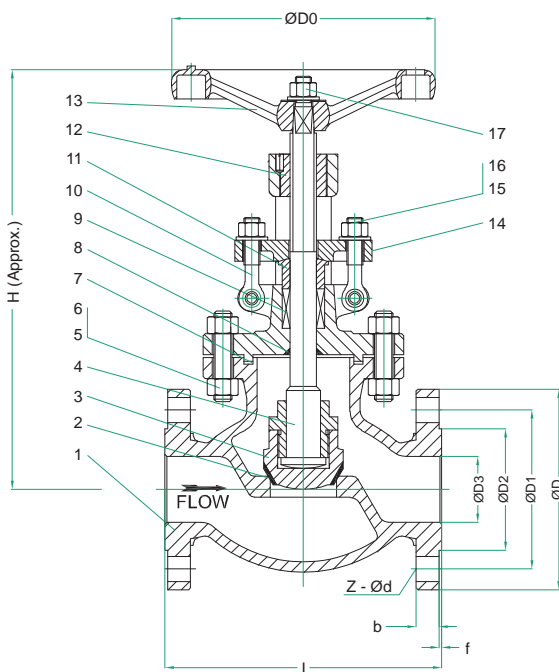




Features / Design

- 1.- Cast Steel, OS&Y Design.
- 2.- Sizes 2" to 24", Class 150# to 2500#.
- 3.- Basic design API 623 & ANSI B16.34.
- 4.- Butt Weld ends according to ANSI B16.25.
- 5.- Flanged ends dimensions ANSI B16.5 ($\varnothing \leq 24"$), ASME B16.47 ($\varnothing > 24"$).
- 6.- Shell W.T.⁽¹⁾ API 623, ANSI B16.34.
- 7.- Face to face acc. to ANSI B16.10.
- 8.- Inspection & Testing API 598.
- 9.- All trim available upon request.

Design for 2" to 12"



Material List⁽²⁾

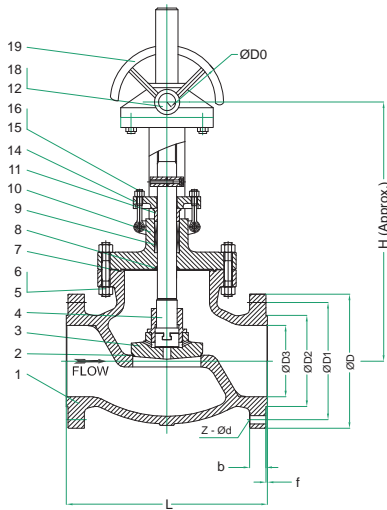
NO.	DESCRIPTION	MATERIAL	
		TRIM 8	TRIM 10
1	BODY	A216 WCB	A351 CF8M
2	SEAT	A216 WCB + STL6#	A351 CF8M
3	DISC	A216 WCB + 13%Cr	A182 F316
4	STEM	A276 410	A276 316
5	BONNET BOLT	A193 B7	A193 B8
6	BONNET NUT	A194 2H	A194 8
7	GASKET	SS304 + GRAPHITE ⁽³⁾	SS316 + GRAPHITE ⁽³⁾
8	BACK SEAT	A216 WCB + 13%Cr	A351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

NOTES:

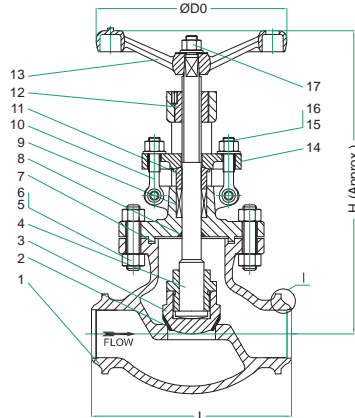
- Material List as example, other TRIMS available upon request, please contact us.
 (1) W.T. = Wall Thickness.
 (2) Material list as example, other materials and trims available; please contact us.
 (3) Flexible Graphite.
 (4) CP = Composite Parts.



