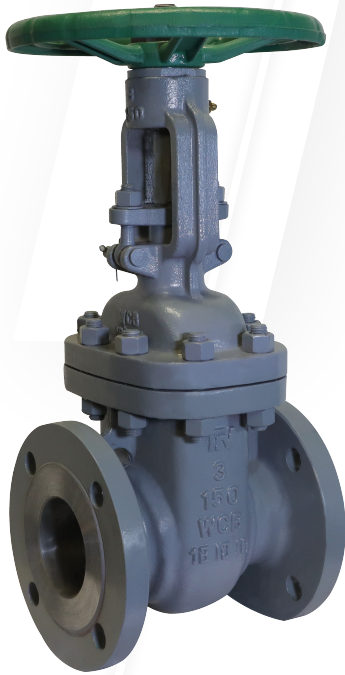


SERIES 50

Cast Steel Gate Valve.

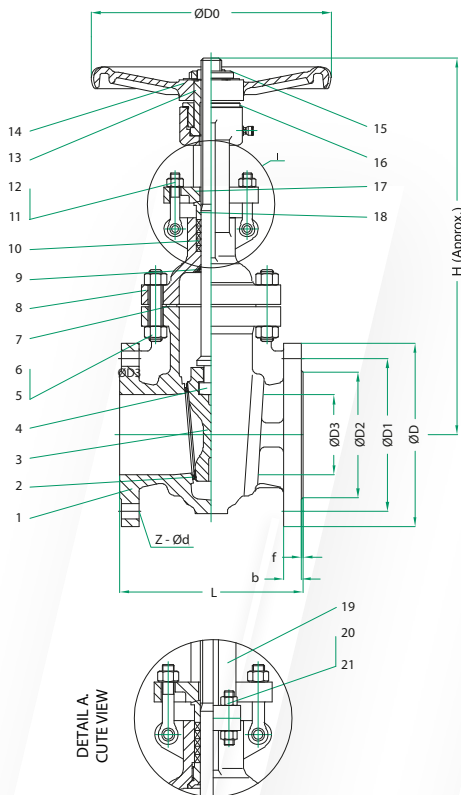


Features / Design



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

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



Standard Material List⁽²⁾

NO.	DESCRIPTION	MATERIAL	
		TRIM 5	TRIM 10
1	BODY	A216 WCB	A351 CF8M
2	SEAT	A216 WCB + STL6#	A351 CF8M
3	WEDGE DISC	A216 WCB + STL6#	A351 CF8M
4	STEM	A182 F6a	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	A182 F6a	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	Bronze	Bronze
14	HANDWHEEL	DI	DI
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.

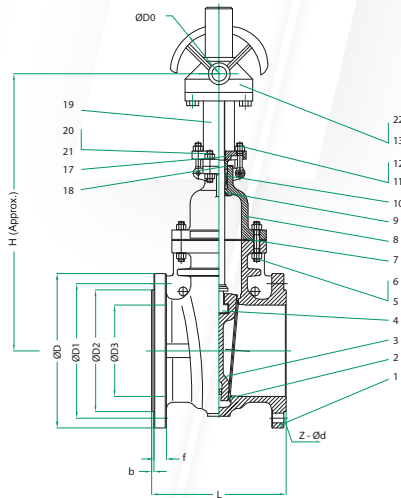
(1) W.T. = Wall Thickness.

(2) Material list as example, other materials and trims available; please contact us.

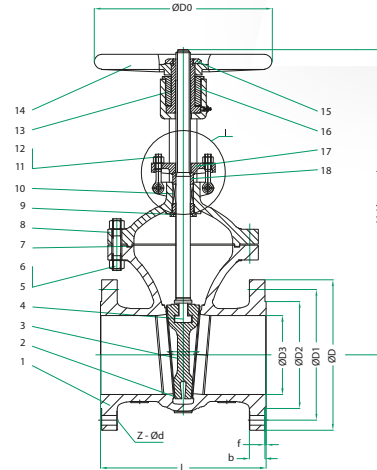
(3) Flexible Graphite.

(4) CP = Composite Parts.

