



Valves, Automation & Controls

Series 35316
300# FLANGED STAINLESS STEEL
GATE VALVE

Design Features

- Outside screw and yoke
- Bolted bonnet
- Flexible wedge, fully guided
- Integrated seats
- Rising stem and non-rising hand-wheel
- Available with gear operator

Applicable Standards

- Gate valves API 603
- Steel valves ANSI B16.34
- Face to face ANSI B16.10
- End flanges ANSI B16.5
- Butt-weld ends ANSI B16.25
- Inspection and test API 598



USA 800-766-0076

Fax 323-890-4456

www.smithcooper.com

Los Angeles, CA

Chicago, IL

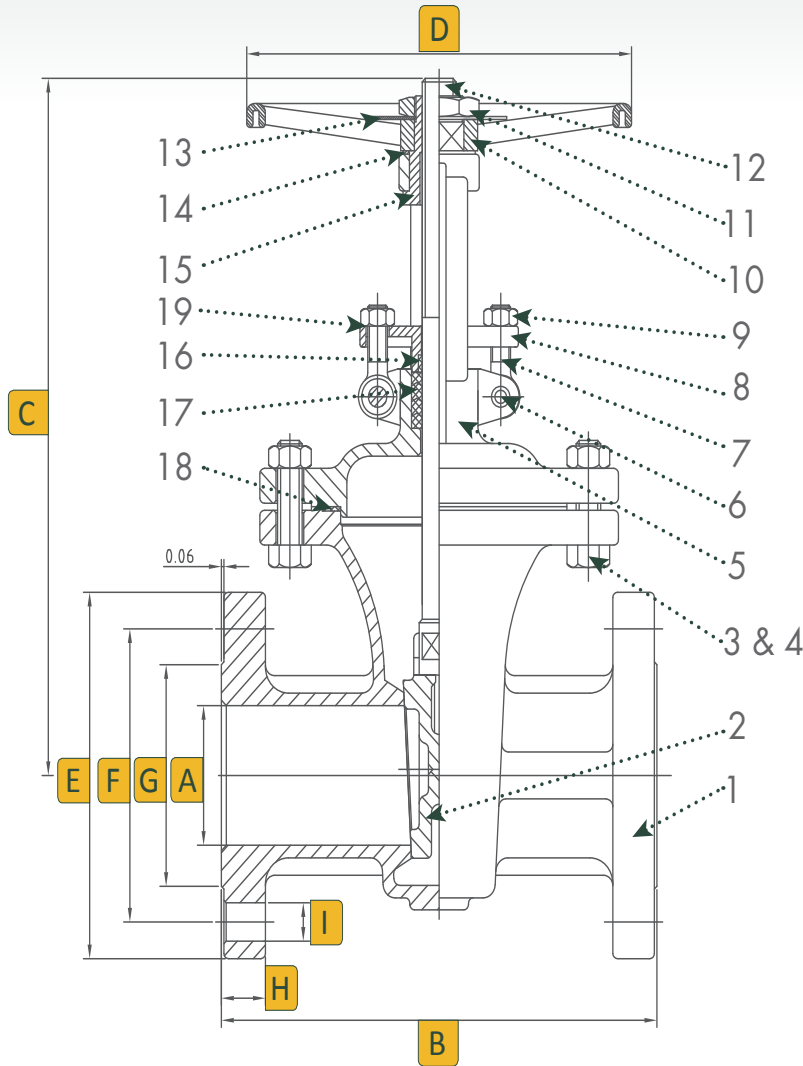
Atlanta, GA

Vancouver, WA

Houston, TX

Series 35316 300# FLANGED STAINLESS STEEL GATE VALVE

**½"-12" Dimensions,
Parts & Materials**



No.	Part Name	Material
1	Body	316 Stainless Steel ASTM A351 CF8M
2	Disc	316 Stainless Steel ASTM A351 CF8M
3	Bonnet Bolt	304 Stainless Steel
4	Bonnet Nut	304 Stainless Steel
5	Bonnet	316 Stainless Steel ASTM A351 CF8M
6	Hinge Pin	304 Stainless Steel
7	Eye Bolt	304 Stainless Steel
8	Gland	316 Stainless Steel
9	Eye Nut	304 Stainless Steel
