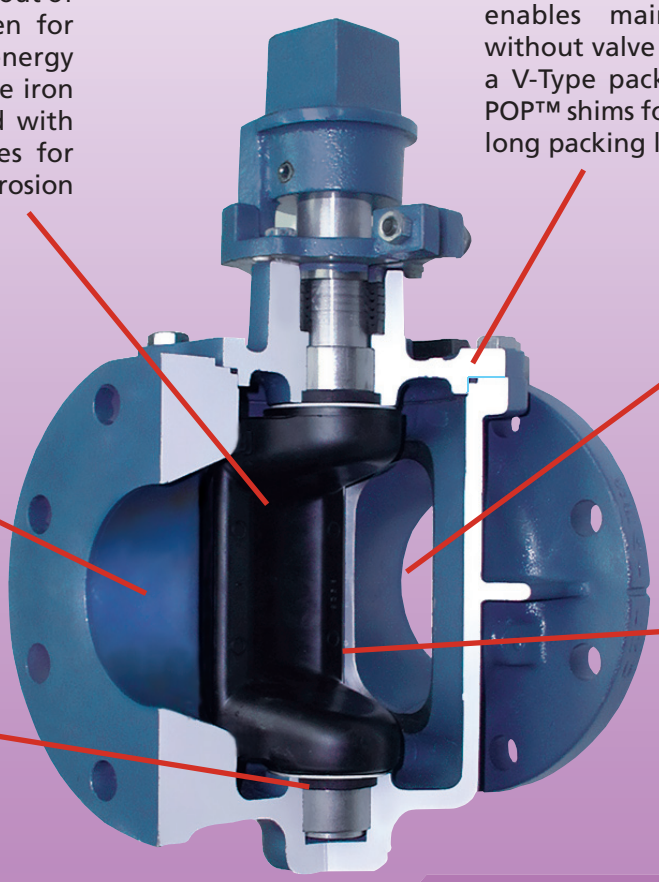
Cam-Centric® 100% Port Plug Valves

Energy Efficient • Non-Clog Design • Advanced Features

Val-Matic's enhanced 100% Port Eccentric 1/4 turn Plug Valves provide **energy efficient** operation, along with **advanced features** designed for wastewater and solids applications such as: **welded-nickel seats, eccentric action, full size access covers, resilient encapsulated ductile iron plugs** and **full-discharge ports.**

Encapsulated Plug
The plug is contoured and out of the flow path when open for reduced headloss and energy efficiency. The rigid ductile iron plug is fully encapsulated with molded rubber in all sizes for maximum resistance to corrosion and wear.

Full Size Top Access Cover with Adjustable Packing
The removable full size top access cover enables maintenance and inspection without valve removal. The cover includes a V-Type packing gland with removable POP™ shims for controlled adjustment and long packing life.



Full Discharge Port
The downstream port has no restriction to provide maximum flushing action and low headloss.

100% Port
The cylindrical port area matches the full pipe area for low headloss and non-clog performance.

Grit Guard™ Seals
Resilient molded Grit Guard™ seals extend packing and bearing life by reducing wear and infiltration of grit.

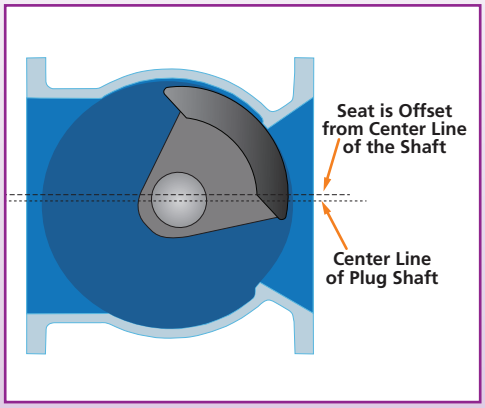
Welded-Nickel Seat
The robotic pulsed-arc welded 95% nickel raised seat is corrosion and wear resistant.