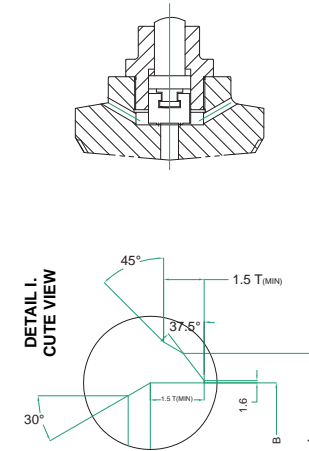
Design for 14" to 24"



Buttweld Design⁽⁵⁾
(SCH 40)



Double Disc Type for
Sizes >10"



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	7.992	12.008	7.874	5.906	4.752	3.626	0.563	0.079	4	0.748	2.441	2.066	*	33.069	221.239
2 1/2"	2.520	8.504	12.402	8.661	7.087	5.500	4.126	0.626	0.079	4	0.748	2.953	2.468	*	51.092	256.637
3"	2.992	9.488	15.354	9.449	7.480	6.000	5.000	0.689	0.079	4	0.748	3.583	3.068	100	61.729	398.230
4"	4.016	11.496	15.945	11.811	9.055	7.500	6.189	0.878	0.079	8	0.748	4.606	4.026	185	96.390	592.920
6"	5.984	15.984	20.669	13.780	11.024	9.500	8.500	0.941	0.079	8	0.886	6.7722	6.066	440	143.301	1141.593
8"	7.992	19.488	23.228	15.748	13.583	11.752	10.626	1.063	0.079	8	0.886	8.780	7.982	810	255.736	2168.142
10"	10.000	24.488	33.268	23.622	15.945	14.252	12.748	1.126	0.079	12	1.004	10.945	10.022	1260	510.902	3407.080
12"	12.008	27.480	37.402	25.591	19.094	17.000	15.000	1.189	0.079	12	1.004	12.953	11.943	1890	749.249	5318.584
14"	13.268	30.984	49.213	*	21.063	18.752	16.252	1.315	0.079	16	1.122	14.252	13.124	*	*	*
16"	15.236	35.984	57.087	*	23.425	21.252	18.500	1.378	0.079	16	1.122	16.260	15.000	*	*	*
18"	17.244	38.504	*	*	25.000	22.752	21.000	1.500	0.079	20	1.260	18.268	16.876	*	*	*
20"	19.213	38.504	*	*	27.559	25.000	23.000	1.626	0.079	20	1.260	20.315	18.812	*	*	*
24"	23.228	50.984	*	*	32.087	29.500	27.252	1.815		20	1.378	24.370	22.624	*	*	*

NOTE:

* Please consult with manufacturer.

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

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	10.512	12.402	7.874	6.496	5.000	3.626	0.815	0.079	8	0.748	2.441	2.066	*	*	*
2 1/2"	2.520	11.496	12.992	8.661	7.480	5.874	4.126	0.941	0.079	8	0.886	2.953	2.468	*	*	*
3"	2.992	12.520	15.748	9.843	8.268	6.626	5.000	1.063	0.079	8	0.886	3.583	3.068	*	*	*
4"	4.016	14.016	17.126	11.811	10.039	7.874	6.189	1.189	0.079	8	0.886	4.606	4.026	*	*	*
6"	5.984	17.480	21.654	15.748	12.598	10.626	8.500	1.378	0.079	12	0.886	6.772	6.066	*	*	*
8"	7.992	22.008	26.378	17.717	14.961	13.000	10.626	1.563	0.079	12	1.004	8.780	7.982	*	*	*
10"	10.000	24.488	31.496	19.685	17.520	15.252	12.748	1.815	0.079	16	1.122	10.945	10.022	*	*	*
12"	12.008	27.992	33.465	21.654	20.472	17.748	15.000	1.941	0.079	16	1.260	12.953	11.943	*	*	*
14"	13.268	32.992	*	*	23.031	20.252	16.252	2.063	0.079	20	1.260	14.252	13.124	*	*	*
16"	15.276	34.016	*	*	25.591	22.500	18.500	2.189	0.079	20	1.378	16.260	15.000	*	*	*
18"	*	*	*	*	27.953	24.748	21.000	2.315	0.079	24	1.378	18.268	16.876	*	*	*
20"	*	*	*	*	30.512	27.000	23.000	2.441	0.079	24	1.378	20.315	18.812	*	*	*
24"	*	*	*	*	36.024	32.000	27.252	2.689	0.079	24	1.614	24.370	22.624	*	*	*

