

Figure 517RF-US Rectangular 100% Port AIS Compliant Eccentric Plug Valves

Description

The GA Industries Figure 517RF-US Eccentric Plug Valve is a rugged, field-proven valve that will provide many decades of trouble-free service. The valve has a port area equivalent to 100% of the nominal inside area of the adjacent pipe but with the same laying length as a standard port plug valve.

Also, the Figure 517RF-US Eccentric Plug Valve's unique shaft and thrust bearing arrangement is designed so the valve does not stick or bind and is easily operable after long periods of inactivity.

The valve can be supplied with Class 125 flanged or mechanical joint ends with a manual worm gear and handwheel or square nut or with automatic actuation.



Standard Features

- Internal and external epoxy coated, high strength iron body and cover
- 100% port area for exceptionally low head loss
- Bi-directional zero leakage seating up to full rated pressure
- Shaft packing adjustable and replaceable without removing the actuator
- PTFE coated 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
- Shaft Bearings Self-Lubricating PTFE Coated 316SS
- Thrust Bearings PTFE
- External Fasteners Zinc Plated Steel (Exposed Valves)
316 Stainless Steel (Buried Valves)

Corrosion Protection

- Standard: Internal and External PPG/Amerlok 400 2-Part Epoxy, Minimum 6 mil DFT
- Optional See Option P2

Ordering Data

- Figure Number 517RF-US
- Size
- Connection (Class 125 flanged or Mechanical Joint)
- Handwheel or 2" Operating Nut (Exposed Valves Only)
- Options/Accessories

Approvals & Certifications

- Fully complies with AWWA Standard C517

Options and Accessories

- Option P2 – 316 Stainless Steel External Fasteners (standard on buried service valves)
- Option CW – With Chainwheel – Facilitates Operation of Overhead Worm Gear Operated Valves

| Non-Shock Working Water Pressure at up to 180F (82C) | | |
|---------------------------------------------------------|------------------------------------|-----------------------|
| Figure Number | 517RF-US | |
| Connections | Class 125 Flanged | Mechanical Joint |
| Manual Operation | Worm Gear with Handwheel or 2" Nut | Worm Gear with 2" Nut |
| Size | 24" to 30" | 24" to 30" |
| Max Working Pressure | 150 PSI | |
| Hydro Test | 225 PSI | |

Figure 517RF-US 100% Rectangular Port AIS Compliant Eccentric Plug Valves

Data Sheet 517RF-US.01B

Installation Dimensions

| | | 24" | 30" |
|-----|-----|------------------|------------------|
| A | FLG | 42 | 51 |
| | MJ | 42 | 51 |
| B | | 23 $\frac{3}{4}$ | 27 $\frac{3}{8}$ |
| C | | 32 | 39 $\frac{1}{8}$ |
| D | | 33 $\frac{3}{4}$ | 40 $\frac{5}{8}$ |
| E | | 22 | 24 |
| F | | 32 | 24 |
| G | | 22 | 24 |
| WGT | FLG | 3,250 | 5,980 |
| | MJ | 3,160 | 5,840 |

- Larger sizes available, consult factory
- Dimensions in inches and weight in pounds and are approximate. Request certified drawings if critical.
- Dimensions D, E, F and G represent standard worm gear actuator for 150 PSI service.
- Worm gear actuator can be rotated in 90-degree increments about valve centerline
- Buried service worm gear actuators are grease packed and sealed against water entry
- Consult factory for valves with automatic actuators

Flow Coefficients

| SIZE | 24" | 30" |
|-------|--------|--------|
| C_v | 38,000 | 60,000 |
| K | 0.18 | 0.18 |

