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DIE ERSTE INDUSTRY CO., LTD.
www.die-erste.com

API 603 Stainless Steel Gate Valve

Model: TC-603FT Rating: Class 150 ~300

Design feature:

- Applications for Hydraulic, Chemical, Steam, Oil/ Gas, Oxygen, Vacuum.
- Investment Cast Stainless Steel Body & Bonnet.
- Bolted Bonnet Outside Screw And Yoke.
- Rising Stem And Handle wheel
- Yoke Integral With Bonnet.
- Wedge Disc.
- Integral Stainless Steel Seat.
- DIN 50049-3.1 Certificate Available

Specifications:

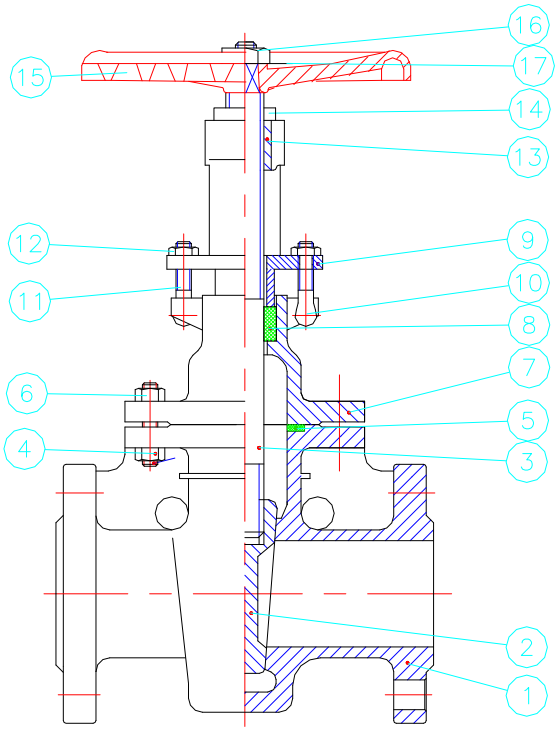
- Flow bore: full port.
- Rating: ANSI Class150/ 300; JIS 10K/ 20K; DIN PN16
- Temperature:
  -20°F ~ 400°F(PTFE Packing & Gasket)
  -20°F ~ 800°F(Graphite Packing & Gasket)
- Materials: ASTM A351 CF8M,CF8,CF3M, CF3
- Size range: 1/2”~12”

Standard:

- Basic Design to API 603; ASME B16.34
- Flange dimension according to ANSI B16.5
- Face-to-face meets to ANSI B16.10
- Inspection & testing according to API 598

Materials List:

No.	Part Name	Material
1	Body	ASTM A351 CF8M/ CF8
2	Disc	ASTM A351 CF8M/ CF8
3	Stem	ASTM A276 Gr.316 / 304
4	Bolt	SS 304
5	Gasket	PTFE
6	Nut	A194 B8
7	Bonnet	ASTM A351 CF8M/ CF8
8	Stem Packing	PTFE
9	Gland Flange	CF8
10	Hinge Pin	SS 304
11	Eye Bolt	SS 304
12	Nut	A194 B8
13	Yoke Sleeve	Bronze
14	Washer	Bronze
15	Handwheel	Ductile Iron
16	Nut	Bronze
17	Nameplate	SS 304



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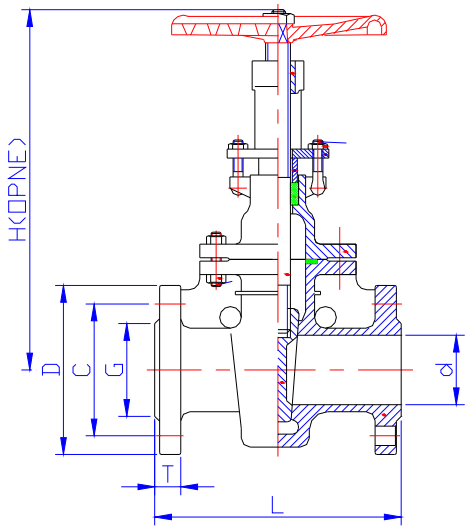

