



# AWWA C509 250PSI/300PSI

## FGMN939 Mechanical Joint Ends Resilient Wedge Gate Valves

### MATERIAL LIST

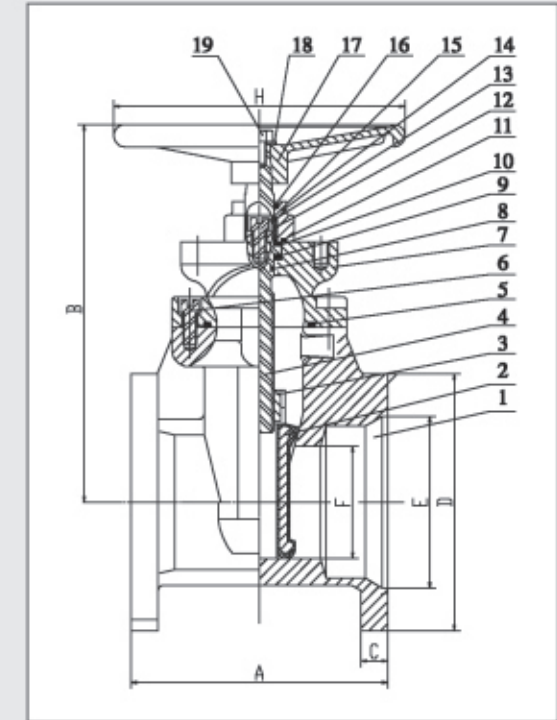
PART	SPECIFICATION
1 Valve Body	Ductile Iron ASTM A 536
2 Resilient Wedge	ASTM D 2000 Ductile Iron ASTM A 536/EPDM ASTM D 2000
3 Wedge Nut	Bronze ASTM B 584 UNS C83600
4 Stem	Bronze ASTM B 150 UNS C61400
5 Bonnet Gasket	EPDM ASTM D 2000
6 Bonnet Screw	Alloy Steel ASTM A 574M Zinc Plated
7 Bonnet	Ductile Iron ASTM A 536
8 Stem Primary O-Ring	EPDM ASTM D 2000
9 Stem Thrust Washer (lower)	Bronze ASTM B 584 UNS C83600
10 Stem Thrust Washer (upper)	Stainless Steel ASTM A 276 UNS S41000
11 Gland Seal O-Ring	EPDM ASTM D 2000
12 Stem Seal Bushing	Bronze ASTM B 584 UNS C83600
13 Stem Secondary O-Ring (2)	EPDM ASTM D 2000
14 Gland Flange	Ductile Iron ASTM A 536
15 Gland Flange Screw	Alloy Steel ASTM A 574M Zinc Plated
16 Stem Ring Wiper	EPDM ASTM D 2000
17 Square Operating Nut	Cast Iron ASTM A 126-B
17A Handwheel (Optional)	Ductile Iron ASTM A 536
18 Flat Washer	Carbon Steel Zinc Plated
19 Screw	Alloy Steel ASTM A 574M Zinc Plated

Bolted Bonnet • Non-Rising Stem • Resilient Wedge •  
MJ Ends 250 PSI/300 PSI/17.2 Bar  
250 PSI/300 PSI/17.2 Bar Non-Shock Cold Working  
Pressure  
CONFORMS TO AWWA C509

Coating—Electrostatically applied fusion-bonded ep-  
oxy 0.2–0.5mm, inside and outside. Meets or exceeds  
AWWA C550. Maximum operating temperature 160°  
F/71°C.



Mechanical Joint  
FGMN939



Freezing Weather Precaution Subsequent to testing a  
piping system, valves should be in an open position to  
allow complete drainage.

### DIMENSION-WEIGHTS-QUANTITIES

Size	Dimension														Bolt Circle		Flange Holes	Turns To Open	Weight		
	A	B	C	D	E	F	H	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	12.2	260	6.19	157	4	10.8	43	20
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	13.0	70	36
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	15.7	112	51
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	17.3	170	77
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	21.4	267	121
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	25.3	388	176