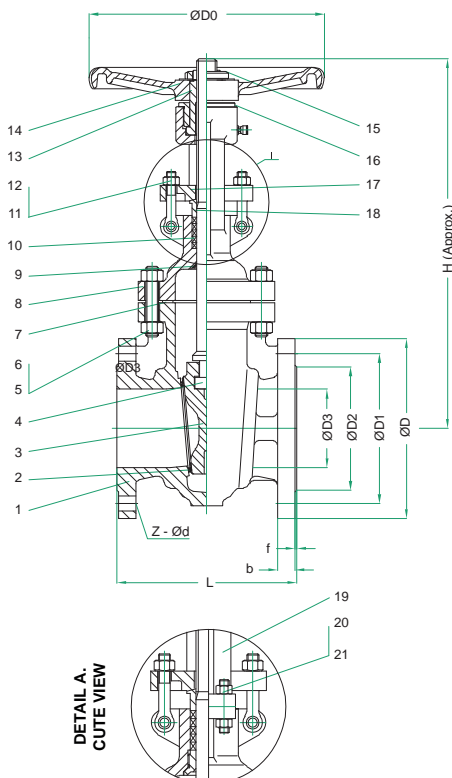




Features / Design

- 1.- Cast Steel, OS&Y Design.
- 2.- Standard Configuration: Flexible Wedge & Integral Seat Rings.
- 3.- Sizes 2" to 52", Class 150# to 2500#.
- 4.- Basic design API 600 & ANSI B16.34.
- 5.- Butt Weld ends according to ANSI B16.25.
- 6.- Flanged ends dimensions ANSI B16.5 ($\varnothing \leq 24"$), ASME B16.47 ($\varnothing > 24"$).
- 7.- Shell W.T.⁽¹⁾ API 600, ANSI B16.34.
- 8.- Face to face acc. to ANSI B16.10.
- 9.- Inspection & Testing API 598.
- 10.- All trim available upon request.

Design for Class ASME 150# - 2" to 16"



Material List⁽²⁾

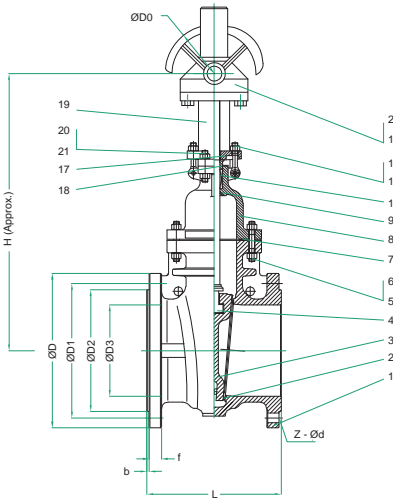
NO.	DESCRIPTION	MATERIAL	
		TRIM 5	TRIM 10
1	BODY	A216 WCB + 13%Cr	A351 CF8M
2	SEAT	A216 WCB + STL6#	A351 CF8M
3	WEDGE DISC	A216 WCB + STL6#	A351 CF8M
4	STEM	A276 410	A276 316
5	BONNET BOLT	A193 B7	A193 B8
6	BONNET NUT	A194 2H	A194 8
7	GASKET	SS304 + GRAPHITE ⁽³⁾	SS316 + GRAPHITE ⁽³⁾
8	BONNET	A216 WCB	A351 CF8M
9	BACK SEAT	A216 WCB + 13%Cr	A351 CF8M
10	PACKING	FLEX. GRAPHITE	FLEX. GRAPHITE
11	EYE BOLT	A193 B7	A193 B8
12	EYE NUT	A194 2H	A194 8
13	STEM NUT	B148 C95200	B148 C95200
14	HANDWHEEL	A197	A197
15	HANDWHEEL NUT	A108 1020	A108 1020
16	GLAND NUT	A194 2H	A194 8
17	GLAND FLANGE	A216 WCB	A351 CF8M
18	GLAND RING	A182 F6a	A182 F316
19	YOKE	A216 WCB	A351 CF8M
20	YOKE BOLT	A193 B7	A193 B8
21	YOKE NUT	A194 2H	A194 8
22	GEAR OPERATOR	CP ⁽⁴⁾	CP ⁽⁴⁾

NOTES:

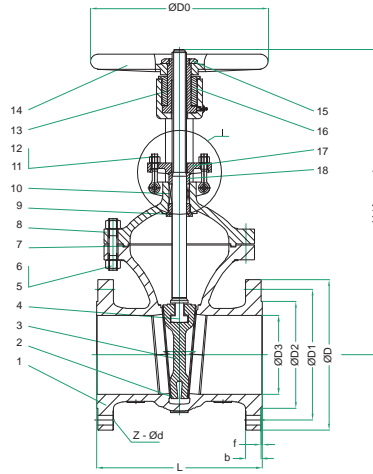
- Material List as example, other TRIMS available upon request, please contact us.
 (1) W.T. = Wall Thickness.
 (2) Material list as example, other materials and trims available; please contact us.
 (3) Flexible Graphite.
 (4) CP = Composite Parts.



