

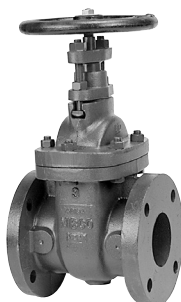
Iron Gate Valves Illustrated Index

Iron Body Gate Valve
Outside Screw and Yoke
125 lb. SWP
200 lb. CWP



F-617-O/F-617-ON
T-617-O/T-617-ON
Rising Stem • Solid Wedge
Sizes 2" thru 24" Flanged
Sizes 2" thru 4" only Threaded
Page 39-42

Iron Body Gate Valve
Inside Screw
125 lb. SWP
200 lb. CWP



F-619/F-619-N
T-619/T-619-N
Non-Rising Stem • Solid Wedge
Sizes 2" thru 16" Flanged
Sizes 2" thru 4" only Threaded
Page 43, 44

Iron Body Gate Valve
Outside Screw and Yoke
Resilient Wedge
300 lb. CWP



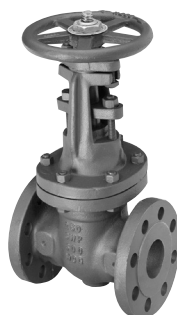
F-607-RWS
Rising Stem • Resilient Wedge
Sizes 2½" thru 16" Flanged
Page 45

Iron Body Gate Valve
Inside Screw
250 lb. CWP



F-619-RWS/MJ-619-RWS
P-619-RW/PCR-619-RW/FPCR-619-RW
Non-Rising Stem • Resilient Wedge
Sizes 2" thru 16" Flanged
Sizes 3" thru 16" Mechanical Joint
Sizes 2" thru 12" IPS Push On
Sizes 4" thru 12" C509 Push On
Sizes 4" thru 12" C509 Push On by Flanged
Page 46-50

Iron Body Gate Valve
Outside Screw and Yoke
250 lb. SWP
500 lb. CWP



F-667-O
Rising Stem • Solid Wedge
Sizes 2" thru 12" Flanged
Page 51

Iron Body Gate Valve
Inside Screw
250 lb. SWP
500 lb. CWP



F-669
Non-Rising Stem • Solid Wedge
Sizes 2" thru 12" Flanged
Page 52

Chemical Compatibility

Please consult the most current edition of the NIBCO Chem-Guide for recommendations regarding chemical compatibility of material exposure to specific media and media-treatment additives. The NIBCO Chem-Guide is a general guide on the topic of chemical compatibility and is by no means an exhaustive resource on the subject. Ultimately, proper material selection is the responsibility of the installer and/or end-user, taking into account all aspects of a system's design and intended use.

Galvanic Potential in Piping Systems

Galvanic corrosion or dissimilar metal corrosion is an electrochemical process that is created through the electrical interaction of two different metals under the influence of a conductive media (i.e. an electrolyte). An electrolytic cell, much like a battery, is generated by these dissimilar metals using water as the electrolyte. The electrical charge, developed within the electrolytic cell, drives a preferential attack on the more electrically active metal with the water acting as the recipient of the discarded metal ions. Such galvanic attack is often encountered in service where iron or steel components are installed, and later corrode, in a largely copper piping system. Please consult NIBCO Technical Bulletin NTB-0714-01 Dielectric Products Relative to Electrolysis and Galvanic Corrosion.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

Class 125 Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge • Bronze Mounted

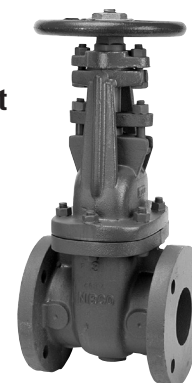
200 PSI/13.8 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°C
Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar
125 PSI/8.6 bar saturated steam to 353°F/178°C

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Stem	Brass ASTM B16 Alloy C36000
2. Handwheel Nut	Brass ASTM B584 Alloy C84400
3. Identification Plate	Aluminum
4. Yoke Bushing	Brass ASTM B584 Alloy C84400
5. Handwheel	Cast Iron ASTM A126 Class B
6. Bonnet Cap Nut	Steel ASTM A563
7. Bonnet Cap	Ductile Iron ASTM A536
8. Bonnet ¹	Cast Iron ASTM A126 Class B
9. Bonnet Cap Bolt	Steel ASTM A307/ SAE J429
10. Gland Follower Nut	Steel ASTM B563
11. Gland Follower	Ductile Iron ASTM A536
12. Packing Gland	Zinc Plated Powdered Iron ASTM B783 or Brass ASTM B16 Alloy C36000
13. Packing	Synthetic Fibers with Graphite
14. Gland Follower Bolt	Steel ASTM A307/ SAE J429
15. Backseat Bushing	Brass ASTM B584 Alloy C84400
16. Body Nut	Steel ASTM A563
17. Body Bolt	Steel ASTM A307/ SAE J429
18. Wedge Pin	ASTM B140 Alloy C31600
19. Body	Cast Iron ASTM A126 Class B
20. Seat Ring	Brass ASTM B584 Alloy C84400
21. Wedge Face Ring	Brass ASTM B584 Alloy C84400
22. Wedge ²	Cast Iron ASTM A126 Class B
23. Body Gasket	Synthetic Fibers
24. Stem Collar	Brass ASTM B16 Alloy C36000

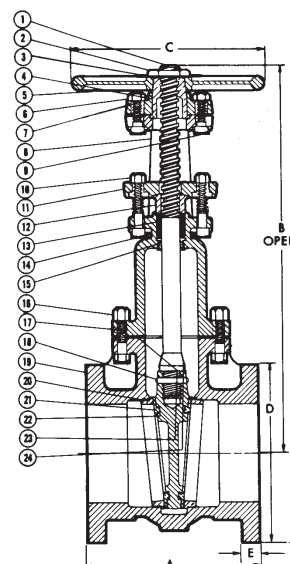
¹Sizes thru 8" made with Yoke Integral with Bonnet. 10" and 12" sizes made with separate Yoke Bolted to Bonnet.

²Sizes 2" thru 6" are all Bronze Wedges. Sizes 8" thru 12" made with Cast Iron Wedge with Bronze Wedge Face Rings.

F-617-O

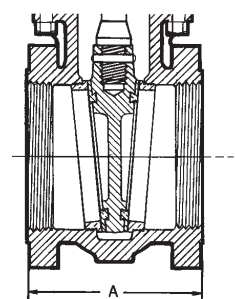
Flanged


T-617-O

Threaded


F-617-O

Flg x Flg


T-617-O

NPT x NPT

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions																	
Size		F-617-O		T-617-O		B		C		D		E		F-617-O		T-617-O	
		A	A	A	A	B	B	C	C	D	D	E	E	Lbs.	Kg.	Lbs.	Kg.
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.
2	50	7.00	178	5.63	143	16.31	414	8	203	6.00	152	.63	16	41	19	30	14
2½	65	7.50	191	5.88	149	17.19	437	8	203	7.00	178	.69	17	55	25	39	18
3	80	8.00	203	6.13	156	19.50	495	8	203	7.50	191	.75	19	67	30	47	21
4	100	9.00	229	6.50	165	24.00	610	10	254	9.00	229	.94	24	107	48	77	35
5	125	10.00	254	x	x	27.13	689	10	254	10.00	254	.94	24	145	66	x	x
6	150	10.50	267	x	x	31.06	789	12	305	11.00	279	1.00	25	178	81	x	x
8	200	11.50	292	x	x	40.19	1021	14	356	13.50	343	1.13	29	309	140	x	x
10	250	13.00	330	x	x	48.25	1226	16	406	16.00	406	1.19	30	481	218	x	x
12	300	14.00	356	x	x	56.88	1445	18	457	19.00	483	1.25	32	706	320	x	x

x Not available this size.

