

DUCTILE IRON RESILIENT WEDGE GATE VALVES

**300 PSI CWP
607/609-RWS SERIES**

APPLICATIONS

- Non-rising stem and OS&Y gate valves for fire protection and 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

MATERIALS & CONSTRUCTION

- Ductile iron body with 304 stainless steel stem
- EPDM encapsulated ductile iron wedge
- Specially designed NRS post indicator gate valve that allows simple removal of post indicator flange to convert valve to standard NRS AWWA gate valve
- 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

- UL/ULC Listed
- FM Approved
- Valves meet or exceed performance requirements of AWWA C509 & 515 for 3" and larger sizes
- 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 ≤ 0.25%



F-607-RWS
Flanged



FM609-RWS
Flanged x Mechanical Joint



F-609-RWS
Flanged



M-609-RWS
Mechanical



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 IAPMO R&T TO NSF/ANSI 372

MATERIAL LIST

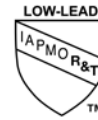
PART	SPECIFICATION
1 Valve Body	Ductile Iron ASTM A536
2 Resilient Wedge	Ductile Iron ASTM A536/EPDM ASTM D2000
3 Wedge Nut	ASTM B584 UNS C83600
4 Dowel Pin	ASTM A276 SS304
5 Stem Back Seat O-Ring	EPDM ASTM D2000
6 Bonnet Gasket	EPDM ASTM D2000
7 Bonnet	Ductile Iron ASTM A536
8 Stem Packing	EPDM ASTM D2000
9 Threaded Rod	Carbon Steel ASTM A307
10 Gland Bushing	ASTM B584 UNS C83600
11 Gland	Ductile Iron ASTM A536
12 Gland Nut	ASTM B16 - H02
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	Carbon Steel ASTM A307
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.

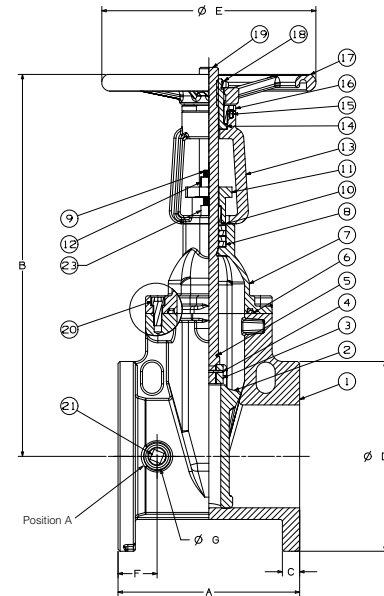
**Drilled, tapped and plugged at Position A with 1/2" valve sizes 2 1/2"-4", 3/4" on 6"-8", 1" on 10"-12".

† 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

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions														Bolt Circle	Flange Holes	Turns To Open	Weight					
	A		B Open		B Closed		C		D		E		F					G		Lbs.	Kg.		
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.							
2 1/2	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

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

Fire Protection Post Indicator Valve • Bolted Bonnet • Indicator Post Pattern
• Non-Rising Stem • Resilient Wedge • Epoxy Coated Interior/Exterior



300 PSI/20.6 Bar Non-Shock Cold Working Pressure

UL/ULC LISTED • FM APPROVED •
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 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 AWWA C550.

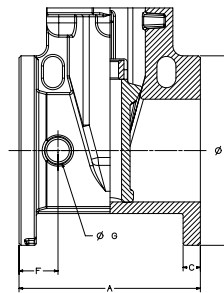
NOTE: Flanged valve is consistent with ANSI B16.1 Class 125.