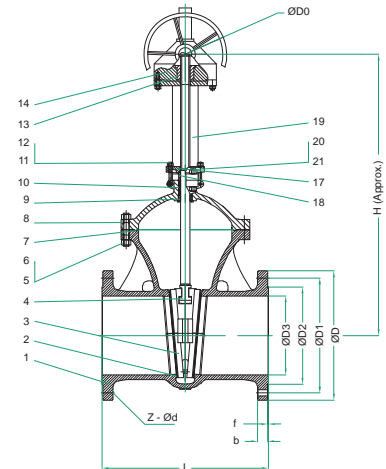
Design for Class ASME 150#
18" to 24"



Design for Class ASME 300#
2" to 12"



Design for Class ASME 300#
14" to 24"



Dimensions (inches)

ANSI CLASS 150#

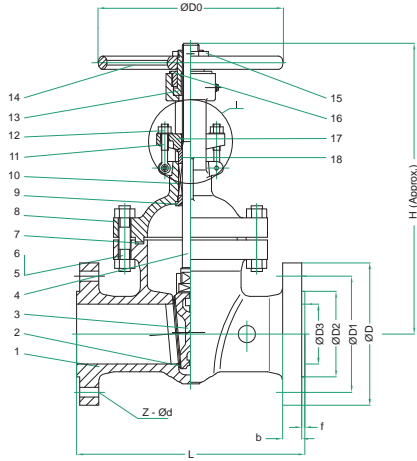
SIZE	ØD3 (in)	L (in)	H (in)	ØD0 (in)	ØD (in)	ØD1 (in)	ØD2 (in)	b (in)	f (in)	Z (in)	Ød (in)	ØA ⁽⁵⁾ (in sch. 40)	ØB ⁽⁵⁾ (in sch. 40)	CV (USgpm)	Weight (lb)	Torque (lb*in)
2"	2.008	7.008	12.795	7.874	5.906	4.752	3.626	0.563	0.079	4	0.748	2.441	2.066	-	33.510	115.044
2 1/2"	2.559	7.480	15.354	8.661	7.087	5.500	4.126	0.626	0.079	4	0.748	2.953	2.468	-	47.399	115.044
3"	2.992	7.992	16.142	9.449	7.480	6.000	5.000	0.689	0.079	4	0.748	3.583	3.068	710	60.186	132.743
4"	4.016	9.016	18.110	10.236	9.055	7.500	6.189	0.878	0.079	8	0.748	4.606	4.026	1300	83.114	238.938
6"	5.984	10.512	23.819	11.811	11.024	9.500	8.500	0.941	0.079	8	0.886	6.7722	6.066	3100	133.159	318.584
8"	7.992	11.496	28.465	13.780	13.583	11.752	10.626	1.063	0.079	8	0.886	8.780	7.982	5720	230.383	557.522
10"	10.000	12.992	35.433	15.748	15.945	14.252	12.748	1.126	0.079	12	1.004	10.945	10.022	8940	403.446	743.363
12"	12.008	14.016	41.732	17.717	19.094	17.000	15.000	1.189	0.079	12	1.004	12.953	11.943	13350	507.064	1159.292
14"	13.228	15.000	47.638	19.685	21.063	18.752	16.252	1.315	0.079	16	1.122	14.252	13.124	16275	584.213	1336.283
16"	15.236	15.984	53.150	23.622	23.425	21.252	18.500	1.378	0.079	16	1.122	16.260	15.000	21560	864.213	2079.646
18"	17.244	17.008	60.110	17.717	25.000	22.752	21.000	1.500	0.079	20	1.260	18.268	16.876	28720	1278.682	2522.124
20"	19.213	17.992	68.110	17.717	27.559	25.000	23.000	1.626	0.079	20	1.260	20.315	18.812	35760	1719.607	3017.699
24"	23.228	20.000	79.921	21.260	32.087	29.500	27.252	1.815	0.079	20	1.378	24.370	22.624	52165	3306.937	5327.434

NOTE:

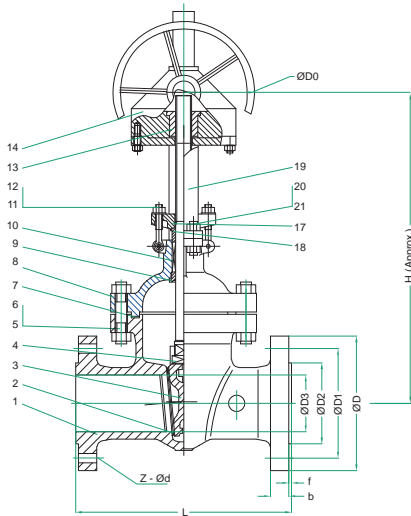
* Please consult with manufacturer.

