

# DUCTILE IRON RESILIENT WEDGE GATE VALVES

## 300 PSI CWP 619-RWS SERIES

### APPLICATIONS

- Non-rising stem gate valves for water systems
- Valves are designed for bubble tight service
- 300 PSI CWP/20.6 BAR
- 160°F/71°C maximum operating temperature at 250 psi
- Potable water

### MATERIALS & CONSTRUCTION

- Ductile iron body with 304 stainless steel stem
- EPDM encapsulated ductile iron wedge
- EPDM bonnet gasket for a positive seal
- Unique countersunk bonnet bolt design limits exposure of corrosion-resistant coated steel bolts for increased valve service life
- Low-torque operation
- Full diameter waterway

### DESIGN CRITERIA

- Valves meet or exceed performance requirements of AWWA C509 & 515
- Fusion-bonded epoxy coating meets or exceeds performance requirements of AWWA C550
- Third-party certified to NSF/ANSI 61 and 372

\*Weighted average lead content  $\leq$  0.25%



**F-619-RWS**

Flanged



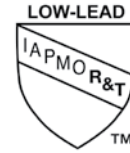
**FM-619-RWS**

Flanged x Mechanical Joint



**MJ-619-RWS**

Mechanical Joint



# 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 IAPMO R&T TO NSF/ANSI 61 AND 372



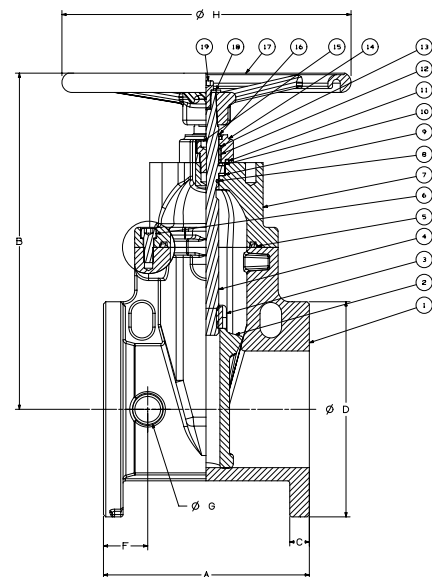
**F-619-RWS**

Flanged



**F-619-RWS-SON**

Flanged



**F-619-RWS**

Flg x Flg

Shown with optional handwheel

### 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
16 Square Operating Nut	Cast Iron ASTM A126-B
17 Operating Nut Washer	DIN 9021 B Carbon Steel Zinc Plated
18 Operating Nut Screw	Alloy Steel ASTM A574M Zinc Plated
19 Gland Flange Screw	Alloy Steel ASTM A574M Zinc Plated
20 Indicator Flange Screw	Alloy Steel ASTM A574M Zinc Plated
21 Indicator Post Flange	Cast Iron ASTM A126-B
22 UL/FM Label (not shown)	Aluminium
23 Drive Screw, Label (not shown)	Stainless Steel 304

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.  
Meets or exceeds performance requirements of AWWA C550.

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

### 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.	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

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

\*Weighted average lead content ≤ 0.25%

# 300 PSI CWP Iron Body Gate Valves

Bolted Bonnet • Non-rising Stem • Resilient Wedge • MJ Ends

## 300 PSI/20.6 Bar Non-Shock Cold Working Pressure

MEETS/EXCEEDS PERFORMANCE REQUIREMENTS OF AWWA C509 & C515  
CERTIFIED LEAD-FREE\* BY IAPMO R&T TO NSF/ANSI 61 AND 372



**MJ-619-RWS**

Mechanical Joint



**MJ-619-RWS-SON**

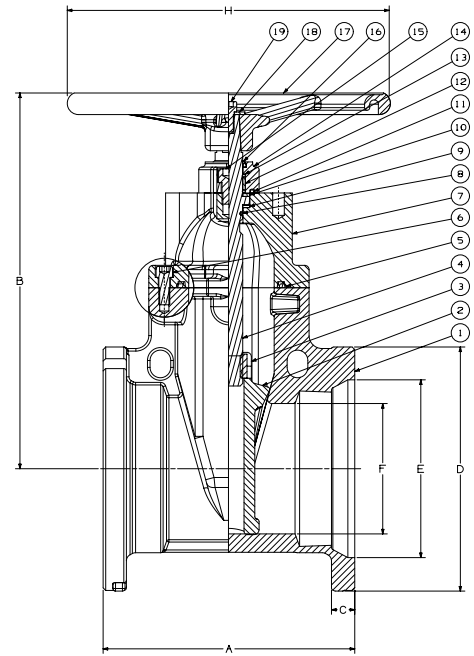
Mechanical Joint

### 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
16 Square Operating Nut	Cast Iron ASTM A126-B
17 Operating Nut Washer	DIN 9021 B Carbon Steel Zinc Plated
18 Operating Nut Screw	Alloy Steel ASTM A574M Zinc Plated
19 Gland Flange Screw	Alloy Steel ASTM A574M Zinc Plated
20 Indicator Flange Screw	Alloy Steel ASTM A574M Zinc Plated
21 Indicator Post Flange	Cast Iron ASTM A126-B
22 UL/FM Label (not shown)	Aluminium
23 Drive Screw, Label (not shown)	Stainless Steel 304

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil.  
Meets or exceeds performance requirements of AWWA C550.

