



**CITY OF AUSTIN  
STANDARD PRODUCTS LIST**

for

**RESILIENT-SEATED ECCENTRIC PLUG VALVES FOR WASTEWATER, AWWA C517**

**USING DEPARTMENT:** Austin Water      **PREPARED BY:** Jeff A. Kyle, P.E.      **ISSUED:** 01/01/24  
**REVISED BY:** Jeff A. Kyle, P.E.      **REVISED:** 10/01/24

**DESCRIPTION:** Eccentric Plug Valves for wastewater, non-lubricated, 2-inch and, 4-inch and larger, having ends with gaskets, glands, bolts, etc. as specified, shall comply with the following:

1. Compliance with AWWA C517
2. Minimum pressure rating of 200 psi
3. Plugs shall be solid one-piece, Ductile Iron ASTM 536 Grade 65-45-12 with chloroprene or acrylonitrile-butadiene facing.
4. Full-port construction with resilient faced cylindrical plugs eccentrically offset from the seat.
5. Seats shall be 1/8" thick welded overlay of not less than 95% pure nickel.
6. Packing shall be Acrylonitrile-Butadiene (NBR) multiple V-ring type, with a packing gland follower.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
01/01/24	DeZURIK 250 Riverside Avenue North Sartell, MN 56377	PEC Series (See Note 7)	J. Kyle
10/01/24	VSI WATERWORKS 1205 Alpha Dr. Alpharetta, GA 30004	Series PVII / 4" – 12" Series PVIF / larger than 12" (See Note 8)	J. Kyle

**NOTES:**

1. All valves larger than 6" shall be installed with worm gear actuators. All gearing shall be enclosed in a cast iron housing, with outboard seals to protect the bearings and other internal components. The actuator shaft and gear quadrant shall be supported on permanently lubricated bronze or stainless steel bearings.
2. Buried actuators shall be 90% grease filled. Input shaft and fasteners shall be stainless steel. Actuator mounting brackets shall be totally enclosed.
3. Packing gland shall permit inspection, adjustment, or complete replacement of packing without disturbing any part of the valve or actuator assembly, except the gland follower.
4. Interior and exterior coatings of ferrous surfaces shall be epoxy coated with minimum 8-mil thickness.
5. In horizontal pipelines install valve so plug rotates upwards 90-degrees to open. Plug face should be against direction of flow when shut.
6. For vertical installation in a CAV or Cleanout Assembly, install valve with the end marked "SEAT" facing down.
7. End connections for ordering shall be 'T1' for 2-inch valves and either 'F1' or 'MJ' for 4-inch and larger valves.
8. End connections for ordering shall be either 'F' or 'M' for 4-inch and larger valves.

**LATEST REVISIONS (Since 07/01/24):**

1. Added VSI WATERWORKS.