

PRODUCT RANGE VALVES

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CONTROL-VALVES
OUR QUALITY IS YOUR SUCCESS



Check Valve



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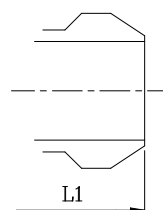
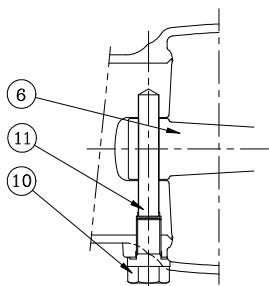
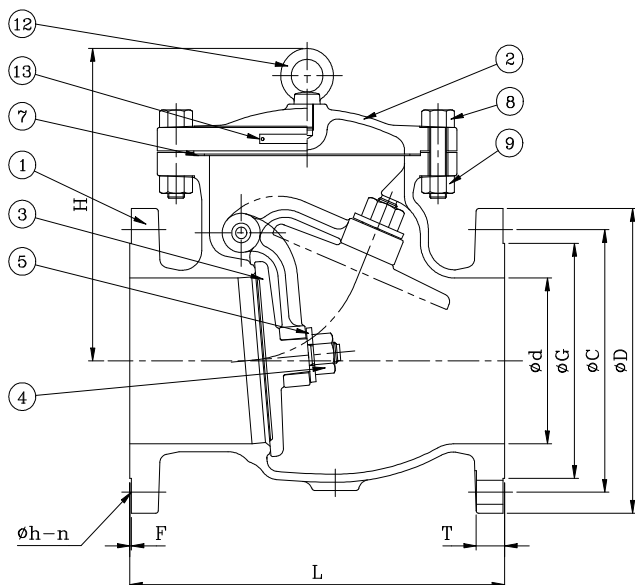
CAST STAINLESS STEEL CHECK VALVE – ANSI CLASS 150

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- INTEGRAL SEAT
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS
		CF3
1	Body	A351-CF3
2	Cover	A351-CF3
3	Disc	A351-CF3
4	Disc Nut	A194-8M
5	Disc Washer	A276-316L
6	Swing Arm	A351-CF3M
7	Gasket	PTFE / Grafoil+316 Sheet
8	Cover Bolt	A193-B8
9	Cover Bolt Nut	A194-8
10	Plug	A276-316L
11	Hinge Pin	A276-316L
12	Eye Bolt	A36+Zn Plate
13	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:

DN	NPS	Ød	L & L1	H	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
15	1/2	12.7	108	71	10.0	1.6	88.9	60.5	35.1	16.0	4	5
20	3/4	19.0	117	71	10.5	1.6	98.6	69.9	43.0	16.0	4	5
25	1	25.4	127	76	11.2	1.6	108.0	79.2	50.8	16.0	4	6
40	1 1/2	38.1	165	122	14.3	1.6	127.0	98.6	73.2	16.0	4	7.5
50	2	50.8	203	142	15.8	1.6	152.4	120.7	92.0	19.0	4	11
65	2 1/2	63.5	216	148	17.5	1.6	177.8	139.7	104.7	19.0	4	16
80	3	76.2	241	161	19.1	1.6	190.5	152.4	127.0	19.0	4	21
100	4	101.6	292	187	23.9	1.6	228.6	190.5	157.2	19.0	8	33
150	6	152.4	356	287	25.4	1.6	279.4	241.3	215.9	22.3	8	55
200	8	203.2	495	316	28.5	1.6	342.9	298.5	269.8	22.3	8	94
250	10	254.0	622	393	30.3	1.6	406.4	362.0	323.9	25.4	12	168
300	12	304.8	699	428	31.8	1.6	482.6	431.8	381.0	25.4	12	238
350	14	336.6	787	453	35.1	1.6	533.4	476.3	412.8	28.5	12	366
400	16	387.4	864	490	36.6	1.6	596.9	539.8	469.9	28.5	16	522
450	18	438.2	978	520	39.6	1.6	635.0	577.9	533.4	31.8	16	725

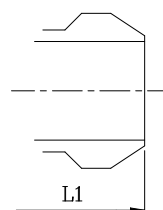
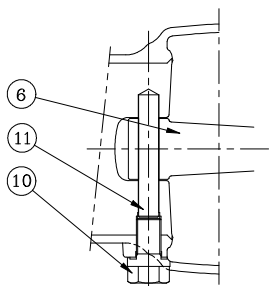
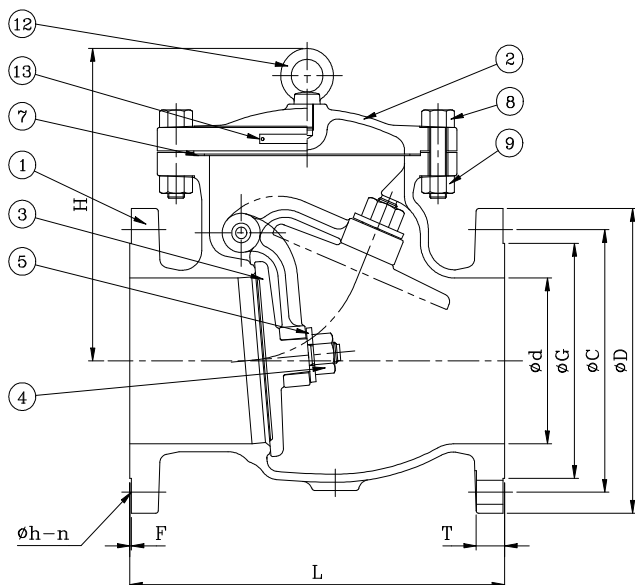
CAST STAINLESS STEEL CHECK VALVE – ANSI CLASS 150

