



## FLANGED GATE VALVES

Warren Valve is a pioneer in the gate valve market. Warren's manufacturing capabilities for Forged Gate valves includes 1/4"-2", ANSI Pressure class 150#-1500#. Materials of Construction include Carbon Steel, Stainless Steel, Alloy 20, and other exotic materials.

Our comprehensive evaluation includes on-site audits, inspection at the source, receiving inspections, and destructive material testing. Mill test reports are always available.

### MATERIAL A105N

CLASS	FIGURE NUMBER
150#	1155F
300#	1305F
600#	1605F

### MATERIAL SS316

CLASS	FIGURE NUMBER
150#	1156F
300#	1306F
600#	1606F

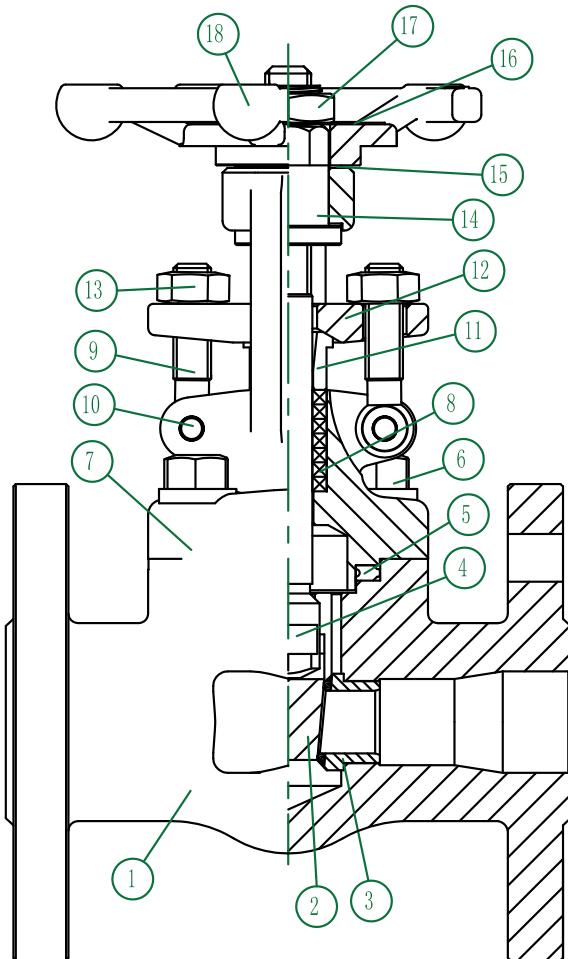
### PRODUCT OVERVIEW

SIZE RANGE	1/4" -2"
MATERIAL GRADES	A105N, F316, F316L, A20, Hastelloy C, and other exotic materials
TRIM MATERIALS	Trim 5, 8, 12, 16, & Special Materials
DESIGN	Metal-Seated-Design
BONNET DESIGN	Bolted Bonnet & Welded Bonnet
PORTS	Standard & Full
PACKING & GASKET	Graphite (Low Fugitive Emissions)
END CONFIGURATIONS	Raised Face & RTJ
FEATURES	NACE Compliant, OS&Y, Rising Stem, Solid Wedge

**ANSI CLASS 1155F - 1305F - 1605F**

A105N **MATERIAL LIST**

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A105N
2	WEDGE	ASTM A182 F6a
3	SEAT RING	ASTM A276 410+STL
4	STEM	ASTM A276 410
5	GASKET	304+GRAPHITE
6	BONNET BOLT	ASTM A193 B7M
7	BONNET	ASTM A105N
8	PACKING	GRAPHITE
9	GLAND BOLT	ASTM A193 B8
10	GLAND BOLT PIN	ASTM A276 304
11	GLAND	ASTM A276 420
12	GLAND FLANGE	ASTM A105N
13	NUT	ASTM A194 8
14	STEM NUT	ASTM A276 410
15	WASHER	ASTM A276 410
16	NAMEPLATE	304 SS
17	HAND WHEEL NUT	ASTM A29 1020
18	HAND WHEEL	ASTM A197



A182-F316 **MATERIAL LIST**

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A182 F316L
2	WEDGE	ASTM A276 316L+STL
3	SEAT RING	ASTM A276 316L+STL
4	STEM	ASTM A276 316L
5	GASKET	316L+GRAPHITE
6	BONNET BOLT	ASTM A193 B8MA
7	BONNET	ASTM A182 F316L
8	PACKING	GRAPHITE
9	GLAND BOLT	ASTM A193 B8MA
10	GLAND BOLT PIN	ASTM A276 316
11	GLAND	ASTM A276 316
12	GLAND FLANGE	ASTM A182 F316
13	NUT	ASTM A194 8MA
14	STEM NUT	ASTM A276 410
15	WASHER	ASTM A276 410
16	NAMEPLATE	304 SS
17	HAND WHEEL NUT	ASTM A29 1020
18	HAND WHEEL	ASTM A197

**\*OTHER BODY AND TRIM MATERIALS AVAILABLE.\***

Please contact Warren Valve or your Warren Valve representative for more details.

