Resilient Wedge Series 145 Gate Valve for Fire Protection
Sample Specification

1. General

A. The valve shall be a ductile iron body and bonnet as specified. The valves shall be non-rising stem (NRS), open left, resilient seated, with an AWWA standard 2" square operating nut or Outside Stem and Yoke (OS&Y), open left, with hand wheel.

B. All bolting shall be stainless steel AISI grade 304. If nuts are used on the bolts the nuts shall be 304 stainless steel and the bolt threads shall be coated with an anti-galling compound.

C. Valves shall comply with the requirements of Underwriter's Laboratories Inc. and Factory Mutual specifications.

2. Resilient gate

A. The valve gate shall be ductile iron, fully encapsulated with EPDM rubber, and shall be capable of a drip-tight shutoff with flow in either direction.

B. The EPDM shall be permanently vulcanized to the gate.

3. Stems

A. Valve stems shall be made of 304 stainless steel with minimum yield strength of 40,000psi.

B. NRS stems shall be provided with separate bronze thrust collars.

4. Seals and Gaskets

A. NRS valve stem seals shall be an o-ring type with not less than one o-ring below the thrust collars and two o-rings above the thrust collars.

B. If an o-ring groove is cut into the stem the diameter of the groove shall not be less than the root diameter of the stem threads.

C. O-rings and gaskets shall be made of an NBR rubber to help prevent the effects of permeation.

American AVK Company
2155 Meridian Blvd
Minden, NV 89423
Tel: (775) 552-1400
Fax: (775) 783-1031
sales@avkus.com
www.americanavk.com

D. Bonnet gaskets shall be an o-ring type that completely encircles each individual bonnet bolt so that the bolts are isolated from internal or external water sources.

5. Protective Coatings

A. The exposed ferrous surfaces, except those made of stainless steel, shall be coated with a fusion bonded epoxy in accordance with AWWA C550.

6. End Connections

A. End Connections shall be either Flanged, Grooved, or a combination thereof.

B. Grooved joints shall comply with the requirements of AWWA C606.

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