HABONIM
Industrial Valves & Actuators

Inspired By Challenge

HermetiX™ Fire safe for the API industry

Zero Contamination fire safe valve

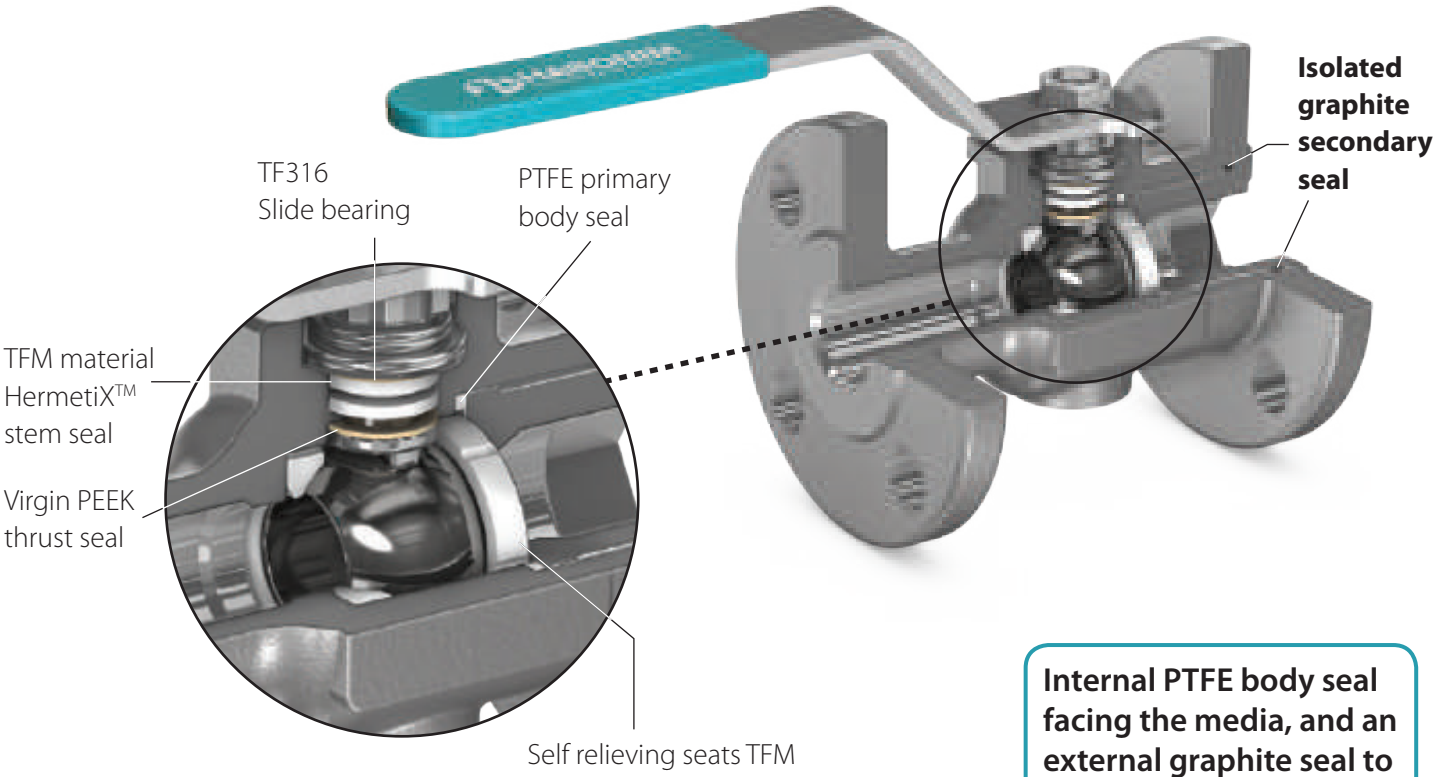
API HermetiX™ fire safe valve

The inherent dilema for the API industry begins when defining the piping equipment to fulfill engineering specifications. On the one side, there is a mandatory demand for fire safe certified valves in an Ex-proof zone, which dictates graphite material as the traditional solution for stem and body seals. Then there is the counter mandatory demand for FDA approved materials in contact with the media, accompanied by strict cleanliness demands for parts used in high purity processes.

Habonim's response to this challenge is a premium line of products based on the HermetiX™ fire safe technology. This unique fire safe valve design includes a Zero Contamination HermetiX™ stem seal consisting of a virgin PEEK thrust bearing and anti-abrasion ring, and a stem seal made of TFM material. Both virgin PEEK and TFM are FDA approved. A double body seal set is comprised of an internal PTFE body seal facing the media, and an external graphite seal to withstand the fire. This configuration effectively isolates the graphite seal in a dry cavity, preventing it from coming in contact with the media, ensuring a high level of purity for the valuable media.

Zero Contamination stem seal

The Zero Contamination stem seal is suitable for use in flammable applications in the BioPharm, pharmaceutical, and chemical industries. It eliminates a possible source of contamination from the presence of graphite in the stem seal. In this instance, the HermetiX™ stem seal is made solely from FDA approved materials, thus avoiding possible rejection due to batch contamination.



Internal PTFE body seal facing the media, and an external graphite seal to withstand the fire

HermetiX™ fire safe valve series features

- Prevents media contamination from graphite particles
- FDA approved polymer materials
- Ensures uninterrupted production
- Fugitive emission certified to ISO 15848-1
- Fire safe certified to API 607 and ISO 10497
- Cleaned assembled and packed for oxygen service
- Minimizes shutdowns for maintenance up to 500,000 cycles
- Increases site safety
- Self-relieving seats (SRS) as standard
- Habonim design Patent No. D598,988

Three piece
F47G series

Three-piece, tube port
F48G series

Flanged, #150/#300
F31G/F32G series

Flanged, full port #150/#300
F73G/F74G series

Flanged, full port PN16/PN40
F77G/F78G series

HermetiX™ fire safe stem seal holds up in fire test

During the fire test, pressure pushes the valve stem upwards, causing a metal-to-metal seal between the stem fire lip and the valve body. After cooling down, holding the stem aligned becomes crucial in order to allow valve rotation to the open position and a successful final shell test. Traditional graphite based sealing components function only as a base to hold the stem parts aligned. Habonim's unique Zero Contamination stem seal components, allow the stem to stay aligned and operable after cooling, even after the polymer materials have melted. A double body seal set comprised of an internal PTFE body seal facing the media, and an external graphite seal to withstand the fire. In case of fire, the internal PTFE seal will melt allowing the graphite to seal the valve and prevent bursting.

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VALVE ACCESSORIES

Spring Return Handle (SRH)

Fugitive Emission Bonnet

Spring-Loaded Locking Device (LD)

Pneumatic Actuator

Breather Block

IMPACT™ Spring Assist

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