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

Class 125 Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge • Bronze Mounted

150 PSI/10.3 bar non-shock cold working pressure from -20°F to 150°F/-29°C to 66°C*
Maximum working temperature 350°F/177°C at 100 PSI/6.9 bar
***100 PSI/6.9 bar saturated steam to 338°F/170°C**
****50 PSI/3.4 bar saturated steam to 297°F/147°C**

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Brass ASTM B584 Alloy C84400
2. I.D. Tag	Aluminum
3. Handwheel	Fabricated Steel
4. Yoke Bushing	Brass ASTM B584 Alloy C84400
5. Split Yoke Bolt	Steel ASTM A307/SAE J429
6. Split Yoke Bolt Nut	Steel ASTM A563
7. Yoke	Cast Iron ASTM A126 Class B
8. Gland Follower Nut	Brass ASTM B16 Alloy C36000
9. Gland Follower	Cast Iron ASTM A126 Class B or Ductile Iron ASTM A536
10. Yoke Bolt	Steel ASTM A307/SAE J429
11. Yoke Bolt Nut	Steel ASTM A563
12. Gland Follower Bolt	Steel ASTM A307/SAE J429
13. Packing Gland	Brass ASTM B584 Alloy C84400 or Brass ASTM B16 C36000
14. Packing	Synthetic Fibers with Graphite
15. Backseat Bushing	Brass ASTM B584 Alloy C84400
16. Bonnet	Cast Iron ASTM A126 Class B
17. Stem	Brass ASTM B16 Alloy C36000
18. Bonnet Bolt	Steel ASTM A307/SAE J429
19. Bonnet Bolt Nut	Steel ASTM A563
20. Bonnet Gasket	Synthetic Fibers
21. Body	Cast Iron ASTM A126 Class B
22. Wedge	Cast Iron ASTM A126 Class B
23. Seat Ring	Brass ASTM B584 Alloy C84400
24. Wedge Ring	Brass ASTM B584 Alloy C84400
25. Swing Nut	Steel ASTM A563
26. Swing Bolt	Steel ASTM A307/SAE J429
27. Grease Fitting	Alemite 1743B (not shown)
28. Stem Collar	Brass ASTM B16 Alloy C36000 (not shown)
29. Wedge Pin	Brass ASTM B 371 C69400 (not shown)
30. Wedge Nut	Bronze ASTM B 61 C92200 (not shown)

DIMENSIONS—WEIGHTS—QUANTITIES

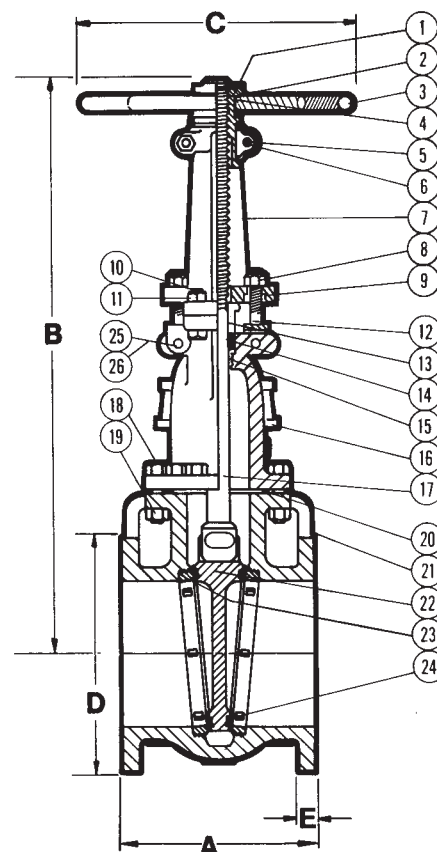
Dimensions Weights Examples															
Size		Dimensions										Turns to Open	Weight		
		A		B		C		D		E					
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		Lbs.	Kg.	
14	350	15	381	65.50	1660	24	610	21.00	533	1.38	35	29.38	892	405	
16	400	16	407	74.50	1892	24	610	23.50	597	1.44	37	33.50	1253	568	
18	450	17	432	82.50	2096	24	610	25.00	635	1.56	40	37.63	1598	725	
20	500	18	457	91.00	2311	30	762	27.50	699	1.69	43	41.88	2000	907	
24	600	20	508	107.50	2731	30	762	32.00	813	1.88	48	50.06	2909	1319	

*18", 20" and 24"

** 14" and 16"

 Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.


F-617-0
Flanged



F-617-0
Flg x Flg

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Class 125 All Iron Trim Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge

200 PSI/13.8 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°C*

Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar

125 PSI/8.6 bar saturated steam to 353°F/178°C

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Stem	Steel ASTM A108 12L14 Electroless NI-PI
2. Handwheel Nut	Ductile Iron ASTM A536
3. Identification Plate	Aluminum
4. Yoke Bushing	Ductile Iron ASTM A536
5. Handwheel	Cast Iron ASTM A126 Class B
6. Bonnet Cap Nut	Steel ASTM A563
7. Bonnet Cap	Ductile Iron ASTM A536
8. Bonnet ¹	Cast Iron ASTM A126 Class B
9. Bonnet Cap Bolt	Steel ASTM A307/SAE J429
10. Gland Follower Nut	Steel ASTM A563
11. Gland Follower	Ductile Iron ASTM A536
12. Packing Gland	Zinc Plated Powdered Iron ASTM B783 or Brass ASTM B16 Alloy C3600
13. Packing	PTFE Braided Synthetic Fiber
14. Gland Follower Bolt	Steel ASTM A307/SAE J429
15. Backseat Bushing	Steel ASTM A108 12L14
16. Body Nut	Steel ASTM A563
17. Body Bolt	Steel ASTM A307/SAE J429
18. Wedge Pin	Steel ASTM A108 12L14
19. Body	Cast Iron ASTM A126 Class B
20. Seat Ring	Cast Iron ASTM A126 Class B
21. Wedge Face	Cast Iron ASTM A126 Class B
22. Wedge	Cast Iron ASTM A126 Class B
23. Body Gasket	Synthetic Fibers
24. Stem Collar	Steel ASTM A108 12L14
25. Grease Fitting	Alemite 1743B (not shown)

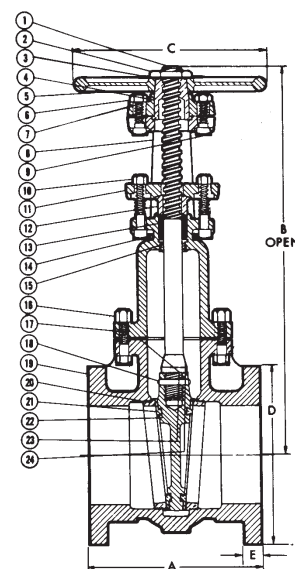
¹ Sizes thru 8" made with Yoke Integral with Bonnet. 10" and 12" sizes made with separate Yoke Bolted to Bonnet.



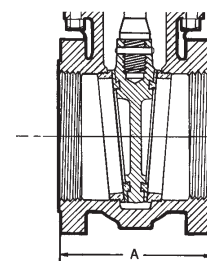
F-617-ON
Flanged



T-617-ON
Threaded



F-617-ON
Flg x Flg



T-617-ON
NPT x NPT

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions													
Size		F-617-ON		T-617-ON		A		B		C		D	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
2	50	7.00	178	5.63	143	16.31	414	8	203	6.00	152	.63	16
2½	65	7.50	191	5.88	149	17.19	437	8	203	7.00	178	.69	17
3	80	8.00	203	6.13	156	19.50	495	8	203	7.50	191	.75	19
4	100	9.00	229	6.50	165	24.00	610	10	254	9.00	229	.94	24
5	125	10.00	254	x	x	27.13	689	10	254	10.00	254	.94	24
6	150	10.50	267	x	x	31.06	789	12	305	11.00	279	1.00	25
8	200	11.50	292	x	x	40.19	1021	14	356	13.50	343	1.13	29
10	250	13.00	330	x	x	48.25	1226	16	406	16.00	406	1.19	30
12	300	14.00	356	x	x	56.88	1445	18	457	19.00	483	1.25	32

x = Not available this size.

