

VTI GATE VALVES



VTI GATE VALVE (150/300/600 CLASS)

FEATURES

- OS & Y type, Bolted bonnet.
- Low operating Torque.
- Design Std.: API 600, Testing as per API 598.
- Face to Face Dimensions as per ANSI b 16. 10
- Flange drilling as per ANSI B 16.5, RF Serrated.
- Valves with back seat arrangement.
- Deep stuffing box to accommodate more packing rings.

ON REQUEST

- API 6D Design
- Extended bonnet for Cryogenic Service.
- Locking arrangement.
- Gear / Electrical Actuator.
- Ring joint Facings / Buttweld ends.
- NACE as per MR-01-75
- Stellite / Hard faces

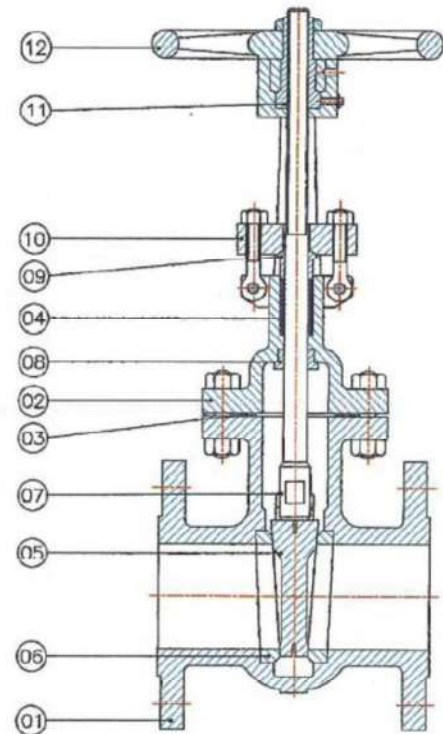
PLEASE CONSULT US

- Design as per API 6D
- High Temp. / Cryogenic Service
- Other material
- Other trim material
- Jacketed valves.

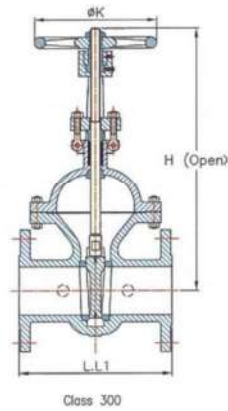
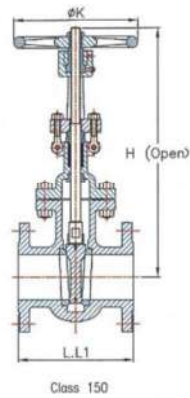
Material of Construction

01. Body	: WCB/LCB/CF8/CF8M
02. Bonnet	: WCB/LCB/CF8/CF8M
03. Gasket	: Sp. Wound SS304/316 with Graphoil/PTFE
04. Gland Packing	: Graphoil/PTFE
05. Wedge Facing	: 13% cr./CF8/CF8M/Monel
06. Seat Facing	: 13% cr./CF8/CF8M/Monel
07. Stem	: SS410/ SS304 / SS316 / Monel
08. Back Seat	: SS410/ SS304 / SS316 / Monel
09. Gland Bush	: SS410/ SS304 / SS316 / Monel
10. Gland Flange	: SS410/ SS304 / SS316 / Monel
11. Yoke Sleeve	: A 439-D2 / Al. Bronze
12. Hand Wheel	: Malleable iron / Cast Steel

All fasteners are as per A193 Gr. B7 / A197 Gr. 2H. Other grades on request.



VTI GATE VALVE (150/300/600 CLASS)



SIZE	L			H(Open)			K, dia			Weight (Kgs)		
CLASS	150	300	600	150	300	600	150	300	600	150	300	600
50	178	216	292	425	430	440	200	200	250	22	28	38
65	191	241	330	435	475	500	200	200	250	29	40	61
80	203	282	356	535	535	545	250	250	300	37	53	68
100	228	305	432	600	605	720	250	300	350	56	80	123
125	254	381	508	705	715	730	280	300	400	78	125	178
150	267	403	559	800	845	850	300	350	500	84	245	225
200	292	419	660	1010	1075	1200	350	450	600	138	360	430
250	330	457	787	1250	1260	1390	450	500	600	210	532	730
300	355	502	838	1385	1425	1580	500	500		310	425	850
350	381	762	889	1575	1585	1655	*	*	*	450	950	1300
400	406	828	991	1825	1845	1905	*	*	*	565	1350	1750
450	432	914	1092	1950	1995	2010	*	*	*	740	1648	2250
500	457	1990	1194	2080	2175	2275	*	*	*	927	2350	2450
600	508	1143	1397	2425	2650	2810	*	*	*	1125	2900	4100
650	559	1244	1448	2750	2850	4170	*	*	*	1425	3400	
700	609	1376	1550	2825	3050	3520	*	*	*	1550	4100	
750	609	1397	1651	3175	3270	3840	*	*	*	1950	4400	
800	660	1524	1780	3473	3740	4050	*	*	*	2200	7000	
900	711	1730		3600	3875		*	*		3050		
1000	812			4100			*	*		3265		
1050	860	1905		4500	4078		*	*		4250		
1200	915	2330		5167	5100		*	*		6700		

