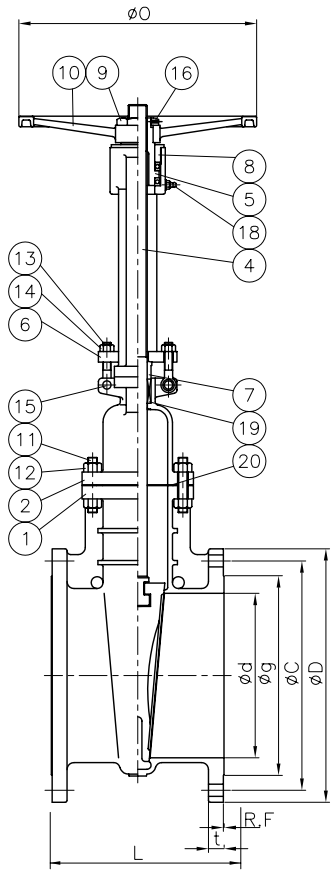
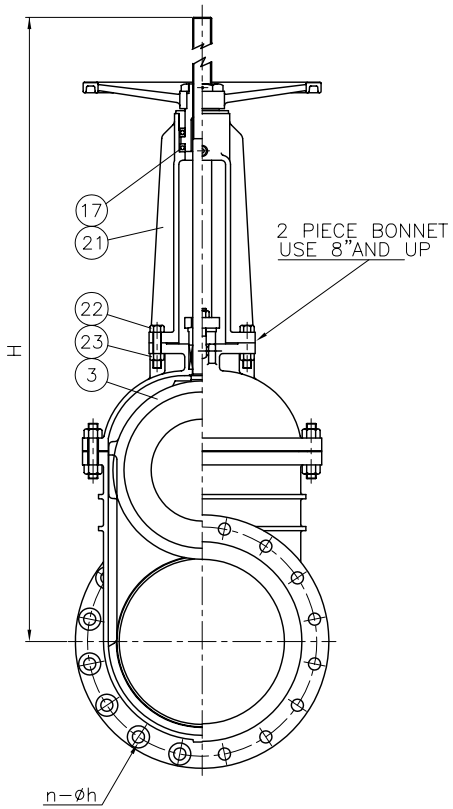
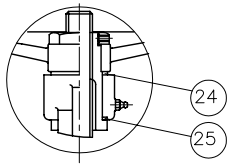
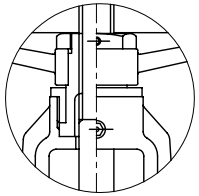
Wm. E. Williams No. S15F6-316-02 Class 150 OS&Y Gate Valve ASTM A351 CF8M



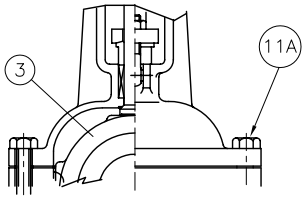




2" AND SMALLER



12" AND SMALLER



ONE PIECE BONNET AND HEX HEAD BOLT USE FOR 1/2" TO 6"

NO.	PART NAME	MATERIAL	Q'TY	REMARK
1	BODY	A351-CF8M	1	
2	BONNET	A351-CF8M	1	
3	WEDGE	A351-CF8M	1	
4	STEM	A276-316	1	
5	YOKE SLEEVE	A439-D 2C	1	
6	GLAND FLANGE	A351-CF8	1	
7	PACKING GLAND	A276-316	1	
8	YOKE CAP	A351-CF8	1	
9	HANDWHEEL NUT	A276-304	1	
10	HANDWHEEL	A536	1	
11	BONNET BOLT	A193-B8	1SET	
11A	HEX HEAD BOLT	A139-B8	1SET	
12	NUT	A194-8	1SET	
13	HINGED EYE BOLT	A276-304	2	
14	NUT	A194-8	2	
15	HINGE PIN	A276-304	2	
16	SET SCREW	A276-304	1	
17	THRUST BALL BEARING	STEEL	2SET	NOTE 6
18	GREASE NIPPLE	STEEL	1	Cr. PLATED
19	PACKING	NOTE 5	1SET	
20	GASKET	NOTE 5	1	
21	YOKE	A351-CF8	1	
22	YOKE BOLT	A193-B8	4	
23	NUT	A194-8	4	
24	THRUST WASHER	A204-304	1	
25	WASHER	A204-304	1	