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- INTEGRAL SEAT
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		CF8	CF8M	CF3M
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Cover	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Disc Nut	A194-8	A194-8M	A194-8M
5	Disc Washer	A276-304	A276-316	A276-316L
6	Swing Arm	A351-CF8	A351-CF8M	A351-CF3M
7	Gasket	PTFE / Grafoil+316 Sheet		
8	Cover Bolt	A193-B8		
9	Cover Bolt Nut	A194-8		
10	Plug	A276-304	A276-316	A276-316L
11	Hinge Pin	A276-304	A276-316	A276-316L
12	Eye Bolt	A36+Zn Plate		
13	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:

DN	NPS	Ø d	L & L1	H	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
15	1/2	12.7	108	71	10.0	1.6	88.9	60.5	35.1	16.0	4	5
20	3/4	19.0	117	71	10.5	1.6	98.6	69.9	43.0	16.0	4	5
25	1	25.4	127	76	11.2	1.6	108.0	79.2	50.8	16.0	4	6
40	1 1/2	38.1	165	122	14.3	1.6	127.0	98.6	73.2	16.0	4	7.5
50	2	50.8	203	142	15.8	1.6	152.4	120.7	92.0	19.0	4	11
65	2 1/2	63.5	216	148	17.5	1.6	177.8	139.7	104.7	19.0	4	16
80	3	76.2	241	161	19.1	1.6	190.5	152.4	127.0	19.0	4	21
100	4	101.6	292	187	23.9	1.6	228.6	190.5	157.2	19.0	8	33
150	6	152.4	356	287	25.4	1.6	279.4	241.3	215.9	22.3	8	55
200	8	203.2	495	316	28.5	1.6	342.9	298.5	269.8	22.3	8	94
250	10	254.0	622	393	30.3	1.6	406.4	362.0	323.9	25.4	12	168
300	12	304.8	699	428	31.8	1.6	482.6	431.8	381.0	25.4	12	238
350	14	336.6	787	453	35.1	1.6	533.4	476.3	412.8	28.5	12	366
400	16	387.4	864	490	36.6	1.6	596.9	539.8	469.9	28.5	16	522
450	18	438.2	978	520	39.6	1.6	635.0	577.9	533.4	31.8	16	725

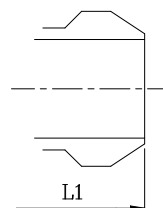
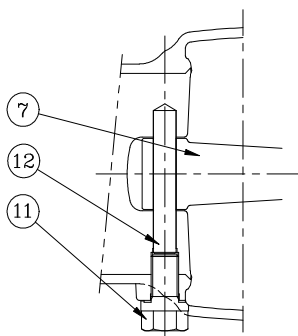
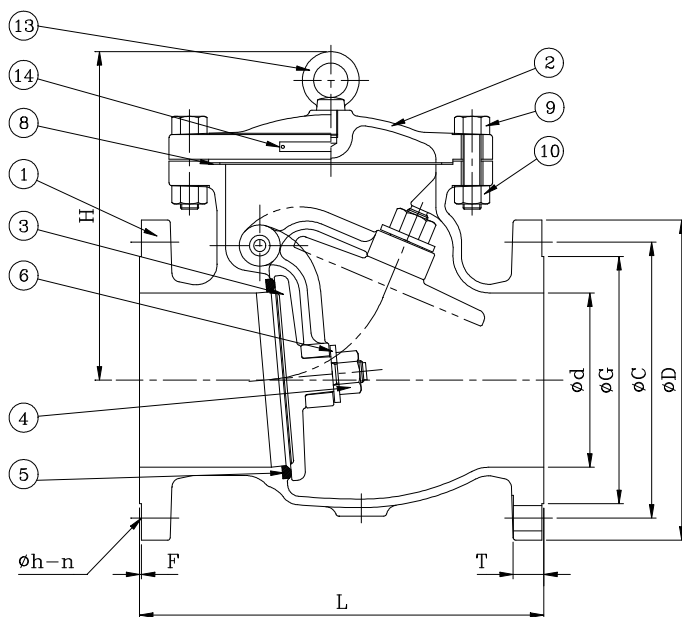
CAST STAINLESS STEEL CHECK VALVE – ANSI CLASS 150

