



Product Test Report

PTR-5025

Swagelok Company
29495 F.A. Lennon Drive
Solon, Ohio 44139 U.S.A.

Ver 01
August 2023
Page 1 of 3

TITLE

Actuation Torque Test of Swagelok® 8GB and 16GB General Service Ball Valves

PRODUCT TESTED

(6) SS-8GBF8
(6) SS-16GBS12

PURPOSE

To observe the valve actuation torque at the maximum allowable working pressure over a seven-day period between blowdown cycles.

TEST CONDITIONS

Original test date: October 2020

Test media: nitrogen

Test temperature: room temperature 70°F (20°C)

Test pressures:

- 0 psig
- 6000 psig (413 bar)

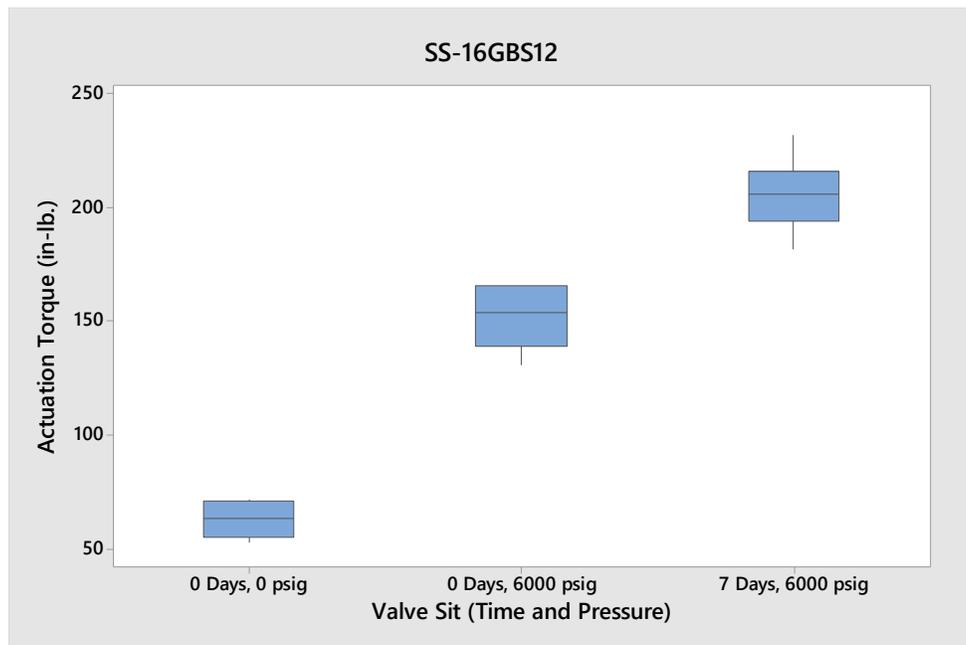
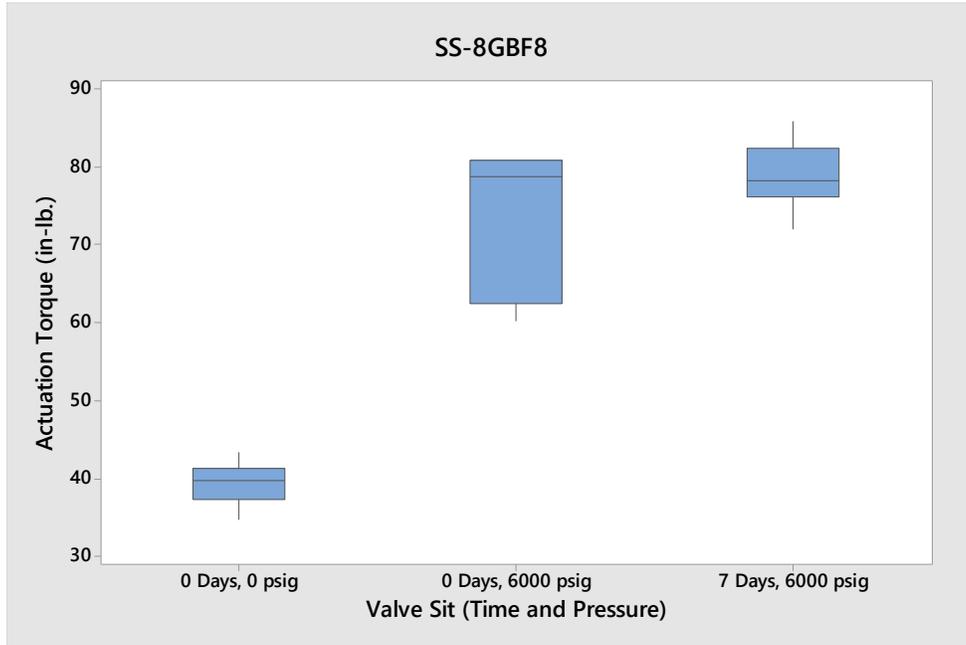
Sit times:

- 0 days
- 7 days

TEST METHOD

1. All test valves were assembled according to standard Swagelok specifications.
2. Each test valve was connected at the inlet to a variable pressure source. The outlet was connected to a vent.
3. Each test valve was set to the closed position.
4. The test valves were then actuated to the open position with a torque wrench and the maximum torque value recorded.
5. The test valves were then actuated to the closed position.
6. The inlet pressure of the test valves was increased to 6000 psig (413 bar).
7. Steps 4 and 5 were repeated.
8. The test valves sat for 7 days at 6000 psig (413 bar).
9. Steps 4 and 5 were repeated.

TEST RESULTS



This data is not intended to be used for determining actuator size. Refer to the *Actuated Ball Valve Selection Guide*, MS-02-136, for additional information.



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Page 3 of 3

This test was performed to consider a specific set of conditions and should not be considered valid outside those conditions. Swagelok Company makes no representation or warranties regarding these selected conditions or the results attained. Laboratory tests cannot duplicate the variety of actual operating conditions. Test results are not offered as statistically significant. See the product catalog for technical data.

SAFE PRODUCT SELECTION

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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