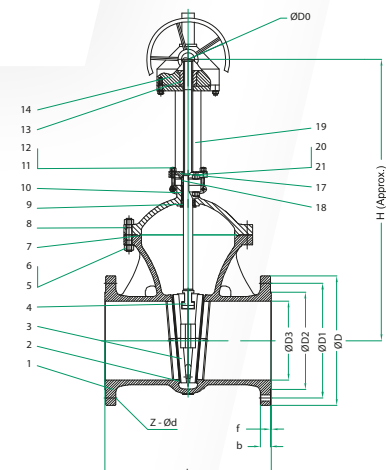
Design for Class ASME / ANSI 150#
18" to 24"



Design for Class ASME / ANSI 300#
2" to 12"



Design for Class ASME / ANSI 300#
14" to 24"



Dimensions (inches)

ASME / ANSI CLASS 150#

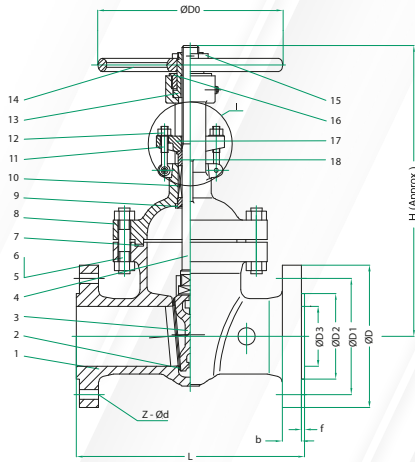
SIZE	ØD3 (in)	L (in)	H (in)	ØD0 (in)	ØD (in)	ØD1 (in)	ØD2 (in)	b (in)	f (in)	Z (in)	Ød (in)	ØA ⁽⁵⁾ (in) sch. 40	ØB ⁽⁵⁾ (in) sch. 40	CV (USgpm)	Weight (lb)	Torque (lb*in)
2"	2.008	7.008	12.795	7.874	5.906	4.752	3.626	0.563	0.079	4	0.748	2.441	2.066	-	33.510	115.044
2 1/2"	2.559	7.480	15.354	8.661	7.087	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:

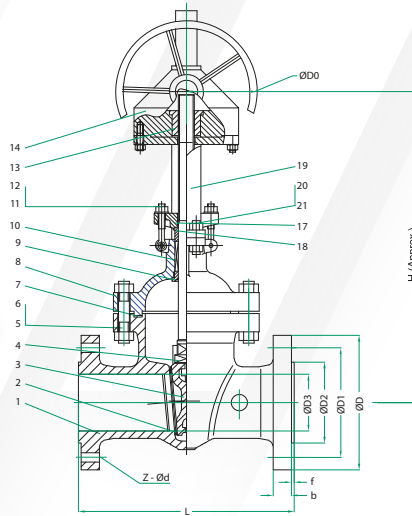
* Please consult with manufacturer.

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

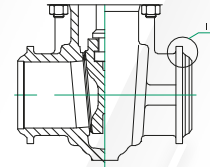
Design for Class ASME / ANSI 600#
2" to 12"



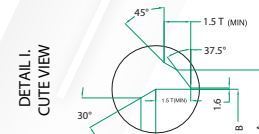
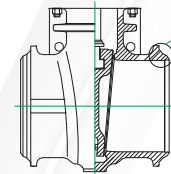
Design for Class ASME / ANSI 600#
14" to 24"



BW ⁽⁵⁾ Design for 2" to 16"



BW ⁽⁵⁾ Design for 18" to 24"



Dimensions (inches)

ASME / 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 schedule please check with TFV.

Dimensions (inches)

ASME / 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 other schedules please check with TFV.