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- INTEGRAL SEAT
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS	
		CF8	CF8M
1	Body	A351-CF8	A351-CF8M
2	Cover	A351-CF8	A351-CF8M
3	Disc	A351-CF8 + H/F	A351-CF8M + H/F
4	Seat	A351-CF8 + H/F	A351-CF8M + H/F
5	Disc Nut	A194-8	A194-8M
6	Disc Washer	A276-304	A276-316
7	Swing Arm	A351-CF8	A351-CF8M
8	Gasket	Grafoil+316 Sheet	
9	Cover Bolt	A193-B8	
10	Cover Bolt Nut	A194-8	
11	Plug	A276-304	A276-316
12	Hinge Pin	A276-304	A276-316
13	Eye Bolt	A36+Zn Plate	
14	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:

ITEM	DN	NPS	Ød	L & L1	H	T	F	ØD	ØC	ØG	Øh	n	WT.(Kg)
	15	1/2	12.7	108	71	10.0	1.6	88.9	60.5	35.1	16.0	4	5
	20	3/4	19.0	117	71	10.5	1.6	98.6	69.9	43.0	16.0	4	5
	25	1	25.4	127	76	11.2	1.6	108.0	79.2	50.8	16.0	4	6
	40	1 1/2	38.1	165	122	14.3	1.6	127.0	98.6	73.2	16.0	4	7.5
	50	2	50.8	203	142	15.8	1.6	152.4	120.7	92.0	19.0	4	11
	65	2 1/2	63.5	216	148	17.5	1.6	177.8	139.7	104.7	19.0	4	16
	80	3	76.2	241	161	19.1	1.6	190.5	152.4	127.0	19.0	4	21
	100	4	101.6	292	187	23.9	1.6	228.6	190.5	157.2	19.0	8	33
	150	6	152.4	356	287	25.4	1.6	279.4	241.3	215.9	22.3	8	55
	200	8	203.2	495	316	28.5	1.6	342.9	298.5	269.8	22.3	8	94
	250	10	254.0	622	393	30.3	1.6	406.4	362.0	323.9	25.4	12	168
	300	12	304.8	699	428	31.8	1.6	482.6	431.8	381.0	25.4	12	238
	350	14	336.6	787	453	35.1	1.6	533.4	476.3	412.8	28.5	12	366
	400	16	387.4	864	490	36.6	1.6	596.9	539.8	469.9	28.5	16	522
	450	18	438.2	978	520	39.6	1.6	635.0	577.9	533.4	31.8	16	725
	500	20	489.0	978	666	43.0	1.6	699.0	635.0	584.2	31.8	20	850

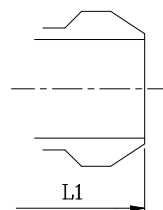
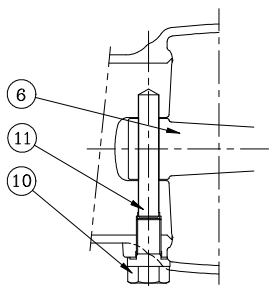
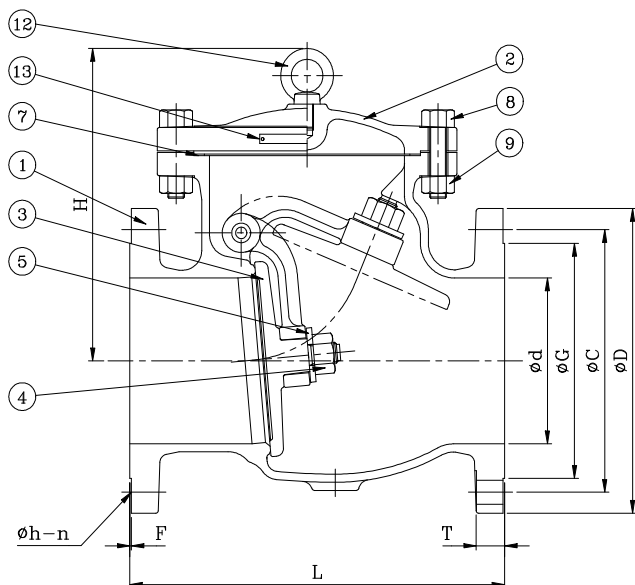
CAST STAINLESS STEEL CHECK VALVE – ANSI CLASS 300

