

Achieve Exceptional Stem Sealing for Your Control Valves with Fisher™ Enhanced ENVIRO-SEAL™ Valve Packing Systems



FISHER™

Reduce environmental impact and extend the service life of your control valves.

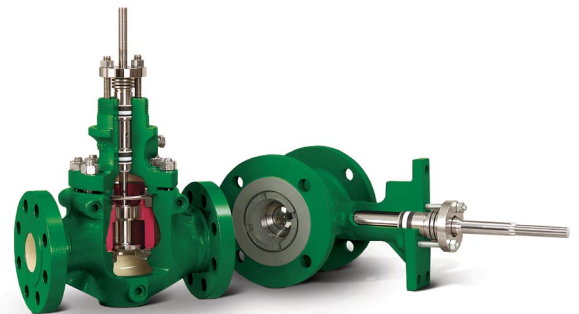
Leakage can lead to negative environmental effects.

Valves account for about 60% of the fugitive emissions in a plant and nearly half of those emissions comes from the valve stem. Control valve packing systems help seal your process to conserve valuable process fluid. Selecting the right packing system for the application means being able to maintain the required sealing over longer periods.

In environmental applications, packing systems must provide stringent fugitive emissions control. Advanced arrangements are needed to achieve an emission rate less than 50 ppmv, while handling higher process temperatures and pressures.

An advanced packing solution with an improved seal.

Fisher enhanced ENVIRO-SEAL packing systems offer exceptional stem sealing capabilities and protect the environment against the emission of hazardous or polluting fluids to avoid regulatory fines and help keep personnel safe. The long life and reliability of these systems also reduce your maintenance costs and downtime. They easily install in your existing control valves or can be purchased with new control valves. Enhanced ENVIRO-SEAL packing systems can keep emission concentrations below 100 ppmv, 50 ppmv, or as low as 1 ppmv. ISO 15848-1 methane and helium test protocols are used by Emerson to verify emissions performance.



Fisher enhanced ENVIRO-SEAL packing systems are available for globe and rotary control valves


EMERSON™

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Enhanced ENVIRO-SEAL packing systems are available for a wide range of pressure and temperature conditions in environmental and non-environmental applications.



1. Managed Stress Level

Live-load Belleville springs maintain a constant pressure over the life of the packing rings.

2. Aligned Properly

Lined packing followers ensure that the control valve stem or shaft is held precisely in the center of the packing.

3. Optimized Amount of Packing

The system uses just the right amount of packing depth for the stem or shaft diameter.

4. Packing Containment

Anti-extrusion rings keep the packing from extruding when it deforms to fill the space between the stem and bore.

Additional Product Benefits

- **Certifications:** Enhanced ENVIRO-SEAL packing systems have been tested and certified to these international standards: ISO 15848-1, ANSI/FCI 91-1, Shell MESC SPE 77/300, and TA-Luft.
- **Extended Warranty:** Emerson offers an optional extended enhanced ENVIRO-SEAL warranty for customers required by the EPA (Environmental Protection Agency) to implement an Enhanced LDAR Program (ELP) and limit emissions to 100 ppmv.





Learn More

- **Enhanced ENVIRO-SEAL Product Webpage**
- **Packing Selection Guidelines for Fisher Rotary Valves**
- **Packing Selection Guidelines for Fisher Sliding-Stem Valves**
- **Find an Emerson sales office near you**



*Pictured from left to right:
Fisher Enhanced ENVIRO-SEAL PTFE, ENVIRO-SEAL Graphite ULF, ENVIRO-SEAL Duplex*

Emerson
Marshalltown, Iowa, 50158 USA
Sorocaba, 18087 Brazil
Cernay, 68700 France
Dubai, United Arab Emirates
Singapore 128461 Singapore

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