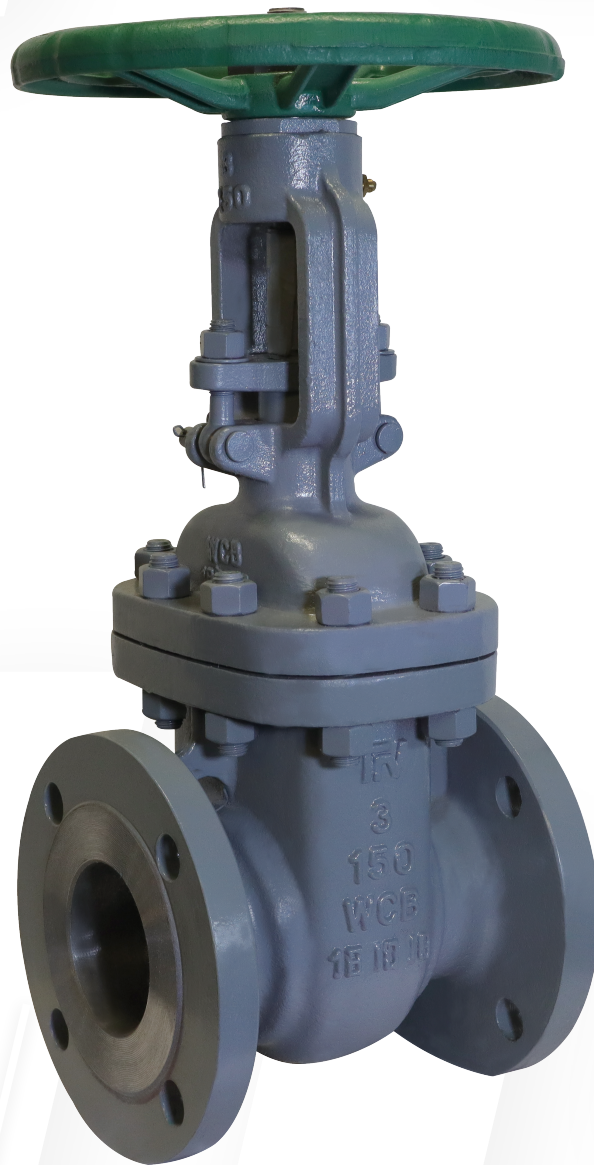
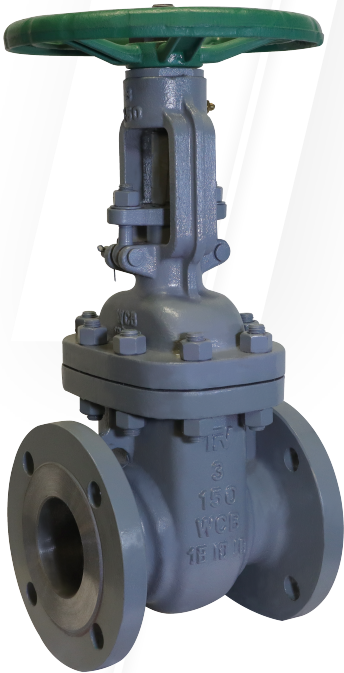


# SERIES 50

## Cast Steel Gate Valve.

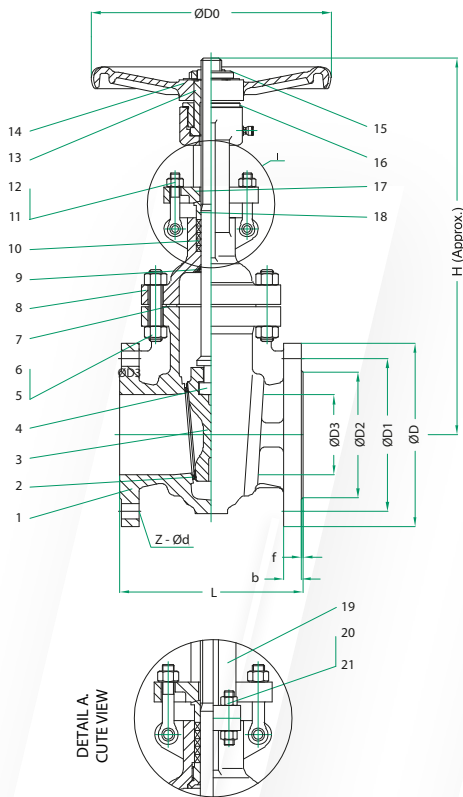


## Features / Design



- 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 / ANSI B16.34.
- 5.- Butt Weld ends according to ASME / ANSI B16.25.
- 6.- Flanged ends dimensions ASME / ANSI B16.5 ( $\varnothing \leq 24"$ ), ASME / ANSI B16.47 ( $\varnothing > 24"$ ).
- 7.- Shell W.T. <sup>(1)</sup> API 600, ASME / ANSI B16.34.
- 8.- Face to face acc. to ASME / ANSI 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<sup>(2)</sup>