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

Class 125 All Iron Trim Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge

150 PSI/10.3 bar non-shock cold working pressure from -20°F to 150°F/-29°C to 66°C*
Maximum working temperature 350°F/177°C at 100 PSI/6.9 bar
***100 PSI/6.9 bar saturated steam to 338°F/170°C**
****50 PSI/3.4 bar saturated steam to 297°F/147°C**

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Ductile Iron ASTM A536
2. Identification Tag	Aluminum
3. Handwheel	Fabricated Steel
4. Yoke Bushing	Ductile Iron ASTM A536
5. Split Yoke Bolt	Steel ASTM A307/SAE J429
6. Split Yoke Bolt Nut	Steel ASTM A307
7. Yoke	Cast Iron ASTM A126 Class B
8. Gland Follower Nut	Steel ASTM A563
9. Gland Follower	Ductile Iron ASTM A536
10. Yoke Bolt	Steel ASTM A307/SAE J429
11. Yoke Bolt Nut	Steel ASTM A563
12. Gland Follower Bolt	Steel ASTM A307/SAE J429
13. Packing Gland	Steel ASTM A 108 12L14
14. Packing	PTFE Braided
15. Backseat Bushing	Steel ASTM A108 12L14
16. Bonnet	Cast Iron ASTM A126 Class B
17. Stem	Steel ASTM A 108 12L14 Electroless Ni-P
18. Bonnet Bolt	Steel ASTM A307/SAE J429
19. Bonnet Bolt Nut	Steel ASTM A563
20. Bonnet Gasket	Synthetic Fibers
21. Body	Cast Iron ASTM A126 Class B
22. Wedge	Cast Iron ASTM A126 Class B
23. Seat Ring	Cast Iron ASTM A126 Class B
24. Grease Fitting	Alemite 1743B (not shown)
25. Swing Nut	Steel ASTM A563
26. Swing Bolt	Steel ASTM A307/SAE J429
27. Stem Collar	Steel ASTM A108 12L14 (not shown)
28. Wedge Pin	Steel ASTM A 108 12L14 (not shown)
29. Wedge Nut	Ductile Iron ASTM A536 (not shown)

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions															
Size		A		B		C		D		E		Turns to Open	Weight		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		Lbs.	Kg.	
14	350	15	381	65.50	1660	24	610	21.00	533	1.38	35	29.38	890	404	
16	400	16	407	74.50	1892	24	610	23.50	597	1.44	37	33.50	1252	568	
18*	450	17	432	82.50	2096	24	610	25.50	635	1.56	40	37.63	1595	724	
20*	500	18	457	91.00	2311	30	762	27.50	699	1.69	43	41.88	2001	907	
24*	600	20	508	107.50	2731	30	762	32.00	813	1.88	48	50.06	2879	1306	

*18", 20" and 24"

** 14" and 16"

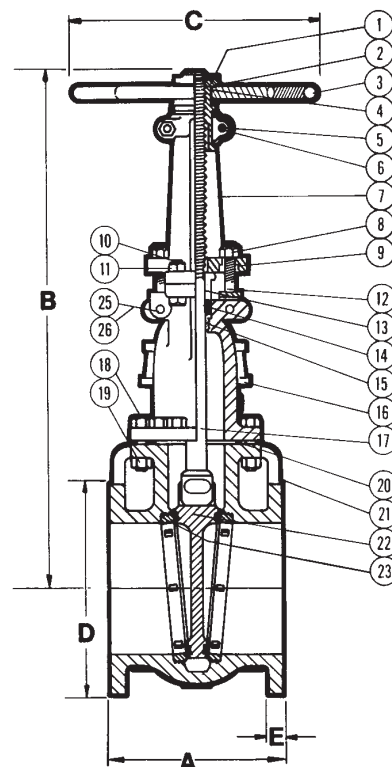
FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

 Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

F-617-ON

Flanged


F-617-ON

Flg x Flg

Class 125 Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Solid Wedge • Bronze Mounted

200 PSI/13.8 bar non-shock cold working pressure from -20°F to 150°F/-29°C to 66°C[†]
Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar
125 PSI/8.6 bar saturated steam to 353°F/178°C

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Steel ASTM A307
2. Identification Plate	Aluminum
3. Handwheel or Square Operating Nut	Cast Iron ASTM A126 Class B
4. Stem	Brass ASTM B16 Alloy C36000
5. Gland Follower Nut	Brass ASTM F467 Alloy C27000
6. Gland Follower	Cast Iron ASTM A126 Class B or Ductile Iron ASTM A536
7. Gland Follower Bolt	Steel ASTM A307/SAE J429
8. Packing Gland	Zinc Plated Powdered Iron ASTM B783 or Brass ASTM B16
9. Stuffing Box	Cast Iron ASTM A126 Class B
10. Packing	Synthetic Fibers with Graphite
11. Stuffing Box Gasket	Synthetic Fibers
12. Bonnet	Cast Iron ASTM A126 Class B
13. Body Bolt	ASTM A307/SAE J429
14. Body Gasket	Synthetic Fibers
15. Body Nut	Steel ASTM A307/SAE J429
16. ¹ Wedge Bushing	Brass ASTM B584 Alloy C84400
17. Seat Ring	Brass ASTM B584 Alloy C84400
18. Wedge Face Ring	Brass ASTM B584 Alloy C84400
19. ¹ Wedge	Cast Iron ASTM A126 Class B
20. Body	Cast Iron ASTM A126 Class B
21. Stuffing Box Nut	Steel ASTM A307 (not shown) /SAE J429

[†]Sizes thru 6" have Bronze Wedges. Sizes 8" thru 16" made with Cast Iron Wedge with Bronze Bushing and Wedge Face Rings.

NOTE: 14" thru 16" Maximum Steam Rating 100 PSI/6.9 Bar Maximum Non-Shock Cold Working Pressure 150 PSI/10.3 Bar

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions													
Size		F-619		T-619		B		C		D		E	
		In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
2	50	7.00	178	5.63	143	11.00	279	7	178	6.00	152	.63	16
2½	65	7.50	191	5.88	149	12.50	318	7	178	7.00	178	.69	17
3	80	8.00	203	6.13	156	13.50	343	8	203	7.50	191	.75	19
4	100	9.00	229	6.50	165	15.75	400	10	254	9.00	229	.94	24
5	125	10.00	254	x	x	17.00	432	10	254	10.00	254	.94	24
6	150	10.50	267	x	x	21.00	533	12	305	11.00	279	1.00	25
8	200	11.50	292	x	x	25.00	635	14	356	13.50	343	1.13	29
10	250	13.00	330	x	x	29.00	737	16	406	16.00	406	1.19	30
12	300	14.00	356	x	x	34.50	876	18	457	19.00	483	1.25	32
14	350	15.00	381	x	x	40.38	1026	24	610	21.00	533	1.38	35
16	400	16.00	407	x	x	45.75	1162	24	610	23.50	597	1.44	37

x Not available this size.

Position indicators available. See page 98.