ASNI Class 150 & JIS 10K Dimensions

Size	d	L	H	W	D		C		G		T	
					150	10K	150	10K	150	10K	150	10K
1/2	15	108	183	120	89	95	60.5	70	35	51	11.1	12
3/4	20	117	190	120	98	100	70	75	43	56	11.1	14
1	25	127	210	120	108	125	79.5	90	51	67	11.1	14
1-1/4	32	140	270	200	117	135	89	100	64	76	12.7	16
1-1/2	40	165	270	200	127	140	98.5	105	73	81	14.3	16
2	50	178	320	200	152	155	120.5	120	92	96	15.9	16
2-1/2	65	190	375	200	178	175	139.5	140	105	116	17.5	18
3	80	203	445	250	190	185	152.5	150	127	126	19.1	18
4	100	229	523	250	229	210	190.5	175	157	151	23.9	18
5	125	254	606	300	254	250	216	210	186	182	23.9	20
6	150	267	710	300	279	280	241.5	240	216	212	25.4	22
8	200	292	910	350	343	330	298.5	290	270	262	28.6	22
10	250	330	1117	400	406	400	362	355	324	324	30.2	24
12	300	356	1324	400	483	445	432	400	381	368	31.8	24

ASNI Class 300 & JIS 20K Dimensions

Size	d	L	H	W	D		C		G		T	
					300	20K	300	20K	300	20K	300	20K
1/2	15	140	197	120	95	95	66.5	70	35	52	14.3	14
3/4	20	152	211	120	117	100	82.5	75	43	58	15.9	16
1	25	165	232	120	124	125	89	90	51	70	17.5	16
1-1/2	40	190	283	250	156	140	114.5	105	73	85	20.7	18
2	50	216	353	250	165	155	127	120	92	100	22.3	18
2-1/2	65	241	404	250	190	175	149	140	105	120	25.4	20
3	80	283	470	250	210	200	168	160	127	135	28.6	22
4	100	305	560	300	254	225	200	185	157	160	31.8	24
5	125	381	626	300	279	270	235	225	186	195	35	26
6	150	403	753	350	318	305	270	260	216	230	36.6	28
8	200	419	968	400	381	350	330	305	270	275	41.3	30
10	250	457	1117	400	444	430	387.5	380	324	345	41.7	34
12	300	502	1380	500	521	480	451	430	381	395	50.8	36

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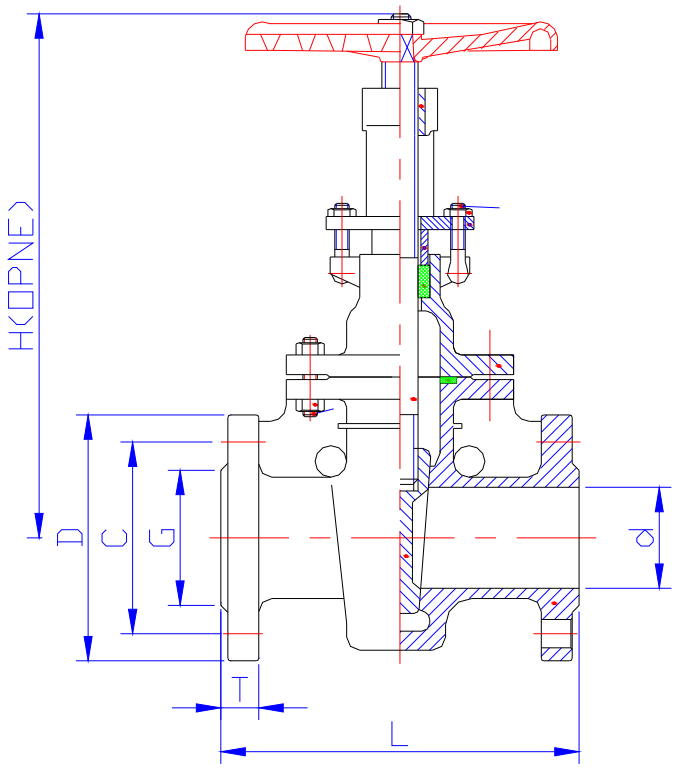

DIN PN16 Dimensions

Size	d	L	H	W	D	C	G	T
15	15	130	130	120	95	65	45	14
20	20	150	150	120	105	75	58	16
25	25	160	160	120	115	85	68	16
32	32	180	180	200	140	100	78	16
40	40	200	200	200	150	110	88	16
50	50	230	230	200	165	125	102	18
65	65	290	290	200	185	145	122	18
80	80	310	310	250	200	160	138	20
100	100	350	350	250	220	180	158	20
125	125	400	400	300	250	210	188	22
150	150	480	480	300	285	240	212	22
200	200	600	600	350	340	295	268	24
250	250	730	730	400	405	355	320	26
300	300	850	850	400	460	410	378	28

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