(5) Butt weld schedule 40, for others please check with supplier.

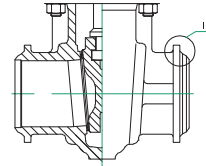
**Design for Class ASME 600#
2" to 12"**



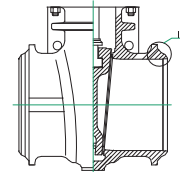
**Design for Class ASME 600#
14" to 24"**



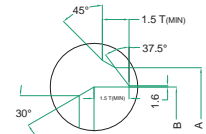
BW⁽⁵⁾ Design for 2" to 16"



BW⁽⁵⁾ Design for 18" to 24"



**DETAIL I.
CUTE VIEW**



Dimensions (inches)

ANSI CLASS 300#

SIZE	ØD3 (in)	L (in)	H (in)	ØD0 (in)	ØD (in)	ØD1 (in)	ØD2 (in)	b (in)	f (in)	Z (in)	Ød (in)	ØA ⁽⁵⁾ (in sch. 40)	ØB ⁽⁵⁾ (in sch. 40)	CV (USgpm)	Weight (lb)	Torque (lb*in)
2"	2.008	8.504	13.465	7.874	6.496	5.000	3.626	0.815	0.079	8	0.748	2.441	2.066	*	*	*
2 1/2"	2.520	9.488	15.748	8.661	7.480	5.874	4.126	0.941	0.079	8	0.886	2.953	2.468	*	*	*
3"	2.992	11.102	16.181	9.843	8.268	6.626	5.000	1.063	0.079	8	0.886	3.583	3.068	*	*	*
4"	4.016	12.008	19.961	11.811	10.039	7.874	6.189	1.189	0.079	8	0.886	4.606	4.026	*	*	*
6"	5.984	15.866	25.591	13.780	12.598	10.626	8.500	1.315	0.079	12	0.886	6.7722	6.066	*	*	*
8"	7.992	16.496	30.709	15.748	14.961	13.000	10.626	1.563	0.079	12	1.004	8.780	7.982	*	*	*
10"	10.000	17.992	38.189	17.717	17.520	15.252	12.748	1.815	0.079	16	1.122	10.945	10.022	*	*	*
12"	12.008	19.764	43.701	19.685	20.472	17.717	15.000	1.941	0.079	16	1.260	12.953	11.943	*	*	*
14"	13.268	30.000	48.031	18.110	23.031	20.252	16.252	2.063	0.079	20	1.260	14.252	13.124	*	*	*
16"	15.236	32.992	56.299	18.110	25.591	22.500	18.500	2.189	0.079	20	1.378	16.260	15.000	*	*	*
18"	17.008	35.984	59.499	23.622	27.953	24.748	21.000	2.315	0.079	24	1.378	18.268	16.876	*	*	*
20"	18.976	39.016	66.142	23.622	30.512	27.000	23.000	2.441	0.079	24	1.378	20.315	18.812	*	*	*
24"	22.992	45.000	71.654	23.622	36.024	32.000	27.252	2.689	0.079	24	1.614	24.370	22.624	*	*	*

NOTE:

* Please consult with manufacturer.

(5) Butt weld schedule 40, for others please check with supplier.



Dimensions (inches)