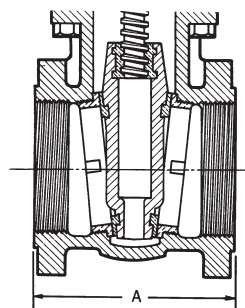
FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

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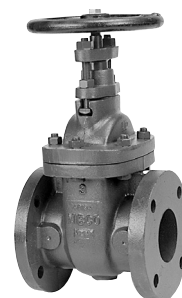
T-619
Threaded



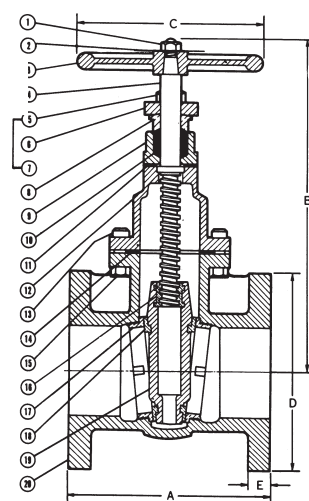
T-619
NPT x NPT



F-619-S0N
Flanged
With Square Op. Nut



F-619
Flanged



F-619
Flg x Flg

Class 125 All Iron Trim Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Solid Wedge

200 PSI/13.8 bar non-shock cold working pressure to -20° F to 150° F/-29° C to 66° C*

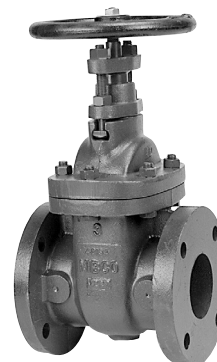
Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar

125 PSI/8.6 bar saturated steam to 353° F/178° C

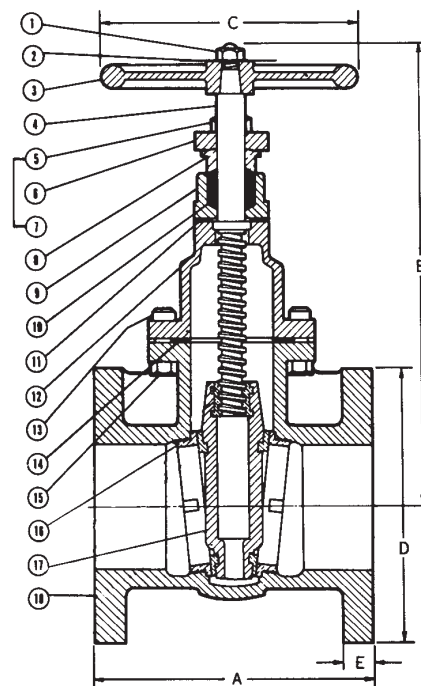
CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Steel ASTM A563
2. Identification Plate	Aluminum
3. Handwheel	Cast Iron ASTM A126 Class B
4. Stem	Steel ASTM A 108 12L14 Electroless Ni-Pi
5. Gland Follower Nut	Steel ASTM A563
6. Gland Follower	Ductile Iron ASTM A536
7. Gland Follower Bolt	Steel ASTM A307/SAE J429
8. Packing Gland	Zinc Plated Powdered Iron ASTM B783
9. Stuffing Box	Cast Iron ASTM A126 Class B
10. Packing	PTFE Braided
11. Stuffing Box Gasket	Synthetic Fibers
12. Bonnet	Cast Iron ASTM A126 Class B
13. Body Bolt	Steel ASTM A307/SAE J429
14. Body Gasket	Synthetic Fibers
15. Body Nut	Steel ASTM A563
16. Seat Ring	Cast Iron ASTM A126 Class B
17. Wedge	Cast Iron ASTM A126 Class B
18. Body	Cast Iron ASTM A126 Class B
19. Stuffing Box Nut	Steel ASTM A563 (not shown)



F-619-N
Flanged



F-619-N
Flg x Flg

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions													
Size		A		B		C		D		E		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	7.00	178	11.00	279	7	178	6.00	152	.63	16	35	16
2½	65	7.50	191	12.50	318	7	178	7.00	178	.94	17	49	22
3	80	8.00	203	13.50	343	8	203	7.50	191	.75	19	60	27
4	100	9.00	229	15.75	400	10	254	9.00	229	.94	24	90	41
5	125	10.00	254	17.00	432	10	254	10.00	254	.94	24	129	59
6	150	10.50	267	21.00	533	12	305	11.00	279	1.00	25	161	73
8	200	11.50	292	25.00	635	14	356	13.50	343	1.13	29	277	126
10	250	13.00	330	29.00	737	16	406	16.00	406	1.19	30	415	188
12	300	14.00	356	34.50	876	18	457	19.00	483	1.25	32	631	287
14*	350	15.00	381	40.38	1026	20	508	21.00	533	1.38	35	869	394
16*	400	16.00	407	45.75	1162	22	559	23.50	597	1.44	37	1224	555

* 14"–16" sizes rated to 100 PSI maximum steam service, 150 PSI Non-Shock Cold Working Pressure.
For higher pressures, see F-639.

x Not available this size.

Position indicators available. See page 98.

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

300 PSI CWP Iron Body Gate Valves

Fire Protection Valve • Outside Screw and Yoke • Resilient Wedge • Epoxy Coated Interior/Exterior • Pre-Grooved Stem for Supervisory Switch • Drilled, Tapped and Plugged at Boss Location A**

300 PSI/20.6 bar non-shock cold working pressure

UL/ULC LISTED† • FM APPROVED • CERTIFIED LEAD-FREE*
BY TRUESDAIL LABORATORIES TO NSF/ANSI 61 & 372

MATERIAL LIST

PART	SPECIFICATION
1 Valve Body	Ductile Iron ASTM A536
2 Resilient Wedge	Ductile Iron ASTM A536/EPDM ASTM D2000
3 Wedge Nut	ASTM B584 UNS C83600
4 Dowel Pin	ASTM A276 SS304
5 Stem Back Seat O-Ring	EPDM ASTM D2000
6 Bonnet Gasket	EPDM ASTM D2000
7 Bonnet	Ductile Iron ASTM A536
8 Stem Packing	EPDM ASTM D2000
9 Threaded Rod	ASTM A276 SS304
10 Gland Bushing	ASTM B584 UNS C83600
11 Gland	Ductile Iron ASTM A536
12 Gland Nut	ASTM B148 C95200 Aluminum Bronze
13 Yoke	Ductile Iron ASTM A536
14 Yoke Bushing	ASTM B150 C61400
15 Flat Point Set Screw	ASTM F912M
16 Yoke Bushing Retainer	Cast Iron ASTM A126 Class B
17 Handwheel	Ductile Iron ASTM A536
18 Handwheel Nut	Carbon Steel Zinc Plated
19 Stem	Stainless Steel 304
20 Bonnet Screw	Corrosion-resistant Steel
21 NPT Pipe Plug	Steel ASME B16.14
22 UL/FM Label (not shown)	Aluminium
23 Yoke Nut	ASTM B148 C95200 Aluminum Bronze
24 Drive Screw Label (not shown)	Stainless Steel 304

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
Meets or exceeds AWWA C550. Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.

**Drilled, tapped and plugged at Position A with 1/2" valve sizes 2 1/2"-4", 3/4" on 6"-8", 1" on 10"-12".

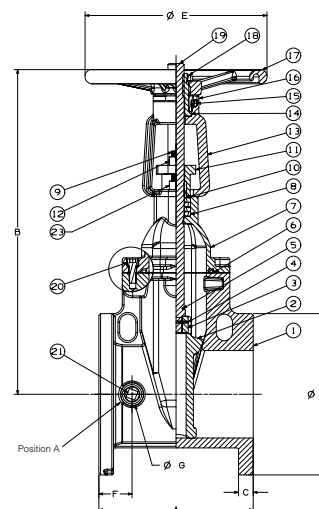
† Compliance with the Standard for Gate Valves for Fire Protection Service, UL 262, and the Canadian Requirements, ULC/ORD-C262.

NOTE: Flanged valve is consistent with ANSI B16.1 Class 125.



