

# CPI's EMISSIONGUARD™ TR<sup>2</sup> Low Emission Packing Rings – Total Estimated Gas Savings to date

## Total Gas Savings

Since the launch of CPI's revolutionary EMISSIONGUARD™ TR<sup>2</sup> Low Emission Packing Rings, we have made a significant impact in reducing reciprocating compressor packing emissions.

Our innovative solution has prevented an estimated **693 million scf (20 million Nm<sup>3</sup>)** of gas from leaking through the vents of packing cases in mainly the petrochemical and natural gas compression industry.

This reduction in emissions includes the prevention of **66 thousand US tons (60 thousand metric tons)** of CO<sub>2</sub>, which is equivalent to eliminating **150 million miles (241 million kilometers)** driven by an average gasoline-powered passenger vehicle.

EMISSIONGUARD™ TR<sup>2</sup> rings have been successfully installed across a wide range of gas types, including Hydrogen, Natural Gas, Tail Gas, Fuel Gas, Ethylene, Propane, Propylene, Ethane, Butane, Supercritical CO<sub>2</sub>, and Air.

These installations cover a variety of rod diameters, from as small as 31.75mm (1.25") up to 110mm, with RPMs ranging from 270 to 1200. The rings have been supplied in several CPI material grades, such as CPI 315, CPI 184, CPI 190, CPI 192, and CPI 193, ensuring optimal performance and durability across different applications.

\*Gas savings are based on CPI's proprietary estimated vent line leakage calculation, validated by both laboratory and field results.

\*\*This Application Brief was written in August 2024