Notes:

:All Dimensions are in mm

:All data is for information and only subject to change without notice

:*Gear operator suggested

VTI CAST STEEL GATE VALVE (900/1500/2500 CLASS)

FEATURES

- OS & Y type, pressure sealed bonnet.
- Design Std.: API 600/ANSI B 16.34, Testing as per API 598.
- Low operating Torque.
- Face to Face Dimensions as per ANSI B 16. 10
- Flange drilling as per ANSI B 16.5, RF Serrated.
- Valves with back seat arrangement.
- Flexible Wedge
- Deep stuffing box to accommodate more packing rings.

ON REQUEST

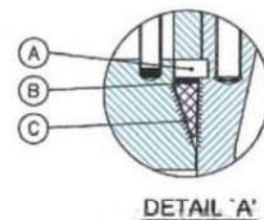
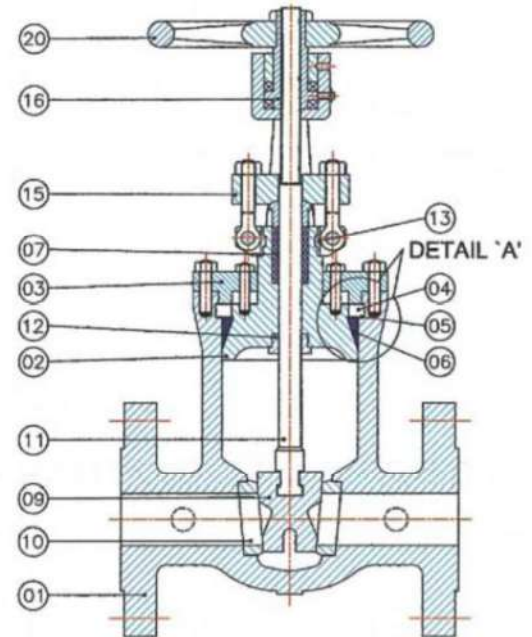
- API 6D Design
- Extended bonnet for Cryogenic Service.
- Locking arrangement.
- Gear / Electrical Actuator.
- Ring joint Facings / Buttweld ends.
- Valves as per NACE, std MR-01-75

PLEASE CONSULT US

- Design as per API 6D
- Bolted Bonnet
- High Temp. / Cryogenic Service
- Other material
- Other trim material
- Jacketed valves

Material of Construction

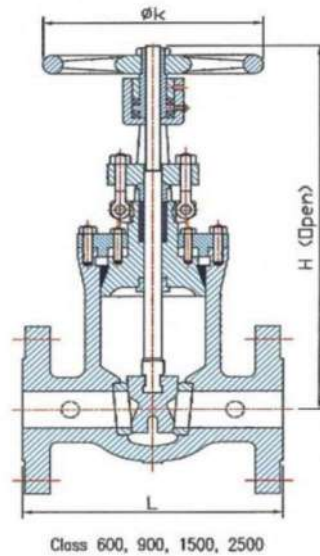
01. Body	: WCB/LCB/CF8/CF8M
02. Bonnet	: WCB/LCB/CF8/CF8M
03. Yoke	: WCB/LCB/CF8/CF8M
04. Back Up Ring	: WCB/LCB/CF8/CF8M
05. Thrust Ring	: WCB/LCB/CF8/CF8M
06. Gasket	: Graphite / Sp. Wound SS304 with Graphite
07. Gland Packing	: Expanded Graphite
08. Wedge Facing	: 13% cr.stellited/CF8/CF8M
09. Seat Facing	: 13% cr.stellited/CF8/CF8M
10. Spindle	: SS410/ SS304 / SS316
11. Back Seat	: SS410/ SS304 / SS316
12. Gland Bush	: SS410/ SS304 / SS316
13. Gland Flange	: CS / Suitable for Body Material
14. Yoke Sleeve	: A 439-D2 / Al. Bronze
15. Hand Wheel	: Malleable iron / Cast Steel



- A. Back up Ring: Absorbs thrust applied by internal pressure
- B. Thrust Ring: Protects the soft metallic gasket from deformation
- C. Gasket: Unique angular design provides superior sealing

All fasteners are as per A193 Gr. B7 / A197 Gr. 2H. Other grades on request.