F-607-RWS

Flanged



F-607-RWS

Flg x Flg

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions																Bolt Circle		Flange Holes	Turns To Open	Weight	
		A		B Open		B Closed		C		D		E		F		G							
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.			Lbs.	Kg.
2½	65	7.5	190	17.8	453	14.9	378	0.69	17.5	7.0	178	7.9	200	1.50	38	1.42	36	5.50	140	4	6.3	39	18
3	80	8.0	203	19.7	500	15.9	405	0.75	19.0	7.5	191	7.9	200	1.73	44	1.42	36	6.00	152	4	10.0	44	20
4	100	9.0	229	21.0	534	16.6	422	0.94	24.0	9.0	229	10.2	260	2.13	54	1.42	36	7.50	191	8	10.0	72	33
6	150	10.5	267	29.3	744	22.9	581	1.00	25.4	11.0	279	12.4	315	2.24	57	1.54	39	9.50	241	8	15.0	117	53
8	200	11.5	292	37.0	939	28.5	724	1.13	28.6	13.5	343	14.8	375	2.48	63	1.54	39	11.75	298	8	16.7	198	90
10	250	13.0	330	44.8	1139	34.5	877	1.19	30.2	16.0	406	16.4	416	3.15	80	1.82	46	14.25	362	12	20.8	374	170
12	300	14.0	356	52.2	1326	39.9	1014	1.25	31.8	19.0	483	17.5	445	2.91	74	1.82	46	17.00	432	12	25.0	493	224
14*	350	15.0	375	62.2	1580	50.0	1270	1.38	35.0	21.0	533	19.7	500	2.95	75	3.20	81	18.75	476	12	43.8	620	284
16*	400	16.0	400	65.9	1674	50.4	1280	1.44	37.0	23.5	597	19.7	500	3.03	77	3.20	81	21.25	540	16	50.0	816	370

*14 and 16" valves 250 PSI CWP

*Weighted average lead content ≤ 0.25%

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

300 PSI CWP Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Resilient Wedge • Flanged Ends

300 PSI/20.6 bar non-shock cold working pressure

 MEETS/EXCEEDS PERFORMANCE REQUIREMENTS OF AWWA
 C509 & C515 • CERTIFIED LEAD-FREE* BY TRUESDAIL
 LABORATORIES TO NSF/ANSI 61 AND 372

 NSF/ANSI 61
 NSF/ANSI 372

MATERIAL LIST

PART	SPECIFICATION
1 Valve Body	Ductile Iron ASTM A536
2 Resilient Wedge	Ductile Iron ASTM A536 / EPDM ASTM D2000
3 Wedge Nut	ASTM B584 UNS C83600
4 Stem	Stainless Steel 304
5 Bonnet Gasket	EPDM ASTM D2000
6 Bonnet Screw	Corrosion-resistant Steel
7 Bonnet	Ductile Iron ASTM A536
8 Stem Primary O-Ring	EPDM ASTM D2000
9 Stem Thrust Washer (lower)	Bronze ASTM B584 UNS C83600
10 Stem Thrust Washer (upper)	Stainless Steel ASTM A276 UNS S41000
11 Gland Seal O-Ring	EPDM ASTM D2000
12 Stem Seal Bushing	ASTM B584 UNS C83600
13 Stem Secondary O-Ring	EPDM ASTM D2000
14 Gland Flange	Ductile Iron ASTM A536
15 Stem Ring Wiper	EPDM ASTM D2000

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
 Meets or exceeds performance requirements of AWWA C550.
 Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.

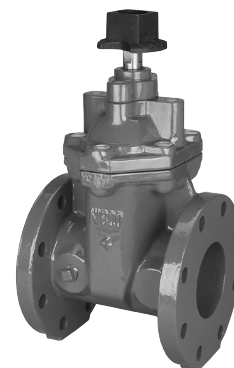
NOTE: Flanged valve is consistent with ANSI B16.1 Class 125.

NOTE: 14" & 16" sizes rated to 250 psi

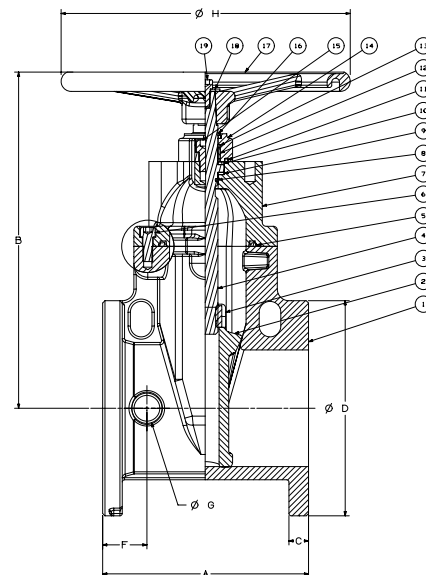
FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.



F-619-RWS
 Flanged



F-619-RWS-SON
 Flanged



F-619-RWS

Flg x Flg

Shown with optional handwheel,
 square operating nut not shown

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions										Bolt Circle		Flange Holes	Turns to Open	Weight					
		A		B		C		D		F								G		H	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.		
2	50	7.0	178	10.0	255	0.63	16.0	6.0	152	1.42	36	1.6	40	7.9	200	4.75	121	4	6.3	22	10
2½	65	7.5	190	11.3	287	0.69	17.5	7.0	178	1.50	38	1.6	40	7.9	200	5.50	140	4	8.1	29	13
3	80	8.0	203	12.6	321	0.75	19.0	7.5	191	1.73	44	1.42	36	10.2	260	6.00	152	4	10.0	35	16
4	100	9.0	229	13.5	344	0.94	24.0	9.0	229	2.13	54	1.42	36	10.2	260	7.50	191	8	12.5	75	34
6	150	10.5	267	17.4	441	1.00	25.4	11.0	279	2.24	57	1.54	39	14.8	375	9.50	241	8	15.0	105	48
8	200	11.5	292	20.8	529	1.13	28.6	13.5	343	2.48	63	1.54	39	14.8	375	11.75	298	8	16.7	163	74
10	250	13.0	330	24.2	614	1.19	30.2	16.0	406	2.56	65	1.82	46	15.7	400	14.25	362	12	20.8	256	116
12	300	14.0	356	27.6	700	1.25	31.8	19.0	483	2.91	74	1.82	46	19.7	500	17.00	432	12	25.0	399	181
14	350	15.0	381	31.8	807	1.38	35.0	21.0	533	2.95	75	3.1	80	19.7	500	18.75	476	12	43.8	620	281
16	400	16.0	406	34.1	869	1.46	37.0	23.5	597	3.00	77	3.1	80	19.7	500	21.25	540	16	50.0	816	370

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

*Weighted average lead content ≤ 0.25%

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www.nibco.com

300 PSI CWP Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Resilient Wedge • Mechanical Joint Ends

300 PSI/20.6 bar non-shock cold working pressure

MEETS/EXCEEDS PERFORMANCE REQUIREMENTS OF AWWA
C509 & C515 • CERTIFIED LEAD-FREE* BY TRUESDAIL
LABORATORIES TO NSF/ANSI 61 & 372

MATERIAL LIST

PART	SPECIFICATION
1 Valve Body	Ductile Iron ASTM A536
2 Resilient Wedge	Ductile Iron ASTM A536 / EPDM ASTM D2000
3 Wedge Nut	ASTM B584 UNS C83600
4 Stem	Stainless Steel 304
5 Bonnet Gasket	EPDM ASTM D2000
6 Bonnet Screw	Corrosion-resistant Steel
7 Bonnet	Ductile Iron ASTM A536
8 Stem Primary O-Ring	EPDM ASTM D2000
9 Stem Thrust Washer (lower)	Bronze ASTM B584 UNS C83600
10 Stem Thrust Washer (upper)	Stainless Steel ASTM A276 UNS S41000
11 Gland Seal O-Ring	EPDM ASTM D2000
12 Stem Seal Bushing	ASTM B584 UNS C83600
13 Stem Secondary O-Ring	EPDM ASTM D2000
14 Gland Flange	Ductile Iron ASTM A536
15 Stem Ring Wiper	EPDM ASTM D2000

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
Meets or exceeds performance requirements of AWWA C550.
Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.

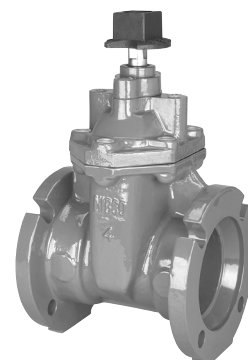
NOTE: Flanged valve is consistent with ANSI B16.1 Class 125.

