NIBCO
AHEAD OF THE FLOW®

DUCTILE IRON RESILIENT WEDGE GATE VALVES FOR IRRIGATION

APPLICATIONS

- Non-rising stem gate valve for use in irrigation and general utility services
- Valves are designed for bubble tight service
- IPS PVC Push-on valve 250 PSI CWP, 160°F maximum
- Flg and MJ valves 300 PSI CWP, 160°F maximum

MATERIALS & CONSTRUCTION

- Ductile Iron body for Flg & MJ ends with 304 stainless steel stem
- Cast Iron body for IPS PVC push-on ends with SS stem
- IPS PVC push-on valves utilize HARCO gaskets and are interchangeable with HARCO fittings
- EPDM encapsulated ductile iron wedge
- 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
- Flg & MJ valves third-party certified to NSF/ANSI 61 and 372
- IPS PVC push-on valves bell dimensions are designed to stringent standards set by HARCO

P-619-RW
Push-on

F-619-RWS-SON
Flanged

MJ-619-RWS-SON
Mechanical Joint

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

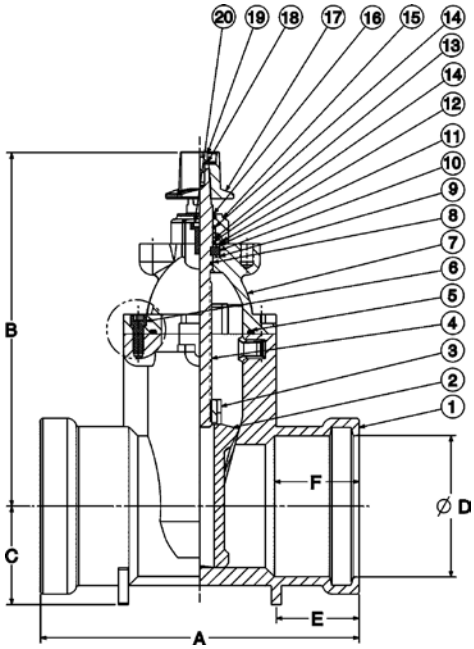
CERTIFIED LEAD-FREE* BY IAPMO R&T TO NSF/ANSI 372

P-619-RW
IPS Push-On

MATERIAL LIST

	PART	SPECIFICATION
1.	Valve Body	Cast Iron ASTM A 126-B
2.	Resilient Wedge	Ductile Iron ASTM A 536/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 A 126-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 A 536
16.	Stem Ring Wiper	EPDM ASTM D 2000
17.	Square Operating Nut	Cast Iron ASTM A 126-B
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 10-14 mil. inside and outside. Meets or exceeds AWWA C550. Coating is NSF-61 and FDA certified.
Maximum operating temperature 160°F/71°C.



P-619-RW
IPS Push-On

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions A		B		C		D		E		F		Handwheel (Opt.)		Turns to	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Open	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 our website for the most current information.

*Weighted average lead content ≤ 0.25%

300 PSI CWP Iron Body Gate Valves

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

NSF/ANSI 61
NSF/ANSI 372

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

F-619-RWS
Flanged

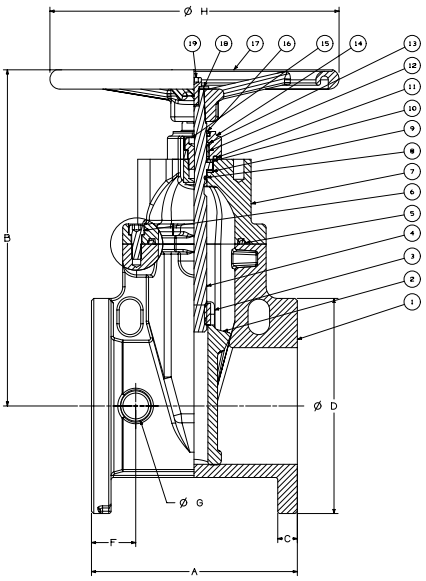
F-619-RWS-SON
Flanged

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.	Gland Flange Screw	Alloy Steel ASTM A574M Zinc Plated
16.	Stem Ring Wiper	EPDM ASTM D2000
17.	Square Operating Nut	Cast Iron ASTM A126-B
17A.	Handwheel (Optional)	Ductile Iron ASTM A 536
18.	Operating Nut Washer	ASTM A276 SS304
19.	Operating Nut Screw	Alloy Steel ASTM A574M Zinc Plated

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.



F-619-RWS
Flg x Flg
Shown with optional handwheel

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions A		B		C		D		F		G		H		Bolt Circle		Flange Holes	Turns to Open	Weight	
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

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

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*Weighted average lead content ≤ 0.25%

300 PSI CWP Iron Body Gate Valves

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

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NSF/ANSI 372

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MJ-619-RWS
Mechanical Joint

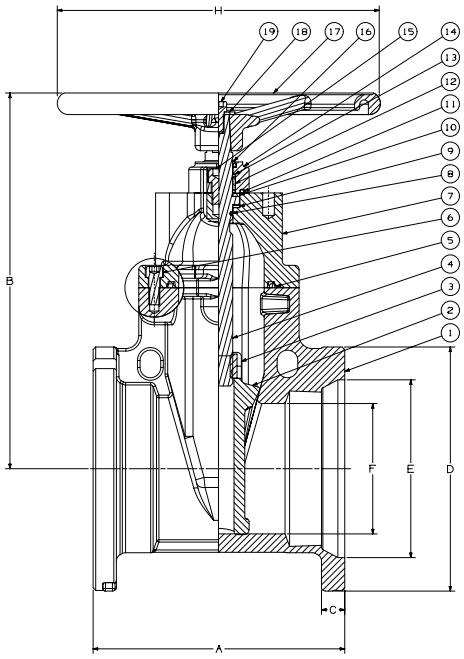
MJ-619-RWS-SON
Mechanical Joint

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.	Gland Flange Screw	Alloy Steel ASTM A574M Zinc Plated
16.	Stem Ring Wiper	EPDM ASTM D2000
17.	Square Operating Nut	Cast Iron ASTM A126-B
17A.	Handwheel (Optional)	Ductile Iron ASTM A 536
18.	Operating Nut Washer	ASTM A276 SS304
19.	Operating Nut Screw	Alloy Steel ASTM A574M Zinc Plated

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

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