Product Scope

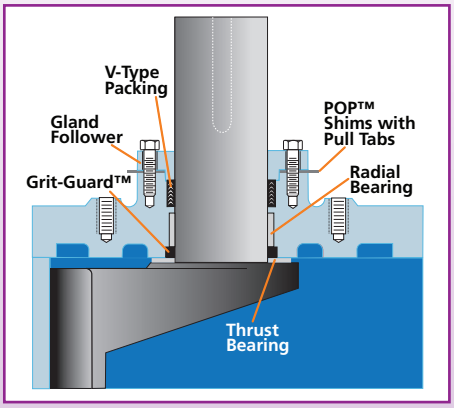
- Size Range: 1/2"-12" (175psi CWP); 14"-60" (150psi CWP)
- 100% Port for Energy Efficiency
- Non-Clog Design with Full Discharge Port
- Bi-Directional Shut-Off Capability
- AWWA C517 Compliant, Short Laying Length
- ASME B16.1 Flanged Ends
- AWWA C110 Mechanical Joint Ends
- Ideal for Inline Pigging
- Direct Nut, Handlever, Worm Gear Actuation
- Hydraulic Cylinder and Electric Motor Automation
- NSF/ANSI 372 Certified Lead-Free
- Fusion Bonded Epoxy, Rubber Lining and Glass Lining Coatings Available

Preferred Features

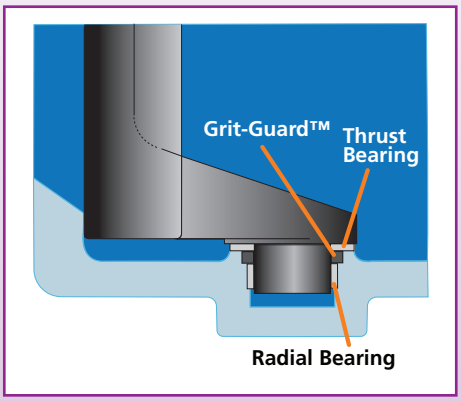
Eccentric Action



Upper Bearing Journal



Lower Bearing Journal



Eccentric Action
The seat and plug face are offset from the shaft centerline to provide positive shut off and wear resistance. The plug moving in and out of the seat with minimal contact results in low operating torque.

Thrust Bearings
PTFE bearings are provided on both the top and bottom of the plug for precise alignment and low friction.

Shaft Bearings
The radial bearings are heavy duty, permanently lubricated, Type 316 stainless steel.

Actuation

The Cam-Centric® Plug Valve is available with a wide range of actuation options, from simple lever operation to advanced pump control systems. Options include 2" operator nuts, worm gears, as well as chainwheels, electric motor and cylinder actuation. A wide variety of accessories such as floor stands and extended bonnets are also available.

Direct Nut operated valve with memory stop:

- Adjustable open memory stop for system balancing
- Adjustable close stop
- Adjustable friction collar
- For use with lever accessories

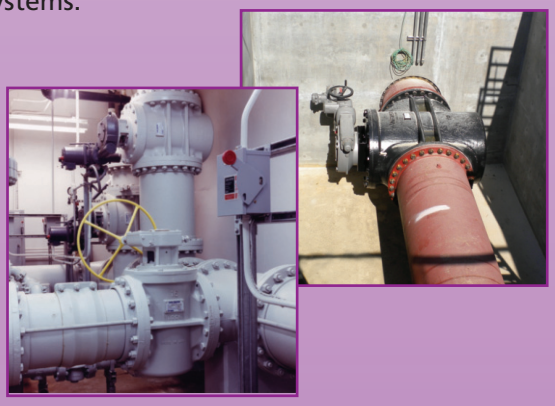
Val-Matic Worm Gears:

- Heavy Duty, totally enclosed and sealed
- For above ground and buried service applications
- Bronze radial bearings and roller thrust bearings provide smooth operations and extended life

Applications

Plug Valves can be used in a number of applications when slurries, grit or solids are present. They are designed to provide both on-off and process control functions in municipal and industrial systems.

- Lift Station Pump Discharge
- Wastewater and Sewage Lines
- Pulp and Paper Process
- Raw Water Lines and Sewers
- Food and Chemical
- Wastewater Treatment Plant Piping
- Sludge Lines
- Irrigation
- Mining
- Fly Ash (Rubber Lined)
- Struvite (Glass Lined)



Refer to Val-Matic's Cam-Centric® Plug Valve Brochure for more information.

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