NOTE: 14" & 16" sizes rated to 250 psi

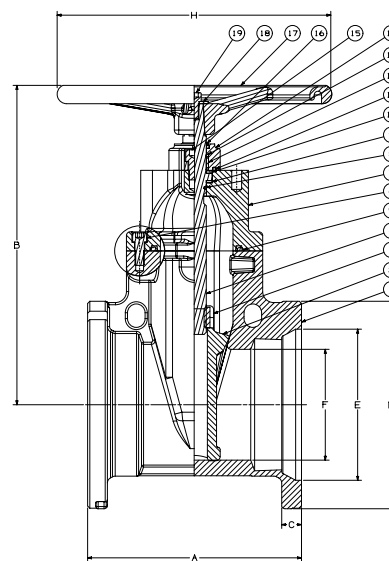
FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.



MJ-619-RWS
Mechanical Joint



MJ-619-RWS-SON
Mechanical Joint



MJ-619-RWS
MJ x MJ
square operating nut not shown

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions														Bolt Circle		Flange Holes	Turns to Open	Weight	
		A		B		C		D		E		F		H							
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.		
3	80	8.0	203	12.7	322	0.94	24	7.7	196	4.9	126	3.1	80	10.2	260	6.19	157	4	10.0	39	16
4	100	10.0	254	13.5	344	1.00	26	9.1	232	6.0	153	3.9	100	10.2	260	7.50	191	4	12.5	64	33
6	150	11.5	292	17.4	441	1.06	27	11.1	283	8.1	206	5.9	150	14.8	375	9.50	241	6	15.0	104	46
8	200	11.5	292	20.8	529	1.12	28	13.4	340	10.3	261	7.9	200	14.8	375	11.75	298	6	16.7	161	67
10	250	13.0	330	24.2	614	1.18	30	15.7	400	12.3	313	9.8	250	15.7	400	14.00	356	8	20.8	262	107
12	300	14.0	356	27.6	700	1.25	32	18.0	456	14.4	367	11.8	300	19.7	500	16.25	413	8	25.0	406	160
14	350	15.0	381	31.8	807	1.34	34	20.5	516	16.5	420	13.8	350	19.7	500	18.75	476	10	43.8	573	259
16	400	16.0	406	34.2	869	1.38	35	22.5	573	18.6	474	15.7	400	19.7	500	21.00	533	12	50.0	765	348

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

250 PSI CWP Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Resilient Wedge • IPS PVC Push-On

250 PSI/17.2 bar non-shock cold working pressure

CERTIFIED LEAD-FREE* BY IAPMO R&T TO NSF/ANSI 372
END CONNECTION DESIGNED FOR USE WITH PVC ASTM D1785,
PVC AND/OR ASME B36.10 STEEL

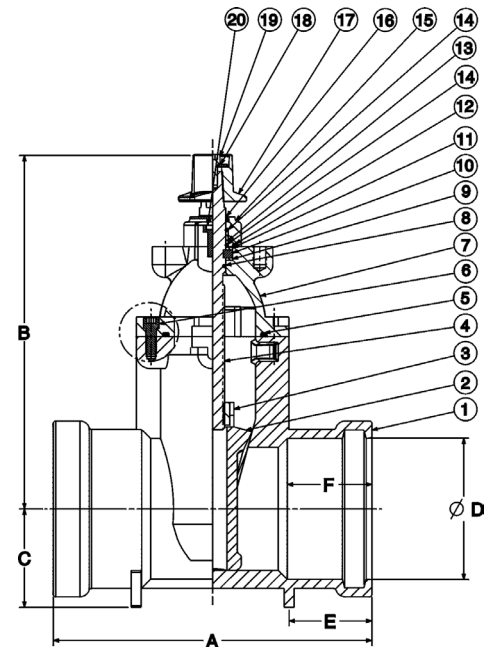


P-619-RW
IPS Push-On

MATERIAL LIST

PART	SPECIFICATION
1. Valve Body	Cast Iron ASTM A126-B
2. Resilient Wedge	Ductile Iron ASTM A536/EPDM ASTM D 2000
3. Wedge Nut	Bronze ASTM B584 UNS C83600
	4" - 12" ASTM B584 UNS C92200 2" - 3"
4. Stem	Stainless Steel ASTM A 276 UNS S41000
5. Bonnet Gasket	EPDM ASTM D 2000
6. Bonnet Screw	18-8 Stainless Steel ASTM A193
7. Bonnet	Cast Iron ASTM A126-B
8. Stem Primary O-Ring	EPDM ASTM D 2000
9. Stem Thrust Washer (lower)	Nylon 1010
10. Stem Collar	Brass ASTM B 16 UNS C36000
11. Stem Thrust Washer (upper)	Stainless Steel ASTM A 276 UNS S41000
12. Gland Seal O-Ring	EPDM ASTM D 2000
13. Stem Seal Bushing	Nylon 1010
14. Stem Secondary O-Ring (2)	EPDM ASTM D 2000
15. Gland Flange	Ductile Iron ASTM A536
16. Stem Ring Wiper	EPDM ASTM D 2000
17. Square Operating Nut	Cast Iron ASTM A126-B
17A. Handwheel (Optional)	Ductile Iron ASTM A536
18. Operating Nut Washer	Carbon Steel Zinc Plated
19. Operating Nut Screw	Alloy Steel ASTM A 574M Zinc Plated
20. Gland Flange Screw	Alloy Steel ASTM A 574M Zinc Plated

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
Meets or exceeds performance requirements of AWWA C550.
Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.
Maximum operating temperature 160°F/71°C.



P-619-RW
IPS Push-On

DIMENSIONS — WEIGHTS — QUANTITIES

Size		Dimensions										Handwheel (Opt.)		Turns to Open	Weight			
		A		B		C		D		E							F	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	
2	50	11.4	289	10.2	259	2.4	60	2.48	63	2.3	58	2.7	69	7.9	200	6.5	24	11
2½	65	11.4	289	11.3	288	2.6	67	2.99	76	2.3	58	2.7	69	7.9	200	8.8	32	15
3	80	11.3	287	12.7	322	3.1	80	3.62	92	2.2	56	3.0	75	10.2	250	10.6	40	18
4	100	11.7	298	13.4	341	3.5	90	4.65	118	2.5	63	3.5	89	10.2	260	12.8	56	25
6	150	15.3	388	17.0	431	4.7	120	6.77	172	4.0	101	4.1	103	14.8	375	15.6	106	48
8	200	16.5	418	20.4	518	5.9	150	8.74	222	3.0	77	4.5	115	14.8	375	17.3	172	78
10	250	21.2	539	23.8	604	7.1	180	10.94	278	3.7	93	5.2	132	15.7	400	21.3	307	140
12	300	26.5	672	27.0	685	8.1	206	12.89	327.5	4.1	103	5.5	139	19.7	500	25.3	447	203

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

*Weighted average lead content ≤ 0.25%

250 PSI CWP Iron Body Gate Valve

Bolted Bonnet • Non-Rising Stem • Resilient Wedge

250 PSI/17.2 bar non-shock cold working pressure

CONFORMS TO AWWA C509

EPOXY MEETS OR EXCEEDS AWWA C550

END CONNECTIONS DESIGNED FOR USE WITH C900 PVC PIPE

CERTIFIED LEAD-FREE* BY IAPMO R&T TO NSF/ANSI 372

MATERIAL LIST

PART	SPECIFICATION
1. Valve Body	Ductile Iron ASTM A536
2. Resilient Wedge	Ductile Iron Disc Encapsulated by EPDM ASTM D 2000
3. Wedge Nut	Bronze ASTM B584 Alloy C83600
4. Stem	Aluminum Bronze ASTM B 150 Alloy C61400
5. Bonnet Gasket	EPDM ASTM D 2000
6. Bonnet Screw	18-8 Stainless Steel ASTM A193
7. Bonnet	Ductile Iron ASTM A536
8. Stem Primary O-Ring	EPDM ASTM D 2000
9. Stem Thrust Washer (lower)	Bronze ASTM B584
10. Stem Thrust Washer (upper)	Stainless Steel ASTM A 276 UNS S 41000
11. Gland Seal O-Ring	EPDM ASTM D 2000
12. Stem Seal Bushing	Bronze ASTM B584
13. Stem Secondary O-Ring (2)	EPDM ASTM D 2000
14. Gland Flange	Ductile Iron ASTM A536
15. Wiper Ring - Stem	EPDM ASTM D 2000
16. Nut, Wrench - Square	Iron ASTM A126-B
17. Washer, Wrench Nut	Carbon Steel, DIN 9021 B
18. Screw WR Nut	Alloy Steel ASTM A 574 M Zinc Plated
19. Screw, Gland Flange	Alloy Steel ASTM A 574 M Zinc Plated
20. Handwheel (Optional)	Ductile ASTM A536 (not pictured)

