



Badger
Fire Protection
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A UTC Fire & Security Company

PRODUCT BULLETIN #455-1011

Date: October 28, 2011
To: Badger® Fire Protection Pre-Engineered Distributors
Subject: System Valve Actuator (SVA) Inspection/Replacement

IMPORTANT PRODUCT INSPECTION/REPLACEMENT INFORMATION
**PLEASE SHARE IMMEDIATELY WITH YOUR DESIGN,
INSTALLATION, SERVICE AND PURCHASING PERSONNEL**

Badger has identified a potential issue with the Spring Loaded Plunger on recently manufactured System Valve Actuators (SVA). The SVA is used to actuate all Range Guard® wet chemical and Industry Guard™ dry chemical cylinder assemblies. In some units, the plunger may not have been properly inserted into the actuator piston, which could prevent the SVA from locking in the actuated (extended) position (see Figure 1).

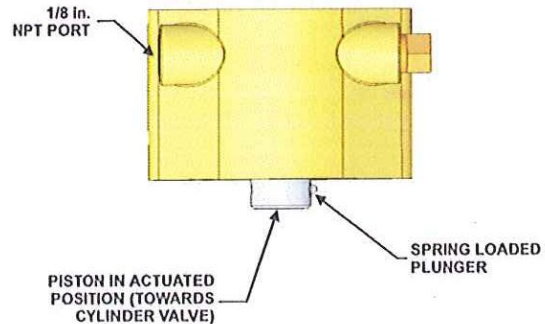
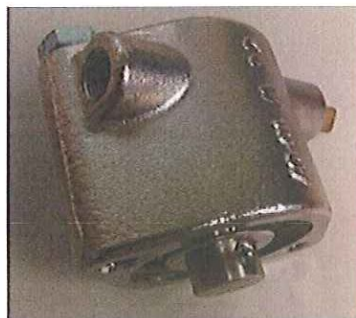


Figure 1. SVA in Actuated Position

This issue will not compromise the operation of a properly installed and maintained system. Rather, the plunger serves as an additional safety measure, ensuring that the cylinder valve remains open for a complete discharge in the event of an actuation line leak.

AFFECTED COMPONENTS

One SVA is included with each Universal Control Head (UCH) and each A+ Control Box. The SVA is also sold separately and included in some kits. Please see list of affected part numbers below:

P/N	Description
87-120042-001	SVA
60-120099-001	Universal Control Head (UCH)
60-120010-001	A+ Control Box
23320	UCH Kit
23322	A+ Control Box Kit

23328	BIDC DC-150/125 Kit
23329	BIDC DC-145/121 Kit
23330	BIDC DC-145/121 Vehicle Booth Kit
23332	BIDC DC-170/DC-121 Open Front Booth Kit
23333	BIDC Mechanical Kit

Any SVA bearing a manufacturing date code of JUNE 2011, JULY 2011 or AUG 2011 may be affected. The manufacturing date code can be found on the label on top of the SVA, along with the SVA part number (see Figure 2).



Figure 2. SVA Date Code Label

REQUIRED ACTIONS

Although the issue as described does not affect the operation of a properly installed and maintained system, Badger Fire Protection requires the following actions be taken to ensure that the safety feature operates as intended.

In-Stock Units:

1. Please review the date code on all in-stock SVAs received after May 31, 2011, including those shipped with a UCH or A+ Control Box. **If the manufacturing date code matches one of those listed above, the unit will need to be replaced.**
2. Please contact your customer service representative (CSR) at 800-446-3857 for a Return Authorization (RA) number or submit the attached Advance Replacement/RA request to your CSR. An advance replacement SVA will be sent at no charge. To avoid billing for any advance replacements, the suspect unit(s) must be returned within 6 months of the RA approval or written confirmation of disposal must be noted as per the Advance Replacement/RA request form.

Units Installed After May 31:

The inspection may be performed at the next service interval. Badger Fire Protection recommends carrying sufficient additional SVAs on the maintenance call, in the event that replacements are required.

1. Conduct the standard actuation test as required during regularly scheduled maintenance
 - a. All SVAs in service should be tested as indicated in the appropriate wet or dry chemical system Design, Installation, Operation and Maintenance DIOM manual:

Manual P/N	Description
60-9127100-000	Range Guard Fire Suppression System
60-900000-001	Industrial Dry Chemical Fire Suppression System

- b. After conducting the actuation test and ensuring that there is no leakage in the actuation line, the pressure must be released by slowly opening one of the fittings on the line (or high pressure braided tubing if applicable), as indicated in the DIOM manuals.
2. **Prior to re-setting the SVA, test the locking function by pushing firmly on the piston without depressing the spring-loaded plunger.**
 - a. If the piston is held in place by the spring-loaded plunger, the unit is acceptable. To indicate the SVA has been inspected and tested per this service bulletin, it is recommended that "SB #XX" is written on the P/N label. Continue with standard maintenance procedures.
 - b. If the piston is not held in place by the spring-loaded plunger, replace the SVA with a new unit and re-test the actuation line with the new SVA connected. If re-test is successful, continue with standard maintenance procedures.
3. If any defective units were found, return per the above RMA process (see In-Stock Units, Step 2).

Badger Fire Protection recommends performing the SVA locking function test (see Installed Units, Step 2) in the future as part of standard test procedures for all Range Guard and Industry Guard systems. This step will be added to the installation and maintenance instructions at the next revision of the affected manuals.

Thank you for your continued support. If you have any questions or concerns, please feel free to contact your Regional Sales Manager or Customer Service Representative. For technical questions regarding this issue, please contact Customer Technical Services at 866-287-2531.