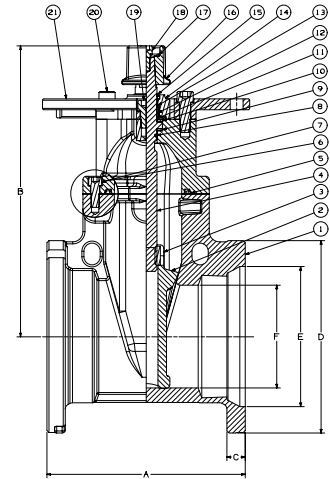
F-609-RWS
Flanged



M-609-RWS
Mechanical



F-609-RWS
Flg x Flg



M-609-RWS
MJ x MJ

DIMENSIONS—WEIGHTS—QUANTITIES

M-609-RW Dimensions													Bolt						
Size	A		B		C		D		E		F		Circle	Flange	Turns	Weight			
In. mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	Holes	To Open	Lbs.	Kg.		
4	100	10.0	254	13.5	344	1.00	26	9.1	232	6.0	153	3.9	100	7.50	191	4	12.5	72	33
6	150	11.5	292	17.4	441	1.06	27	11.1	283	8.1	206	5.9	150	9.50	241	6	15.0	101	46
8	200	11.5	292	20.8	529	1.12	28	13.4	340	10.3	261	7.9	200	11.75	298	6	16.7	148	67
10	250	13.0	330	24.2	614	1.18	30	15.7	400	12.3	313	9.8	250	14.00	356	8	20.8	236	107
12	300	14.0	356	27.0	700	1.25	32	18.0	456	14.4	367	11.8	300	16.25	413	8	25.0	353	160

F-609-RW Dimensions													Bolt						
Size	A		B		C		D		F		G		Circle	Flange	Turns	Weight			
In. mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	Holes	To Open	Lbs.	Kg.		
4	100	9.0	229	13.5	344	0.94	24.0	9.0	229	2.13	54	1.42	36	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	9.50	241	8	15.0	106	48
8	200	11.5	292	20.8	529	1.13	28.6	13.5	343	2.48	63	1.54	39	11.75	298	8	16.7	163	74
10	250	13.0	330	24.2	614	1.19	30.2	16.0	406	3.15	65	1.82	46	14.25	362	12	20.8	256	116
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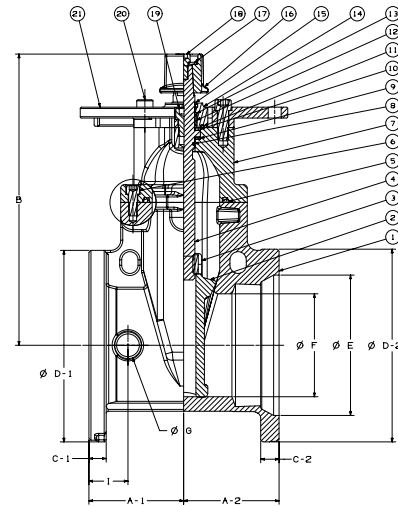
Fire Protection Post Indicator Valve • Bolted Bonnet • Indicator Post Pattern
• Non-Rising Stem • Resilient Wedge • Epoxy Coated Interior/Exterior

300 PSI/20.6 Bar Non-Shock Cold Working Pressure
(160° F/71° C max. operating temperature)

UL/ULC LISTED • FM APPROVED • AWWA C509 & 515
CERTIFIED LEAD-FREE* BY IAPMO R&T TO NSF/ANSI 372



FM609-RWS
Flanged x Mechanical Joint



FM609-RWS
Flg x MJ

MATERIAL LIST

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5 Bonnet Gasket	EPDM ASTM D2000
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23 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.

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

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.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.
4	100	4.75 115	4.75 127	13.50 344	0.94 24	1.00 26	9.00 229	9.10 232	6.00 153	3.90 100							
6	150	5.50 134	5.50 146	17.00 441	1.00 25	1.06 27	11.00 279	11.10 283	8.10 206	5.90 150							
8	200	5.75 146	5.75 146	20.75 529	1.13 29	1.12 28	13.50 343	13.40 340	10.30 261	7.90 200							
10	250	6.50 165	6.50 165	24.00 614	1.19 30	1.18 30	16.00 406	15.60 397	12.30 313	9.80 250							
12	300	7.00 178	7.00 179	27.00 700	1.25 32	1.25 32	19.00 486	17.90 454	14.40 367	11.80 300							

Size	G		I		Flanged B.C.		MJ B.C.		No. Holes Flanged	No. Holes M-Joint	Turns To Open	Weight	
	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.				Lbs. Kg.	
4	100	1.42 54	2.13 54	7.50 191	7.50 191	8	4	12.5	72 33				
6	150	1.54 64	2.24 57	9.50 241	9.50 241	8	6	15.0	103 47				
8	200	1.54 70	2.48 63	11.75 296	11.75 298	8	6	16.7	99 45				
10	250	1.82 70	3.15 65	14.25 362	14.00 356	12	8	20.8	247 112				
12	300	1.82 86	2.91 74	17.01 432	16.25 413	12	8	25.0	377 171				

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%