NOTE:

1. SHELL WALL THICKNESS: API 603; ANSI B16.34 CLASS 150
2. FACE TO FACE DIMENSIONS : ANSI B16.10 CLASS 150
3. END FLANGE DIMENSIONS : ANSI B16.5 CLASS 150
4. GRAPHITE OR PTFE: SPCECIFY WHEN ORDER
5. WEDGE DESIGN:1/2"-1 1/2"-SOLID,2.0" AND LARGER-FLIXIBLE.

UNIT:INCH

SIZE	L	d	D	c	g	t	R.F	n-øh	O	H
1/2	4.25	0.50	3.50	2.37	1.37	0.44	0.060	4-0.63	4.00	7.50
3/4	4.63	0.75	3.87	2.75	1.68	0.44	0.060	4-0.63	4.00	8.00
1.00	5.00	1.00	4.25	3.12	2.00	0.44	0.060	4-0.63	4.75	9.00
11/2	6.50	1.50	5.00	3.87	2.87	0.57	0.060	4-0.63	5.50	11.8
2.00	7.00	2.00	6.00	4.75	3.62	0.63	0.060	4-0.75	6.25	13.1
21/2	7.50	2.50	7.00	5.50	4.13	0.687	0.060	4-0.750	7.00	14.37
3.00	8.00	3.00	7.50	6.00	5.00	0.750	0.060	4-0.750	7.87	16.14
4.00	9.00	4.00	9.00	7.50	6.18	0.937	0.060	8-0.750	10.00	19.60
6.00	10.50	6.00	11.00	9.50	8.50	1.000	0.060	8-0.875	11.75	26.87
8.00	11.50	8.00	13.50	11.75	10.62	1.125	0.060	8-0.875	13.75	32.25
10.00	13.00	10.00	16.00	14.25	12,75	1.125	0.060	12-1.00	15.75	39.35
12.00	14.00	12.00	19.00	17.00	15.00	1.187	0.060	12-1.00	17.75	47.30
14.00	15.00	13.25	21.00	18.75	16.25	1.375	0.060	12-1.125	19.68	53.35
16.00	16.00	15.25	23.50	21.25	18.50	1.437	0.060	16-1.125	20.00	60.62
18.00	17.00	17.25	25.00	22.75	21.00	1.567	0.060	16-1.125	20.00	75.20
20.00	18.00	19.25	27.50	25.00	23.00	1.687	0.060	20-1.250	24.75	84.37
24.00	20.00	23.25	32.00	29.50	27.25	1.875	0.060	20-1.375	24.75	97.32