10	Hand Wheel	Ductile Iron
11	Nut	Brass
12	Stem	316 Stainless Steel
13	Name Plate	304 Stainless Steel
14	Spring	Brass
15	Yoke Sleeve	Brass
16	Gland Packing	PTFE (Graphite Optional)
17	Packing	PTFE (Graphite Optional)
18	Gasket	SS304 + Graphite
19	Spring Washers	300 Series Stainless Steel

Dimensions (Inches)

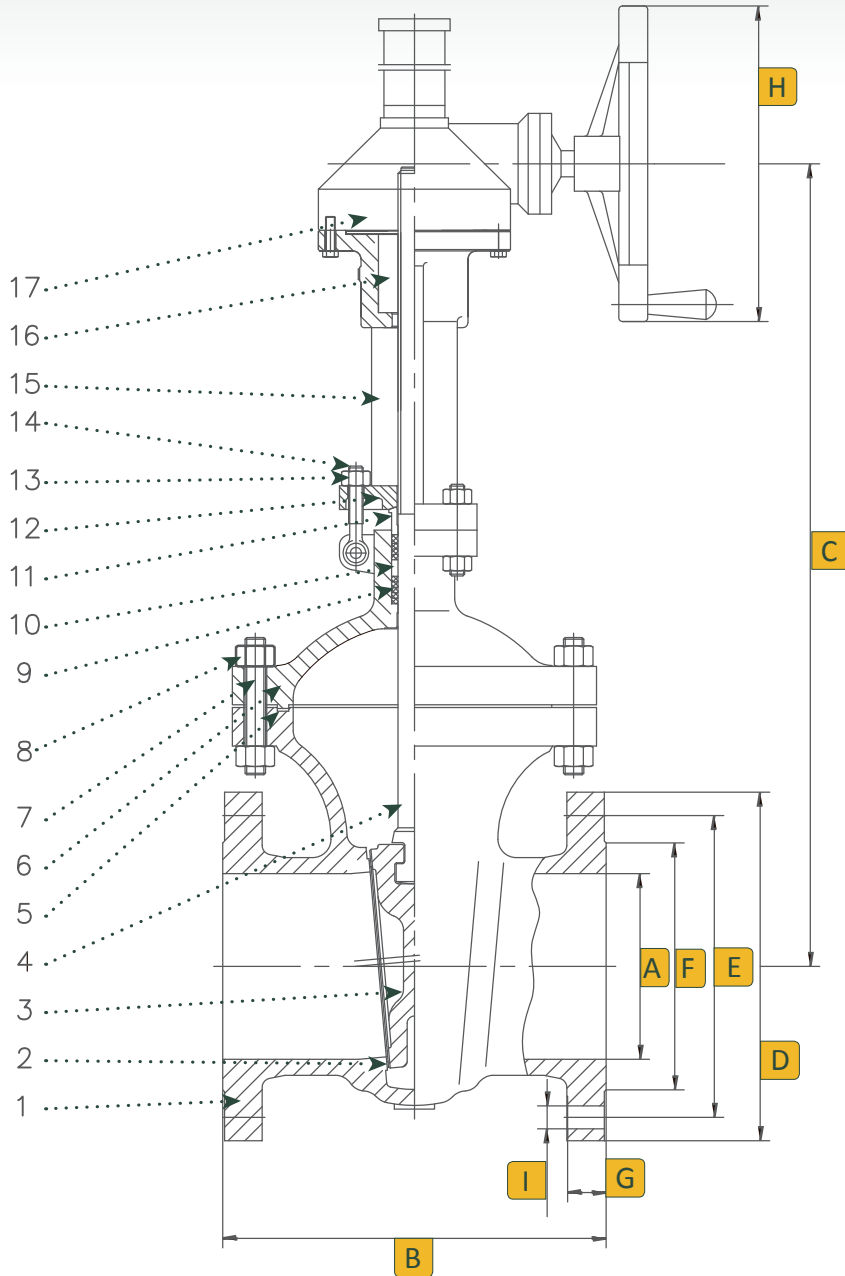
Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
1/2	0.59	5.51	9.29	4.72	3.74	2.62	1.38	0.56	0.625	4
3/4	0.79	5.98	9.29	4.72	4.62	3.25	1.69	0.62	0.75	4
1	0.98	6.50	9.29	4.72	4.88	3.50	2.01	0.69	0.75	4
1-1/2	1.57	7.48	13.98	9.84	6.12	4.51	2.88	0.81	0.875	4
2	1.97	8.90	15.12	9.84	6.50	5.00	3.62	0.88	.75	8
2-1/2	2.56	9.49	17.87	9.84	7.50	5.88	4.12	1.00	0.88	8
3	3.15	11.14	19.69	9.84	8.25	6.62	5	1.12	0.88	8
4	3.94	12.00	23.98	11.81	10.00	7.88	6.18	1.25	0.88	8
6	5.91	15.87	31.18	13.78	12.50	10.62	8.50	1.44	0.88	12
8	7.88	16.49	39.29	15.75	15.00	13.00	10.62	1.62	1.00	12
10	9.84	17.99	49.49	19.68	17.50	15.25	12.75	1.88	1.12	16
12	11.81	19.76	59.33	19.68	20.50	17.75	15	2.00	1.25	16



