

For Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 406E

I.B.B.M., Non-Rising Stem, Flanged Gate Valves

Sizes 2½" – 12" (65 – 300mm) – Epoxy Coated

Series 406E I.B.B.M Non-Rising Stem Flanged Gate Valves are available in sizes 2½" – 12" (65 – 300mm). The valve is epoxy coated cast iron with bronze trim and is operated by a handwheel or an operating nut and valve key. The wedge disc design offers both positive seating and resistance against high differential pressure. Series 406E is best suited for service in either the fully open or closed position. It is not recommended for use as a throttling valve. This series is recommended for low-pressure steam, air, water, and non-corrosive gas or oil.

Features

- ASTM A126 Class B Iron
- Graphite fiber packing and NBR gaskets
- Epoxy coated, internal and external
- Low head loss design
- Easy in-line service
- FED Spec WW-V58 Class 1
- MSS-SP-70 conformance
- 200psi WOG, 125 WSP

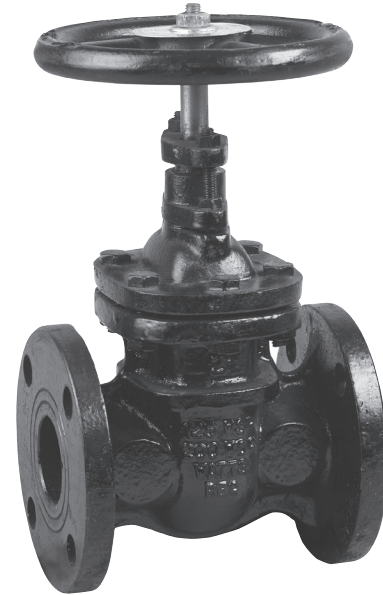
Specifications

Valve shall be manufactured out of ASTM A126 Class B iron and comply with MSS-SP-70. Valve shall be pressure rated to 200psi (13.8 bar) WOG and 125 WSP with flanged ends. Valve shall have a non-rising stem, graphite fiber packing and NBR gaskets and epoxy coating. Valve shall be a Watts Series 406E.

Standards

Face-to-face dimensions of the valves comply with the American Standard for face-to-face dimensions (ANSI B16.10) for Class 125 cast iron flanged valves.

End Flanges: The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 125 (ANSI B16.1). The flanges are flat faced and smooth finished.



406E

Parts - Materials

NO.	PARTS	MATERIAL	ASTM DESIGNATION
1	Body	Cast Iron	A126 Class B
2	Bonnet	Cast Iron	A126 Class B
3	Packing Box	Cast Iron	A126 Class B
4	Disc	Cast Iron	A126 Class B
5	Hand Wheel	Cast Iron	A126 Class B
6	Body Seat Ring	Bronze	B62
7	Disc Seat Ring	Bronze	B62
8	Gland	Cast Iron	A126 Class B
9	Stem Nut	Bronze	B62
10	Stem	Bronze	A B21
11	Bonnet Gasket	NBR	F104 P1141 A
12	Packing Box Gasket	NBR	F104 P1141 A
13	Bonnet Bolt & Nut	Steel	A307 Grade B
14	Gland Stud & Nut	Steel	A307 Grade B
15	Packing Box Stud & Nut	Steel	A307 Grade B
16	Top Nut	Steel	A307 Grade B
17	Washer	Steel	A284
18	Packing	Graphite Fiber	D4102
19	Operating Nut	Cast Iron	A126 Class B

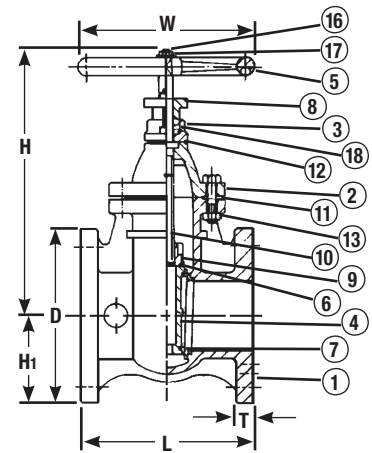
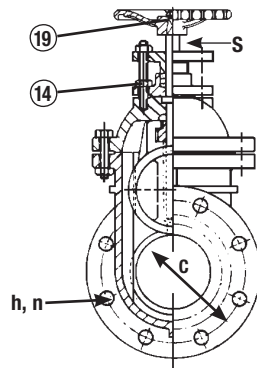
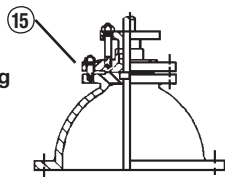
Pressure - Temperature

200psi (13.8 bar) WOG

125psi (8.6 bar) WSP

Maximum Temperature @ 353°F (178°C)

Bonnet, Packing Box and Gland Construction - Sizes 10" - 12"



Dimensions - Weights

SIZE		FLANGE DIMENSIONS								WEIGHTS												
in.	mm	L	D	C	BOLT HOLES			T	W	H	H1	S	lbs.	kgs.								
					H	N	# of holes															
2½	65	7½	191	7	178	5½	140	¾	19	4	11½	18	7¼	180	10¾	255	3½	89	5/8	16	32	15
3	75	8	203	7½	191	6	152	¾	19	4	¾	19	7⅞	200	11¾	289	3¾	95	11/16	18	45	20
4	100	9	229	9	229	7½	191	¾	19	8	15½	24	8¼	224	13⅞	352	4½	114	1¾	21	72	33
6	150	10½	267	11	279	9½	241	7/8	22	8	1	25	11	279	18½	470	5½	140	15/16	24	133	60
10	250	13	330	16	406	14¼	362	1	25	12	13/16	30	127/16	316	25⅞	657	8	200	1¼	32	315	143
12	300	14	356	19	483	17	432	1	25	12	1¼	32	14	356	307/16	773	9½	241	1¼	32	481	218

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Water Safety & Flow Control Products



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