MPI MCWANE PLANT & INDUSTRIAL

CLOW VALVE CO.

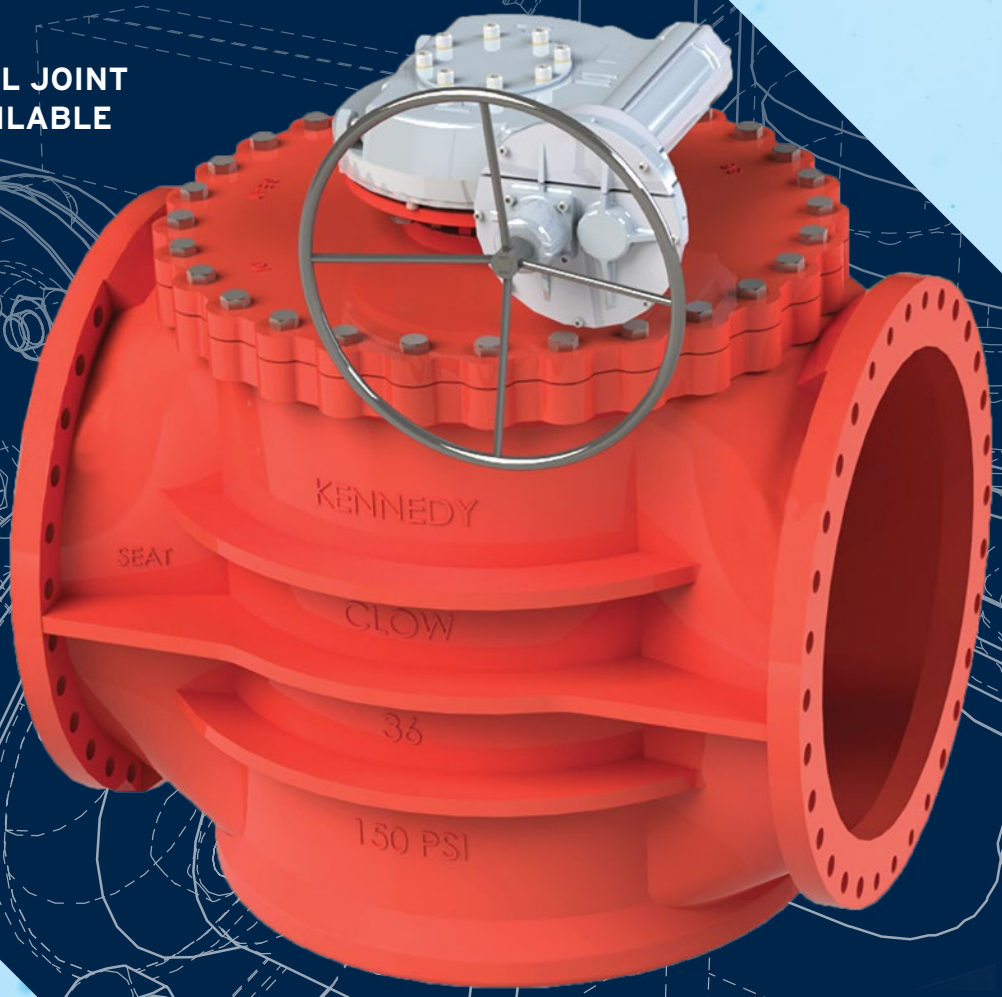
M&H VALVE COMPANY

KENNEDY VALVE

ECCENTRIC PLUG VALVES

AWWA C517
3"-12" 175 PSI
14"-48" 150 PSI
FLANGED + MECHANICAL JOINT END CONNECTIONS AVAILABLE

mcwanepi.com



Scan for detailed drawings

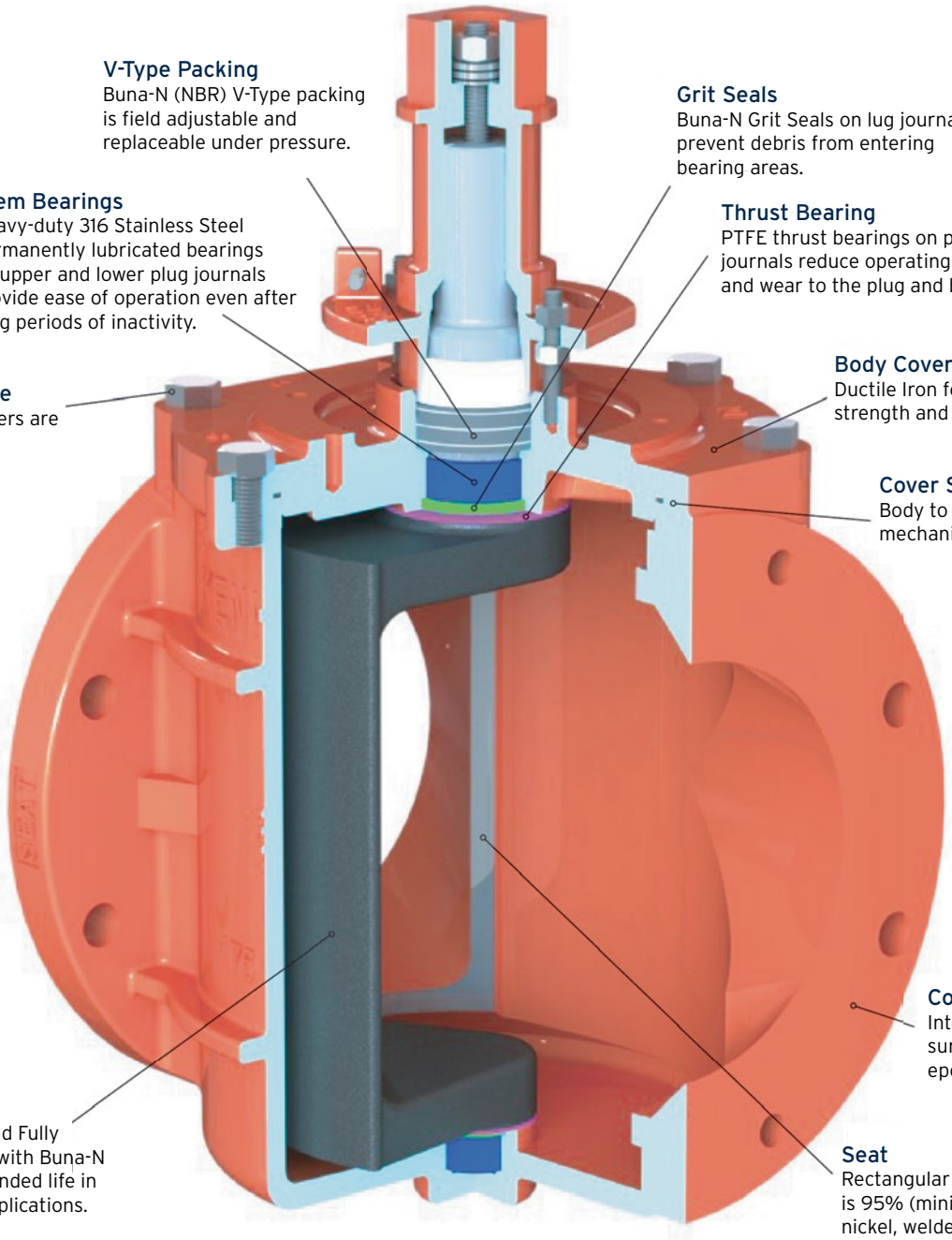
ECCENTRIC PLUG VALVES
FEATURES & BENEFITS

STANDARD FEATURES

- **Rectangular Port Design:** The cylindrical plug and rectangular port provide a rotation alignment by the eccentric motion making uniform and full contact with the welded nickel seat.
- **Adaptable Actuation:** EPVs can be ordered with electric, pneumatic, or hydraulic actuators to fit the needs of your system.
- **Full Flow Design:** Allows laminar (smooth or regular) flow in the body resulting in low head loss and passage of larger solids preventing clogging or build up.
- **Extended Life Plug:** Ductile iron and fully encapsulated with Buna-N (NBR) for extended life in demanding applications.
- **Ease of Operation:** Stem bearings are made of heavy duty 316 stainless steel permanently lubricated on upper and lower plug journals to provide ease of operation after long periods of inactivity.
- **Built to Endure:** PTFE thrust bearings reduce operating force and wear to the plug and body. All fasteners are 316 stainless steel.
- A full line of accessories and options are available that include extension stems, extended bonnets, floor stands, valve boxes, operating nuts, hand wheels, levers, positioners, fully bi-directional at rated pressure, switches, and solenoid valves as well as speed control valves.
- EPVs are designed and built to AWWA C517 standards.