VTI CAST STEEL GATE VALVE (900/1500/00 CLASS)



Class 600, 900, 1500, 2500

SIZE	L			H(Open)			K, dia			Weight (Kgs)		
CLASS	900	1500	2500	900	1500	2500	900	1500	2500	900	1500	2500
50	370	370	451	607	607	633	300	300	*	96	96	135
65	419	419		610	775		350	350		115	140	
80	381	470	578	610	775	762	350	350	*	125	175	250
100	457	546	673	730	912	885	350	350	*	190	300	495
125												
150	610	705	914	970	1135	1243	500	700	*	400	675	1590
200	737	832	1022	1190	1333	1391	600	800	*	665	1100	2440
250	838	990	1270	1446	1443	1822	800	900	*	950	2000	4574
300	965	1130	1422	1695	900	1968	800	900	*	1255	**	7180
350	1030	1260		1848	900		900	900		1885	**	
400	1130	1385		2030	900		900	900		2530	**	
450	1220	1537		2350	1000		900	1000		2615	**	
500	1321	1665		2528	1000		1000	1000		3570	**	
600	1550	1943		3070	1000		1200	1200		**	**	
650	*						*			**		
700	*						*			**		
750	*						*			**		
800	*						*			**		
900	*						*			**		

Notes:

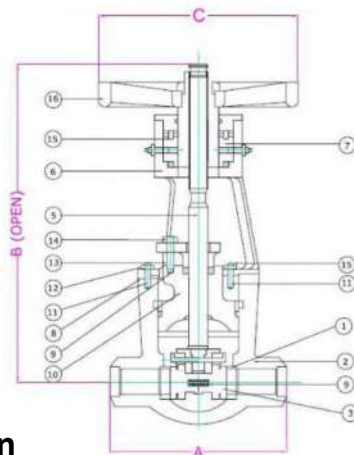
:All Dimensions are in mm

:All data is for information and only subject to change without notice

:*Gear operator suggested

:Dimension on request

VTI Pr. Seal Bonnet Gate Valve – ASME, Class 900, 1500, 2500



Standard Material of Construction

SR. NO	Description		Material	
1	Body	ASTMA216 Gr. WCB	ASTMA216 Gr. WC6	ASTM A217 Gr. WC9
2	Body Seat Ring	ASTM A216 Gr. WCB+HF*	ASTMA217 Gr. WC6+HF*	ASTM A217 Gr. WC9+HF*
3	Disc	ASTMA216 Gr. WCB+HF*	ASTM A217 Gr. WC6+HF*	ASTM A217 Gr. WC9+HF*
4	Bonnet	ASTM A216 Gr. WCB	ASTMA217 Gr. WC6	ASTM A217 Gr. WC9
5	Stem		13% Cr. Steel	
6	Yoke		ASTM A216 Gr. WCB	
7	Yoke Sleeve		ASTM A439 Type D2	
8	Packing		Graphite with braided end rings	
9	Springs		Inconel X750/Nimonic90	
10	Gasket		Graphite	
11	Stud		ASTM A193 Gr. 87	
12	Stud Nut		ASTM A194 Gr. 2H	
13	Gland Stud		ASTM A193 Gr. 87	
14	Gland Nut		ASTM A794 Gr. 2H	
15	Thrust Ball Bearing		Steel	
16	Handwheel		Steel/Malleable Iron/SG Iron	

***HF- Hard-Faced with Satellite #6 or Equivalent**

VTI Pr. Seal Bonnet Gate Valve – ASME, Class 900, 1500, 2500

Dimensional Details (in mm) & weights (in Kg)

Valve Size	A	B	C	Wt.	A	B	C	Wt.	A	B	C	Wt.
	Class 900				Class 1500				Class 2500			
50(2")	216	470	229	45	216	470	229	45	279	450	229	50
80(3")	305	580	305	55	305	580	305	60	368	710	457	120
100(4")	356	730	356	95	406	730	356	105	457	720	457	140
150(6")	508	890	508	190	559	890	508	230	610	925	610	305
200(8")	660	1040	686	350	711	1375	508	440	762	1370	762	685
250(10")	787	1540	762	710	864	1540	762	850	914	1490	762	1270
300(12")	914	1785	762	1000	991	1720	762	1045	1041	1690	762	1895
350(14")	991	1825	762	1145	1067	1730	762		1118	1850	762	
400(16")	1092	2050	762		1194	2100	762		1245	2050	762	
450(18")					1346	2150	762		1397	2300	762	
500(20")					1473	2500	762					
600(24")												