Valves, Automation & Controls

Series 35316 300# FLANGED STAINLESS STEEL GATE VALVE

**14"-24" Dimensions,
Parts & Materials**



No.	Part Name	Material
1	Body	316 Stainless Steel ASTM A351 CF8M
2	Seal Face	316 Stainless Steel
3	Wedge	316 Stainless Steel ASTM A351 CF8M
4	Stem	A182 F316
5	Gasket	316 Spiral Wound
6	Bonnet	316 Stainless Steel
7	Bonnet Bolt	B8 A193
8	Bonnet Nut	Gr. 8 A194
9	Stem Packing	Graphite
10	Gland	A182 F316
11	Gland Flange	CF8 A351
12	Gland Eyebolt	B8 A193
13	Gland Nut	Gr. 8 A194
14	Yoke	316 Stainless Steel ASTM A351 CF8M
15	Stem Nut	Zinc Plated Steel
16	Hand Wheel	Ductile Iron
17	Lock Nut	ANSI 1020

Dimensions (Inches)

Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
14	13.27	30.00	47.36	23.00	20.25	16.25	2.12	18.11	1-1/4	20
16	15.24	33.00	54.88	25.50	22.50	18.50	2.25	18.11	1-3/8	20
18	17.01	36.00	58.94	28.00	24.75	20.98	2.38	18.11	1-3/8	24
20	19.02	39.00	64.65	30.50	27.00	22.99	2.50	23.62	1-3/8	24
24	22.99	45.00	77.80	36.00	32.00	27.24	2.75	23.62	1-3/8	24



Valves, Automation & Controls

Series 35316 300# FLANGED STAINLESS STEEL GATE VALVE

Technical Information

Temperature °F*	Working Pressure psi
-20 to 100	720
200	620
300	560
400	515
500	480
600	450
650	440
700	435
750	425
800	420
850	420
900	415
950	385
1000	365

*Standard PTFE seals limited to 450°F, over 450°F use graphite.

How to Order

Size	Series	Class	Ends	Body Material	Options	
1/2	35	3	300 Flange	1 Flange	6 316 Stainless Steel	60 Gear Operator*
3/4			2 Butt-weld*			
1						
1-1/2						
2						
2-1/2						
3						
4						
5						
6						
8*						
10*						
12*						
14*						
16*						
18*						
20*						
24*						

*POA

Example: 3 - 35 - 3 - - 1 - 6 - - = 3-35-3-1-6

Due to continuous development of our product range, we reserve the right to change the dimensions and information for this product as required.