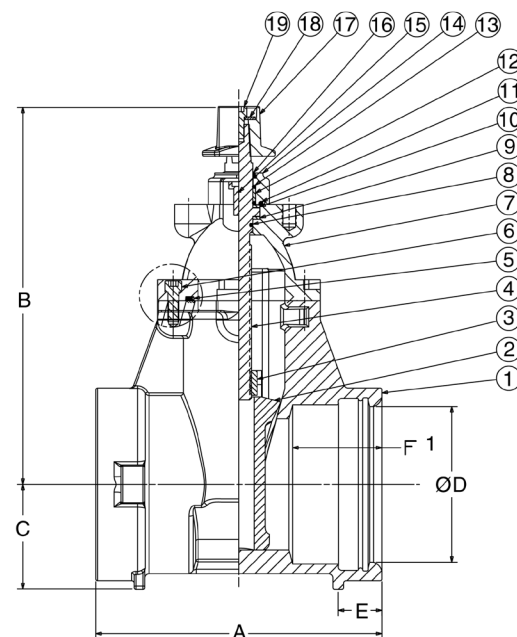
Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
Meets or exceeds performance requirements of AWWA C550.
Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.

Maximum operating temperature 160°F/71°C.



PCR-619-RW

Ductile IPS Push-On



DIMENSIONS — WEIGHTS — QUANTITIES

Size		A		B		C		D		E		F		Hand Wheel (Optional)		Turns to Open	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		Lbs.	Kg.
4	100	10.7	272	13.5	342	3.5	90	4.9	125	1.8	46	3.5	89	10.2	260	13.0	62	28
6	150	12.9	327	17.0	432	4.7	120	7.0	178	2.0	50	4.0	102	14.8	375	15.6	106	48
8	200	15.6	396	20.4	519	5.9	150	9.2	233	2.5	64	4.5	114	14.8	375	17.3	187	85
10	250	17.0	432	23.8	605	8.0	203	11.2	285	2.4	60	5.2	132	15.7	400	21.4	286	130
12	300	18.0	457	27.0	686	9.5	242	13.3	338	2.5	64	5.5	140	19.7	500	25.3	418	190

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

*Weighted average lead content ≤ 0.25%

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

250 PSI CWP Iron Body Gate Valve

Bolted Bonnet • Non-Rising Stem • Resilient Wedge

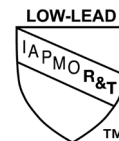
250 PSI/17.2 bar non-shock cold working pressure

CONFORMS TO AWWA C509

EPOXY MEETS OR EXCEEDS AWWA C550

END CONNECTIONS DESIGNED FOR USE WITH C900 PVC PIPE

CERTIFIED LEAD-FREE* BY IAPMO R&T TO NSF/ANSI 372



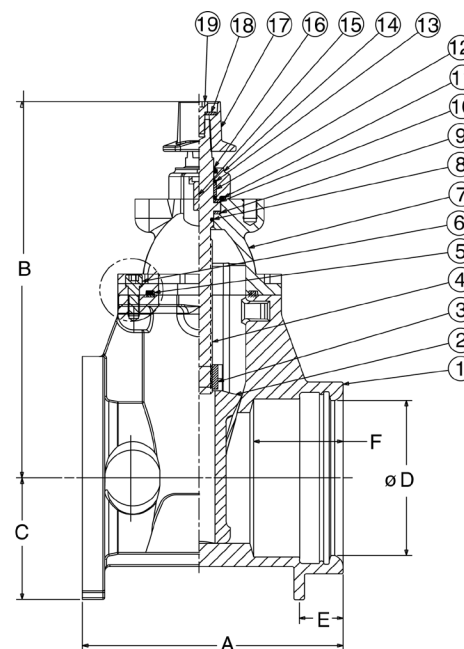
FPCR-619-RW

MATERIAL LIST

PART	SPECIFICATION
1. Valve Body	Ductile Iron ASTM A536
2. Resilient Wedge	Ductile Iron Encapsulated by EPDM ASTM D 2000
3. Wedge Nut	Bronze ASTM B584 Alloy C83600
4. Stem	Aluminum Bronze ASTM B 150 Alloy C61400
5. Bonnet Gasket	EPDM ASTM D 2000
6. Bonnet Screw	18-8 Stainless Steel ASTM 193
7. Bonnet	Ductile Iron ASTM A536
8. Stem Primary O-Ring	EPDM ASTM D 2000
9. Stem Thrust Washer (lower)	Bronze ASTM B584
10. Stem Thrust Washer (upper)	Stainless Steel ASTM A 276 UNS S 41000
11. Gland Seal O-Ring	EPDM ASTM D 2000
12. Stem Seal Bushing	Bronze ASTM B584
13. Stem Secondary O-Ring (2)	EPDM ASTM D 2000
14. Gland Flange	Ductile Iron ASTM A536
15. Wiper Ring - Stem	EPDM ASTM D 2000
16. Nut, Wrench - Square	Iron ASTM A126-B
17. Washer, Wrench Nut	Carbon Steel, DIN 9021 B
18. Screw WR Nut	Alloy Steel ASTM A 574 M Zinc Plated
19. Screw, Gland Flange	Alloy Steel ASTM A 574 M Zinc Plated
20. Handwheel (Optional)	Ductile ASTM A536 (not pictured)

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.
Meets or exceeds performance requirements of AWWA C550.
Epoxy coating is not intended to serve as a dielectric barrier internal to the piping system.

Maximum operating temperature 160°F/71°C.



DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions												Hand Wheel (Optional)		Bolt Circle		Flange Holes	Turns to Open	Weight	
		A		B		C		D		E		F									
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.		
4	100	9.8	250	13.5	342	4.5	115	4.9	125	1.8	46	3.5	89	10.2	260	7.50	191	8	13.0	70	32
6	150	11.7	297	17.0	432	5.5	140	7.0	178	2.0	50	4.0	102	14.8	375	9.50	241	8	15.6	117	53
8	200	13.5	344	20.4	519	6.8	172	9.2	233	2.5	64	4.5	114	14.8	375	11.75	298	8	17.3	198	90
10	250	15.0	381	23.8	605	8.0	203	11.2	285	2.4	60	5.2	132	15.7	400	14.25	362	12	21.4	297	135
12	300	16.0	406	27.0	686	9.5	242	13.3	338	2.5	64	5.5	140	19.7	500	17.00	432	12	25.3	429	195

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

Class 250 Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge • Bronze Mounted

500 PSI/34.5 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°C♦
Maximum working temperature 450°F/232°C at 250 PSI/17.2 bar
250 PSI/17.2 bar saturated steam to 406°F/208°C