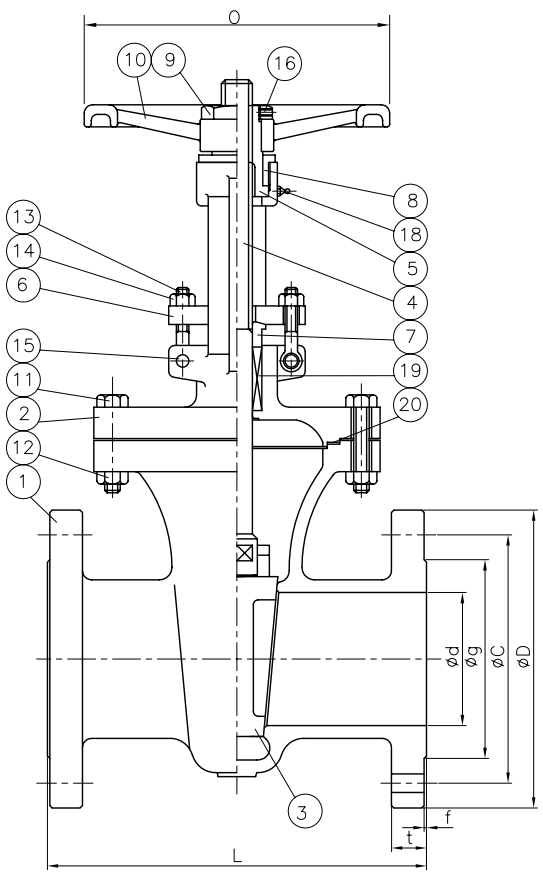
WILLIAM E. WILLIAMS VALVE CORPORATION
38-52 REVIEW AVE L.I.C N.Y 1110 1

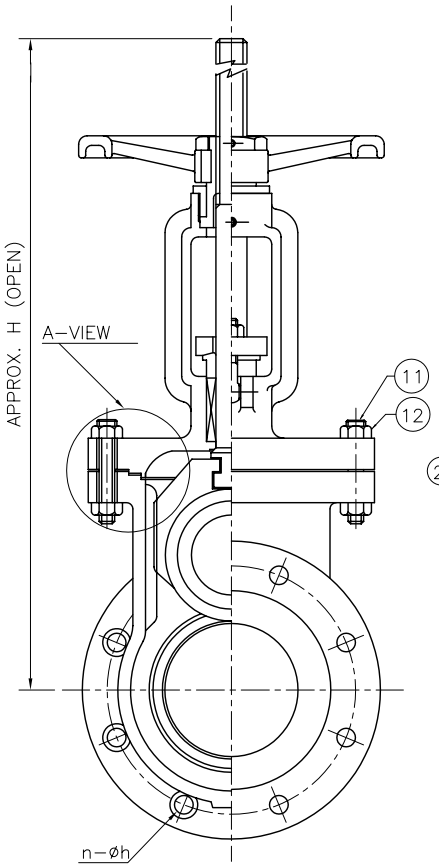
TITLE :STAINLESS STEEL GATE VALVE

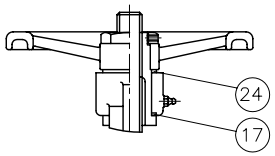
STYLE: B.B. OS&Y | CLASS: 150
Fig# S15F6-316 | SIZE: 1/2"- 24"
MAT'L: CF8M | SCALE: NONE | SHEET: 1

DATE	REVISION RECORD	DATE	DR.	CHK.	APP'D	DWG# 11GA060166

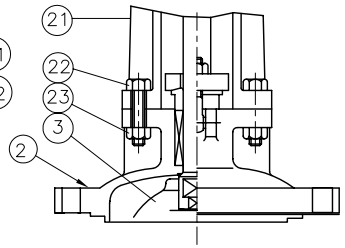
Wm. E. Williams No. S30F6-316 Class 300 OS&Y Gate Valve ASTM A 351 CF8M



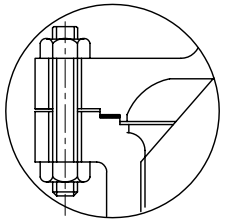




SIZE 4" AND SMALLER



BONNET BOLTING
SIZE 12" AND LARGER



A–VIEW
CAPTURED GASKET

NO.	PART NAME	MATERIAL	Q'TY	REMARK
1	BODY	A351–CF8M	1	
2	BONNET	A351–CF8M	1	
3	WEDGE	A351–CF8M	1	
4	STEM	A276–316	1	
5	YOKE SLEEVE	A439–D 2C	1	
6	GLAND FLANGE	A351–CF8	1	
7	PACKING GLAND	A276–316	1	
8	YOKE CAP	A351–CF8	1	
9	HANDWHEEL NUT	A276–304	1	
10	HANDWHEEL	A536	1	
11	BONNET BOLT	A193–B8	1SET	
12	NUT	A194–8	1SET	
13	HINGED EYE BOLT	A276–304	2	
14	NUT	A194–8	2	
15	HINGE PIN	A276–304	2	
16	SET SCREW	A276–304	1	
17	WASHER	A240–304	1	
18	GREASE NIPPLE	STEEL	1	Cr. PLATED
19	PACKING	SEE NOTE 5	1SET	
20	GASKET	SEE NOTE 5	1	
21	YOKE	A351–CF8M	1	
22	BOLT/STUD	A193–B8	1 SET	
23	NUT	A194–8	1 SET	
24	THRUST WASHER	A240–304	1	
25	THRUST BEARING		2	NOTE 6

