Val-Matic’s quality of design and meticulous workmanship has set the standards by which all others are measured. Quality design features such as the AWWA EnerG® Ball Valve with its energy efficient design, fusion bonded epoxy and adjustable resilient seating....Cam-Centric® Plug Valves have more requested features than any other eccentric plug valve....American-BFV® Butterfly Valves include a field replaceable seat without the need for special tools....Tilted Disc® Check Valves with high strength and wear resistant aluminum bronze trim as standard....Silent Check Valves featuring combined resilient/metal-to-metal seating and are NSF/ANSI 61 & 372 Certified....Sure Seal Foot Valves provided with a heavy duty stainless steel screened inlet....Swing-Flex® and Surgebuster® Check Valves designed with an unrestricted full flow area....Swing Check Valves with field adjustable closure versatility....Dual Disc® Check Valves utilizing stabilized components to provide extended life....Air Release, Air/Vacuum and Combination Air Valves provided standard with Type 316 stainless steel trim....VaultSafe® family of products includes the FloodSafe® Inflow Preventer, FrostSafe® two-way damper and the VentSafe® vent pipe security cage. The Quadrosphere® Trunnion Ball Valve features a unique ball design with recessed surfaces creating additional flow paths to provide a self-cleaning action and reduced wear and torque.

Val-Matic is totally committed to providing the highest quality valves and outstanding service to our customers. Complete customer satisfaction is our goal. Make the change to quality, specify Val-Matic!
A. **100% Port**
The rectangular port area matches the full pipe area for low headloss and non-clog performance. The full discharge downstream port has no restriction to provide maximum flushing action.

B. **Eccentric Action**
Provides positive shut off in both directions at full rating with wear resistant action and low torque.

C. **Full Top Access Cover with Adjustable Packing**
The removable full size top access cover enables maintenance and inspection without valve removal. The packing is adjustable and replaceable without removal of the actuator.

D. **V-Packing**
V-Type packing gland with removable POP™ shims for controlled adjustment and long packing life.

E. **Radial Bearings**
Heavy Duty, T316 Stainless Steel, Permanently Lubricated.

F. **Thrust Bearing**
Upper and Lower PTFE thrust bearings provides ease of actuation during operating conditions.

G. **Grit-Guard™ Shaft Seal**
The resilient molded Val-Matic Exclusive Grit-Guard™ seals extend packing and bearing life by reducing wear and infiltration of grit.

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

I. **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.

J. **End Connections**
Flange mating dimensions comply with ANSI Class 125. Mechanical Joint dimensions comply with AWWA C111. Laying lengths comply with AWWA C517.
Proven Design
With installations worldwide, the Val-Matic Cam-Centric® Plug Valve has proven itself as the preferred valve for wastewater, industrial waste and process applications. The Cam-Centric® Plug Valve is a ¼ turn eccentric plug valve allowing cost effective, low torque actuation for pump control, shut-off and throttling service. The valve’s eccentric action rotates the plug in and out of the seated position with minimal contact, thereby preventing high torque and wear to the valve seat and plug. The combination of the eccentric action, stainless steel bearings, Grit-Guard™ seals and heavy duty nickel seat assures long life with minimal maintenance.

Preferred Features
The Cam-Centric® Plug Valve features a shaft sealing system that utilizes V-Type packing, a packing follower and a Grit-Guard™ seal for ease of maintenance and to reduce wear. The Grit-Guard™ seals reduce wear by preventing grit and media from reaching the bearings and packing to prevent plug lock up. The seals are standard in both the upper and lower journals (Figure 2). To prevent the packing from being over tightened, the shaft seal incorporates POP™ (Packing Overload Protection) Shims. The packing is easily adjusted by removing the POP™ shims as necessary utilizing the pull tab feature (Figure 2). Adjustment or replacement of the V-Type packing can be done without removal of the gear, motor or cylinder actuator.

The outlet of the Cam-Centric® Plug Valve contains a full discharge port that is specifically designed to prevent clogging in wastewater and slurry services. The port provides full flushing action, draining the sediment and grit from the valve during cycling. The outlet is equal to the pipe size, yields low headloss and enables cleaning of the pipeline with a resilient, high-density polyurethane foam pig (Figure 3).

The Cam-Centric® bearing package consists of permanently lubricated, T316 stainless steel radial bearings in both the upper and lower journals. The thrust bearings are made of PTFE for ease of operation. The bearings are protected from grit-related wear by the resilient Grit-Guard™ seals.

The Cam-Centric® Plug Valve utilizes a contoured and totally encapsulated molded plug to reduce corrosion and wear in severe abrasive applications. Its ductile iron construction provides strength and rigidity to withstand dynamic forces from flow and pressure.