CONFORMS TO MSS SP-70 • APPROVED BY THE
NEW YORK CITY B.S.A. 143-69-SA AT 350 PSI
NON-SHOCK COLD WATER

MATERIAL LIST

PART	SPECIFICATION
1. Stem	Brass ASTM B16 Alloy C36000
2. Handwheel Nut	Brass ASTM B584 Alloy C84400
3. Identification Plate	Aluminum
4. Yoke Bushing	Brass ASTM B584 Alloy C84400
5. Handwheel	Cast Iron ASTM A126 Class B
6. Bonnet Cap Nut	Steel ASTM A563
7. Bonnet Cap	Ductile Iron ASTM A536
8. Bonnet ¹	Cast Iron ASTM A126 Class B
9. Bonnet Cap Bolt	Steel ASTM A307/SAE J429
10. Gland Follower Nut	Brass ASTM F467 Alloy C27000
11. Gland Follower	Ductile Iron ASTM A536
12. Packing Gland	Zinc Plated Powdered Iron ASTM B783 or Brass ASTM B16 Alloy C36000
13. Packing	PTFE Braided Synthetic Fiber
14. Gland Follower Bolt	Steel ASTM A307/SAE J429
15. Backseat Bushing	Brass ASTM B584 Alloy C84400
16. Body Nut	Steel ASTM A563
17. Body Gasket	Reinforced Graphite
18. Body Bolt	Steel ASTM A307/SAE J429
19. Body	Cast Iron ASTM A126 Class B
20. Stem Collar	Brass ASTM B16 Alloy C36000
21. Wedge ²	Cast Iron ASTM A126 Class B
22. Wedge Nut ³	Brass ASTM B584 Alloy C84400
23. Wedge Pin	ASTM B140 Alloy C31400
24. Seat Ring	Brass ASTM B584 Alloy C84400
25. Wedge Face Ring ²	Brass ASTM B584 Alloy C84400

¹Sizes 2" thru 8" made with Yoke Integral with Bonnet. Sizes 8" thru 12" made with separate Yoke Bolted to Bonnet.

²Wedge construction - 2" thru 4" all bronze.

- 5" thru 12" Cast Iron with Bronze Wedge Face Rings.

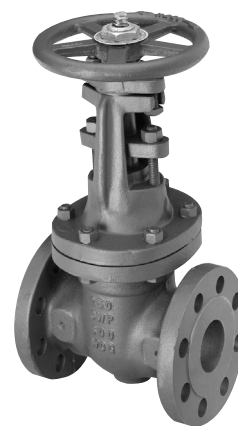
³Bronze Wedge Nuts used on sizes 5" thru 12".

DIMENSIONS—WEIGHTS—QUANTITIES

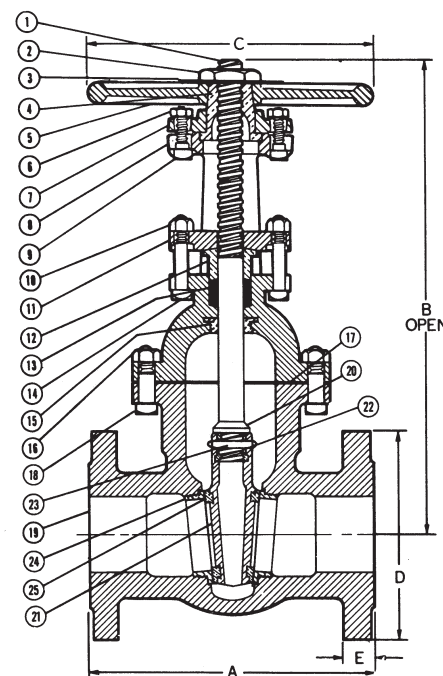
		Dimensions										Weight	
Size		A	B	C	D	E						Lbs.	Kg.
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
2	50	8.50	216	16.00	406	8	203	6.50	165	.88	22	56	25
2½	65	9.50	241	18.44	468	8	203	7.50	191	1.00	25	74	34
3	80	11.13	283	20.50	521	10	254	8.25	210	1.13	29	122	55
4	100	12.00	305	27.00	686	12	305	10.00	254	1.25	32	193	87
5	125	15.00	381	31.50	800	12	305	11.00	279	1.38	35	297	135
6	150	15.88	403	33.00	838	16	406	12.50	318	1.44	37	411	187
8	200	16.50	419	45.50	1156	16	406	15.00	381	1.63	41	637	289
10	250	18.00	457	56.00	1422	20	508	17.50	445	1.88	48	897	407
12	300	19.75	502	60.00	1524	20	508	20.50	521	2.00	51	1172	532

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

F-667-O

Flanged


F-667-O

Flg x Flg

Class 250 Iron Body Gate Valves

Bolted Bonnet • Non-Rising Stem • Solid Wedge • Bronze Mounted

500 PSI/34.5 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°C*
Maximum working temperature 450°F/232°C at 250 PSI/17.2 bar
250 PSI/17.2 bar saturated steam to 406°F/208°C

CONFORMS TO MSS SP-70

MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Steel ASTM A563
2. Identification Plate	Aluminum
3. Handwheel	Cast Iron ASTM A126 Class B
4. Stem	Brass ASTM B16 Alloy C36000
5. Gland Follower Nut	Brass ASTM F 467 Alloy C27000
6. Gland Follower	Cast Iron ASTM A126 Class B or Ductile Iron ASTM A536
7. Gland Follower Bolt	Steel ASTM A307/SAE J429
8. Packing Gland	Zinc Plated Powdered Iron ASTM B783 or Brass ASTM B16
9. Stuffing Box	Cast Iron ASTM A126 Class B
10. Packing	PTFE Braided
11. Stuffing Box Gasket	Reinforced Graphite
12. Stuffing Box Bolt	Steel ASTM A307/SAE J429
13. Stuffing Box Nut	Steel ASTM A563
14. Body Bolt	Steel ASTM A307/SAE J429
15. Bonnet	Cast Iron ASTM A126 Class B
16. Body Gasket	Reinforced Graphite
17. Body Nut	Steel ASTM A307
18. ² Wedge Nut	Brass ASTM B584 Alloy C84400
19. Seat Ring	Brass ASTM B584 Alloy C84400
20. ¹ Wedge Face Ring	Brass ASTM B584 Alloy C84400
21. ¹ Wedge	Cast Iron ASTM A126 Class B
22. Body	Cast Iron ASTM A126 Class B

¹Sizes thru 3" have Bronze Wedges. 4" thru 12" have Cast Iron Wedges with Bronze Wedge Face Rings.

²Bronze Wedge Bushing cast in place on 4" Wedge. Bronze Wedge Nut used in sizes 5" thru 12".

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions													
Size		A		B		C		D		E		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	8.50	216	13.50	343	7	178	6.50	165	.88	22	53	24
2½	65	9.50	241	15.00	381	8	203	7.50	191	1.00	25	72	33
3	80	11.13	283	16.50	419	10	254	8.25	210	1.13	29	115	52
4	100	12.00	305	18.50	470	12	305	10.00	254	1.25	32	186	85
5	125	15.00	381	20.75	527	12	305	11.00	279	1.38	35	269	122
6	150	15.88	403	24.00	610	16	406	12.50	318	1.44	37	374	170
8	200	16.50	419	28.50	724	16	406	15.00	381	1.63	41	581	264
10	250	18.00	457	34.00	864	18	457	17.50	445	1.88	48	786	357
12	300	19.75	502	36.00	914	20	508	20.50	521	2.00	51	1098	498

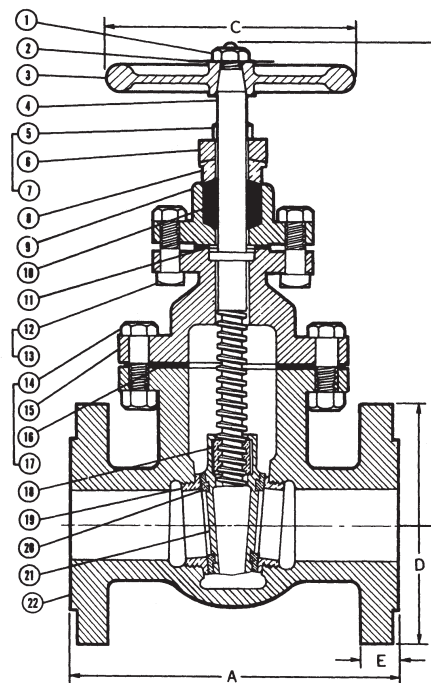
Position indicators available. See page 98.

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

 Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.


F-669
Flanged



F-669
Flg x Flg