NOTE:

1. WALL THICKNESS : ANSI B16.34 CLASS 300
2. FACE TO FACE DIMENSIONS : ANSI B16.10 CLASS 300
3. END FLANGE DIMENSIONS : ANSI B16.5 CLASS 300
4. WEDGE DESIGN: 1/2"–1 1/2" –SOLID, 2.0" AND LARGER–FLEXIBLE.
5. GRAPHITE OR PTFE :(SPECIFY WHEN ORDER)
6. THRUST BALL BEARINGS:12" ABOVE

UNIT:INCH

SIZE	L	d	D	C	g	t	f	N–h	O	H
0.50	5.50	0.500	3.750	2.650	1.400	0.60	0.062	4–0.625	3.950	8.200
0.75	6.00	0.750	4.650	3.250	1.700	0.62	0.062	4–0.750	3.950	8.350
1.00	6.50	1.000	4.900	3.500	2.000	0.68	0.062	4–0.750	6.300	11.950
1.50	7.50	1.500	6.125	4.500	2.875	0.81	0.062	4–0.875	7.100	13.750
2.00	8.50	2.000	6.50	5.000	3.625	0.87	0.062	8–0.750	7.100	15.350
2.50	9.50	2.500	7.50	5.875	4.125	1.00	0.062	8–0.875	8.000	17.050
3.00	11.12	3.000	8.25	6.625	5.000	1.12	0.062	8–0.875	9.850	19.350
4.00	12.00	4.000	10.00	7.875	6.185	1.25	0.062	8–0.875	11.81	23.125
5.00	15.00	5.000	11.00	9.250	7.350	1.43	0.062	8–0.875	13.75	24.800
6.00	15.87	6.000	12.50	10.62	8.500	1.45	0.062	12–0.875	13.77	31.850
8.00	16.50	8.000	15.00	13.00	10.62	1.62	0.062	12–1.000	15.75	39.450
10.00	18.00	10.00	17.50	15.25	12.75	1.75	0.062	16–1.125	17.75	47.900
12.00	19.75	12.00	20.50	17.75	15.00	2.00	0.062	16–1.125	19.70	55.800
14.00	30.00	13.25	23.00	20.25	16.25	2.12	0.062	20–1.250	22.05	64.500
16.00	33.00	15.25	25.50	22.50	18.50	2.25	0.062	20–1.375	22.05	70.250
18.00	36.00	17.00	28.00	24.75	21.00	2.37	0.062	24–1.375	24.80	77.650
20.00	39.00	19.00	30.50	27.00	23.00	2.50	0.062	24–1.375	24.80	86.650
24.00	45.00	23.00	36.00	32.00	27.25	2.75	0.062	24–1.625	24.80	100.50