The valve seat is a welded overlay of 99% pure nickel applied directly to the body on a machined surface using a state-of-the-art robotic pulse-arc welding system for a consistent, high quality weld (Figure 4).

Advanced Technology
Incorporating the latest in valve technology assures a high-quality valve that will provide long service. The design process utilized solid modeling and finite element analysis (FEA) of the key structural components. Flow and torque data was derived from flow tests, mathematical models and computational fluid dynamics (CFD). Manufacturing technology uses automated process control in the foundry and ISO 9001 controlled manufacturing processes. Every valve is tested in accordance with AWWA C517 and MSS SP-108 on automated hydraulic test rigs with gauges calibrated in accordance with ISO standards.
Val-Matic Worm Gear

A valve actuator must perform to the same level as the valve. The Val-Matic worm gear is designed and built to provide the same long term service as our Cam-Centric® Plug Valve. The exclusive bearing package in the worm gear includes four bronze sleeve bearings and two roller thrust bearings. This exclusive package assures smooth operation and long life regardless of the valve’s orientation or application. The ductile iron segment gear coupled with the upper and lower bronze radial bearings exceed the requirements of AWWA C517 for strength and durability. All worm gears are designed to withstand a rim pull of 200 pounds on handwheels and an input torque of 300 foot pounds for operator nuts without damage. Buried service worm gear input shafts are corrosion resistant, the housing is packed with grease, and the indicator is replaced with a blind cover. Worm gears can be provided with handwheels, chainwheels or 2 inch operator nuts.

A. Housing
Heavy duty, totally enclosed and sealed.

B. Worm
Hardened steel for durability and long life.

C. Radial Shaft Bearings
Bronze shaft bearings extend life and provide ease of operation (rear shaft bearing not visible).

D. Roller Thrust Bearings
Provides smooth operation and extends life.

E. Segment Gear
Heavy duty ductile iron for high strength. Provided with precision bore and keyway for connection to the valve shaft in multiple positions.

F. Segment Gear Radial Bearings
Upper and lower bronze bearings provide ease of operation and extend life (lower bearing not visible).

G. Cover Gasket
Seals housing and prevents foreign material from entering actuator and prevents loss of grease.

H. Shaft Seal
Prevents foreign material from entering the actuator.

I. External Stops
Both open and closed stops are external and easily adjustable.

J. Position Indicator
Displays precise plug position on above ground service.
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, chainwheels, electric motor and cylinder actuation. A wide variety of accessories such as floor stands and extended bonnets are also available (see accessories on page 7). Val-Matic Engineering personnel work closely with cylinder and electric actuation manufacturers to assure actuator/valve compatibility. This assures the actuator you specify will deliver the performance you expect when utilized with a Cam-Centric® Plug Valve.

**Worm Gear Features**

**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

**Val-Matic Cylinder Actuation:**
- Compliance with AWWA C541 for Power Actuation
- Pneumatic/Hydraulic
- Single Acting or Double Acting
- Fail Open/Closed for power failure
- Modulating Service
- Throttling Service
- Limit Switches, Solenoid Valves, Positioners
- Manual Overrides
- Pump Control

**Electric Actuation:**
- 110 Single Phase, 230/460 Three Phase
- Compliance with AWWA C542 for Power Actuation
- Modulating Service
- Throttling Service
- Remote push button control and indication
- Torque Switches, Limit Switches
- De-clutchable handwheels
- Available from a wide variety of manufacturers
The installation of the valve is important for its proper operation. The valve is capable of flow in either direction but the maximum operating pressure can vary with the location of the seat end (Figure 5). The words “SEAT END” are marked on the valve flange.

**SUSPENDED SOLIDS SERVICE:** For fluids containing suspended solids, special orientations are needed to prevent debris from collecting in the valve. For horizontal installations (Figure 6), the valve should be installed with the flow entering the seat end of the valve and the shaft in a horizontal position with the plug up when open. For vertical installations (Figure 7), the valve must be installed with the seat end up regardless of flow direction.

**CLEAN SERVICE:** For both horizontal and vertical installations, install in the direct pressure orientation (pressure opposite the seat end).

**AIR AND GAS SERVICE:** Install valve in the direct pressure orientation (pressure opposite the seat end). Lubricate plug face with FDA approved silicone grease such as Dow Corning #7 before installation. Gear actuators are required for gas service applications.

