet Bolt	A193-B7
20	Bonnet Bolt Nut	A194-2H
21	Name Plate	A666-304

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
2225 (156 kg/cm ²)	1628 (114 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ød	L & L1	H	H(OPEN)	ØW	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
50	2	50.8	292	370	440	146	25.4	6.4	165.1	127.0	92.0	19.0	8	37
65	2 1/2	63.5	330	468	543	250	28.5	6.4	190.5	149.4	104.7	22.3	8	56
80	3	76.2	356	475	567	300	31.8	6.4	209.6	168.2	127.0	22.3	8	76
100	4	101.6	432	558	677	350	38.1	6.4	273.1	215.9	157.2	25.4	8	136
125	5	127.0	508	603	746	400	44.5	6.4	330.2	266.7	185.7	28.4	8	265
150	6	152.4	559	719	894	450	47.8	6.4	355.6	292.1	215.9	28.5	12	285
200	8	200.2	660	858	1085	500	55.6	6.4	419.1	349.3	269.8	31.8	12	460
250	10	247.7	787	999	1277	700	63.5	6.4	508.0	431.8	323.9	35.0	16	730
300	12	298.5	838	1173	1505	800	66.6	6.4	558.8	489.0	381.0	35.0	20	980
350	14	327.2	889	1298	1662	610	69.9	6.4	603.3	527.1	412.8	38.1	20	1380
400	16	374.7	991	1470	1884	610	76.2	6.4	685.8	603.3	469.9	41.0	20	1810
450	18	419.1	1092	1586	2044	610	82.6	6.4	743.0	654.1	533.4	44.5	20	2320

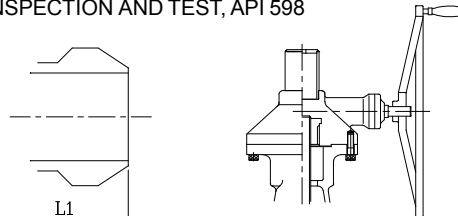
CAST STEEL GATE VALVES – ANSI CLASS 600

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND Yoke
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL GATE VALVES, API 600
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



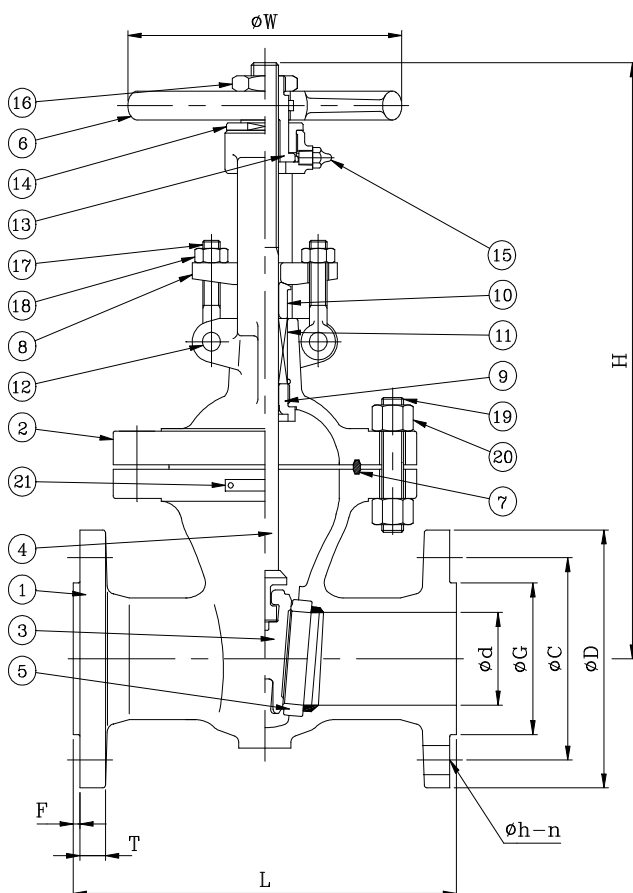
Buttwelding Ends

Available With Gear Operator

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Stem	A182-F6a		
5	Seat	A105+ H/F STL#6	A182-F11+H/F	A350-LF2+H/F
6	Hand Wheel	A47 / A536		
7	Gasket	Soft-Iron		
8	Gland flange	A216-WCB		
9	Bonnet Bush	A276-410		
10	Gland	A276-410		
11	Gland packing	Graphite		
12	Eye Bolt Pin	A276-410		
13	Stem Nut	A439-D2		
14	Retainer Nut	A36		
15	Nipple	Brass		
16	Wheel Nut	A36		
17	Eye Bolt	A193-B7		
18	Eye Bolt Nut	A194-2H		
19	Bonnet Bolt	A193-B7	A193-B7	A193-B7M
20	Bonnet Bolt Nut	A194-2H	A194-2H	A194-2HM
21	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.