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 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge	NN None	ND NACE MR0103 / MR0175 & Low Fugitive Emmissions	01 Bronze Aluminum ASTM B148 UNS C95200	01 OBSOLETE	FRF Flanged RF ASME B16.5F	0 ANSI 150#	02 2"	HO Solid Handwheel Operator			
			S Solid Wedge	02 Bronze Aluminum ASTM B148 UNS C95300		02 SS304 / BM + SS304 / BM+SS304	FRA Flanged RF ASME B16.47 SERIES A	3 ANSI 300#	2.5 2 1/2"	GO Gear Operator with Solid Handwheel				
51	Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats			NT NACE MR0103		03 Bronze Aluminum ASTM B148 UNS C95600	03 SS310 / BM + SS310 / BM+SS310	FRB Flanged RF ASME B16.47 SERIES B	9 ANSI 900#	04 4"	BS Bare Shaft			
				NF NACE MR0175		04 Bronze Aluminum ASTM B148 UNS C95500	04 SS410 / BM+13CR-H / BM+13CR-H	RTA Flanged RTJ ASME B16.47 SERIES A		05 5"	EA Electric Actuator			
				NM NACE MR103 & MR0175		05 Bronze Aluminum ASTM B148 UNS C95800	05 SS410 / BM+HF / BM+HF	RTB Flanged RTJ ASME B16.47 SERIES A		06 6"	PA Pneumatic Actuator			
				FA Fire Safe API 6FA		20 A216 Gr WCB	5A SS410 / BM+NiCr Alloy/ BM+NiCr Alloy	RTJ Flanged RTJ ASME B16.5		07 7"	HX ⁽¹²⁾ Extended Stem & Solid Handwheel			
				FM Fire Safe API 6FA & NACE MR0103		21 A216 Gr WCC	06 SS410 / BM+13Cr / BM+Monel	FFF Flanged FF ASME B16.1		08 8"	GX ⁽¹²⁾ Extended Stem & GearBox Operator with Solid Handwheel			
				FN Fire Safe API 6FA & NACE MR0175		22 A352 Gr LCB ⁽⁶⁾	07 SS410 / BM+13CR / BM+13CR-H			09 9"	20 20"	24 24"	36 36"	EX ⁽¹²⁾ Extended Stem & Electric Actuator
				CP Complete (Full) Port		23 A352 Gr LC3 ⁽⁶⁾	08 SS410 / BM+13CR / BM+HF	BST Buttweld SCH STD ASME B16.25/ ASME B36.10						PX ⁽¹²⁾ Extended Stem & Pneumatic Actuator
				CM Complete (Full) Port & NACE MR0103		24 A217 Gr WC1	09 Monel / Monel / Monel							HC Handwheel which has a Locking Device
				CN Complete (Full) Port & NACE MR0175		25 A217 Gr WC6 ⁽⁷⁾	10 SS316 / BM + SS316 / BM+SS316	BXS Buttweld Extra Strong wall thickness ASME B16.25/ ASME B36.10						GC GearBox Operator which has a Locking Device
				LF Fugitive Emmissions		26 A217 Gr WC9 ⁽⁷⁾	8A SS410 / BM+13CR / BM+NiCr Alloy	B10 Buttweld SCH 10 ASME B16.25/ ASME B36.10						HL Extended Stem & Handwheel which has a Locking Device
				BS Bellow Seal		27 A217 Gr C5 ⁽⁷⁾	11 Monel / Monel / BM+HF o Monel / Monel / BM+NiCr Alloy	B20 Buttweld SCH 20 ASME B16.25/ ASME B36.10						GL Extended Stem & GearBox Operator which has a Locking Device
				CY Cryogenic Service		28 A217 Gr C12 ⁽⁶⁾	12 SS316 / BM + SS316 / BM+HF o SS316 / BM + SS316 / BM+NiCr Alloy	B30 Buttweld SCH 30 ASME B16.25/ ASME B36.10						YA Hydraulic Actuator
				VS Vacuum Service		29 A217 Gr C12A	13 Alloy 20 / Alloy 20 / Alloy 20	B60 Buttweld SCH 60 ASME B16.25/ ASME B36.10						YX Extended Stem & Hydraulic Actuator
				CF FULL PORT & LFE		30 A351 Gr CF8M ⁽⁸⁾	14 ALLOY 20 / ALLOY 20 / BM + HF o ALLOY 20 / ALLOY 20 / BM + NiCr Alloy							GH ⁽¹¹⁾ GearBox Operator with Solid Handwheel And Chain Operator.
				OX Oxygen Service		31 A351 Gr CF3M ⁽⁸⁾	15 SS304 / BM+HF / BM + HF							HH ⁽¹¹⁾ Handwheel Operator with Solid Handwheel And Chain Operator.
				HD Hole in Disc ⁽¹³⁾		32 A351 Gr CF8 ⁽⁸⁾	16 SS316 / BM + HF / BM+HF							HB Extended Bonnet & Solid Handwheel
				HM Hole in Disc ⁽¹³⁾ & Nace MR 0103		33 A351 Gr CF3 ⁽⁸⁾								GB Extended Bonnet & GearBox Operator with Solid Handwheel
				HN Hole in Disc ⁽¹³⁾ & Nace MR 0175		34 A351 Gr CF8M /CF3M ⁽¹⁰⁾								BB Extended Bonnet & Bare Shaft
				BM Bellow Seal With Live Loads & Nace MR 0103		35 A351 Gr CF8 / CF3 ⁽¹⁰⁾								
				BN Bellow Seal With Live Loads & Nace MR 0175		36 A351 Gr CG8M								
				BG Bellow Seal, Nace MR 0175 & Fire Safe API 6FA		37 A351 Gr CG3M								
						38 A351 Gr CF10								
						39 V A351 Gr CF10M								
						ASTM A494 M35-1 (UNS N04400)								
						ASTM A351 CN7M (Alloy 20)								
						ASTM A494-CW12MW (Hastelloy C276)								
						ASTM A351 CD3MN (Duplex 2205)								



BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION	
				BODY	TRIM*					
50	B Bolted Bonnet	F Flexible Wedge S Solid Wedge	BA Bellow Seal With Live Loads, Nace MR 0103 & Fire Safe API 6FA	44 A351 Gr CF8C	17 SS347 / BM + HF / BM + H	B80 Buttweld SCH 80 ASME B16.25/ ASME B36.10	0 ANSI 150#	02 2"	HO	Solid Handwheel Operator
				45 ASTM A351 CN3MN (Duplex)	18 ALLOY 20 / BM + HF / BM + HF	B00 Buttweld SCH 100 ASME B16.25/ ASME B36.10	3 ANSI 300#	2.5 2 1/2"	GO	Gear Operator with Solid Handwheel
51			YP WITH BY PASS	46 ASTM A351 CD4MCu / A890 5A (Super Duplex 2507)	19 Nickel alloy / BM + Nickel alloy / BM + Nickel alloy	Buttweld SCH 120 ASME B16.25/ ASME B36.10	6 ANSI 600#	03 3"	BS	Bare Shaft
				47 ASTM A494-N12MV (Hastelloy B2)	20 Nickel alloy / Nickel alloy / Nickel alloy+HF	B12 Buttweld SCH 140 ASME B16.25/ ASME B36.10	9 ANSI 900#	04 4"	EA	Electric Actuator
			YM BY PASS & Nace MR 0103	48 ASTM A494-CY40	21 Nickel alloy / Nickel alloy + HF / Nickel alloy +HF	B14 Buttweld SCH 160 ASME B16.25/ ASME B36.10		05 5"	PA	Pneumatic Actuator
				49 ASTM B564 N08800 (Inconel 800)	22 SS321 / SS321 / SS321	B16 Buttweld SCH 160 ASME B16.25/ ASME B36.10		06 6"	HX ⁽¹²⁾	Extended Stem & Solid Handwheel
			YN BY PASS & Nace MR 0175	50 ASTM A494 M35-2 (UNS N05500)	23 SS321 / SS321 / SS321 + HF	XSF BW SCH XS- Flanged RF ASME B16.5		08 8"	GX ⁽¹²⁾	Extended Stem & GearBox Operator with Solid Handwheel
				51 ASTM A351 CK3MCuN	24 SS321 / SS321+HF / SS321 + HF	STF BW SCH STD- Flanged RF ASME B16.5		10 10"	BX ⁽¹²⁾	Extended Stem & Bare Shaft
			YG BY PASS, Nace MR 0103 & Fire Safe API 6FA	52 ASTM B367 C2 (TITANIUM)	26 Full Bronze-Aluminum	XXF BW SCH XXS- Flanged RF ASME B16.5		12 12"	EX ⁽¹²⁾	Extended Stem & Electric Actuator
				53 ASTM A995 CD3MWCuN6A (Super Duplex F55)	30 ALLOY 625 / BM + ALLOY 625 / BM + ALLOY 625	10F BW SCH 10- Flanged RF ASME B16.5		14 14"	PX ⁽¹²⁾	Extended Stem & Pneumatic Actuator
			YA BY PASS, Nace MR 0175 & Fire Safe API 6FA	54 ASTM A494 CU5MCuC (Incoloy 825)	31 HASTELLOY C276/ BM + HASTELLOY C276 / BM + HASTELLOY C276	20F BW SCH 20- Flanged RF ASME B16.5		16 16"	HC	Handwheel which has a Locking Device
				55 ASTM A494-CW6MC (Alloy 625)	32 ALLOY 825 / BM + ALLOY 825 / BM + ALLOY 825	30F BW SCH 30- Flanged RF ASME B16.5		18 18"	GC	GearBox Operator which has a Locking Device
			CB Bellow Seal	56 ASTM A494-CZ100 (Alloy 200)	33 ALLOY 625 / BM + ALLOY 625 / BM + HF	40F BW SCH 40- Flanged RF ASME B16.5		20 20"	HL	Extended Stem & Handwheel which has a Locking Device
				57 A351 Gr CF10M	34 HASTELLOY C276 / BM + HASTELLOY C276 / BM + HF	60F BW SCH 60- Flanged RF ASME B16.5		24 24"	GL	Extended Stem & GearBox Operator which has a Locking Device
			HS Wet H2S Resistant Steels (Category1) NACE MR0103	58 ASTM A217 WC5	35 ALLOY 825 / BM + ALLOY 825 / BM + HF	80F BW SCH 80- Flanged RF ASME B16.5		26 26"	YA	Hydraulic Actuator
				59 ASTM A182 F321	36 ALLOY 625 / BM + HF / BM +HF	12F BW SCH 120- Flanged RF ASME B16.5		36 36"	YX	Extended Stem & Hydraulic Actuator
			LL Live Loads in Packing Gland	60 ASTM A395	37 HASTELLOY C276 / BM + HF / BM + HF	14F BW SCH 140- Flanged RF ASME B16.5			GH ⁽¹¹⁾	GearBox Operator with Solid Handwheel And Chain Operator.
				61 GS-C25	38 ALLOY 825 / BM + HF/ BM + HF	16F BW SCH 160- Flanged RF ASME B16.5			HH ⁽¹¹⁾	Handwheel Operator with Solid Handwheel And Chain Operator.
			FD Fire Safe API 6FA, NACE MR0103/ MR0175 & LOW FUGITIVE EMISSIONS	62 ASTM 310 (HK)	39 ALLOY 2507 / BM + ALLOY 2507 / BM + ALLOY 2507	XSJ BW SCH XS- Flanged RTJ ASME B16.5			HB	Extended Bonnet & Solid Handwheel
					40 SS347 / BM + SS347/ BM + SS347				GB	Extended Bonnet & GearBox Operator with Solid Handwheel
			BL Bellow Seal With Live Loads		41 SS347 / BM + SS347/ BM + HF				BB	Extended Bonnet & Bare Shaft
			HI HIC RESISTANT STEELS (CATEGORY 2)							
			DP NACE MR0103/ MR0175 , LOW FUGITIVE EMISSIONS & PTFE PAKING							
			MP ISO 5210 "MOUNTING PLATE"							