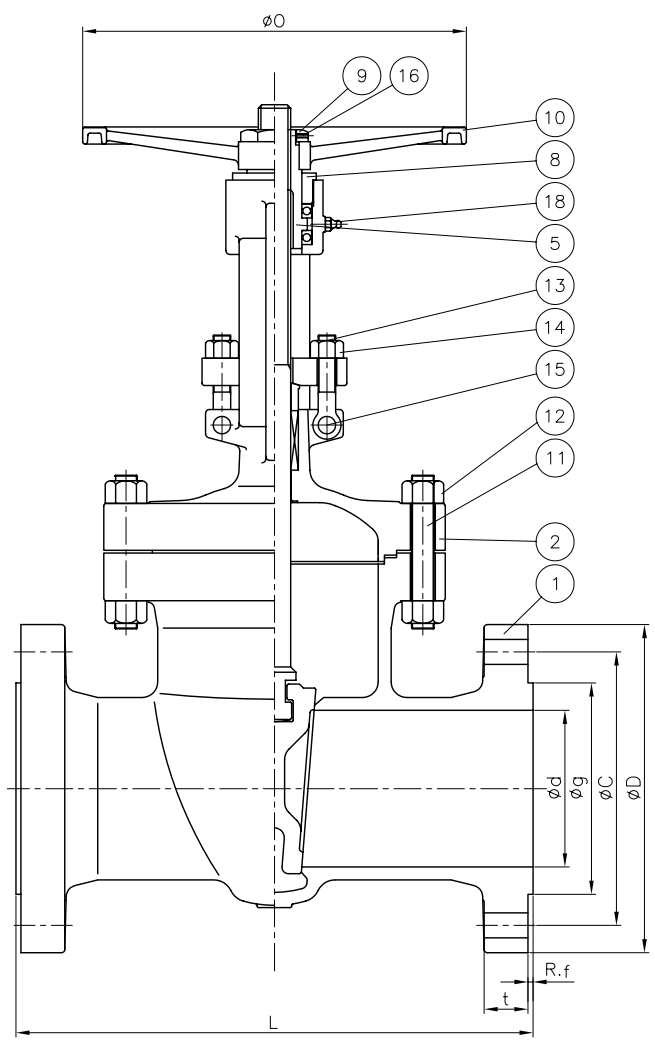
WILLIAM E. WILLIAMS
VALVE CORPORATION
38–52 REVIEW AVE L.I.C N.Y 1110

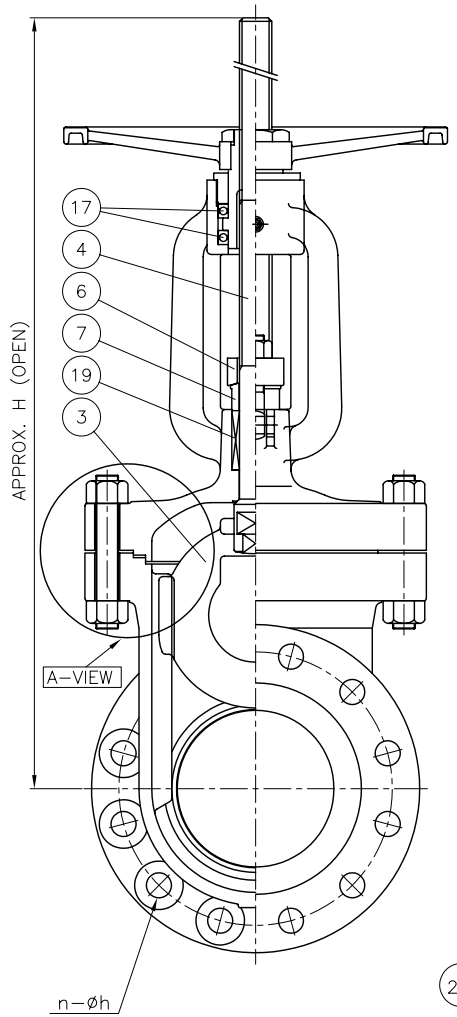
TITLE : CAST STAINLESS STEEL GATE VALVE

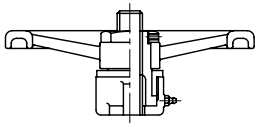
STYLE: B.B OS&Y | CLASS: 300
Fig# S30F6–316 | SIZE: 1/2"–24"
MAT'L: CF8M | SCALE: NONE | SHEET: 1

DATE	REVISION RECORD	DATE	DR.	CHK.	APP'D	DWG#
05/01	CAPTURED GASKET		Liang			11GA060167

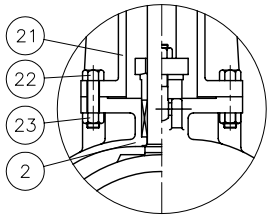
Wm. E. Williams No. S60F6-316 Class 600 OS&Y Gate Valve ASTM A351 CF8M



