

Figure B517RF 100% Port Mechanical Joint (MJ) Eccentric Plug Valves For Buried Service

Description

The GA Industries Figure B517RF Eccentric Plug Valve is a rugged, field-proven valve that will provide many decades of trouble-free service. The valve has a port area equal to 100% of the inside area of the adjacent pipe providing the lowest possible head loss.

The Figure B517RF Eccentric Plug Valve epoxy coated ductile iron body has upper and lower thrust bearings, grit seals and all surfaces of the ductile iron plug exposed to the flow are totally encapsulated in rubber.

The valve is standard with a sealed and grease packed buried service manual worm gear and a 2" square nut. Automatic actuation with floor stand or extended bonnet are also available.

Standard Features

- Internal and external epoxy coated, high strength ductile iron body and cover
- 100% port area, up to 53% less head loss than standard rectangular port plug valves
- Bi-directional zero leakage
- Fully rubber encapsulated ductile iron plug
- Shaft packing protected from ground contamination
- 316SS external fasteners
- 316SS upper and lower shaft bearings
- Lifting eyes and feet to facilitate handling and installation

Standard Materials

- Body and Cover Ductile Iron, ASTM A536 Gr 65-45-12
- Body Seat Weld Overlaid 95% Pure Nickel
- Plug Ductile Iron, ASTM A536 Gr 65-45-12
- Plug Coating Buna-N Rubber, Molded and Vulcanized to the Plug
- Shaft Bearings 316 Stainless Steel
- Thrust Bearings Aluminum Bronze
- External Fasteners 316 Stainless Steel
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Corrosion Protection

- Standard: Internal and External PPG/Amerlok 400 2-Part Epoxy

Ordering Data

- Figure Number B517RF
- Size
- Connections (MJ)
- Options/Accessories

Data Sheet B517RF.02H



Approvals & Certifications

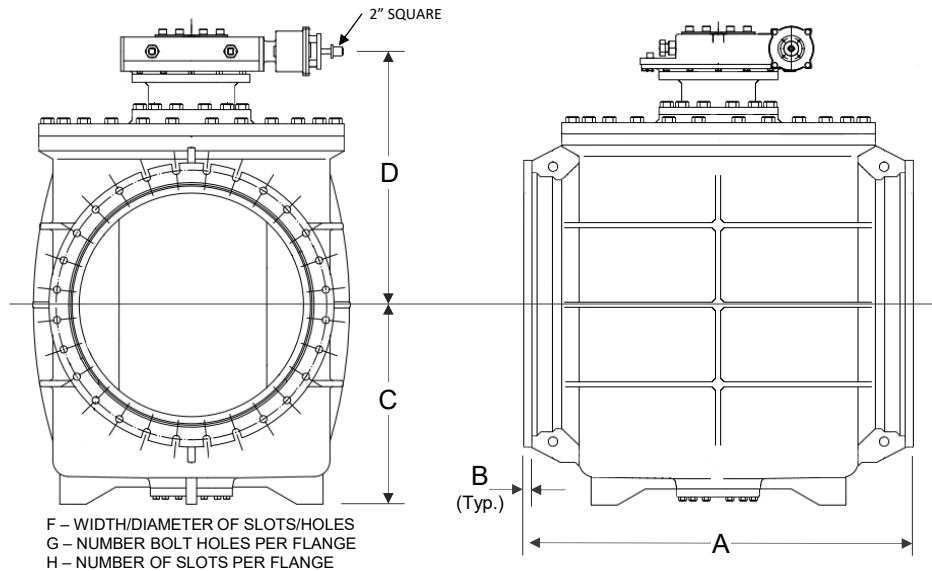
- Fully complies with AWWA Standard C517

Non-Shock Working Water Pressure at up to 180F (82C)	
Figure Number	B517RF
Connections	Mechanical Joint (MJ) per AWWA/ANSI C111
Manual Operation	Buried Service Worm Gear with 2" Nut
Size	24" to 60"
Direct Seating Max Pressure	150 PSI
Reverse Seating Max Pressure	24" to 54" – 100 PSI 60" – 50 PSI
Hydro Test	225 PSI

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- Dimension D represents standard worm gear actuator
- Worm gear actuator can be rotated in 90-degree increments about valve centerline
- Consult factory for dimensions of valves with automatic actuators
- Dimensions in inches and weight in pounds and are approximate. Request certified drawings if critical.



Installation Dimensions

SIZE	24"	30"	36"	42"	48"	54"	60"
A	42	51	60	72	84	96	96
B	1	1%	1½	1½	2	2	2
C	20%	26%	31	37½	42%	43%	48
D	26½	33%	38%	48%	57%	56½	60½
F	¾	1%	1½	1¾	1¾	1¾	1¾
G	12	12	16	20	24	28	36
H	4	8	8	8	8	8	0
WGT	2,525	5,020	7,760	14,185	20,225	23,680	32,000

Flow Coefficients (Direct Seating)

SIZE	24"	30"	36"	42"	48"	54"	60"
C _v	26,439	39,548	60,175	78,900	120,635	164,500	199,845
K	0.42	0.46	0.41	0.45	0.33	0.28	0.29

Flow Coefficients (Reverse Seating)

SIZE	24"	30"	36"	42"	48"	54"	60"
C _v	27,000	40,110	62,485	79,150	126,600	170,100	205,600
K	0.41	0.45	0.38	0.44	0.30	0.26	0.27