DIMENSION TABLE:

DN	NPS	Ø d	L & L1	H	H(OPEN)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
50	2	50.8	292	370	440	146	25.4	6.4	165.1	127.0	92.0	19.0	8	37
65	2 1/2	63.5	330	468	543	250	28.5	6.4	190.5	149.4	104.7	22.3	8	56
80	3	76.2	356	475	567	300	31.8	6.4	209.6	168.2	127.0	22.3	8	76
100	4	101.6	432	558	677	350	38.1	6.4	273.1	215.9	157.2	25.4	8	136
150	6	152.4	559	719	894	450	47.8	6.4	355.6	292.1	215.9	28.5	12	285
200	8	200.2	660	858	1085	500	55.6	6.4	419.1	349.3	269.8	31.8	12	460
250	10	247.7	787	999	1277	700	63.5	6.4	508.0	431.8	323.9	35.0	16	730
300	12	298.5	838	1173	1505	800	66.6	6.4	558.8	489.0	381.0	35.0	20	980
350	14	327.2	889	1298	1662	610	69.9	6.4	603.3	527.1	412.8	38.1	20	1380
400	16	374.7	991	1470	1884	610	76.2	6.4	685.8	603.3	469.9	41.0	20	1810
450	18	419.1	1092	1586	2044	610	82.6	6.4	743.0	654.1	533.4	44.5	20	2320
500	20	463.6	1200	1750	2248	610	95.3	6.4	812.8	723.9	635.0	44.5	24	2733

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
2225 (156 kg/cm ²)	1628 (114 kg/cm ²)	80 (6 kg/cm ²)

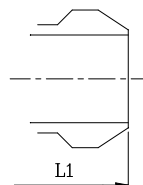
CAST STEEL GATE VALVES – ANSI CLASS 900

DESIGN DESCRIPTION:

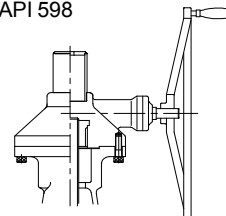
- OUTSIDE SCREW AND YOE
- BOLTED BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL
- AVAILABLE WITH GEAR OPERATOR
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

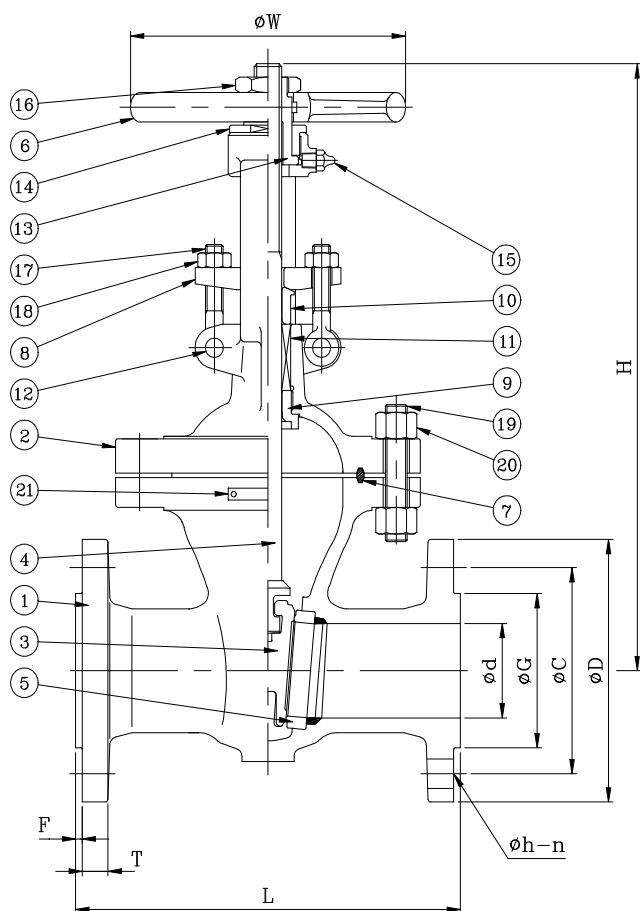
- STEEL GATE VALVES, API 600
- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