2 valves are in flexible wedge design Valves in sizes of 10" and above in class 900 and 8" and above in classes 1500 and 2500 are supplied with gear unit

VTI FORGED STEEL GATE VALVE – (800 / 1500 / 2500 CLASS)

FEATURES

- OS & Y type, bolted bonnet.
- Design Std.: API 602/ANSI B 16.34, Testing as per API 598
- Low operating Torque.
- Valves with back seat arrangement.
- Solid Wedge
- Deep stuffing box to accommodate more packing rings.
- Screwed to BSP as per Bs21/ASNI/ASME B 1.20 NPT.
/ Socket welds to B16.11/Buttweld ends as per B16.25

ON REQUEST

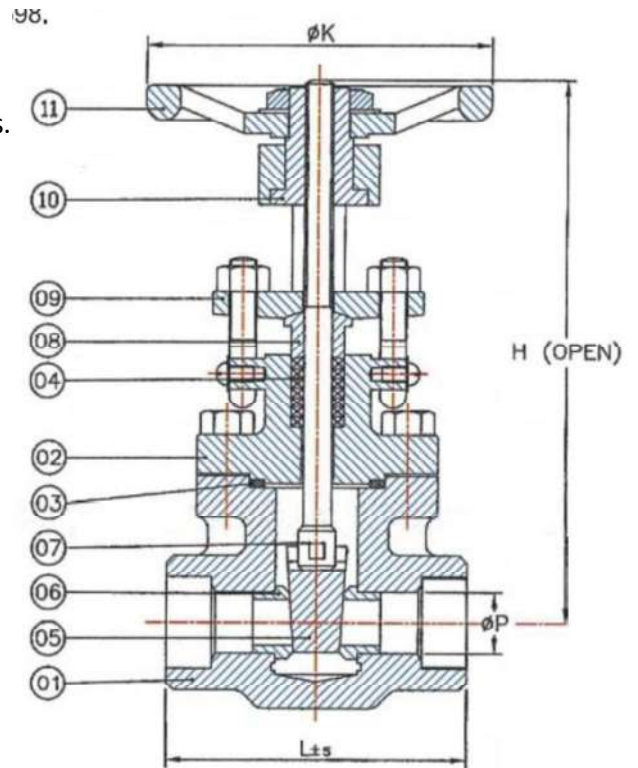
- API 6D Design
- Full bore construction
- Extended bonnet for Cryogenic Service.
- Locking arrangement.
- NACE as per MR-01-75
- Welded Bonnet
- Stellite / Hard Faces

PLEASE CONSULT US

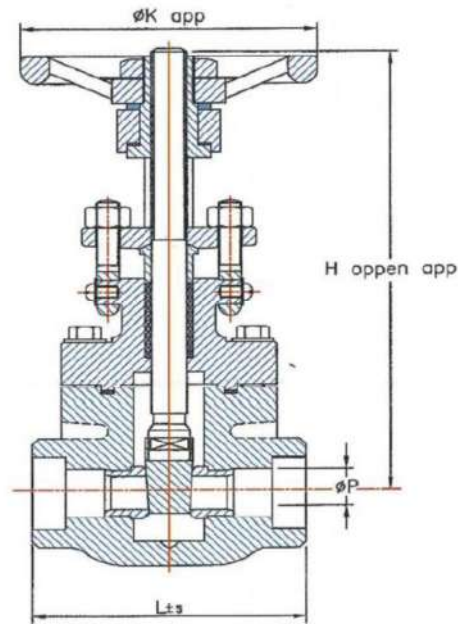
- High Temp. / Cryogenic Service
- Other material
- Other trim material

Material of Construction

- | | |
|-------------------|---|
| 01. Body | : A 105/A182 Gr. 304/316 |
| 02. Bonnet | : A105/A182 Gr. 304/316 |
| 03. Gasket | : Sp. Wound SS304/316 with Graphite/PTFE Filter |
| 04. Gland Packing | : Graphoil/PTFE |
| 05. Wedge Facing | : 13% cr./SS304/316 |
| 06. Seat | : 13% cr./SS304/316 |
| 07. Stem | : F6/304/316 |
| 08. Gland Bush | : A105/suitable to Body Material. |
| 09. Gland Flange | : Forged Steel |
| 10. Yoke Sleeve | : A 439-D2/Al. Bronze. |
| 11. Hand Wheel | : Malleable iron / Cast Steel |
- All Fasteners are as per A193 Gr. B7 / A194 Gr. 2H. Other grades on request.*