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- INTEGRAL SEAT
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		CF8	CF8M	CF3M
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Cover	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Disc Nut	A194-8	A194-8M	A194-8M
5	Disc Washer	A276-304	A276-316	A276-316L
6	Swing Arm	A351-CF8	A351-CF8M	A351-CF3M
7	Gasket	304 Spiralwound	316 Spiralwound	316L Spiralwound
8	Cover Bolt	A193-B8		
9	Cover Bolt Nut	A194-8		
10	Plug	A276-304	A276-316	A276-316L
11	Hinge Pin	A276-304	A276-316	A276-316L
12	Eye Bolt	A36+Zn Plate		
13	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	T	F	Ø D	Ø C	Ø G	Ø h	n	WT. (Kg)
15	1/2	12.7	152	71	14.3	1.6	95.3	66.5	35.1	16	4	7
20	3/4	19.0	178	71	15.8	1.6	117.4	82.6	43.0	19	4	8
25	1	25.4	216	110	17.5	1.6	124.0	88.9	50.8	19	4	9
40	1 1/2	38.1	241	160	20.6	1.6	155.5	114.3	73.2	22.3	4	15
50	2	50.8	267	173	22.4	1.6	165.1	127.0	92.0	19.0	8	23
65	2 1/2	63.5	292	180	25.4	1.6	190.5	149.4	104.7	22.3	8	34
80	3	76.2	318	220	28.5	1.6	209.6	168.1	127.0	22.3	8	41
100	4	101.6	356	236	31.8	1.6	254.0	200.2	157.2	22.3	8	68
150	6	152.4	445	310	36.6	1.6	317.5	269.8	215.9	22.3	12	125
200	8	203.2	533	340	41.2	1.6	381.0	330.2	269.8	25.4	12	196
250	10	254.0	622	393	47.8	1.6	444.5	387.4	323.9	28.5	16	292
300	12	304.8	711	428	50.8	1.6	520.7	450.9	381.0	31.8	16	450
350	14	336.6	838	470	53.9	1.6	584.2	514.4	412.8	31.8	20	688
400	16	387.4	864	533	57.2	1.6	647.7	571.5	469.9	35.1	20	860

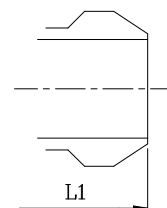
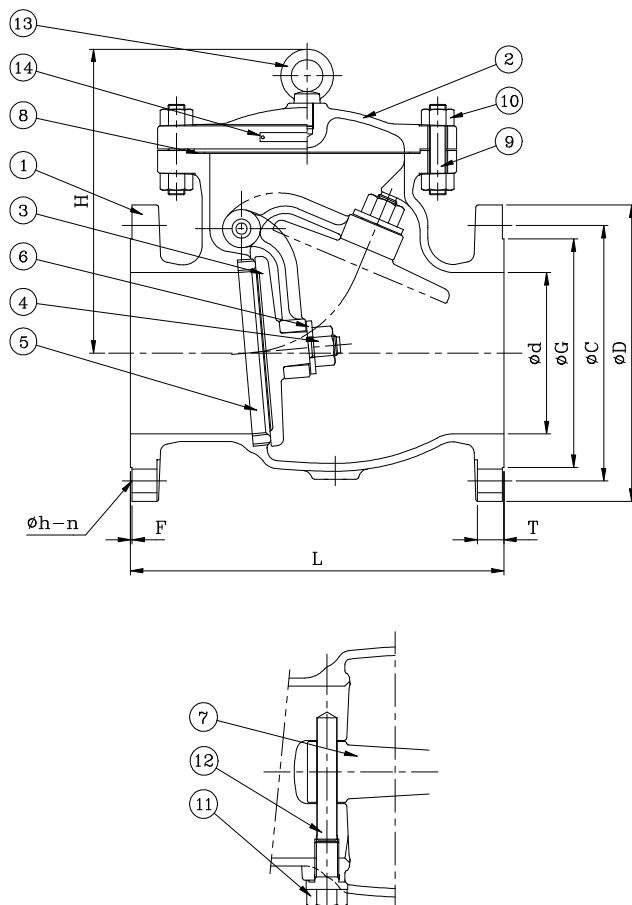
CAST STEEL CHECK VALVE – ANSI CLASS 150

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- RENEWABLE SEAT RING
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Cover	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Disc Nut	A194-8		
5	Seat Ring	A105+H/F STL#6	A217-WC6+H/F	A350-LF2+H/F
6	Disc Washer	A276-304		
7	Swing Arm	A216-WCB	A217-WC6	A352-LCB
8	Gasket	Grafoil+316 Sheet		
9	Cover Bolt	A193-B7	A193-B7	A193-B7M
10	Cover Bolt Nut	A194-2H	A194-2H	A194-2HM
11	Plug	A276-410		
12	Hinge Pin	A276-410		
13	Eye Bolt	A36+Zn Plate		
14	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:

DN	NPS	Ø d	L & L1	H	T	F	Ø D	Ø C	Ø G	Ø h	n	WT. (Kg)
50	2	50.8	203	170	15.8	1.6	152.4	120.7	92.0	19.0	4	16
65	2 1/2	63.5	216	180	17.5	1.6	177.8	139.7	104.7	19.0	4	25
80	3	76.2	241	195	19.1	1.6	190.5	152.4	127.0	19.0	4	29
100	4	101.6	292	215	23.9	1.6	228.6	190.5	157.2	19.0	8	41
125	5	127.0	330.2	279	24.0	1.6	254.0	215.9	186.0	22.4	8	52
150	6	152.4	356	270	25.4	1.6	279.4	241.3	215.9	22.3	8	76
200	8	203.2	495	315	28.5	1.6	342.9	298.5	269.8	22.3	8	126
250	10	254.0	622	360	30.3	1.6	406.4	362.0	323.9	25.4	12	202
300	12	304.8	699	400	31.8	1.6	482.6	431.8	381.0	25.4	12	306
350	14	336.6	787	460	35.1	1.6	533.4	476.3	412.8	28.5	12	420
400	16	387.4	914	490	36.6	1.6	596.9	539.8	469.9	28.5	16	550
450	18	438.2	978	560	39.7	1.6	635.0	577.9	533.4	31.8	16	760
500	20	489.0	978	620	43.0	1.6	698.5	635.0	584.2	31.8	20	820
550	22	540.0	1067	726	46.0	1.6	749.3	692.2	641.4	35.0	20	1000
600	24	590.6	1295	700	47.8	1.6	812.8	749.3	692.2	35.0	20	1300