Buttwelding Ends



Available With Gear Operator



PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Stem	A182-F6a		
5	Seat	A105+ H/F STL#6	A182-F11+H/F	A350-LF2+H/F
6	Hand Wheel	A47 / A536		
7	Gasket	Soft-Iron		
8	Gland flange	A216-WCB		
9	Bonnet Bush	A276-410		
10	Gland	A276-410		
11	Gland packing	Graphite		
12	Eye Bolt Pin	A276-410		
13	Stem Nut	A439-D2		
14	Retainer Nut	A36		
15	Nipple	Brass		
16	Wheel Nut	A36		
17	Eye Bolt	A193-B7		
18	Eye Bolt Nut	A194-2H		
19	Bonnet Bolt	A193-B7	A193-B7	A193-B7M
20	Bonnet Bolt Nut	A194-2H	A194-2H	A194-2HM
21	Name Plate	A666-304		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

PSIG

SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
3350 (235 kg/cm ²)	2442 (171 kg/cm ²)	80 (6 kg/cm ²)

DIMENSION TABLE:

DN	NPS	Ø d	L & L1	H	H _(OPEN)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
50	2	47.8	368	548	615	300	38.1	6.4	215.9	165.1	92.0	25.4	8	59
65	2 1/2	57.2	419	580	658	350	41.1	6.4	244.3	190.5	104.7	28.5	8	86
80	3	73.2	381	666	760	350	38.1	6.4	241.3	190.5	127.0	25.4	8	115
100	4	98.6	457	748	868	400	44.5	6.4	292.1	235.0	157.2	31.8	8	198
150	6	146.1	610	860	1005	450	55.6	6.4	381.0	317.5	215.9	31.8	12	407
200	8	190.5	737	948	1120	600	63.5	6.4	469.9	393.7	269.8	38.1	12	725
250	10	238.3	838	1062	1340	650	69.9	6.4	546.1	469.9	323.9	38.1	16	1091
300	12	282.4	965	1217	1550	700	79.2	6.4	609.6	533.4	381.0	38.1	20	1629

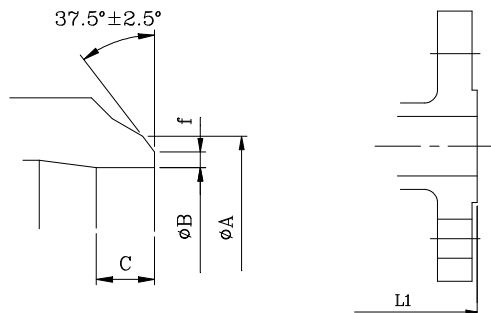
CAST STEEL GATE VALVES – ANSI CLASS 1500

DESIGN DESCRIPTION:

- OUTSIDE SCREW AND YOKE
- PRESSURE SEAL BONNET
- FLEXIBLE WEDGE, FULLY GUIDED
- RENEWABLE SEAT RINGS
- RISING STEM AND NON-RISING HANDWHEEL, GEAR OPERATOR
- AVAILABLE WITH BY-PASS VALVE
- FLANGED ENDS
- BUTTWELDING ENDS

APPLICABLE STANDARDS:

- STEEL VALVES, ANSI B16.34
- FACE TO FACE, ANSI B16.10
- END FLANGES, ANSI B16.5
- BUTTWELDING ENDS, ANSI B16.25
- INSPECTION AND TEST, API 598



DETAIL A

Flanged Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC1	LCB
1	Body	A216-WCB	A217-WC1	A352-LCB
2	Bonnet	A216-WCB	A217-WC1	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC1+H/F	A352-LCB+H/F
4	Stem	A182-F6a		
5	Seat	A105+ H/F STL#6	A182-F6a+H/F	A352-LF2+H/F
6	Gland	A276-410		
7	Gland Flange	A216-WCB		
8	Gland Packing	Grafoil		
9	Gasket (P.S.)	Soft Iron + Silver Plated		
10	Yoke	A216-WCB		
11	Yoke Clamp	A216-WCB	A217-WC6	A352-LCB
12	Bonnet Retainer	A216-WCB		
13	Retainer Ring	A182-F6		
14	Spacer Ring	A182-F6		
15	Eye Bolt Clamp	A216-WCB		
16	Eye Bolt	A193-B7		
17	Bolts	A193-B7	A193-B7	A193-B7M
18	Nuts	A194-2H	A194-2H	A194-2HM
19	Stem Nut	A439-D2		
20	Hand Wheel	A536		
21	Bevel Gear	Commercial		