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION	
				BODY	TRIM*					
50	Gate Valve OS&Y API 600 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge S Solid Wedge		42 ALLOY 2507 / BM + ALLOY 2507 / BM + HF	STJ BW SCH STD- Flanged RTJ ASME B16.5	0 ANSI 150#	02 2"	HO	Solid Handwheel Operator
					43 ALLOY 2507 / BM + HF/ BM + HF	XXJ BW SCH XXS- Flanged RTJ ASME B16.5	3 ANSI 300# 6 ANSI 600#	2.5 2 1/2" 03 3" 04 4"	GO	Gear Operator with Solid Handwheel
51	Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats				44 SS304H / SS304H / SS304H	10J BW SCH 10- Flanged RTJ ASME B16.5	9 ANSI 900#	05 5" 06 6"	BS	Bare Shaft
					45 SS304H / SS304H / HF	20J BW SCH 20- Flanged RTJ ASME B16.5		08 8" 10 10" 12 12"	EA PA	Electric Actuator Pneumatic Actuator
					46 SS304H / HF / HF	30J BW SCH 30- Flanged RTJ ASME B16.5		14 14" 16 16"	HX ⁽¹²⁾	Extended Stem & Solid Handwheel
					47 UNS N08810 / UNS N08810 / HF	40J BW SCH 40- Flanged RTJ ASME B16.5		18 18" 20 20" 24 24"	GX ⁽¹²⁾	Extended Stem & GearBox Operator with Solid Handwheel
					48 SS321 / SS321H+HF / SS321H+HF	60J BW SCH 60- Flanged RTJ ASME B16.5		36 36"	BX ⁽¹²⁾	Extended Stem & Bare Shaft
					49 TRIM 49 (Stem in ASTM B564 N08810 (Incoloy 800) , Seats in ASTM B564 N08810 (Incoloy 800) +STL, Wedge in ASTM B564 N08810 (Incoloy 800)+STL),	80J BW SCH 80- Flanged RTJ ASME B16.5			EX ⁽¹²⁾	Extended Stem & Electric Actuator
					50 TRIM 50 (Stem in ASTM B564 N08810 (Incoloy 800), Seats in ASTM B564 N08810 (Incoloy 800), Wedge in ASTM B564 N08810 (Incoloy 800)),	00J BW SCH 100- Flanged RTJ ASME B16.5			PX ⁽¹²⁾	Extended Stem & Pneumatic Actuator
					51 ASTM B381 Gr.2/ASTM B381 Gr.2/ASTM B381 Gr.2	12J BW SCH 120- Flanged RTJ ASME B16.5			HC	Handwheel which has a Locking Device
					52 ASTM B381 Gr.2/ASTM B381 Gr.2/ASTM B381 Gr.2	14J BW SCH 140- Flanged RTJ ASME B16.5			GC	GearBox Operator which has a Locking Device
					53 TRIM 53 (Stem in IN718, Wedge in ASTM A182 F316, Seat in STL)	16J BW SCH 160- Flanged RTJ ASME B16.5			HL	Extended Stem & Handwheel which has a Locking Device
					54 TRIM 54 (Stem in ASTM 310 (HK), Wedge in ASTM 310 (HK), Seat in A182 F310 (HK))	BCU Butweld Special SCH according to Customer specification ⁽⁹⁾			GL	Extended Stem & GearBox Operator which has a Locking Device
						XSA BW SCH XS- Flanged RF ASME B16.47 Series A			YA	Hydraulic Actuator
						STA BW SCH STD- Flanged RF ASME B16.47 Series A			YX	Extended Stem & Hydraulic Actuator
						XXA BW SCH XXS- Flanged RF ASME B16.47 Series A			GH ⁽¹¹⁾	GearBox Operator with Solid Handwheel And Chain Operator.
						10A BW SCH 10- Flanged RF ASME B16.47 Series A			HH ⁽¹¹⁾	Handwheel Operator with Solid Handwheel And Chain Operator.
						20A BW SCH 20- Flanged RF ASME B16.47 Series A			HB	Extended Bonnet & Solid Handwheel
									GB	Extended Bonnet & GearBox Operator with Solid Handwheel
									BB	Extended Bonnet & Bare Shaft

