



## REQUEST FOR INTERPRETATION OF 3-A SANITARY STANDARDS OR 3-A ACCEPTED PRACTICE CRITERIA

<b>Requester(s) Name and Address:</b>  3-A Sanitary Standards, Inc. 1451 Dolley Madison Boulevard McLean, Virginia 22101 (Resolution of Report of Alleged Nonconformance (RAN))	<b>Standard/Practice Name and Number:</b>  <i>3-A Sanitary Standard #68-00, Ball Type Valves</i>
<b>Requester(s) Telephone No.:</b>  703-790-0295	<b>Criteria Paragraph Number:</b>  D7.1

### **RAN Allegations:**

D7.1 All internal angles of less than 135° on product contact surfaces shall have radii of not less than 1/8 in. (3.18 mm) except that:

D7.1.1 The radii in grooves in gaskets or gasket retaining grooves, except for those provided for in Section D5, and those for standard 1/4 in. (6.35 mm) and smaller O rings, shall be not less than 1/16 in. (1.59 mm).

D7.1.2 The radii in grooves for standard 1/4 in. (6.35 mm) O rings shall not be less than 3/32 in. (2.38 mm) and for standard 1/8 in. (3.18 mm) O rings shall be not less than 1/32 in. (0.794 mm).

### **Supporting Comments:**

“The lack of radii on competitive valves, and our CCE’s review and lack of comment on these corners on our drawings supports the interpretation that the radius requirement does not apply due to the impracticality of a 0.12 in. radius in these areas. A 0.12 in. radius is impractical because it would adversely affect the ball-stem engagement and performance / functionality of this and most other valves on the symbol holders list for standard 68-00.”

### **Interpretation Committee Response:**

The IC noted that the machined groove in the top of the ball was a product contact surface, and thus clause D7 applies. The IC stated the following with respect to each allegation:

Allegation 1: The internal angles in the machined groove in the top of the ball do not have the required 1/8 inch radii. (D7.1).

Ruling: Substantiated. The required 1/8 inch minimum radius, as stipulated in section D7.1 of Standard 68-00, was not met for the machined groove in the top of the ball.

Allegation 2: The internal angles less than 135 degrees of the ball actuator stem do not have the required 1/8 inch radii. (D7.1).”

Ruling: Substantiated. The required 1/8 inch minimum radius, as stipulated in section D7.1 of Standard 68-00, was not met for the internal angles that are less than 135 degrees on the ball actuator stem.

Date Received by 3-A SSI: September 13, 2006	IC Chair Signature: Randy Elsberry
Date Reviewed: December 6, 2006	
Date of Response: December 6, 2006	Date: December 6, 2006