

# IS 8931: 2021



## Justification for the Proposed Change

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# Comment Details

- **Standard:** IS 8931 : 2021
  - **Description:** Copper alloy single taps, combination tap assemblies, stop valves and single lever mixers for water services — specification
  - **Clause No.:** 7.2.2 Diameter of Single Lever Cartridge  
“The minimum nominal diameter of the single lever mixer cartridge shall be 35 mm.”
  - **Type of Comment:** Technical
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# Suggestion

- ✓ **Remove** the dimension requirement as mentioned in 7.2.2 Diameter of Single Lever Cartridge

~~7.2.2 Diameter of Single Lever Cartridge~~

~~The minimum nominal diameter of the single lever mixer cartridge shall be 35 mm.~~

- ✓ **Add additional criteria:** To mitigate the risk of Handle drop, BIS can revise the IS as per below:-

During and after the test, the specimens shall continue to function as they did at the beginning of the test and shall not develop defects that could adversely affect their functionality or serviceability. **At the end of every 10,000 Cycles, operate the specimen manually to check if any auto shut off(Eg: Handle Self Drop) or any mechanical failure is observed.**

# Justification for the Proposed Change

1. No Global standards control the dimension of Cartridge

S No.	Country	Standard	Cartridge Diameter Controlled
1	USA	ASME A112.18.1/CSA B125.1	No
2	Canada	ASME A112.18.1/CSA B125.1	No
3	Mexico	NOM-012-CONAGUA-2017	No
4	China	GB 18145	No
5	UK	EN817	No
6	EU	EN817	No
7	Australia	AS 3718:2021	No

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2. Controlling the size of Cartridge puts limitation on product design.
3. Size of overall product increases due to 35mm Cartridge
4. Larger faucets become heavier and lead to a waste of national resources, particularly metals.
5. The large size of the cartridge results in a high flow of water, which contradicts sustainability guidelines.
6. As this clause doesn't align with Global standards on cartridge diameter requirement, the intent of upgrading Indian Manufacturing to export quality product is restricted