LEGEND
PLUMBING • INDUSTRIAL • COMMERCIAL • HYDRONICS

SUBMITTAL SHEET

JOB NAME ITEM TAG

JOB LOCATION PART NUMBER

CONTRACTOR DATE

ENGINEER APPROVAL DATE

NRS FLANGED CAST IRON GATE VALVE

T-301



Non-rising stem design is ideal for confined installations

Class 125/150 flange-type end connections

IBBM design: Iron-body-bronze-mount, with bronze seat and wedge sealing rings

Solid wedge assures a positive drip-tight closure

Durable cast iron construction resists pipeline stresses and distortion

All external surfaces are primed and dual-coat painted for corrosion resistance

Full-flow waterways minimize pressure drop

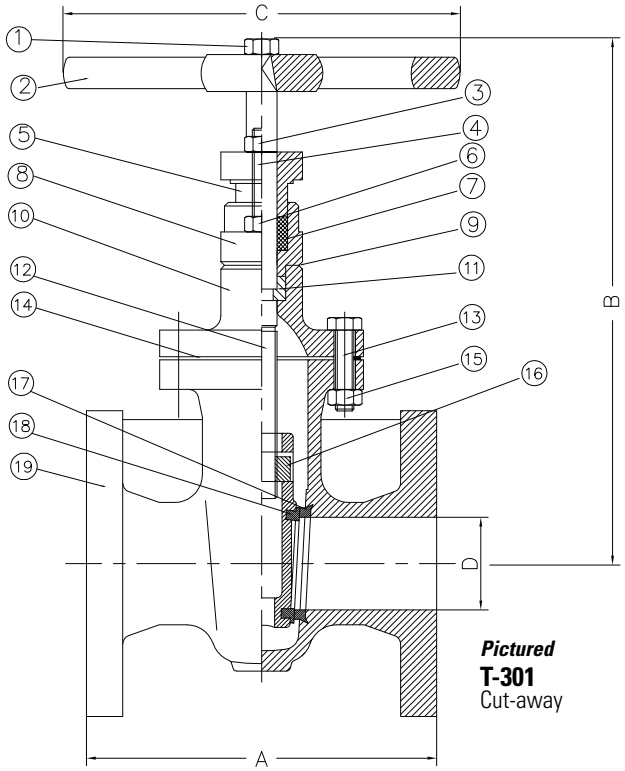
Available sizes: 2" to 12"

Working Pressure, Non-Shock (PSI)

Cold working pressure (CWP): 200 psi

Saturated steam (WSP): 125 psi to 450˚ F

- In accordance with interchangeability requirements, face-to-face dimensions conform to ANSI/ASME B16.10
- Flanged end connections conform to ANSI/ASME B16.1 Class 125/150
- Conforms to MSS SP-70
- Manufactured in an ISO-9002 accredited facility



Pictured
T-301
Cut-away

MATERIAL SPECIFICATION

	PART	MATERIAL	SPECIFICATION
1	Handwheel bolt	Carbon steel	ASTM A307 Grade A
2	Handwheel	Ductile iron	ASTM A536
3	Stud nut	Carbon steel	ASTM A563 Grade B
4	Stuffing box stud	Carbon steel	ASTM A307 Grade B
5	Gland follower	Ductile iron	ASTM A536
6	Stud retainer nut	Carbon steel	ASTM A563 Grade B
7	Stem packing	Asbestos-free graphite	Commercial grade
8	Stuffing box	Ductile iron	ASTM A536
9	Box-to-bonnet gasket	PTFE	DuPont Teflon*
10	Bonnet	Cast iron	ASTM A126 Class B
11	Stem locknut	Forged brass	ASTM B16
12	Stem	Forged brass	ASTM B16
13	Body/bonnet bolt	Carbon steel	ASTM A307 Grade B
14	Gasket	Reinforced graphite	Commercial grade
15	Nut	Carbon steel	ASTM A563 Grade B
16	Disc-wedge	Ductile iron	ASTM A536
17	Seat ring	Bronze	ASTM B148
18	Wedge face ring	Bronze	ASTM B148
19	Body	Cast iron	ASTM A126 Class B

**Teflon is a registered trademark of the DuPont Company*

DIMENSIONS

Size	A (ANSI/ASME B16.10)	B	C	D (NPS)
2"	7.01	10.79	7.87	1.97
2-1/2"	7.48	11.93	7.87	2.56
3"	7.99	13.03	9.84	3.15
4"	9.02	14.49	11.02	3.94
5"	10.00	16.38	12.60	4.92
6"	10.51	17.99	12.60	5.91
8"	11.50	21.65	13.78	7.87
10"	12.99	24.88	15.75	9.84
12"	14.02	27.99	17.72	11.81

Class 125/150 flange data

Nominal size	Bolt circle diameter	Bolt size	Number of bolt holes	Flange diameter
2″	4.75	5/8″ - 11	4	6"
2-1/2″	5.5	5/8″ - 11	4	7"
3″	6	5/8″ - 11	4	7.50"
4″	7.5	5/8″ - 11	8	9"
5″	8.5	3/4″ - 10	8	10"
6″	9.5	3/4″ - 10	8	11"
8″	11.75	3/4″ - 10	8	13.50"
10"	14.25	7/8"- 9	12	16
12"	17	7/8"- 9	12	19