



WTA® HF Alkylation Valves

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Bellows Sealed Globe Valves provide the highest fugitive emission protection for Hydrofluoric Acid (HF) applications including Alkylation.

Key features include:

- 1 **Superior safety sealing system** with multiple walled bellows, gland packing, metal back seat, two-part rising stem, stellite coated, conical shaped piston and seat.
- 2 Compliant with the demanding **UOP Specifications** for Bellows Sealed Globe Valves used for HF applications.
- 3 The **robust bellows design** offers significant operating and maintenance cost savings.



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Product Features

Bellows sealed globe valves with protected bellows and safety gland packing designed for min. 10,000 cycles.

Benefits

- Less plant downtime due to bellows with longer lifetime and easy as well as quick maintenance on valves due to less parts (<5)
- Low emissions due to TA-Luft approved design
- Design provides higher integrity isolation than other valve designs

Typical Applications

For various media with toxic or aggressive characteristics including HF Alkylation and other HF applications.

Materials of Construction

- Body made of ASTM A 216 WCB-S16 , Monel®, Hastelloy® C276
- Body seat hard-faced with Stellite® 21
- Disc in Hastelloy® C276 hard-faced with Stellite® 6
- Bellows and trim in Monel®, Hastelloy® C276

Body Configurations

- T-type body design
- Globe valve face to face standard
- Gate/Plug valve face to face standard
- Body/bonnet wall thickness exceeds API 602 for additional corrosion resistance

Size Range

NPS ½" - 12"
Other sizes are available upon request

Pressure Ratings

ASME class 300, 600, 800
Other classes are available upon request

End Connections

Flange design in accordance with ASME B 16.5 and EN 1092-1.
Other classes are available upon request

Painting

Body/bonnet and end flanges painted with HF leakage detection paint.

Testing

In accordance with UOP and ConocoPhillips requirements including Shell and Helium leak test. WTA® HF Valves exceed API 598 requirements by testing every valve to zero leakage.*

Automation

Pneumatic actuated HF valves available with special bellows designed for up to 100,000 cycles.

*Zero leakage - in accordance with UOP specifications and API 598 standards
Hastelloy® is a trademark of Haynes International Inc.
Stellite® is a registered trademark of Deloro Stellite.