

**Summary of Substantive Changes  
between the 2005 edition of  
ASME A112.19.5, “Trim for Water Closet Bowls Tanks and Urinals”,  
the 2011 edition of  
CSA B125.3, “Plumbing fixtures”,  
and the 2011 edition of  
ASME A112.19.5/CSA B45.15, “Flush valves and spuds for water closets, urinals,  
and tanks”**

**General:** Changes to this standard will affect current listings. The life cycle test requirements for flush valves were reduced from 250,000 cycles with water at  $10 \pm 6$  °C ( $50 \pm 10$ °F) to 150,000 cycles with water at  $21 \pm 5$  °C ( $70 \pm 10$ °F), and the pull-out test for non-threaded flush valves was deleted. The 2011 edition is harmonized between ASME and CSA.

Title: changed from ~~Trim for water Closet Bowls, Tanks, and Urinals~~ to Flush valves and spuds for water closets, urinals, and tanks.

Clause 4.1, Rated temperatures: Flush valves and spuds shall be designed for rated supply temperatures between 5 and 43 °C (40 and 110°F) was added.

Clause 5.1, Preconditioning: Before testing, specimens shall be conditioned at ambient laboratory conditions for a minimum of 12 h was added.

Clause 5.1.3.2, Non-threaded: Formerly Clause 3.2.2 in 2005 edition. The clause was changed as follows: ~~if a Flush valves is to be assembled to the flush tank water closets by any means other than a threaded attachment it shall be withstand a pull out force of 60 lbf 267 N when tested in accordance with para 4-2 Clause 5.4.~~

2005 Edition, Clause 4.2, Flush Valve Assembly-Nonthreaded Assembly Test: The following was deleted:

~~4.2 Flush Valve Assembly Nonthreaded Assembly Test~~

~~4.2.1 Criteria. The flush valve shall withstand a pullout force of 60 lbf (267 N)~~

~~4.2.2 Test Method. Assemble the flush valve in an appropriate fixture and mount the fixture normally. A 60 lbf (267 N) vertical force shall be applied to the flush valve and held for 1 min.~~

~~4.2.3 Performance Requirement. The flush valve shall not pull loose from the fixture nor shall it show signs of damage.~~

Clause 5.2, Life cycle test: The life cycle test requirements were reduced from 250,000 cycle with water at  $10 \pm 6$  °C ( $50 \pm 10$ °F) to 150,000 cycle with water at  $21 \pm 5$  °C ( $70 \pm 10$ °F).

Clause 5.4.2, Test method: The container depth and the required water depth for the flush valve joint leak test was changed from ~~534~~ to 500 mm (~~21~~ to 20 in), and the water temperature for the test was specified as  $21 \pm 5$  °C ( $70 \pm 10$ °F).

Clause 5.5.3.1, Apparatus: Text changed from: ...~~consists of an 8 in 203 mm diameter clear PVC pipe~~... to ...shall consist of an NPS-8 clear PVC...

Figures 1 and 2, depicting a standard flush valve for gravity flush tanks and a flush elbow, were removed.

Some dimensions in Table 1, *Dimensions of reducing water closet and urinal spuds*, and Table 2, *Dimensions of regular water closet and urinal spuds*, were changed.