

Bellows Seal Globe Valve: Zero Stem Leakage

In a bellows seal globe valve, the stem is fully isolated from the process fluid by a metal bellows welded to the disc at one end and to the bonnet at the other. This removes the packing leak path; the packing remains only as a secondary seal.

Technical specifications

Design	Multi-ply stainless steel bellows; backup packing
End connections	Flanged (EN 1092-1 or ASME B16.5), butt-weld, socket-weld
Materials	Carbon steel, stainless steel or Cr-Mo body; bellows 316Ti / 321 or similar
Applications	Thermal oil, toxic and flammable chemicals, vacuum, zero-emission targets

Key features

- Zero stem leakage
- Packing as a secondary seal
- Long cycle life with multi-ply bellows
- Anti-rotation stem lock