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION
				BODY	TRIM*				
50	Gate Valve OS&Y API 600 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge S Solid Wedge			30A BW SCH 30- Flanged RF ASME B16.47 Series A	0 ANSI 150# 3 ANSI 300# 6 ANSI 600# 9 ANSI 900#	02 2" 2.5 2 1/2" 03 3" 04 4" 05 5" 06 6" 08 8" 10 10" 12 12" 14 14" 16 16" 18 18" 20 20" 24 24" 36 36"	HO Solid Handwheel Operator GO Gear Operator with Solid Handwheel BS Bare Shaft EA Electric Actuator PA Pneumatic Actuator HX ⁽¹²⁾ Extended Stem & Solid Handwheel GX ⁽¹²⁾ Extended Stem & GearBox Operator with Solid Handwheel BX ⁽¹²⁾ Extended Stem & Bare Shaft EX ⁽¹²⁾ Extended Stem & Electric Actuator PX ⁽¹²⁾ Extended Stem & Pneumatic Actuator HC Handwheel which has a Locking Device GC GearBox Operator which has a Locking Device HL Extended Stem & Handwheel which has a Locking Device GL Extended Stem & GearBox Operator which has a Locking Device YA Hydraulic Actuator YX Extended Stem & Hydraulic Actuator GH ⁽¹¹⁾ GearBox Operator with Solid Handwheel And Chain Operator. HH ⁽¹¹⁾ Handwheel Operator with Solid Handwheel And Chain Operator. HB Extended Bonnet & Solid Handwheel GB Extended Bonnet & GearBox Operator with Solid Handwheel BB Extended Bonnet & Bare Shaft
51	Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats					40A BW SCH 40- Flanged RF ASME B16.47 Series A 60A BW SCH 60- Flanged RF ASME B16.47 Series A 80A BW SCH 80- Flanged RF ASME B16.47 Series A 00A BW SCH 100- Flanged RF ASME B16.47 Series A 12A BW SCH 120- Flanged RF ASME B16.47 Series A 14A BW SCH 140- Flanged RF ASME B16.47 Series A 16A BW SCH 160- Flanged RF ASME B16.47 Series A XSR BW SCH XS- Flanged RF ASME B16.47 Series B STR BW SCH STD- Flanged RF ASME B16.47 Series B XXR BW SCH XXS- Flanged RF ASME B16.47 Series B 10R BW SCH 10- Flanged RF ASME B16.47 Series B 20R BW SCH 20- Flanged RF ASME B16.47 Series B 30R BW SCH 30- Flanged RF ASME B16.47 Series B 40R BW SCH 40- Flanged RF ASME B16.47 Series B 60R BW SCH 60- Flanged RF ASME B16.47 Series B			

