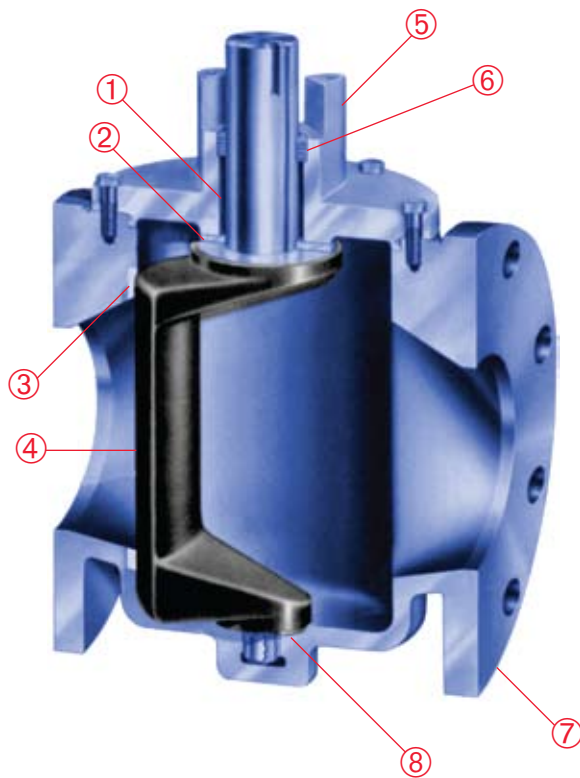


Plug Valves

Eccentric Type Plug Valves



FEATURES:

- Bi-directional flow capability
- Drop-tight shutoff
- Minimal seating surface wear
- Self-adjusting chevron type packing
- Bolted cover bonnet for easy maintenance
- Wide port openings
- Corrosion resistant bearings

Plug valves are designed for throttling and open/close operation. The valves handle stringy slurries, abrasive liquids, fluids with heavy suspended solids and wastewater sludges, without concern for clogging.

APPLICATIONS:

- Water treatment
- Wastewater treatment
- Chemical processing
- Pulp and Paper manufacturing
- Mining
- Cement manufacturing
- Industrial water handling

Design Details:

1. Sleeve type bearings are utilized in both the upper and lower trunnions. Bearing material is Teflon lined with non-metallic backing.
2. Corrosion resistant Nylatron thrust bearings help maintain accurate plug positioning and reduce operating torques.
3. Valve seat is 300 Series stainless steel.
4. The plug and its shafts are a single homogeneous casting of cast iron ASTM A-48 Class 40, ASTM-536 ductile iron or alloy cast iron ASTM A-439, Type D2. For 3" through 12" sizes the entire plug, except for shafts, is covered with a Buna N rubber compound to insure a permanent bond. For 14" through 24" sizes, the plug sealing surface is covered by a Buna N compound and is ground to conform to the eccentric seating surface of the plug.
5. The cover is fully sealed and securely bolted to the body. It can be easily removed if maintenance of the plug is required.
6. Packing is self-adjusting chevron type that increases sealing force as line pressure increases. The open bonnet allows replacement of the packing without removing the operator.
7. Valve bodies are cast iron ASTM A-126, Class B or NT- resist cast iron ASTM A-436, Type 1B, in sizes 3"- 6", for corrosive service. Flanges are faced and drilled in accordance with ANSI B16.1, Class 125. Mechanical joint end bodies are in full compliance with ANSI A21.11.
8. The Buna-N grit seals prevent foreign material from scoring the upper and lower shaft bearings.

Plug Valves



SPECIFICATIONS:

- All plug valves shall be of the tight-closing, resilient-faced plug type and shall be of bi-directional eccentric seating. Valves shall be drop-tight at rated pressure of 175 psi (3"-12"), 150 psi (14"-24").
- Valve bodies shall be constructed of cast iron ASTM A-126 Class B. Flanges shall be faced and drilled in accordance with ANSI B16.1, Class 125. Mechanical joint end bodies shall be in full compliance with ANSI A21.11.
- The valve plug shall be constructed of cast iron ASTM A-48 Class 40 or ductile iron ASTM A-536. The plug shafts shall be integral. For 3" through 12" valves, the plug shall have a synthetic rubber bonded to all surfaces except shaft and thrust bearing surfaces. The rubber compound shall be approximately 70 durometer hardness. The bond must withstand 75 lbs. pull under test procedure ASTM D-429, Method B.

- For 14" and larger valves, the plug sealing surface shall be covered by a rubber compound. The rubber compound shall be approximately 70 durometer hardness. The bond must withstand 35 lbs. pull under test procedure ASTM D-429, Method B.
- Valve body seats shall be corrosion resistant 90% nickel welded overlay.
- Valves shall be fitted with sleeve type bearings. Bearings shall be corrosion resistant and constructed of stainless steel.
- The valve bonnet or cover shall accommodate a packing set. The packing shall be self-adjusting chevron type, replaceable without removing valve actuator.
- Thrust bearings shall be provided at the top and bottom faced surfaces of the plug. Thrust bearings shall be corrosion resistant.
- Test certificates shall be provided showing evidence of hydrostatic and cycle tests conducted per AWWA C-504 with all adjustments noted.
- The valve shall be evenly coated with a submersible primer.
- All eccentric plug valves shall be drop-tight during a leak test at the specified shutoff pressure and pass a body hydro test at twice the cold working pressure rating prior to shipment.
- Manual gear actuators shall be self-locking in all positions. Above ground actuators shall be equipped with handwheels or chainwheels as specified. Buried service actuators shall be equipped with a 2" operating nut and shall be capable of withstanding 300 ft.-lbs. against the stops.

PLUG VALVES (Flanged)	SIZE	PRODUCT NUMBER
	4"	39029 1
	6"	39046
	8"	39078
	10"	39090
12"	39120	

NOTES:

- 4" and 6" valves are supplied with lever handle and 8" -12" valves are supplied with gear operator and handwheel.
- Plug valves are available with MJ ends. They require a sealed, enclosed gear operator and 2" operating nut. Please call your local Team EJP for more information that may be pertinent to your specific needs.
- Other sizes of plug valves are available upon request. Please call your local Team EJP sales office.