ANSI CLASS 600#

SIZE	ØD3 (in)	L (in)	H (in)	ØD0 (in)	ØD (in)	ØD1 (in)	ØD2 (in)	b (in)	f (in)	Z (in)	Ød (in)	ØA ⁽⁵⁾ (in) sch. 40	ØB ⁽⁵⁾ (in) sch. 40	CV (USgpm)	Weight (lb)	Torque (lb*in)
2"	2.008	11.496	13.976	7.874	6.496	5.000	3.626	1.000	0.076	8	0.748	2.441	2.066	*	*	*
2 1/2"	2.559	12.992	14.764	8.661	7.480	5.874	4.126	1.126	0.076	8	0.886	2.953	2.468	*	*	*
3"	2.992	14.016	19.929	9.843	8.268	6.626	5.000	1.252	0.076	8	0.886	3.583	3.068	*	*	*
4"	3.937	17.008	20.079	11.811	10.827	8.500	6.189	1.500	0.076	8	1.004	4.606	4.026	*	*	*
6"	5.984	22.008	26.575	13.780	13.976	11.500	8.500	1.878	0.076	12	1.122	6.7722	6.066	*	*	*
8"	7.874	25.984	34.055	17.717	16.535	13.748	10.626	2.189	0.076	12	1.260	8.780	7.982	*	*	*
10"	9.724	30.984	41.339	19.685	20.079	17.000	12.748	2.500	0.076	16	1.378	10.945	10.022	*	*	*
12"	11.732	32.992	47.244	19.685	22.047	19.252	15.000	2.626	0.076	20	1.378	12.953	11.943	*	*	*
14"	12.835	35.000	57.087	23.622	23.819	20.748	16.252	2.752	0.076	20	1.496	14.252	13.124	*	*	*
16"	14.724	39.016	62.992	23.622	26.969	23.748	18.500	3.000	0.076	20	1.614	16.260	15.000	*	*	*
18"	16.496	42.992	66.929	23.622	29.331	25.748	21.000	3.252	0.076	20	1.752	18.268	16.876	*	*	*
20"	18.268	47.008	78.740	23.622	32.087	28.500	23.000	3.500	0.076	24	1.752	20.315	18.812	*	*	*
24"	22.008	55.000	84.646	23.622	37.008	33.000	27.252	4.000	0.076	24	2.008	24.370	22.624	*	*	*

NOTE:

* Please consult with manufacturer.

(5) Butt weld schedule 40, for others please check with supplier.

How to Order

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION
				BODY	TRIM*				
50 Gate Valve OS&Y API 600	B Bolted Bonnet	F Flexible Wedge	None None	20 A216 WCB	01 Obsolete	F Flanged RF	0 ANSI 150#	02 2"	H Handwheel
			6D API 6D	21 A216 WCC	02 Obsolete	R Flanged RTJ ¹	3 ANSI 300#	2.5 2 1/2"	G Gear Operator
			N NACE	22 A350 LCB ⁽⁶⁾	05 BM+STL6/ BM+STL6/ (410 or 13Cr)	B ButtWeld	6 ANSI 600#	03 3"	E Electric Actuator
			ND NACE / API 6D	23 A352 LC3 ⁽⁶⁾	06 BM+13Cr/ Monel/ BM+13Cr		9 ANSI 900#	04 4"	E Electric Actuator
			F Fire Safe	24 A217 WC1	06 BM+13Cr/ Monel/ BM+13Cr		1 ANSI 1500#	06 6"	P Pneumatic Actuator
			O Oxigen Service	25 A217 WC6 ⁽⁷⁾	08 BM+13Cr/ BM+STL6/ (410 or 13Cr)		2 ANSI 2500#	08 8"	P Pneumatic Actuator
			FE Fugitive Emmisions	26 A217 W09 ⁽⁷⁾	08 BM+13Cr/ BM+STL6/ (410 or 13Cr)			10 10"	B Bare Shaft
			BS Bellows Seal	27 A217 C5 ⁽⁷⁾	09 Monel			12 12"	
			CR Criogenic Service	28 A217C12 ⁽⁶⁾	10 316 SS			14 14"	
			G Fire Safe / NACE	30 A351 CF8M ⁽⁸⁾	11 Monel/ Monel+STL6/ Monel			16 16"	
				31 A351 CF3M ⁽⁸⁾	12 316SS/ 316SS+STL6/ 316SS			18 18"	
				32 A351 CF8 ⁽⁸⁾	13 CN7M/CN7M/ B473			20 20"	
				33 A351 CF3 ⁽⁸⁾	14 CN7M/ CN7M+STL6/ B473			24 24"	
				40 Monel	15 304SS+STL6/ 304SS+STL6/ 304SS				
				41 Alloy 20	16 316SS+STL6/ 316SS+STL6/ 316SS				
				42 Hastelloy	17 347+STL6/ 347+STL6/ 347				
				45 Duplex	18 CN7M+STL6/ CN7M+STL6/ B473				
				46 Triballoy 900					
				47 Incolloy 800					
				48 Incolloy 825					

Example:

Gate Valve OS&Y API 600, Bolted Bonnet, Flexible Wedge, Body WCB, Trim 5, Flanged ANSI Class 150#, Size 6" with Handwheel.

50BF2005F006H

NOTES:

- * TRIM = Seat / Wedge Seat / Stem.
- * HF = Hard Faced, usually Stellite 6; other upon request.
- * BM = Body Material.
- (6) Low Temperature Service.
- (7) High Temperature Service.
- (8) Stainless Steel.
- (9) Please contact us for more available sizes.