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	14.961	9.843	6.496	5.000	3.626	1.000	0.076	8	0.748	2.441	2.066	*	*	*
2 1/2"	2.520	12.992	17.717	11.024	7.480	5.874	4.126	1.126	0.076	8	0.886	2.953	2.468	*	*	*
3"	2.992	14.016	18.110	11.811	8.268	6.626	5.000	1.252	0.076	8	0.886	3.583	3.068	*	*	*
4"	4.016	17.008	20.472	13.780	10.827	8.500	6.189	1.500	0.076	8	1.004	4.606	4.026	*	*	*
6"	5.984	22.008	27.559	19.685	13.976	11.500	8.500	1.878	0.076	12	1.122	6.772	6.066	*	*	*
8"	7.874	25.984	32.283	21.654	16.535	13.748	10.626	2.189	0.076	12	1.260	8.780	7.982	*	*	*
10"	9.724	30.984	39.370	23.622	20.079	17.000	12.748	2.500	0.076	16	1.378	10.945	10.022	*	*	*
12"	11.732	32.992	51.181	23.622	22.047	19.252	15.000	2.626	0.076	20	1.378	12.953	11.943	*	*	*
14"	12.874	35.000	*	*	23.819	20.748	16.252	2.752	0.076	20	1.496	14.252	13.124	*	*	*
16"	14.764	39.016	*	*	26.969	23.748	18.500	3.000	0.076	20	1.614	16.260	15.000	*	*	*
18"	*	42.992	*	*	29.331	25.748	21.000	3.252	0.076	20	1.752	18.268	16.876	*	*	*
20"	*	47.008	*	*	32.087	28.500	23.000	3.500	0.076	24	1.752	20.315	18.812	*	*	*
24"	*	55.000	*	*	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*				
60 Globe Valve OS&Y API 623	B Bolted Bonnet	C Conical Std. Plug	None None	20 A216 WCB	01 Obsolete	F Flanged RF	0 ANSI 150#	02 2"	H Handwheel
			N NACE	21 A216 WCC	02 Obsolete	R Flanged RTJ	3 ANSI 300#	2.5 2 1/2"	G Gear Operator
60Y Globe Valve "Y" Pattern	A Parabolic Plug	O Oxygen Service	F Fire Safe	22 A350 LCB ⁽⁶⁾	05 BM+STL6/ BM+STL6/ (410 or 13Cr)	B ButtWeld	6 ANSI 600#	03 3"	E Electric Actuator
69 Globe Valve Angle 90°			O Seated Plug	FE Fugitive Emmissions	23 A352 LC3 ⁽⁶⁾		06 BM+13Cr/ Monel/ BM+13Cr	9 ANSI 900#	04 4"
			BS Bellows Seal	24 A217 WC1	06 BM+13Cr/ Monel/ BM+13Cr		1 ANSI 1500#	06 6"	P Pneumatic Actuator
			CR Criogenic Service	25 A217 WC6 ⁽⁷⁾	08 BM+13Cr/ BM+STL6/ (410 or 13Cr)		2 ANSI 2500#	08 8"	
			G Fire Safe / NACE	26 A217 W09 ⁽⁷⁾	08 BM+13Cr/ BM+STL6/ (410 or 13Cr)			10 10"	B Bare Shaft
			LD Locking Devide	27 A217 C5 ⁽⁷⁾	09 Monel			12 12"	
			SC Stop Check	28 A217C12 ⁽⁶⁾	10 316 SS			14 14"	
				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:

Globe Valve OS&Y API 623, Bolted Bonnet, Std. Plug, Body WCB, Trim 5,
Flanged ANSI Class 150#, Size 6" with Handwheel.

60BC2005F006H

NOTES:

* TRIM = Seat Ring / Disc 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.