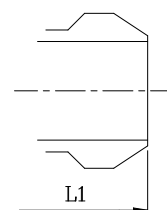
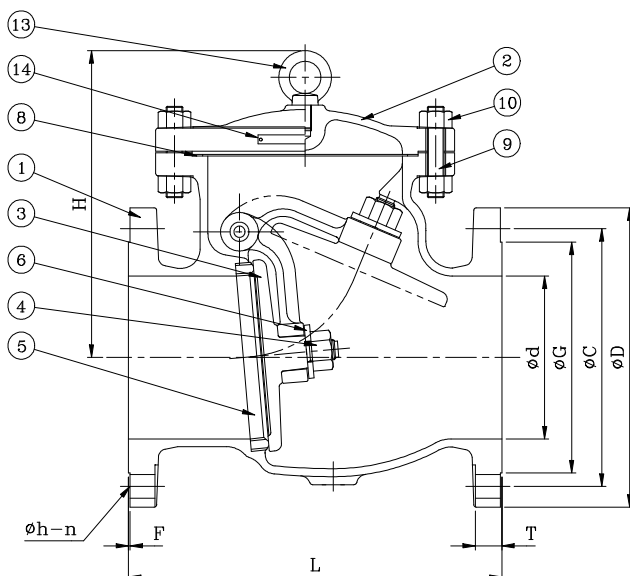
CAST STEEL CHECK VALVE – ANSI CLASS 300

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- RENEWABLE SEAT RING
- 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

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Cover	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A276-WC6+H/F	A352-LCB+H/F
4	Disc Nut	A194-8		
5	Seat Ring	A105+H/F STL#6	A217-WC6+H/F	A350-LF2+H/F
6	Disc Washer	A276-304		
7	Swing Arm	A216-WCB	A217-WC6	A352-LCB
8	Gasket	304 Spiralwound w/ Grafoil Fillor		
9	Cover Bolt	A193-B7	A193-B7	A193-B7M
10	Cover Bolt Nut	A194-2H	A194-2H	A194-2HM
11	Plug	A276-410		
12	Hinge Pin	A276-410		
13	Eye Bolt	A36+Zn Plate		
14	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	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
50	2	50.8	267	173	22.4	1.6	165.1	127.0	92.0	19.0	8	23
65	2 1/2	63.5	292	180	25.4	1.6	190.5	149.4	104.6	22.3	8	34
80	3	76.2	318	220	28.5	1.6	209.6	168.1	127.0	22.3	8	41
100	4	101.6	356	236	31.8	1.6	254.0	200.2	157.2	22.3	8	68
150	6	152.4	445	310	36.6	1.6	317.5	270.0	215.9	22.3	12	125
200	8	203.2	533	348	41.2	1.6	381.0	330.2	269.7	25.4	12	196
250	10	254.0	622	380	47.8	1.6	444.5	387.4	323.8	28.4	16	292
300	12	304.8	711	428	50.8	1.6	520.7	450.9	381.0	31.8	16	450
350	14	337.0	838	484	53.8	1.6	584.2	514.4	412.8	31.8	20	688
400	16	387.4	864	526	57.2	1.6	647.7	571.5	469.9	35.0	20	860
450	18	438.2	978	610	60.5	1.6	711.2	628.7	533.4	35.0	24	1060
500	20	489.0	1016	680	63.5	1.6	774.7	685.8	584.2	35.0	24	1289
600	24	590.6	1346	757	69.9	1.6	914.4	812.8	692.2	41.0	24	1650