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



**MJ-619-RWS**  
MJ x MJ

### DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions														Bolt Circle	Flange Holes	Turns to Open	Weight			
	In.	mm.	A In.	mm.	B In.	mm.	C In.	mm.	D In.	mm.	E In.	mm.	F In.	mm.				H 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

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

\*Weighted average lead content ≤ 0.25%

# 300 PSI CWP Iron Body Gate Valve

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

**300 PSI/20.6 Bar Non-Shock Cold Working Pressure**

MEETS/EXCEEDS PERFORMANCE REQUIREMENTS OF AWWA C509 & C515  
CERTIFIED LEAD-FREE\* BY IAPMO R&T TO NSF/ANSI 61 AND 372



**FM-619-RWS**

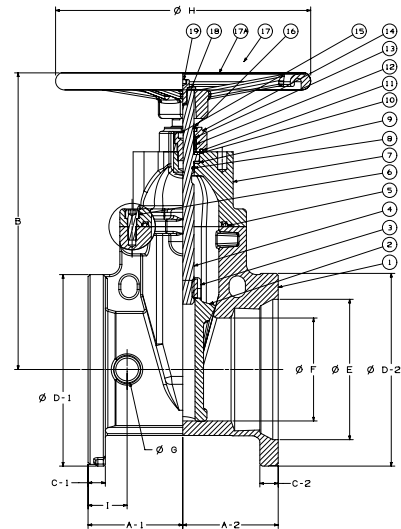


**FM-619-RWS-SON**

## 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
16 Square Operating Nut	Cast Iron ASTM A126-B
17 Operating Nut Washer	DIN 9021 B Carbon Steel Zinc Plated
18 Operating Nut Screw	Alloy Steel ASTM A574M Zinc Plated
19 Gland Flange Screw	Alloy Steel ASTM A574M Zinc Plated
20 Indicator Flange Screw	Alloy Steel ASTM A574M Zinc Plated
21 Indicator Post Flange	Cast Iron ASTM A126-B
22 UL/FM Label (not shown)	Aluminium
23 Drive Screw, Label (not shown)	Stainless Steel 304

Coating — Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside.  
Meets or exceeds performance requirements of AWWA C550



**FM-619-RWS**  
Flg x MJ

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions																		
	A-1		A-2		B		C-1		C-2		D-1		D-2		E		F		
In. mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	
3	80	4.0	101.5	4.0	101.5	12.6	321	0.75	19.0	0.94	24	7.5	191	7.7	195.3	4.9	126	3.1	80
4	100	4.75	114.5	4.75	127.0	13.5	344	0.94	24.0	1.00	26	9.0	229	9.1	232.0	6.0	153	3.9	100
6	150	5.5	133.5	5.5	146.0	17.4	441	1.00	25.4	1.06	27	11.0	279	11.1	282.5	8.1	206	5.9	150
8	200	5.75	146.0	5.75	146.0	20.8	529	1.13	28.6	1.12	28	13.5	343	13.4	339.6	10.3	261	7.9	200
10	250	6.5	165.0	6.5	165.0	24.2	614	1.19	30.2	1.18	30	16.0	406	15.6	396.8	12.3	313	9.8	250
12	300	7.0	178.0	7.0	178.9	27.6	700	1.25	31.8	1.25	32	19.0	483	17.9	454.2	14.4	367	11.8	300

Size	Dimensions										No. holes Flanged	No. holes M-Joint	Turns to Open	Weight		
	G		H		I		Flanged B.C.		MJ B.C.					Lbs.	Kg.	
In. mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
3	80	1.42	36	10.2	260	1.73	44	6.00	152	6.19	157	4	4	10.0	40	16
4	100	1.42	36	10.2	260	2.13	54	7.50	191	7.50	191	8	4	12.5	64	33
6	150	1.54	40	14.8	375	2.24	57	9.50	241	9.50	241	8	6	15.0	104	47
8	200	1.54	40	14.8	375	2.48	63	11.75	298	11.75	298	8	6	16.7	167	71
10	250	1.82	46	15.7	400	3.15	65	14.25	362	14.00	356	12	8	20.8	271	112
12	300	1.82	46	19.7	500	2.91	74	17.01	432	16.25	413	12	8	25.0	430	171

### END CONNECTIONS

- A-1 Center to face on Flanged end
- A-2 Center to face on MJ end
- B Center to top of stem
- C-1 Flange thickness on Flanged end
- C-2 Flange thickness on MJ end
- D-1 Flange O.D. on Flanged end
- D-2 Flange O.D. on MJ end
- E O-ring groove diameter or MJ end
- F Waterway diameter
- G Boss diameter on Flanged end
- H Handwheel diameter
- I Face to center of boss on Flanged end

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

\*Weighted average lead content ≤ 0.25%