

# Figure B517R8 Standard Port Mechanical Joint (MJ) Eccentric Plug Valves For Buried Service

## Description

The GA Industries Figure B517R8 Eccentric Plug Valve is a rugged, field-proven valve that will provide many decades of trouble-free service. The standard port valve has a minimum port area equivalent to 80% of the inside area of the adjacent pipe for low head loss.

The Figure B517R8 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 MJ 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 available.

## Standard Features

- Internal and external epoxy coated, high strength ductile iron body and cover
- Minimum 80% port area, highly flow efficient
- Bi-directional zero leakage seating
- Fully rubber encapsulated ductile iron plug
- Shaft packing protected from ground contamination
- 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 B517R8
- Size
- Connections (MJ)
- Actuation (Standard is 2" Operating Nut)
- Options/Accessories

Data Sheet B517R8.02G



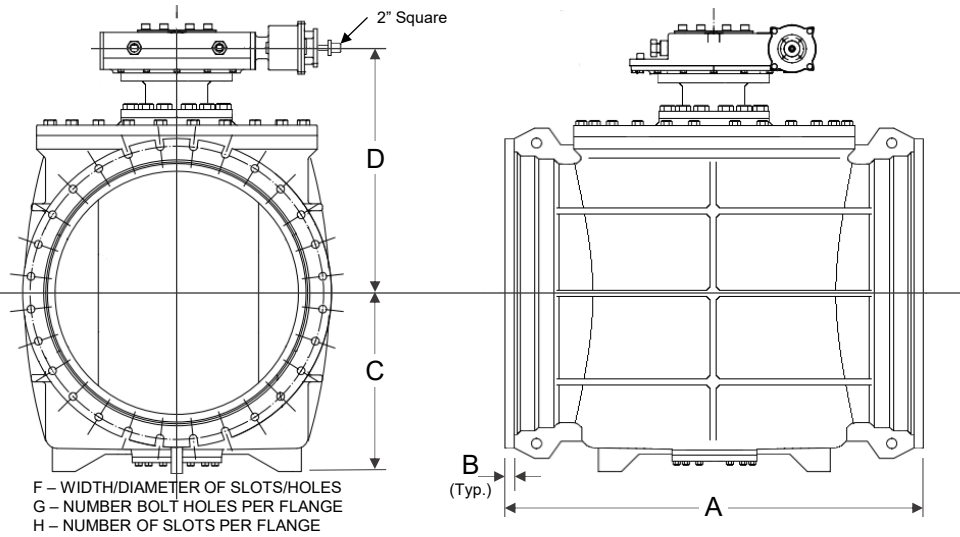
## Approvals & Certifications

- Fully complies with AWWA Standard C517

Non-Shock Working Water Pressure at up to 180F (82C)	
Figure Number	<b>B517R8</b>
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" – 150 PSI, 30" to 60" – 100 PSI
Hydro Test	225 PSI

Data Sheet B517R8-02G

- Dimension D represents standard worm gear actuator
- Worm gear actuator can be rotated in 90-degree increments about valve centerline
- Valve supplied with 2" operating nut on worm gear actuator
- Consult factory for 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 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
C	19 $\frac{5}{8}$	22 $\frac{5}{8}$	26 $\frac{5}{8}$	31	37 $\frac{3}{8}$	44 $\frac{1}{8}$	43 $\frac{3}{8}$
D	25 $\frac{5}{8}$	29 $\frac{1}{4}$	35 $\frac{1}{4}$	39 $\frac{5}{8}$	50	57 $\frac{3}{8}$	58
F	$\frac{7}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$	2	2
G	16	12	15	20	24	28	28
H	--	8	8	8	8	8	8
WGT	1,920	3,720	5,875	9,500	15,450	21,240	30,000

**Flow Coefficients (Direct Seating)**

SIZE	24"	30"	36"	42"	48"	54"	60"
C <sub>v</sub>	23,000	27,995	45,918	69,875	97,175	156,545	178,085
K	0.56	0.92	0.71	0.57	0.50	0.31	0.36

**Flow Coefficients (Reverse Seating)**

SIZE	24"	30"	36"	42"	48"	54"	60"
C <sub>v</sub>	23,510	40,110	46,965	70,005	98,915	158,795	179,000
K	0.54	0.45	0.68	0.57	0.48	0.30	0.36