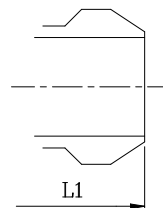
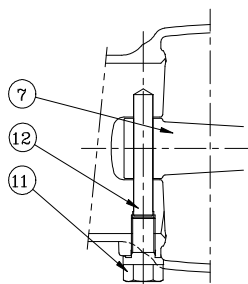
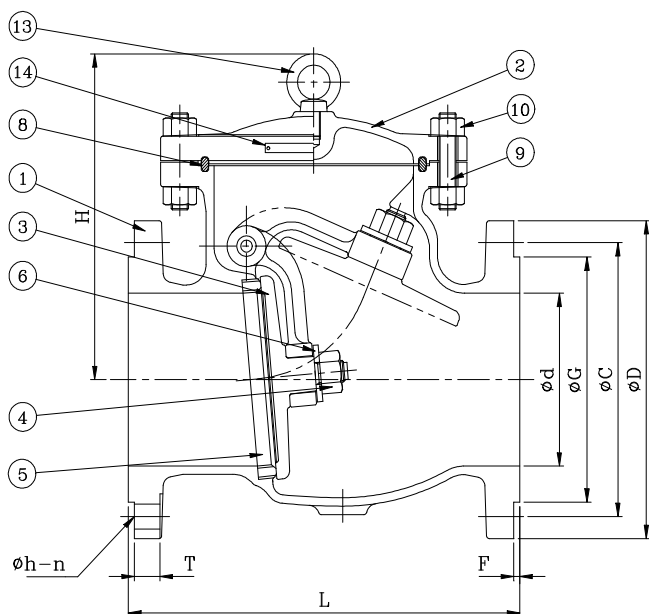
CAST STEEL CHECK VALVE – ANSI CLASS 600

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE
- FOR HORIZONTAL OR VERTICAL LINES
- RENEWABLE SEAT RING
- 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



Butt welding Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Cover	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F	A217-WC6+H/F	A352-LCB+H/F
4	Disc Nut	A194-8		
5	Seat Ring	A105+H/F STL#6	A217-WC6+H/F	A350-LF2+H/F
6	Disc Washer	A276-304		
7	Swing Arm	A216-WCB	A217-WC6	A352-LCB
8	Gasket	Soft Iron		
9	Cover Bolt	A193-B7	A193-B7	A193-B7M
10	Cover Bolt Nut	A194-2H	A194-2H	A194-2HM
11	Plug	A276-410		
12	Hinge Pin	A276-410		
13	Eye Bolt	A36		
14	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	Ø d	L & L1	H	T	F	Ø D	Ø C	Ø G	Ø h	n	WT.(Kg)
50	2	50.8	292	203	25.4	6.4	165.1	127.0	92.0	19.0	8	34
65	2 1/2	63.5	330	210	28.5	6.4	190.5	149.4	104.7	22.3	8	45
80	3	76.2	356	235	31.8	6.4	209.6	168.2	127.0	22.3	8	63
100	4	101.6	432	286	38.1	6.4	273.1	215.9	157.2	25.4	8	114
150	6	152.4	559	330	47.8	6.4	355.6	292.1	215.9	28.5	12	207
200	8	200.2	660	381	55.6	6.4	419.1	349.3	269.8	31.8	12	364
250	10	247.7	787	457	63.5	6.4	508.0	431.8	323.9	35.0	16	560
300	12	298.5	838	584	66.5	6.4	558.8	489.0	381.0	35.0	20	792
350	14	326.9	889	635	69.8	6.4	603.3	527.1	412.8	38.1	20	1082
400	16	374.6	991	693	76.2	6.4	685.8	603.3	469.9	41.2	20	1253

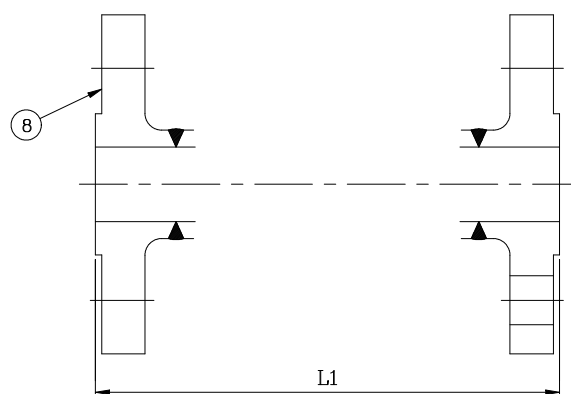
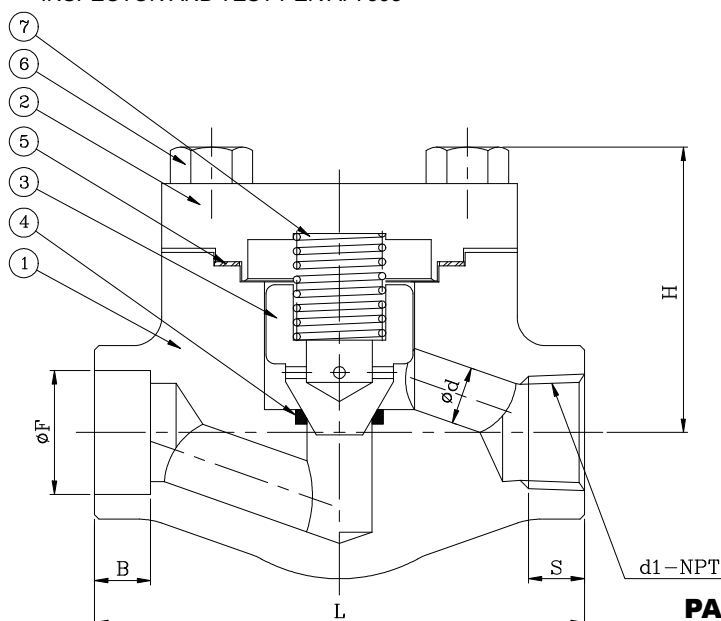
FORGED STEEL CHECK VALVES – ANSI CLASS 150~800