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 <sup>(3)</sup>	SS316 + GRAPHITE <sup>(3)</sup>
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 <sup>(4)</sup>	CP <sup>(4)</sup>

**NOTES:**

Material List as example, other TRIMS available upon request, please contact us.

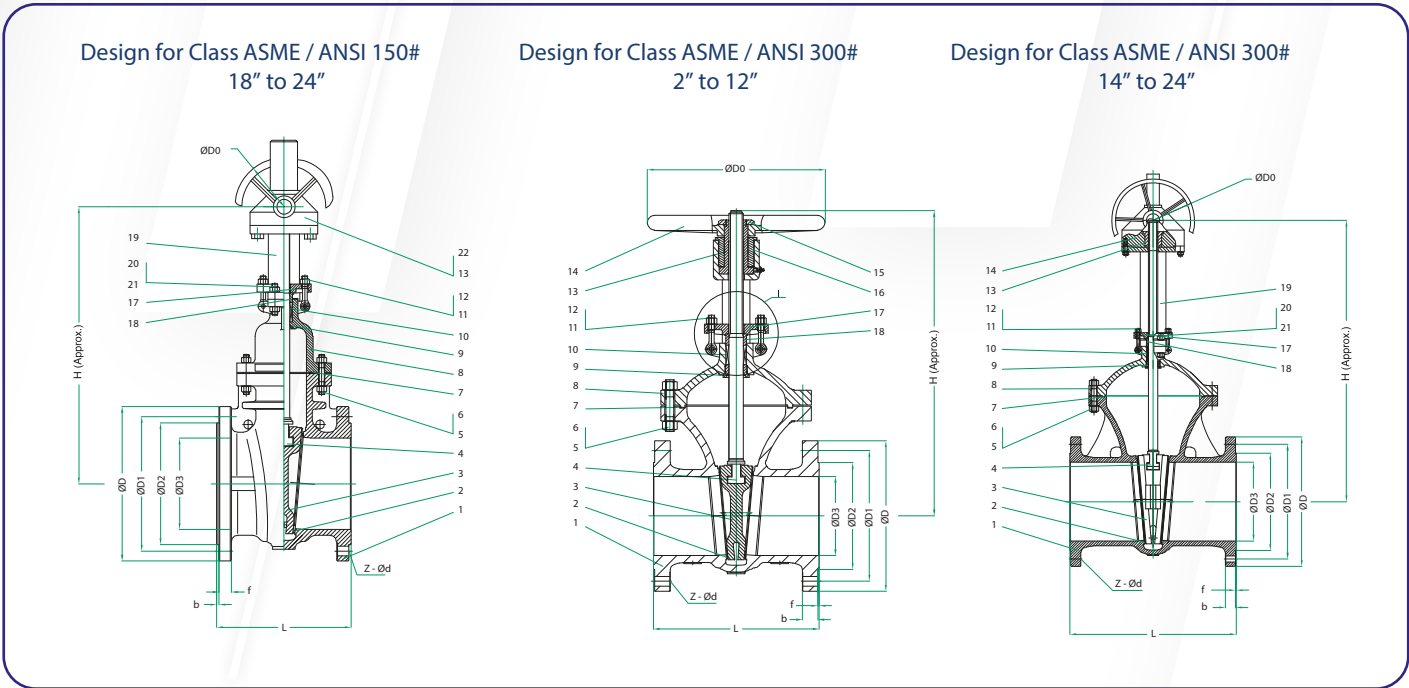
(1) W.T. = Wall Thickness.

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

(3) Flexible Graphite.

(4) CP = Composite Parts.