KEY CHARACTERISTICS	
Size Range	3"-48"
Materials	Ductile Iron ASTM A536, 95% pure nickel welded seat, Buna-N Plug
Pressure Range	175PSI 3"-12", 150PSI 14" - 48"
Temperature Range	0-250°F
Body Style	FLG or MJ
Actuator Types	Direct drive with 2" square operating nut; electric pneumatic or hydraulic actuator
Standards	AWWA C517

ENGINEERING FEATURES



V-Type Packing
Buna-N (NBR) V-Type packing is field adjustable and replaceable under pressure.

Grit Seals
Buna-N Grit Seals on lug journals prevent debris from entering bearing areas.

Stem Bearings
Heavy-duty 316 Stainless Steel permanently lubricated bearings on upper and lower plug journals provide ease of operation even after long periods of inactivity.

Thrust Bearing
PTFE thrust bearings on plug journals reduce operating force and wear to the plug and body.

Hardware
All fasteners are 316 SS.

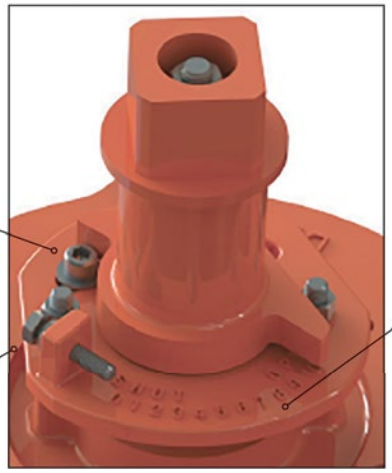
Body Cover
Ductile Iron for added strength and reduced weight.

Cover Seal
Body to Cover seal via mechanically retained O-ring.

Coating
Internal/external cast surfaces are 2-part epoxy coated.

Plug
Ductile Iron and Fully Encapsulated with Buna-N (NBR) for extended life in demanding applications.

Seat
Rectangular Port seat is 95% (minimum) pure nickel, welded and fully machined.

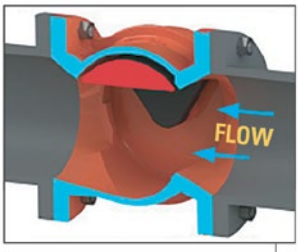


Open Limit
Adjustable stop.

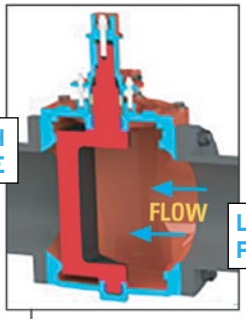
Close Limit
Adjustable stop.

Position Indicator
Quarter-turn valves re equipped with a position indicator marked at 10º increments.