DESIGN DESCRIPTION:

- BOLTED COVER
- LIFT TYPE

APPLICABLE STANDARDS:

- DESIGN PER API 602
- 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



Flanged Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		A105	A182-F304	A182-F316
1	Body	A105	A182-F304	A182-F316
2	Cover	A105	A182-F304	A182-F316
3	Disc	A276-410	A276-304	A276-316
4	Seat	A276-410+H/F	A276-304+H/F	A276-316+H/F
5	Gasket	Grafoil + 304 Spiralwound	Grafoil + 304 Spiralwound	Grafoil + 316 Spiralwound
6	Cover Bolt	A193-B7	A193-B8	A193-B8
7	Spring	SUS 304	SUS 304	SUS 316
8	Flange	A105	A182-F304	A182-F316

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

TEST PRESSURE TO API 598

CLASS	SHELL TEST (water)	SEAT TEST (water)	SEAT
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)

PSIG

DIMENSION TABLE:

DN	NPS	Ø d	L	L1			H	SOCKET WELD		SCREWED		WT.(Kg) SW / NPT
				150#	300#	600#		Ø F	B	d1	S	
15	1/2	10	79	108	152	165	48	22	10	1/2" NPT	13.5	1.3
20	3/4	14	92	118	178	191	48	27	13	3/4" NPT	14.0	1.6
25	1	18	111	127	203	216	63	34	13	1" NPT	17.5	2.9
40	1 1/2	28	152	165	229	241	85	49	13	1 1/2"	18.5	6
50	2	34	172	203	267	292	104	61	16	2" NPT	19.0	9.7

FORGED STEEL CHECK VALVES – ANSI CLASS 150~800

DESIGN DESCRIPTION:

- BOLTED COVER
- LIFT TYPE

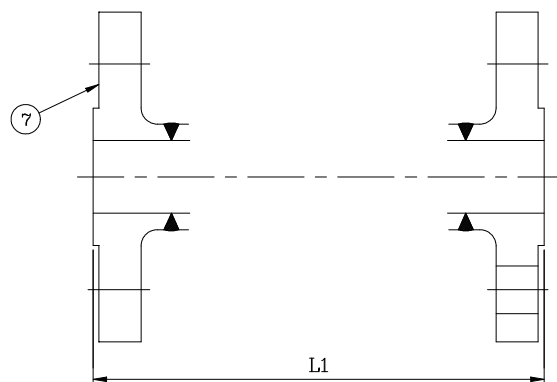
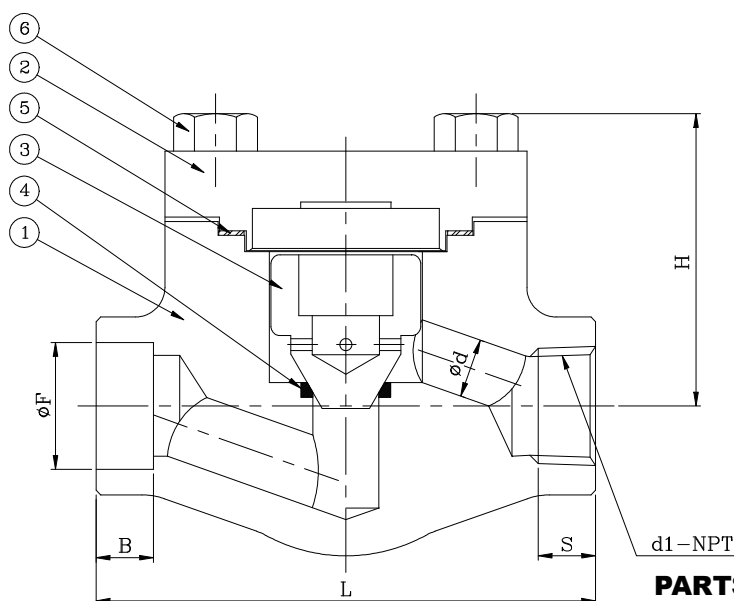
APPLICABLE STANDARDS:

- DESIGN PER API 602
- 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

SOCKET WELD ENDS

SCREWED ENDS

FLANGED ENDS



Flanged Ends

PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		A105	A182-F304	A182-F316
1	Body	A105	A182-F304	A182-F316
2	Cover	A105	A182-F304	A182-F316
3	Disc	A276-410	A276-304	A276-316
4	Seat	A276-410+H/F PTFE	A276-304+H/F PTFE	A276-316+H/F PTFE
5	Gasket	Grafoil + 304 Siralwound	Grafoil + 304 Siralwound	Grafoil + 316 Siralwound
6	Cover Bolt	A193-B7	A193-B8	A193-B8
7	Flange	A105	A182-F304	A182-F316