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

			PSIG
SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)	
5575 (391 kg/cm ²)	4076 (286 kg/cm ²)	80 (6 kg/cm ²)	

DIMENSION TABLE:

DN	NPS	L & L1	H	Ø W	G	Ø A	Ø B	C	f	WT.(Kg)
150	6	559	1043	610	337	172	132	20	1.6	390
200	8	711	1285	610	337	223	173	20	1.6	640
250	10	864	1580	610	512	278	216	20	1.6	980
300	12	991	1880	750	512	329	257	20	1.6	1280

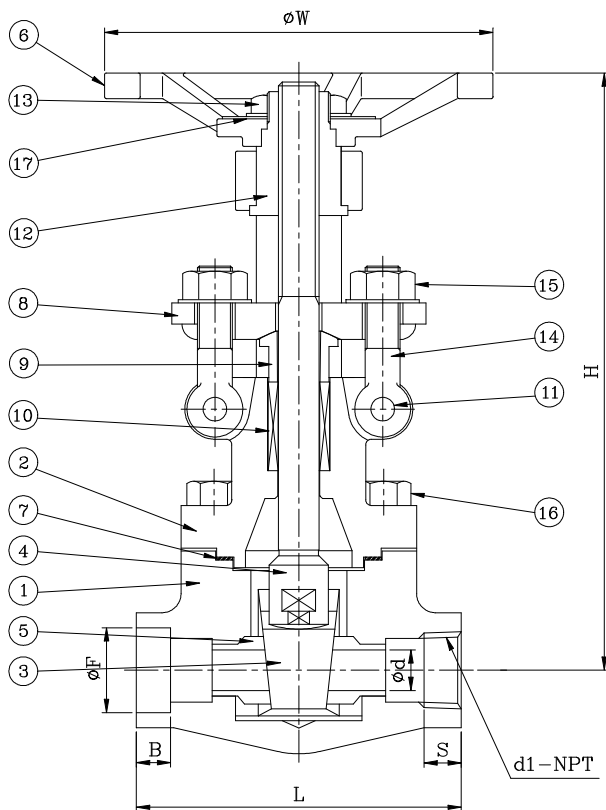
FORGED STEEL GATE VALVES – ANSI CLASS 150~800

DESIGN DESCRIPTION:

- BOLTED BONNET
- O.S & Y

APPLICABLE STANDARDS:

- DESIGN PER API 602 / BS 5352
- SOCKET WELD AND THREADED END
PER ANSI B16.11
- PIPE THREADS PER ANSI B1.20.1
- FLANGED END PER ANSI B16.5
- INSPECTON AND TEST PER API 598



TEST PRESSURE TO API 598

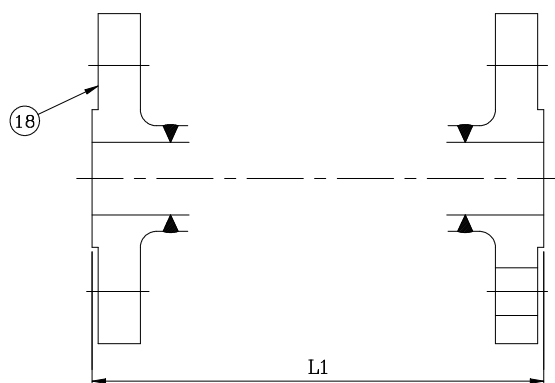
PSIG

CLASS	SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
150	450 (32 kg/cm ²)	314 (22 kg/cm ²)	80 (6 kg/cm ²)
300	1125 (79 kg/cm ²)	814 (57 kg/cm ²)	80 (6 kg/cm ²)
600	2225 (156 kg/cm ²)	1628 (114 kg/cm ²)	80 (6 kg/cm ²)
800	3000 (210 kg/cm ²)	2200 (154 kg/cm ²)	80 (6 kg/cm ²)