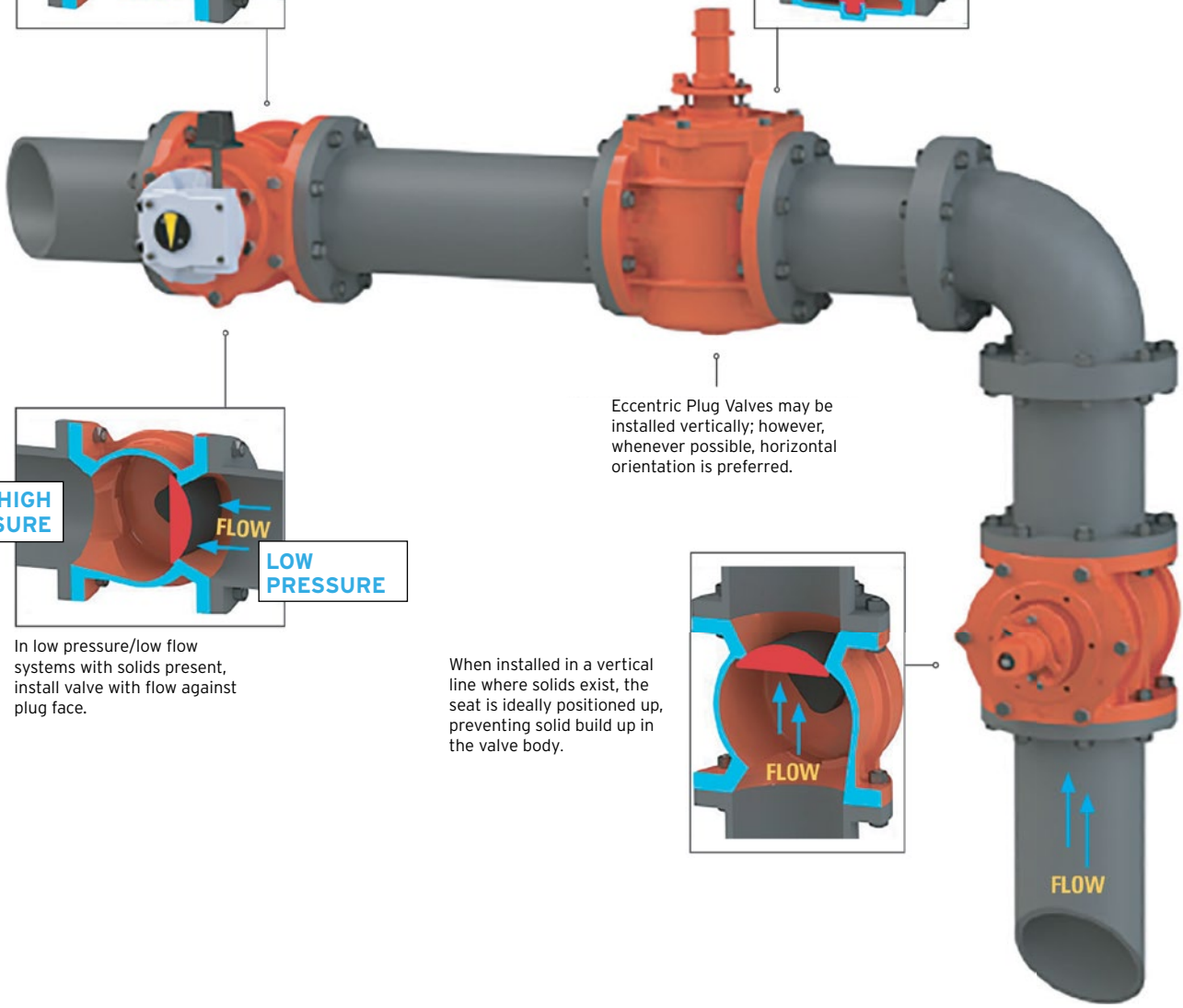
SUGGESTED INSTALLATION



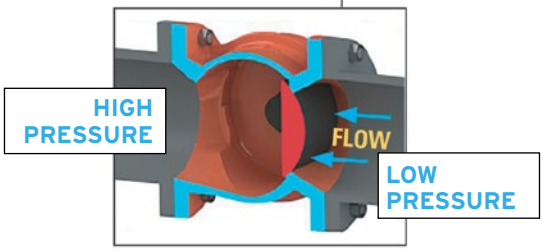
When Eccentric Plug is installed in a horizontal line, the preferred installation is with the plug rotating 90º upward to open. Utilizing this orientation can lessen the effect of solids preventing plug operation.



When installed in high pressure systems, it is recommended to have the plug seat on the outlet side of the valve.



Eccentric Plug Valves may be installed vertically; however, whenever possible, horizontal orientation is preferred.



In low pressure/low flow systems with solids present, install valve with flow against plug face.

When installed in a vertical line where solids exist, the seat is ideally positioned up, preventing solid build up in the valve body.

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