



Innovative solutions for a safe and clean environment

Intelligent technical solution for a sustainable future.



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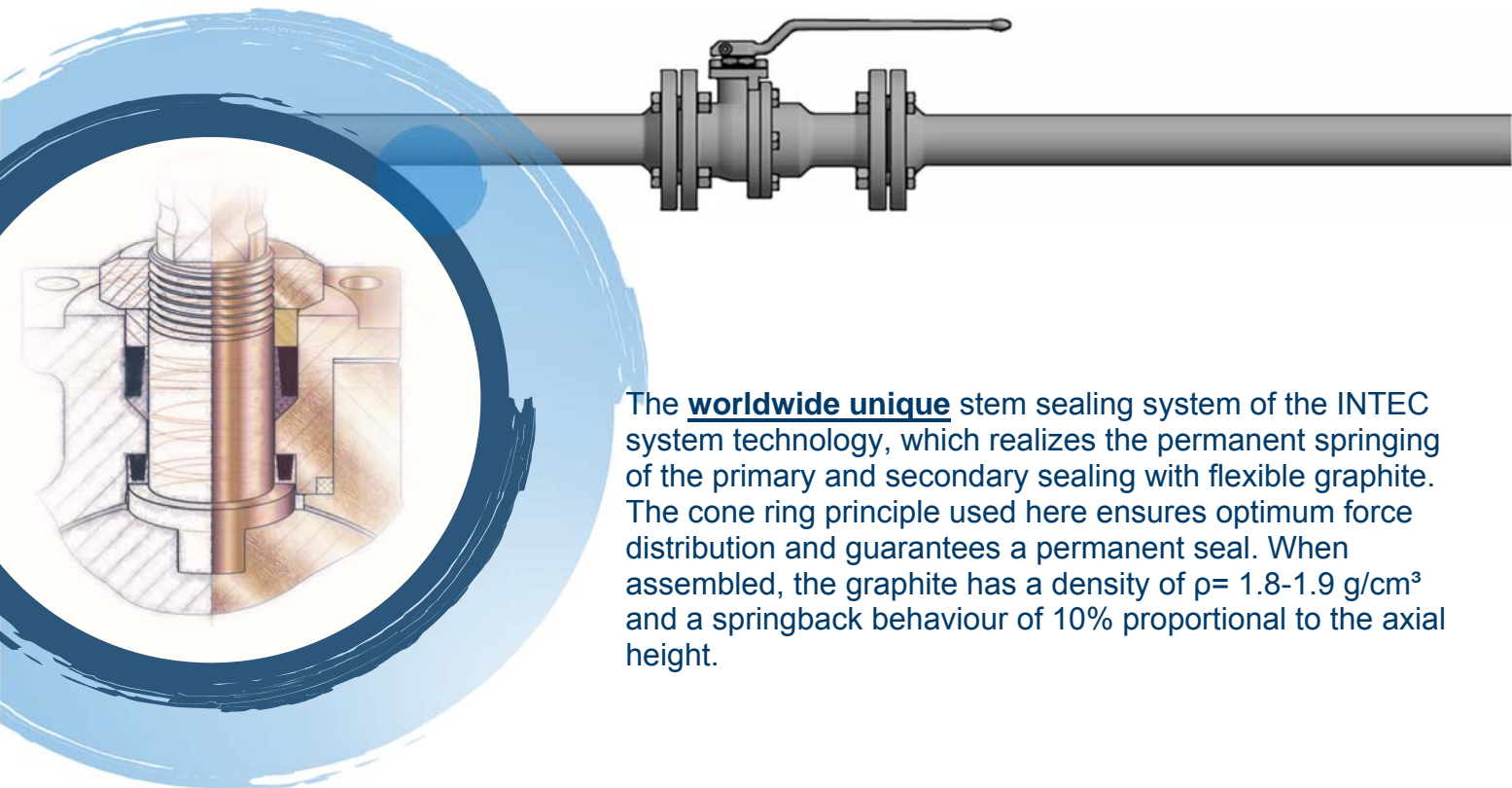
Environmentally hazardous media are not harmless to humans and the environment. For this reason, strict regulations apply to process plants in the chemical industry and the valve components used must meet high requirements for technical tightness. Gases or liquids must never escape uncontrolled.

The specific requirements of the chemical industry are characterised by the high variety of media, the pressures to be controlled (vacuum to high pressure) and the very different temperature levels (cryogenic to high temperature).

These requirements make the chemical industry probably the most demanding user sector for industrial valves.

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The **worldwide unique** stem sealing system of the INTEC system technology, which realizes the permanent springing of the primary and secondary sealing with flexible graphite. The cone ring principle used here ensures optimum force distribution and guarantees a permanent seal. When assembled, the graphite has a density of $\rho = 1.8-1.9 \text{ g/cm}^3$ and a springback behaviour of 10% proportional to the axial height.

- » No use of O-rings, therefore universally applicable.
- » No use of disc springs, therefore no loss of elasticity or risk of breakage.
- » Constructive structure excludes any contact of the medium with graphite.
- » Sealing system absolutely resistant to aging and temperature resistant up to 225°C.
- » TÜV-certified with 100,000 switching cycles, from 0 bar to 40 bar and -40°C to +225°C.
- » Tightness $< 1 \times 10^{-6} \text{ mbar} \cdot \text{l}/\text{sec.}$ with 99.996 pure helium (He) over the entire life cycle.
- » Adjustable even with mounted actuator.

Smart safety and protection for human and environment without compromise!

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