



**Summary of Substantive Changes
between the 2013 and the 2008 editions of
MSS SP-67 “Butterfly Valves”**

Presented to the IAPMO Standards Review Committee on November 7, 2016

General: General: The changes to this standard may have an impact on currently listed products. The substantive changes are:

- Added requirements for retention of Stems, Stem Seal Elements and Closure Members (see Sections 4.5, 4.6 and 4.7)
- Added a new annex for Referenced Standards (see Annex B)

Section 4, Design Requirements: Added requirements for retention of Stems, Stem Seal Elements and Closure Members as follows:

[4.5 Stems](#)

[Stem retention and strength shall meet the requirements of ASME B16.34. The design shall not rely on actuation components \(e.g., gear operators, actuators, levers, etc.\) to prevent ejection.](#)

[4.6 Retention by Stem Seal Element](#)

[Valves shall be designed so that the stem seal retaining fasteners \(e.g., packing gland fasteners\) alone do not retain the stem. Specifically, the design shall be such that the stem shall not be capable of removal from the valve while the valve is under pressure by the removal of the stem seal retainer \(e.g., gland\) alone.](#)

[4.7 Retention by Closure Member](#)

[Valves, including those intended for isolation, regulation, or flow reversal shall be provided with a means so that in the event of a structural failure of stem-to-closure attachment items, the stem will not be ejected through the pressure boundary while the valve is under pressure.](#)

The following New Annex was added:

[Annex B, Referenced Standards and Applicable Dates](#)

[tube in annealed temper.](#)