TEST PRESSURE TO API 598

CLASS	SHELL TEST (water)	SEAT TEST (water)	SEAT PSIG
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)

DIMENSION TABLE:

DN	NPS	Ød	L	L1			H	SOCKET WELD		SCREWED		WT.(Kg) SW / NPT
				150#	300#	600#		ØF	B	d1	S	
15	1/2	10	79	108	152	165	48	22	10	1/2" NPT	13.5	1.3
20	3/4	14	92	118	178	191	48	27	13	3/4" NPT	14.0	1.6
25	1	18	111	127	203	216	63	34	13	1" NPT	17.5	2.9
32	1 1/4	24	152	127	203	216	85	43	13	1 1/4"	18.0	6.0
40	1 1/2	28	152	165	229	241	85	49	13	1 1/2"	18.5	6.2
50	2	34	172	203	267	292	104	61	16	2" NPT	19.0	9.7

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

FORGED STEEL CHECK VALVES – ANSI CLASS 150~800

DESIGN DESCRIPTION:

- BOLTED COVER
- SWING TYPE

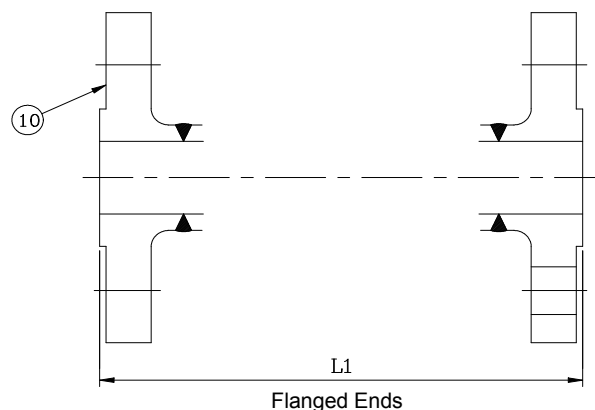
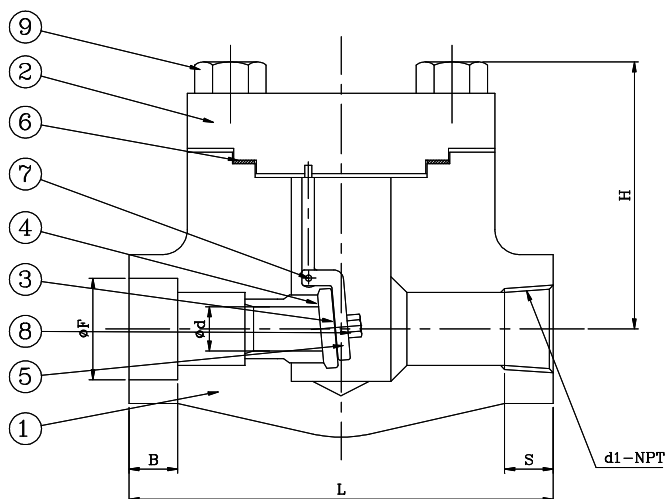
APPLICABLE STANDARDS:

- DESIGN PER API 602
- 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

SOCKET WELD ENDS

SCREWED ENDS

FLANGED ENDS



PARTS AND MATERIAL (ASTM)

NO.	PARTS NAME	MATERIALS		
		A105	A182-F304	A182-F316
	Body	A105	A182-F304	A182-F316
2	Cap	A105	A182-F304	A182-F316
3	Disc	A276-410	A276-304+H/F STL #6	A276-316+H/F STL #6
4	Seat	A276-410+H/F STL #6	A276-304+H/F STL #6	A276-316+H/F STL #6
5	Hinge	A351-CF8M	A351-CF8M	A351-CF8M
	Gasket	Grafoil + 304 Siralwound	Grafoil + 304 Siralwound	Grafoil + 316 Siralwound
7	Pin	A276-410	A276-304	A276-316
8	Lock Nut	A194-8	A194-8	A194-8
9	Cap Bolt	A193-B7	A193-B8	A193-B8
10	Flanged	A105	A182-F304	A182-F316

TEST PRESSURE TO API 598

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)

PSIG

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

DIMENSION TABLE:

DN	NPS	Ød	L	L1			H	SOCKET WELD		SCREWED		WT.(Kg) SW / NPT
				150#	300#	600#		ØF	B	d1	S	
15	1/2	13.0	79	108	152	165	48	22	10	1/2" NPT	13.5	1.3
20	3/4	13.0	92	118	178	191	48	27	13	3/4" NPT	14.0	1.6
25	1	19.0	111	127	203	216	63	34	13	1" NPT	17.5	2.9
40	1 1/2	29.5	120	165	229	241	85	49	13	1 1/2"	18.5	6
50	2	37.0	140	203	267	292	104	61	16	2" NPT	19.0	9.7



- 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

Geko Union GmbH & Co. KG

Blumenfeldstraße 21 | 44895 Bochum | Germany
Phone:+49(0)711 21570744 | Fax:+49(0)711 21570744
E-mail:info@geko-union.com
www.geko-union.com