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## Post / Flushing Hydrant (S67 Dry Barrel) Sample Specification

### 1. General

- A. Post / Flushing Hydrants shall meet or exceed AWWA C502 where applicable.
- B. Post Hydrants shall be manufactured and tested in an ISO 9001 certified facility located within the United States.
- C. Post / Flushing shall be rated for a working pressure of 250 PSI. (1725 kPa).
- D. Post / Flushing shall be of the compression type, opening against system pressure and closing with system pressure.

### 2. Main Valve and Drains

- A. The main valve shall have a ductile iron core, be of one-piece construction, and completely encapsulated with EPDM.
- B. Post / Flushing shall have a minimum 2-1/4" main valve opening.
- C. The EPDM rubber shall be permanently vulcanized to the main valve core.
- D. The main valve shall provide complete closing of the drains after 4 to 5 turns of the operating nut in the opening direction.
- E. The Drain Ring assembly shall be replaceable without removing the hydrant from the connecting pipe or having to dig.

### 3. Stems

- A. Upper hydrant stem rods shall be made of solid stainless steel. Hollow pipe or tubing type stem rods are not allowed.

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#### 4. Operating Nut

- A. Operating nuts shall be one-piece bronze design with upper and lower anti-friction washers for ease of operation. A protective weathershield shall be installed over the operating nut.

#### 5. Nozzles

- A. Nozzles shall be of the ¼ turn bayonet lug style, secured with a stainless steel locking screw, allowing ease of change in case of damage to the nozzle.
- B. Nozzle thread type shall be as specified by the end user.

#### 6. Lubrication

- A. The operating mechanism shall be grease lubricated.
- B. The lubrication reservoir shall be cast as part of the bonnet, creating a watertight cavity using o-rings only.
- C. The reservoir shall be filled with NSF/FDA approved food grade grease or oil at the manufacturer's facility. The food grade lubricant shall not contain any acetates or silicone.
- ~~D.~~ Valve stem seals shall be an o-ring type with not less than two o-rings located in the bottom of the lubrication reservoir to prevent internal pressurized water from entering the lubrication chamber.
- E. 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.
- F. O-rings and cap gaskets shall be made of an NBR rubber to help prevent the effects of permeation.

#### 7. Shoe

- A. End Connections shall be-Mechanical Joint, female NPT, Flanged, or HYMAX GRIP ®.
- B. Mechanical joints shall comply with the requirements of AWWA C111.
- C. Flanged ends shall comply with ANSI/ASME B16.1, class 125 flanges.

#### 8. Break Flange and Couplings

- A. All post / flushing hydrants shall be provided with the break-off feature which shall be of the traffic breakaway type and allow 360-degree rotation of the fire hydrant to position the Pumper nozzle in the desired direction.
- B. The breakable, traffic type stem coupler shall be made of stainless steel.
- C. The break flange segments shall be located under the upper barrel flange to prevent the segments from falling into the lower barrel when the hydrant is struck.

9. Lower barrels, seals and bolting

- A. All lower barrels shall be an as-cast type made of ductile iron. Threaded lower barrel sections are not allowed.
- B. All joints on the entire hydrant assembly (except for the nozzle cap), shall be sealed using o-rings.
- C. All bolting shall be zinc plated steel with 304 or 316 stainless steel bolting available as an option.

9. Warranty

- A. All fire hydrants shall be covered by a Manufacturer's 1 year Limited Warranty on manufactures defects and labor costs for replacement.

10. Approved Equal

- A. Post / Flushing shall be American AVK Series 67 or approved equal.