VTI FORGED STEEL VALVE (800 / 1500 / 2500)



Dimensions

SIZE	L			H			K(DIA.)			Wt. (Kgs.)		
CLASS	800	1500	2500	800	1500	2500	800	1500	2500	800	1500	2500
8	88			162			110			2.5		
10	88			162			110			2.5		
15	92	92	150	176	176	293	110	110	130	2.65	3.3	10
20	106	106	150	185	207	300	110	110	130	3.5	4	10.3
25	106	128	150	195	234	390	110	110	250	3.5	10	22.4
40	128	140	235	271	277	435	170	17	300	8	13.6	38
50	140	150	235	278	325	435	170	180	300	10	18	38

Notes:

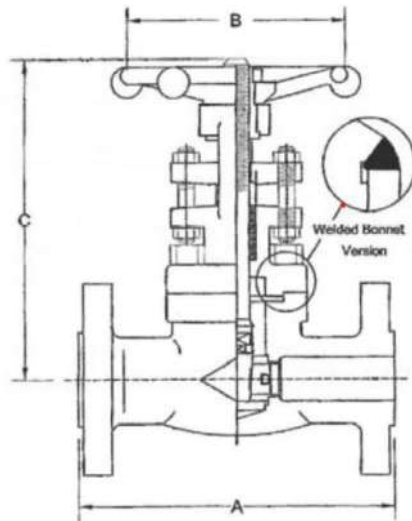
- : All Dimensions are in mm
- : All data is for information and only subject to change without notice
- : For reduced Bore only
- : Face to Face as per manufacture's std.

VTI GATE VALVE WITH INTEGRAL FLANGES

CLASS 1500-300-600

BOLTED BONNET - REGULAR PORT - API 602 - BS 5352

Outside Screw & Yoke - Integral Flanged Ends according to ANSI B16.5



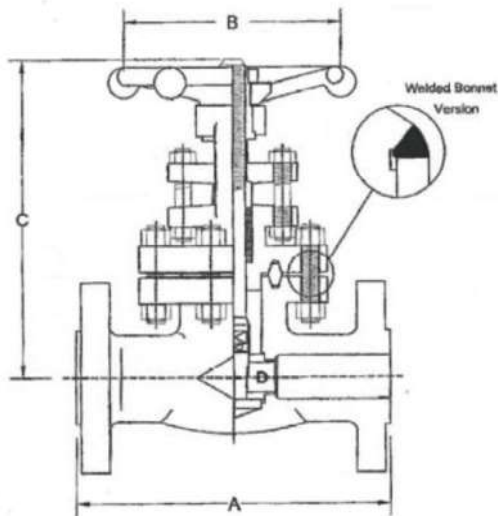
RATING: Carbon Steel
 Class 150 - 285 p.s.i @ 100°F
 Class 300 - 740 p.s.i @ 100°F
 Class 600 - 1480 p.s.i @ 100°F

REGULAR PORT			15	20	25	32	40	50
			mm	mm	mm	mm	mm	mm
Class 150		A	108	118	127	-	165	178
Class 300		A	140	153	165	-	191	216
Class 600		A	165	191	216	-	241	292
Handwheel		B	90	90	110	-	130	130
	Class 150/300	C	170	195	203	-	243	262
	Class 600	C	148	163	178	-	243	262
Dia. Of Port		D	10	14	19	-	30	37
Approx. Weight	Class 150	Kg/Lb	3.4	3.8	5.7	-	9.7	13.2
	Class 300	Kg/Lb	3.9	5	6.2	-	12	16.5
	Class 600	Kg/Lb	4	5.2	7.5	-	15	20.5

CLASS 1500-2500

ROUND BOLTED BONNET RJ - FULL PORT - BS 5352 – B16.34

Outside Screw & Yoke - Integral Flanged Ends according to ANSI B16.5



RATING: Carbon Steel
 Class 1500 - 3705 p.s.i @ 100°F
 Class 2500 - 6170 p.s.i @ 100°F

REGULAR PORT			15	20	25	32	40	50
			mm	mm	mm	mm	mm	mm
Class 150		A	216	229	254	-	305	368
Class 300		A	264	273	308	-	384	451
Class 600		A	110	130	130	-	250	300
Handwheel		B	130	130	250	-	300	300
	Class 150/300	C	260	300	300	-	390	420
	Class 600	C	332	331	370	-	435	570
Dia. Of Port		D	13	17	21	-	33	37.5
Approx. Weight	Class 150	Kg/Lb	11	17	21	-	33	37.5
	Class 300	Kg/Lb	11	16	19.5	-	34	61
	Class 600	Kg/Lb	19.5	21.5	42	-	65	95