SOCKET WELD ENDS

SCREWED ENDS

FLANGED ENDS



Flanged Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		A105	F304	F316
1	Body	A105	A182-F304	A182-F316
2	Bonnet	A105	A182-F304	A182-F316
3	Disc	A217-CA15	A351-CF8	A351-CF8M
4	Stem	A276-410	A276-304	A276-316
5	Seat	A276-410+H/F STL#6	A276-304+H/F	A276-316+H/F
6	Hand Wheel	A47		
7	Gasket	Grafoil + 304 Spiralwound	Grafoil + 304 Spiralwound	Grafoil + 316 Spiralwound
8	Gland Flange	A105	A182-F304	A182-F304
9	Gland	A276-304	A276-304	A276-316
10	Gland Packing	Graphite		
11	Eye Bolt Pin	A276-304		
12	Stem Nut	A276-410		
13	Wheel Nut	A108-1025		
14	Eye Bolt	A193-B8		
15	Eye Bolt Nut	A194-2H	A194-8	A194-8
16	Bonnet Bolt	A193-B7	A193-B8	A193-B8
17	Name Plate	A666-304		
18	Flange	A105	A182-F304	A182-F316

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

DIMENSION TABLE:

DN	NPS	Ø d	L	L1			H(OPEN)	Ø W	SOCKET WELD		SCREWED		WT.(Kg) SW / NPT
				150#	300#	600#			Ø F	B	d1	S	
15	1/2	13	79	108	140	165	155	100	22	10	1/2" NPT	13.5	1.9
20	3/4	13	92	118	152	191	155	100	27	13	3/4" NPT	14.0	2.2
25	1	19	111	127	165	216	193	125	34	13	1" NPT	17.5	4.1
40	1 1/2	29	120	165	190	241	248	160	49	13	1 1/2" NPT	18.5	7.2
50	2	37	140	178	216	292	286	180	61	16	2" NPT	19.0	10.8

- 
- Geko Union Center of Competence
 - Geko Union Subsidiary
 - Geko Union Sales Office

Product Range Pumps:

Magnet Drive Pumps

- E Centrifugal Pumps according to DIN EN ISO 2858 & DIN EN ISO 15783
- E Centrifugal Pumps according to ASME B73.3
- E Centrifugal Pumps according to API 685
- E Multi-Stage Centrifugal Pumps (Barrel/Ring-Section Design)
- E Side Channel Pumps following DIN EN ISO 15783
- E Twin Screw Pumps, Single Volute, according to API 676 and DIN EN ISO 14847
- E Pumps in Close-Coupled Design
- E Pumps for High Pressure Applications
- E Pumps for High Temperature Applications
- E Self-Priming Pumps
- E Vertically Suspended (Sump) Pumps , Single- / Multi-Stage and Twin Screw Design
- E Vertical Inline Pumps

Mechanically Sealed Pumps

- E Centrifugal Pumps according to DIN EN ISO 2858 & DIN EN ISO 5199
- E Centrifugal Pumps following API 610 & ISO 13709
- E Multi-Stage Centrifugal Pumps (Barrel/Ring-Section Design)
- E Propeller Pumps, Horizontal / Vertical / Bottom-Flange
- E Side Channel Pumps
- E Twin Screw Pumps, Single / Double Volute, according to API 676 and DIN EN ISO 14847
- E Pumps for High Pressure Applications
- E Pumps for High Temperature Applications
- E Self-Priming Pumps
- E Vertically Suspended (Sump) Pumps , Single- / Multi-Stage and Twin Screw Design
- E Vertical Inline Pumps

Product Range Valves:

- E Globe Valves, T-Pattern
- E Globe Valves, Y-Pattern
- E Control Valves
- E Gate Valves, Isomorphous Construction Series
- E Gate Valves, Wedge or Wedge Plates
- E Check Valves
- E Butterfly Valves , Metal Seated
- E Control Butterfly Valves , Metal Seated

Geko Union Service Performance:

- E Workshop / On-Site Repairs
- E Genuine Spare Part Delivery Worldwide
- E Spare Parts Storage
- E Customized Spare Parts Management
- E On-Site Maintenance
- E Installation
- E Retrofitting
- E On-Site Testing / Monitoring
- E Customer Advisory Service
- E Start Up & Commissioning
- E Individual 24 / 7 Service
- E Trouble-Shooting
- E In-House & On-Site Training
- E On-Site Assembly and Disassembly
- E Long-Term Maintenance Contracts
- E Maintenance Planning and Consulting
- E Diagnostics

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