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION
				BODY	TRIM*				
50 Gate Valve OS&Y API 600 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge				80R BW SCH 80- Flanged RF ASME B16.47 Series B	0 ANSI 150#	02 2"	HO Solid Handwheel Operator
		S Solid Wedge					3 ANSI 300#	2.5 2 1/2"	
							6 ANSI 600#	03 3"	GO Gear Operator with Solid Handwheel
						00R BW SCH 100- Flanged RF ASME B16.47 Series B	9 ANSI 900#	04 4"	
								05 5"	BS Bare Shaft
								06 6"	
								08 8"	EA Electric Actuator
						12R BW SCH 120- Flanged RF ASME B16.47 Series B		10 10"	PA Pneumatic Actuator
								12 12"	
								14 14"	HX ⁽¹²⁾ Extended Stem & Solid Handwheel
								16 16"	
						14R BW SCH 140- Flanged RF ASME B16.47 Series B		18 18"	GX ⁽¹²⁾ Extended Stem & GearBox Operator with Solid Handwheel
								20 20"	
								24 24"	
						16R BW SCH 160- Flanged RF ASME B16.47 Series B		36 36"	BX ⁽¹²⁾ Extended Stem & Bare Shaft
									EX ⁽¹²⁾ Extended Stem & Electric Actuator
						B8S BW SCH 80S			PX ⁽¹²⁾ Extended Stem & Pneumatic Actuator
						B4S BW SCH 40S			
						B1S BW SCH 10S			HC Handwheel which has a Locking Device
									GC GearBox Operator which has a Locking Device
									HL Extended Stem & Handwheel which has a Locking Device
									GL Extended Stem & GearBox Operator which has a Locking Device
									YA Hydraulic Actuator
									YX Extended Stem & Hydraulic Actuator
									GH ⁽¹¹⁾ GearBox Operator with Solid Handwheel And Chain Operator.
									HH ⁽¹¹⁾ Handwheel Operator with Solid Handwheel And Chain Operator.
									HB Extended Bonnet & Solid Handwheel
									GB Extended Bonnet & GearBox Operator with Solid Handwheel
									BB Extended Bonnet & Bare Shaft

Example:

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

50BFNN2005FRF006HO

NOTES:

- * If there is not your feature in this chart, please contact us to give you the suitable figure,
- * when the valve has a mix End is necessary to get the configuration from you (Upstream End & Downstream End)
- * TRIM = Stem/ Disc Seat / Seat.
- * HF = Hard Faced, usually Stellite 6; other upon request.
- * BM = Body Material.
- * Please contact us for more available sizes.
- * For Extended Stem, confirm us the length from center of pipeline to center of Operator (Gearbox or Handwheel) figure will change on the last digits
- * Locking Device includes a chain with padlock.
- If you can't see some dimension, please contact us
- (6) Low Temperature Service.
- (7) High Temperature Service.
- (8) Stainless Steel.
- (9) If Schedule is not according to ASME B16.25/ASME B36.10, please provide us your schedule
- (10) Dual Certified Material
- (11) Confirm length of Chain that you need
- (12) Length of Extended stem must be supplied by customer length must be from center line of pipe to operator, figure will change on the last digits
- (13) Dimension of hole will be part of figure on the last digits