



## **AVK Swing Check Valve (Series 41) Sample Specification**

### 1. General

- A. Swing check valves shall be of the flanged type and in full compliance with AWWA C508.
- B. Valves may be supplied with or without external lever with weight or spring.
- C. The pressure rating shall be 250 psi.
- D. Check valves shall be American AVK Series 41 or equal.
- E. Valves shall be certified to ANSI/NSF 61.

### 2. Valve Bodies

- A. Valve bodies shall be of ASTM A536 Ductile Iron.
- B. Flanges shall be in compliance with ANSI B16.1 Class 125.
- C. Bronze seats, when required, shall be constructed of bronze complying with ASTM B62 and be mechanically retained in the valve body.
- D. The body shall be designed so that it is an AWWA clear waterway design.
- E. Laying lengths shall comply with ANSI/ASME B16.10.

### 3. Valve Disc

- A. Disc shall be a carbon steel core completely encapsulated with EPDM.
- B. Bronze seated valves shall have a mechanically secured disc seat constructed from bronze complying with ASTM B62.

### 4. Valve Hinge and Hinge Pin

- A. The hinge and hinge pin shall be constructed of AISI 316 stainless steel or fusion bonded epoxy coated ductile iron.
- B. A minimum of two O-rings shall be used to seal the hinge pin.

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## 5. Protective Coatings

- A. All exposed ferrous surfaces except stainless steel shall be coated with a fusion bonded epoxy that shall comply with AWWWA C550.

## 6. End Connections.

- A. Flanged ends shall comply with ANSI/ASME B16.1, class 125 flanges

## 7. Maintenance

- A. The check valve shall be designed such that the disc, hinge, and bonnet can be removed as one assembly.

## 8. Testing

- A. Testing shall be performed in accordance with AWWA C508. Test results shall be furnished to the end user upon request.