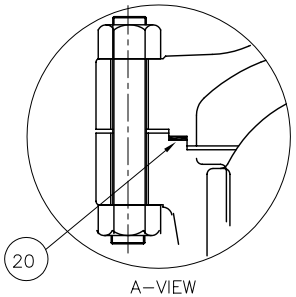




SIZE 5" AND SMALLER



BOLTING BONNET
SIZE 10" AND LARGER



A–VIEW
CAPTURED GASKET

NO.	PART NAME	MATERIAL	Q'TY	REMARK
1	BODY	A351–CF8M	1	
2	BONNET	A351–CF8M	1	
3	WEDGE	A351–CF8M	1	
4	STEM	A276–316	1	
5	YOKE SLEEVE	A439–D ℄	1	
6	GLAND FLANGE	A351–CF8	1	
7	PACKING GLAND	A276–316	1	
8	YOKE CAP	A351–CF8	1	
9	HANDWHEEL NUT	A276–304	1	
10	HANDWHEEL	A536	1	
11	BONNET STUD	A193–B8	1SET	
12	NUT	A194–8	1SET	
13	HINGED EYE BOLT	A276–304	2	
14	NUT	A194–8	2	
15	HINGE PIN	A276–304	2	
16	SET SCREW	A276–304	1	
17	THRUST BEARING	STEEL	2SET	NOTE 5
18	GREASE NIPPLE	STEEL	1	Cr PLATED
19	PACKING	GRAPHITE+CARBON FIBER	1SET	NOTE 4
20	GASKET	SPIRAL WOUND	1	
21	YOKE	A351–CF8	1	
22	YOKE BOLT /STUD	A193–B8	4	
23	YOKE BOLT NUT	A194–8	4	

NOTE

1. WALL THICKNESS : ANSI B16.34 CLASS 600
2. FACE TO FACE DIMENSIONS : ANSI B16.10 CLASS 600
3. END FLANGE DIMENSIONS : ANSI B16.5 CLASS 600
4. GRAPHITE/CARBON FIBRE OR PTFE (SPECIFY WHEN ORDER)
5. THRUST BALL BEARINGS: 6" & ABOVE

UNIT:INCH

SIZE	L	d	D	C	g	t	R.F	n–h	O	H
2.00	11.50	2.00	6.50	5.00	3.65	1.00	0.25	8–0.75	7.90	15.50
2.50	13.00	2.50	7.50	5.90	4.12	1.15	0.25	8–0.87	8.85	16.85
3.00	14.00	3.00	8.25	6.65	5.00	1.25	0.25	8–0.87	9.85	18.70
4.00	17.00	4.00	10.75	8.50	6.25	1.50	0.25	8–1.00	13.88	23.40
5.00	20.00	5.00	13.00	10.50	7.35	1.75	0.25	8–1.12	15.75	28.55
6.00	22.00	6.00	14.00	11.50	8.50	1.87	0.25	12–1.12	17.75	31.50
8.00	26.00	7.90	16.50	13.75	10.65	2.20	0.25	12–1.25	19.70	39.60
10.0	31.00	9.75	20.00	17.00	12.75	2.50	0.25	16–1.37	24.80	46.95
12.0	33.00	11.75	22.00	19.25	15.00	2.65	0.25	20–1.37	24.80	58.70

WILLIAM E. WILLIAMS
VALVE CORPORATION
38–52 REVIEW AVE L.I.C N.Y 1110

TITLE : CAST STAINLESS STEEL GATE VALVE

		STYLE: B.B OS&Y		CLASS: 600	
		Fig# S60F6–316		SIZE: 2"–12"	
06/01	CAPTURED GASKET	MAT'L: CF8M	SCALE: NONE		SHEET: 1
DATE	REVISION RECORD	DATE	DR. Liang	CHK.	APP'D	DWG# 11GA06173