**ANSI CLASS 1155F - 1305F - 1605F**

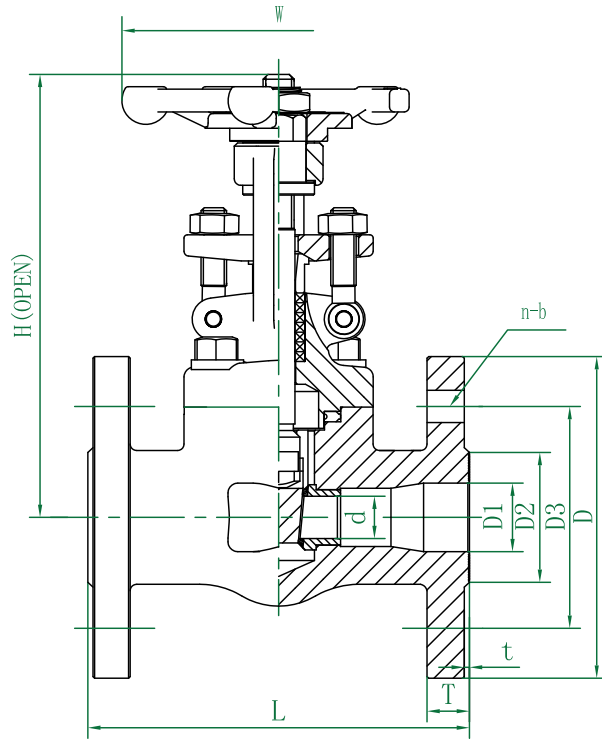


FIGURE NUMBER **1155F & 1156F**

SIZE	Dimensions (in inches)											WGT (LB)	CV
	L±0.06	d±0.02	D1±0.04	D2±0.02	D3±0.06	D±0.08	T +0.08/-0.0	t±0.02	n-b±0.04	H±0.20	W±0.20		
1/2"	4.25	φ0.39	φ0.63	φ1.37	φ2.37	φ3.54	0.41	0.06	4-φ0.63	6.02	3.94	6.0	6.5
3/4"	4.61	φ0.49	φ0.83	φ1.69	φ2.75	φ3.94	0.43	0.06	4-φ0.63	6.18	3.94	7.5	11.1
1"	5.00	φ0.71	φ1.04	φ2.00	φ3.13	φ4.33	0.47	0.06	4-φ0.63	7.28	4.72	11.7	25.0
1-1/2"	6.50	φ1.14	φ1.61	φ2.87	φ3.87	φ4.92	0.59	0.06	4-φ0.63	9.49	6.30	20.9	67.0
2"	7.01	φ1.44	φ2.07	φ3.63	φ4.75	φ5.91	0.65	0.06	4-φ0.75	11.02	8.66	30.9	113.5

FIGURE NUMBER **1305F & 1306F**

SIZE	Dimensions (in inches)											WGT (LB)	CV
	L±0.06	d±0.02	D1±0.04	D2±0.02	D3±0.06	D±0.08	T +0.08/-0.0	t±0.02	n-b±0.04	H±0.20	W±0.20		
1/2"	5.51	φ0.39	φ0.63	φ1.37	φ2.63	φ3.74	0.59	0.06	4-φ0.63	6.02	3.94	7.7	6.5
3/4"	5.98	φ0.51	φ0.83	φ1.69	φ3.25	φ4.53	0.65	0.06	4-φ0.75	6.18	3.94	10.1	11.1
1"	6.50	φ0.71	φ1.04	φ2.00	φ3.50	φ5.31	0.72	0.06	4-φ0.75	7.28	4.72	14.8	25.0
1-1/4"	7.01	φ0.94	φ1.38	φ2.50	φ3.87	φ4.93	0.78	0.06	4-φ0.75	8.90	6.30	21.2	45.0
1-1/2"	7.48	φ1.14	φ1.61	φ2.87	φ4.50	φ6.10	0.85	0.06	4-φ0.89	9.49	6.30	26.7	67.0
2"	8.50	φ1.44	φ2.07	φ3.63	φ5.00	φ6.50	0.91	0.06	8-φ0.75	11.02	8.66	37.7	113.5

FIGURE NUMBER **1605F & 1606F**

SIZE	Dimensions (in inches)											WGT (LB)	CV
	L±0.06	d±0.02	D1±0.04	D2±0.02	D3±0.06	D±0.08	T +0.08/-0.0	t±0.02	n-b±0.04	H±0.20	W±0.20		
1/2"	6.50	φ0.39	φ0.63	φ1.37	φ2.63	φ3.74	0.85	0.25	4-φ0.63	6.02	3.94	8.6	6.5
3/4"	7.48	φ0.51	φ0.83	φ1.69	φ3.25	φ4.53	0.91	0.25	4-φ0.75	6.18	3.94	11.9	11.1
1"	8.50	φ0.71	φ1.04	φ2.00	φ3.50	φ4.92	0.96	0.25	4-φ0.75	7.28	4.72	16.5	25.0
1-1/2"	9.49	φ1.14	φ1.61	φ2.87	φ4.50	φ6.10	1.16	0.25	4-φ0.89	9.49	6.30	32.0	67.0
2"	11.50	φ1.44	φ2.07	φ3.63	φ5.00	φ6.50	1.28	0.25	4-φ0.75	11.02	8.66	45.9	113.5