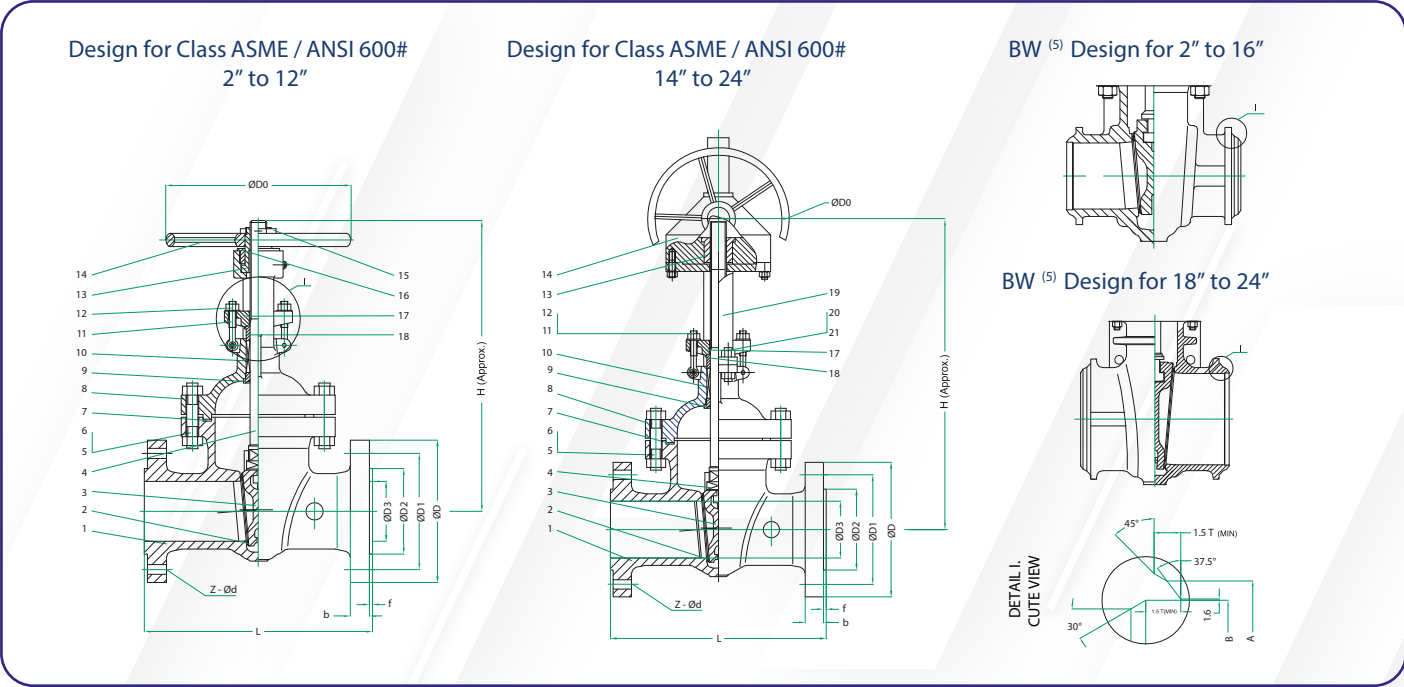
## Dimensions (inches)

### 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 <sup>(5)</sup> (in) sch. 40	ØB <sup>(5)</sup> (in) sch. 40	CV (USgpm)	Weighth (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.





**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 <sup>(5)</sup> (in sch. 40)	ØB <sup>(5)</sup> (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 <sup>(5)</sup> (in) sch. 40	ØB <sup>(5)</sup> (in) sch. 40	CV (USgpm)	Weigth (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 Schedule please check with TFV.