**PUMP DISCHARGE SERVICE:** On all horizontal pump discharge applications, the seat end should be towards the pump.

**BURIED SERVICE:** Gear actuators are recommended for buried valves to hold the valve in position and provide multi-turn closure to prevent water hammer. The valve should be installed with the shaft horizontal and the actuator nut directed upwards. The valve box or extension pipe should be installed so that the actuator nut and extension stem turn freely.
PRESSURE RATINGS

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CONNECTION</th>
<th>SIZE RANGE</th>
<th>CWP (psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5600F</td>
<td>ANSI Class 125 Flanged 100% Port</td>
<td>3” - 12”</td>
<td>175</td>
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<tr>
<td>5700F</td>
<td>AWWA C111 Mechanical Joint 100% Port</td>
<td>3” - 12”</td>
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<td>5600HP</td>
<td>ANSI Class 125 Flanged 100% Port High Pressure</td>
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MATERIALS OF CONSTRUCTION

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<tr>
<th>COMPONENT</th>
<th>STANDARD</th>
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<tbody>
<tr>
<td>Body (5600F, 5700F)</td>
<td>Cast Iron ASTM A126, Class B</td>
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<tr>
<td>Body (5600HP, 5700HP)</td>
<td>Ductile Iron ASTM A536, Grade 65-45-12</td>
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<tr>
<td>Plug and Integral Shaft</td>
<td>Ductile Iron ASTM A536, Grade 65-45-12, Buna-N Encapsulated, ASTM D2000</td>
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<td>Radial Shaft Bearings</td>
<td>T316 Stainless Steel</td>
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<td>Top and Bottom Thrust Bearings</td>
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<tr>
<td>Available Coatings</td>
<td>Two-Part Epoxy, Fusion Bonded Epoxy, Glass Lining, Rubber Lining</td>
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Accessories

Space limitations and application specifics often require special accessories. In addition to those shown below, Val-Matic offers a wide range of accessories to meet your application requirements.
Installation Dimensions

Direct Nut Operated
Flanged, Mechanical Joint

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Flanged Model No.</th>
<th>MJ Model No.</th>
<th>Handlever Model No.</th>
<th>Chainlever Model No.</th>
<th>Reverse</th>
<th>Direct</th>
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<th>A2</th>
<th>F</th>
<th>G</th>
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Notes:
1. Flange drilling conforms to ANSI B16.1, Class 125.
3. Handlevers (i.e. 4L) Chainlevers (i.e. 3CL) and Chain (1CN) are ordered separately.
### Flanged & Mechanical Joint End Connections

#### Installation Dimensions

**Series 5600F Flanged**

**Series 5700F Mechanical Joint**

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**Dimensions in Inches**

<table>
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<tr>
<th>Valve Size</th>
<th>Flanged Model No.</th>
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<th>Direct PSI</th>
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</tbody>
</table>

Consult factory for larger sizes.

**Notes:**
1. Replace handwheel (HW) diameter in the model number (i.e. /5A08) with 02 for 2" square operating nut (i.e./5A02).
2. Add a C suffix to model number to include Chainwheel Kit (i.e. 5606F/5A08C).
To control pressure surges and provide good controllability, the flow characteristics of valves should be considered.

The graph at left shows the inherent flow characteristics at a constant $\Delta P$ for various valves.

The Plug Valve has an inherent flow characteristic similar to a ball valve. When installed in a pipeline, the plug valve will approximate a linear flow characteristic because the piping system pressure losses will shift the flow curve to the left. A linear installed flow characteristic will help control surges and provide a wide range of controllability.
100% Port Specification

SCOPE
1.1 This specification covers the design, manufacture, and testing of 3 in. (75 mm) through 72 in. (1800 mm) 100% Port Eccentric Plug Valves suitable for water or wastewater service with pressures up to 250 psig (1725 kPa).
1.2 Plug Valves shall be quarter-turn, 100% port eccentric, with resilient encapsulated plug.

STANDARDS AND APPROVALS
2.1 Eccentric plug valves shall be designed, manufactured and tested in accordance with American Water Works Association Standard ANSI/AWWA C517.
2.2 All Plug Valves shall be certified Lead-Free in accordance with NSF/ANSI 372.
2.3 Manufacturer shall have a quality management system that is certified to ISO 9001 by an accredited certifying body.

CONNECTIONS
3.1 Flanged valves shall have flanges with drilling to ANSI B16.1, Class 125.
3.2 Mechanical Joint valves shall fully comply with ANSI/WWA C111/A21.11.

DESIGN
4.1 Valves shall have port areas of not less than 100% of pipe area.
4.2 3 in. (75 mm) and larger valves shall have a valve seat that is a welded overlay of 99% pure nickel applied directly to the body on a pre-machined, cast seating surface and machined to a smooth finish.
4.3 3 in. (75 mm) and larger plug valves shall have shaft seals which consist of V-type packing in a fixed gland with an adjustable follower and removable shims under the follower flange to provide for adjustment and prevent over compression.
4.4 Permanently lubricated, radial shaft bearings shall be supplied in the upper and lower bearing journals to eliminate the need for grease fittings. Thrust bearings shall be provided in the upper and lower journal areas, except for threaded type which only have upper thrust bearings.
4.5 Both the packing and bearings in the upper and lower journals shall be protected by Buna-N shaft seals located on the valve shaft to minimize the entrance of grit into the bearing journal and shaft seal areas.

