



## **IS 362:1991 PARLIAMENT HINGES - SPECIFICATION**

**Hinges** can be defined as a joint that **holds two parts together** so that one can **swing** relative to the other. There are various kinds of hinges. **IS 362** deals with **Parliamentary hinge**. Parliament hinges are a type of hinge used in **construction and furniture making**. They are characterized by their ability to allow a door or window to open 180 degrees. The standard covers three types of parliament hinges: **cast, pressed, and fabricated**.

The document specifies materials for each type, with **cast hinges** typically made from **brass**, **pressed hinges** from **mild steel or aluminium alloy**, and **fabricated hinges** from extruded **aluminium alloy**.

Consumers expect parliament hinges to be **durable, functional, and aesthetically** pleasing.

**Key quality parameters include:**

- **Dimensional accuracy:** The hinges should meet the specified dimensions and tolerances to ensure proper fit and function.
- **Strength and durability:** The hinges should be strong enough to support the weight of the door or window and resist wear and tear.
- **Smooth operation:** The hinges should operate smoothly and quietly without sticking or binding.
- **Corrosion resistance:** Hinges used in exterior applications or humid environments should be resistant to corrosion.
- **Appropriate finish:** The finish of the hinges should be consistent and meet the aesthetic requirements of the application.

The standard addresses these expectations by specifying **materials, dimensions, manufacturing processes, and finishes** for parliament hinges. **Specific requirements include:**

- **Material standards:** The materials used for different types of hinges must comply with relevant Indian Standards, ensuring material quality and consistency.
- **Dimensional tolerances:** The standard specifies tolerances for various dimensions of the hinges, ensuring proper fit and interchangeability.
- **Manufacturing requirements:** The hinges must be free from flaws and defects, with clean cuts, central hinge pins, and smooth operation.
- **Screw hole specifications:** The standard specifies the number, position, and size of screw holes to ensure secure attachment.
- **Finish requirements:** The standard outlines different finishes for brass, aluminium alloy, and mild steel hinges, including bright, satin, anodized, and electro-galvanized finishes.

By adhering to the specifications outlined in IS 362:1991, manufacturers can ensure that parliament hinges meet consumer expectations for quality and performance.