## How to Order

BODY DESIGN (SERIES)	BONNET DESIGN		DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE <sup>(9)</sup>	OPERATION	
	B	F			BODY	TRIM*				HO	GO
50 Gate Valve OS&Y API 600 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge	S Solid Wedge	None	01 Bronze Aluminum ASTM B148 UNS C95200	01 OBSOLETE	FRF Flanged RF ASME B16.5F	0 ANSI 150#	02 2"	HO	Solid Handwheel Operator
				NACE MR0103 / MR0175 & Low Fugitive Emmissions	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
				NACE MR0103	03 Bronze Aluminum ASTM B148 UNS C95600	03 SS310 / BM + SS310 / BM+SS310	FRB Flanged RF ASME B16.47 SERIES B	6 ANSI 600#	03 3"	BS	Bare Shaft
				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	9 ANSI 900#	04 4"	EA	Electric Actuator
				Fire Safe API 6FA	05 Bronze Aluminum ASTM B148 UNS C95800	05 SS410 / BM+HF / BM+HF	RTB Flanged RTJ ASME B16.47 SERIES B		05 5"	PA	Pneumatic Actuator
				Fire Safe API 6FA & NACE MR0103	20 A216 Gr WCB	06 SS410 / BM+13Cr / BM+Monel	RTJ Flanged RTJ ASME B16.5		06 6"	HX <sup>(12)</sup>	Extended Stem & Solid Handwheel
				Fire Safe API 6FA & NACE MR0175	21 A216 Gr WCC	07 SS410 / BM+13CR / BM+13CR-H	FFF Flanged FF ASME B16.1		08 8"	GX <sup>(12)</sup>	Extended Stem & GearBox Operator with Solid Handwheel
				Complete (Full) Port	22 A352 Gr LCB <sup>(6)</sup>	08 SS410 / BM+13CR / BM+HF	BST Buttweld SCH STD ASME B16.25/ ASME B36.10		10 10"	BX <sup>(12)</sup>	Extended Stem & Bare Shaft
				Complete (Full) Port & NACE MR0103	23 A352 Gr LC3 <sup>(6)</sup>	09 Monel / Monel / Monel	BXX Buttweld doble Extra Strong wall thickness ASME B16.25/ ASME B36.10		12 12"	EX <sup>(12)</sup>	Extended Stem & Electric Actuator
				Complete (Full) Port & NACE MR0175	24 A217 Gr WC1	10 SS316 / BM + SS316 / BM+SS316	B10 Buttweld SCH 10 ASME B16.25/ ASME B36.10		14 14"	PX <sup>(12)</sup>	Extended Stem & Pneumatic Actuator
51 Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats	B Bolted Bonnet	F Flexible Wedge	S Solid Wedge	Fugitive Emmissions	30 A351 Gr CF8M <sup>(8)</sup>	11 Monel / Monel / BM+HF o Monel / Monel / BM+NiCr Alloy	B10 Buttweld SCH 10 ASME B16.25/ ASME B36.10		16 16"	HC	Handwheel which has a Locking Device
				Bellow Seal	31 A351 Gr CF3M <sup>(8)</sup>	12 SS316 / BM + SS316 / BM+HF o SS316 / BM + SS316 / BM+NiCr Alloy	B20 Buttweld SCH 20 ASME B16.25/ ASME B36.10		18 18"	GC	GearBox Operator which has a Locking Device
				Cryogenic Service	32 A351 Gr CF8 <sup>(8)</sup>	13 Alloy 20 / Alloy 20 / Alloy 20	B30 Buttweld SCH 30 ASME B16.25/ ASME B36.10		20 20"	HL	Extended Stem & Handwheel which has a Locking Device
				Vacuum Service	33 A351 Gr CF3 <sup>(8)</sup>	14 ALLOY 20 / ALLOY 20 / BM + HF o ALLOY 20 / ALLOY 20 / BM + NiCr Alloy	B60 Buttweld SCH 60 ASME B16.25/ ASME B36.10		24 24"	GL	Extended Stem & GearBox Operator which has a Locking Device
				FULL PORT & LFE	34 A351 Gr CF8M / CF3M <sup>(10)</sup>	15 SS304 / BM+HF / BM + HF			24 24"	YA	Hydraulic Actuator
				Oxygen Service	35 A351 Gr CF8 / CF3 <sup>(10)</sup>	16 SS316 / BM + HF / BM+HF			24 24"	YX	Extended Stem & Hydraulic Actuator
				Hole in Disc <sup>(13)</sup>	36 A351 Gr CG8M				24 24"	GH <sup>(11)</sup>	GearBox Operator with Solid Handwheel And Chain Operator.
				Hole in Disc <sup>(13)</sup> & Nace MR 0103	37 A351 Gr CG3M				24 24"	HH <sup>(11)</sup>	Handwheel Operator with Solid Handwheel And Chain Operator.
				Hole in Disc <sup>(13)</sup> & Nace MR 0175	38 A351 Gr CF10				24 24"	HB	Extended Bonnet & Solid Handwheel
				Bellow Seal With Live Loads & Nace MR 0103	39 V A351 Gr CF10M				24 24"	GB	Extended Bonnet & GearBox Operator with Solid Handwheel
				Bellow Seal With Live Loads & Nace MR 0175	40 ASTM A494 M35-1 (UNS N04400)				24 24"	BB	Extended Bonnet & Bare Shaft
				Bellow Seal, Nace MR 0175 & Fire Safe API 6FA	41 ASTM A351 CN7M (Alloy 20)				24 24"		
					42 ASTM A494-CW12MW (Hastelloy C276)				24 24"		
	43 ASTM A351 CD3MN (Duplex 2205)				24 24"						



BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE <sup>(9)</sup>	OPERATION				
				BODY	TRIM*								
50 Gate Valve OS&Y API 600 and Renewable Seats	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
				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
				48	ASTM A494-CY40	21	Nickel alloy / Nickel alloy + HF / Nickel alloy +HF	B14	Buttweld SCH 140 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 <sup>(12)</sup>	Extended Stem & Solid Handwheel
				50	ASTM A494 M35-2 (UNS N05500)	23	SS321 / SS321 / SS321 + HF	XSF	BW SCH XS- Flanged RF ASME B16.5		08 8"	GX <sup>(12)</sup>	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"	PX <sup>(12)</sup>	Extended Stem & Pneumatic Actuator
				52	ASTM B367 C2 (TITANIUM)	26	Full Bronze-Aluminum	XXF	BW SCH XXS- Flanged RF ASME B16.5		12 12"	HC	Handwheel which has a Locking Device
				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"	GC	GearBox Operator which has a Locking Device
51 Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats			LL Live Loads in Packing Gland	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"	HL	Extended Stem & 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"	GL	Extended Stem & GearBox Operator which has a Locking Device
				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"	YA	Hydraulic Actuator
				57	A351 Gr CF10M	34	HASTELLOY C276 / BM + HASTELLOY C276 / BM + HF / BM + HF	60F	BW SCH 60- Flanged RF ASME B16.5		24 24"	YX	Extended Stem & Hydraulic Actuator
				58	ASTM A217 WC5	35	ALLOY 825 / BM + ALLOY 825 / BM + HF	80F	BW SCH 80- Flanged RF ASME B16.5		36 36"	GH <sup>(11)</sup>	GearBox Operator with Solid Handwheel And Chain Operator.
				59	ASTM A182 F321	36	ALLOY 625 / BM + HF / BM +HF	00F	BW SCH 100- Flanged RF ASME B16.5			HH <sup>(11)</sup>	Handwheel Operator with Solid Handwheel And Chain Operator.
				60	ASTM A395	37	HASTELLOY C276 / BM + HF / BM + HF	12F	BW SCH 120- Flanged RF ASME B16.5			HB	Extended Bonnet & Solid Handwheel
				61	GS-C25	38	ALLOY 825 / BM + HF / BM + HF	14F	BW SCH 140- Flanged RF ASME B16.5			GB	Extended Bonnet & GearBox Operator with Solid Handwheel
				62	ASTM 310 (HK)	39	ALLOY 2507 / BM + ALLOY 2507 / BM + ALLOY 2507	16F	BW SCH 160- Flanged RF ASME B16.5			BB	Extended Bonnet & Bare Shaft
						40	SS347 / BM + SS347/ BM + SS347	XSJ	BW SCH XS- Flanged RTJ ASME B16.5				
		41	SS347 / BM + SS347/ BM + HF										



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



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



BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE <sup>(9)</sup>	OPERATION	
				BODY	TRIM*					
50 Gate Valve OS&Y API 600 and Renewable Seats	B Bolted Bonnet	F Flexible Wedge S Solid Wedge					0 ANSI 150# 3 ANSI 300# 6 ANSI 600#	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 <sup>(12)</sup>	Extended Stem & Solid Handwheel
									GX <sup>(12)</sup>	Extended Stem & GearBox Operator with Solid Handwheel
									BX <sup>(12)</sup>	Extended Stem & Bare Shaft
									EX <sup>(12)</sup>	Extended Stem & Electric Actuator
									PX <sup>(12)</sup>	Extended Stem & Pneumatic Actuator
51 Gate Valve OS&Y API 603/ASME B16.34 and Integral Seats						80R BW SCH 80-Flanged RF ASME B16.47 Series B 00R BW SCH 100-Flanged RF ASME B16.47 Series B 12R BW SCH 120-Flanged RF ASME B16.47 Series B 14R BW SCH 140-Flanged RF ASME B16.47 Series B 16R BW SCH 160-Flanged RF ASME B16.47 Series B B8S BW SCH 80S 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 <sup>(11)</sup>	GearBox Operator with Solid Handwheel And Chain Operator.
									HH <sup>(11)</sup>	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

\* 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

\*(Gearbox or Handwheel) figure will change on the last digits

(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