MATERIALS
5.1 Valve bodies and covers shall be constructed of ASTM A126 Class B cast iron for working pressures up to 175 psig (1200 kPa) and ASTM A536 Grade 65-45-12 for working pressures up to 250 psig (1725 kPa). The words “SEAT END” shall be cast on the exterior of the body seat end.
5.2 3 in. (75 mm) and larger plugs shall be of one-piece construction and made of ASTM A126 Class B cast iron or ASTM A536 Grade 65-45-12 ductile iron and fully encapsulated with resilient facing per ASTM D2000-BG and ANSI/AWWA C517 requirements.
5.3 Plug valves shall have radial shaft bearings constructed of self-lubricating Type 316 stainless steel. The thrust bearings shall be PTFE. Cover bolts shall be corrosion resistant with zinc plating.

ACTUATION
6.1 Valves 3 in. (75 mm) to 8 in. (200 mm) shall be equipped with a 2 inch square nut for direct quarter turn operation with a hand lever. The packing gland shall include a friction collar and an open position memory stop. The friction collar shall include a nylon sleeve to provide friction without exerting pressure on the valve packing.
6.2 When specified, valves 3 in. (75 mm) and larger shall include a totally enclosed and sealed worm gear actuator with position indicator (above ground service only) and externally adjustable open and closed stops. The worm segment gear shall be ASTM A536 Grade 65-45-12 ductile iron with a precision bore and keyway for connection to the valve shaft. Bronze radial bearings shall be provided for the segment gear and worm shaft. Alloy steel roller thrust bearings shall be provided for the hardened worm.
6.3 All gear actuators shall be designed to withstand, without damage, a rim pull of 200 lb. on the handwheel and an input torque or 300 ft-lbs. for nuts.
6.4 Buried service actuators shall be packed with grease and sealed for temporary submergence to 20 feet of water. Exposed worm gear shafts shall be stainless steel.

OPTIONS
7.1 The interior and exterior of the valve shall be coated with an NSF/ANSI 61 approved fusion bonded epoxy.
7.2 Available linings include rubber for abrasive or corrosive fluids and glass for a smooth, non-stick surface.

MANUFACTURE
8.1 Manufacturer shall demonstrate a minimum of ten (10) years’ experience in the manufacture of plug valves. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings and operation and maintenance manuals.
8.2 The exterior of the valve for above ground service shall be coated with a universal alkyd primer. Valve exterior for buried service shall be coated with an epoxy coating.
8.3 Valve shall be marked with the Serial Number, Manufacturer, Size, Cold Working Pressure (CWP) and the Direct and Reverse Actuator Pressure Ratings on a corrosion resistant nameplate.
8.4 Plug Valves shall be Series #5600F or #5700F as manufactured by Val-Matic Valve and Mfg. Corporation, Elmhurst, IL. USA or approved equal.
Val-Matic’s quality of design and meticulous workmanship has set the standards by which all others are measured. Quality design features such as the AWWA EnerG® Ball Valve with its energy efficient design, fusion bonded epoxy and adjustable resilient seating. Cam-Centric® Plug Valves have more requested features than any other eccentric plug valve. American-BFV® Butterfly Valves include a field replaceable seat without the need for special tools. Tilted Disc® Check Valves with high strength and wear resistant aluminum bronze trim as standard. Silent Check Valves featuring combined resilient/metal-to-metal seating and are NSF/ANSI 61 & 372 Certified. Sure Seal Foot Valves provided with a heavy duty stainless steel screened inlet. Swing-Flex® and Surgebuster® Check Valves designed with an unrestricted full flow area. Swing Check Valves with field adjustable closure versatility. Dual Disc® Check Valves utilizing stabilized components to provide extended life. Air Release, Air/Vacuum and Combination Air Valves provided standard with Type 316 stainless steel trim. VaultSafe® family of products includes the FloodSafe® Inflow Preventer, FrostSafe® two-way damper and the VentSafe® vent pipe security cage. The QuadroSphere® Trunnion Ball Valve features a unique ball design with recessed surfaces creating additional flow paths to provide a self-cleaning action and reduced wear and torque.

Val-Matic is totally committed to providing the highest quality valves and outstanding service to our customers. Complete customer satisfaction is our goal. Make the change to quality, specify Val-Matic!