

New Product Announcement

## "HermetiX™" Valves STOP Fugitive Emissions For a Greener World

As world focus turns to preserving our environment, Habonim introduces its new series of ZERO-Stem-LEAK\* valves. Based on the HermetiX™ stem seal technology, the new Habonim valves meet strict ISO 15848-1\*\* standards for fugitive emissions.

### Advantages and Selling points:

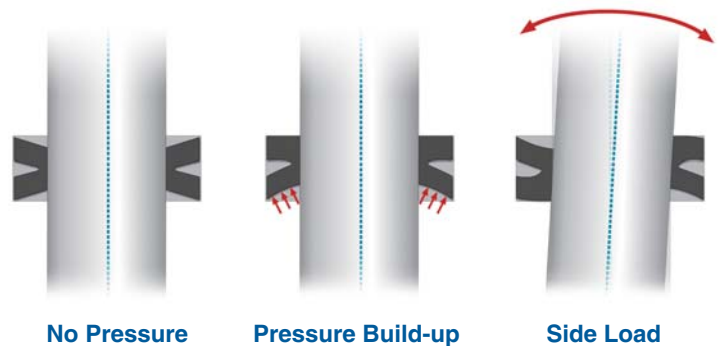
- Environment - friendly
- Safe - Meets ISO 15848-1\*\* for fugitive emissions (see note)
- Patent - pending Hermetix™ gland packing and seal design technology
- ZERO-Stem-LEAK valves will be Habonim standard, putting Habonim at the industry forefront in saving our environment
- Anti-static as standard ( the letter "A" will not appear in the valve description, as it is a default )
- **4-Year guarantee on stem leakage!**



### What is HermetiX™?



Named after its distinctive X-shaped design, the newly patent-pending HermetiX™ seal is designed to provide zero stem leakage. Even as fluid pressure or side load increases the HermetiX™ dynamically adjusts to prevent fugitive emission (see picture).



# HABONIM UPDATE

Zero Stem Leak "HermetiX™" Valves Series

Update 03 / 1.2009

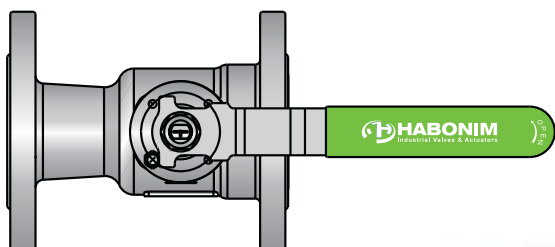
## Other Features of the ZERO-Stem-LEAK Valve:

- As standard, the HermetiX™ seal is comprised of an NRG (carbon-filled PTFE) and carbon-filled PEEK thrust bearing. For FDA and other clean applications (where carbon particles are prohibited), a TFM HermetiX™ gland packing and Virgin PEEK thrust bearing is available.

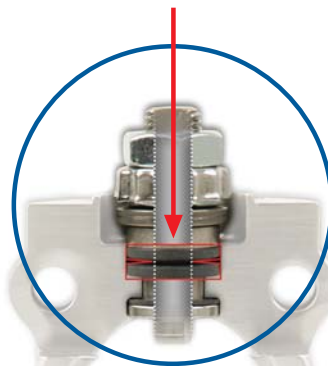
## The following valve families feature the ZERO-Stem-LEAK HermetiX™ technology (NON-FIRE-SAFE versions):

- 47X (3-piece)
- 31X (flanged, reduced port, #150)
- 32X (flanged, reduced port, #300)
- 73X (flanged, full-port, #150)
- 74X (flanged, full-port, #300)
- 77X (DIN, flanged, full-port, PN16)
- 78X (DIN, flanged, full-port, PN40)
- 61X (3-way), 62X (4-way) (multiport)

All Habonim ZERO-Stem-LEAK Valves are fitted with a distinctive Green handle



Habonim  
Zero Stem Leak



Sample of new Zero Stem Leak  
"HermetiX™" Valves Series

# HABONIM UPDATE

## Limitations:

- 48 (TuBore)
- H27 (Requires redesign)
- H24, not applicable
- FIRE-SAFE valves, in development
- Saturated Steam above 7 bar
- Chlorine applications
- Cryogenic ( HermetiX™ included, but not covered by 4-year guarantee)
- Temperature operating range: -29°C to +200°C.

## Ordering Information:

The HermetiX™ designation "X" replaces "P", thus 47X, 31X, 73X for example.

## Availability

All valves designated above will be supplied in the HermetiX™ construction as standard after February 2009.

## Price

The price of the HermetiX™ "X" valve remains the same as the "P"-style price.

## Printed materials available:

- X-Catalog – 6-page brochure introducing the HermetiX™ line. (soon)
- IOM for each valve family (on Habonim website) (soon).



### \* ZERO- STEM- LEAK

The maximum allowable leak rate for a 1/2" bore HermetiX valve meeting ISO 15848, is 10E-6 mg/s/m (at ambient temperature and pressure). If the valve were to leak in its maximum permitted rates, total leakage would be 5.35 cm<sup>3</sup> of helium in a year!

### \*\* What is ISO 15848-1

Specifies procedures for testing for external leakage of valve stem seals (or shaft) and body joints of isolating valves and control valves intended for application in volatile air pollutants and hazardous fluids. The standard defines a minimum of CO5(5k cycles) performance at extreme temperature changes.

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