

Three industrial emissions control panels are displayed on stands against a white background with a red horizontal band. The panels are open, revealing internal components like valves, gauges, and piping. The central panel is the largest, flanked by two smaller panels. The stands are made of metal and have square bases.

Cutting-Edge Zero
Emissions Products

ECP

Emissions Control Panels

Capture your fugitive emissions to
safeguard operator and environment



HOERBIGER

Act today for a better tomorrow

Nitrogen purging is an effective way to eliminate uncontrolled gas leaks from compressors. Reducing or preventing hazardous emissions increases your employees' safety on the compressor deck and protects the environment. You can drastically reduce your greenhouse gas emissions when Emissions Control Panels are coupled with a flaring or recovery system. Purge pressure regulation also minimizes nitrogen consumption and thus lowers the total cost of ownership.

A standardized solution

Thanks to the standardization of our Emissions Control Panels product range and a clever modular design, you just need to pick the model that suits you best. There is no need for lengthy technical studies.

Continuous condition monitoring

All of the ECP models allow the installation of continuous monitoring devices, to keep a check on the health status of the main and intermediate packings over time. ECPi, our most advanced solution, is specifically designed to provide you with the most comprehensive set of real-time data, detailing the status of every single packing of your machine. This allows you to switch from preventive maintenance to condition-based maintenance, thereby increasing compressor availability and reducing downtimes.

High quality and certified components

To ensure optimal performance and safety over its entire service life, HOERBIGER has selected premium materials and components from Swagelok® to create a durable Emissions Control Panel portfolio that meets the highest quality standards in the industry. Operating autonomously with no electrical components, the Emissions Control Panels are ATEX registered for use in explosive atmosphere (Zone 2 areas) and API 618 compliant.



Thanks to the provision for digital instruments, we know we can integrate the panel with the plant's Distributed Control System whenever we are ready, so that we don't interfere with our plant outage schedule.

Refinery, Spain



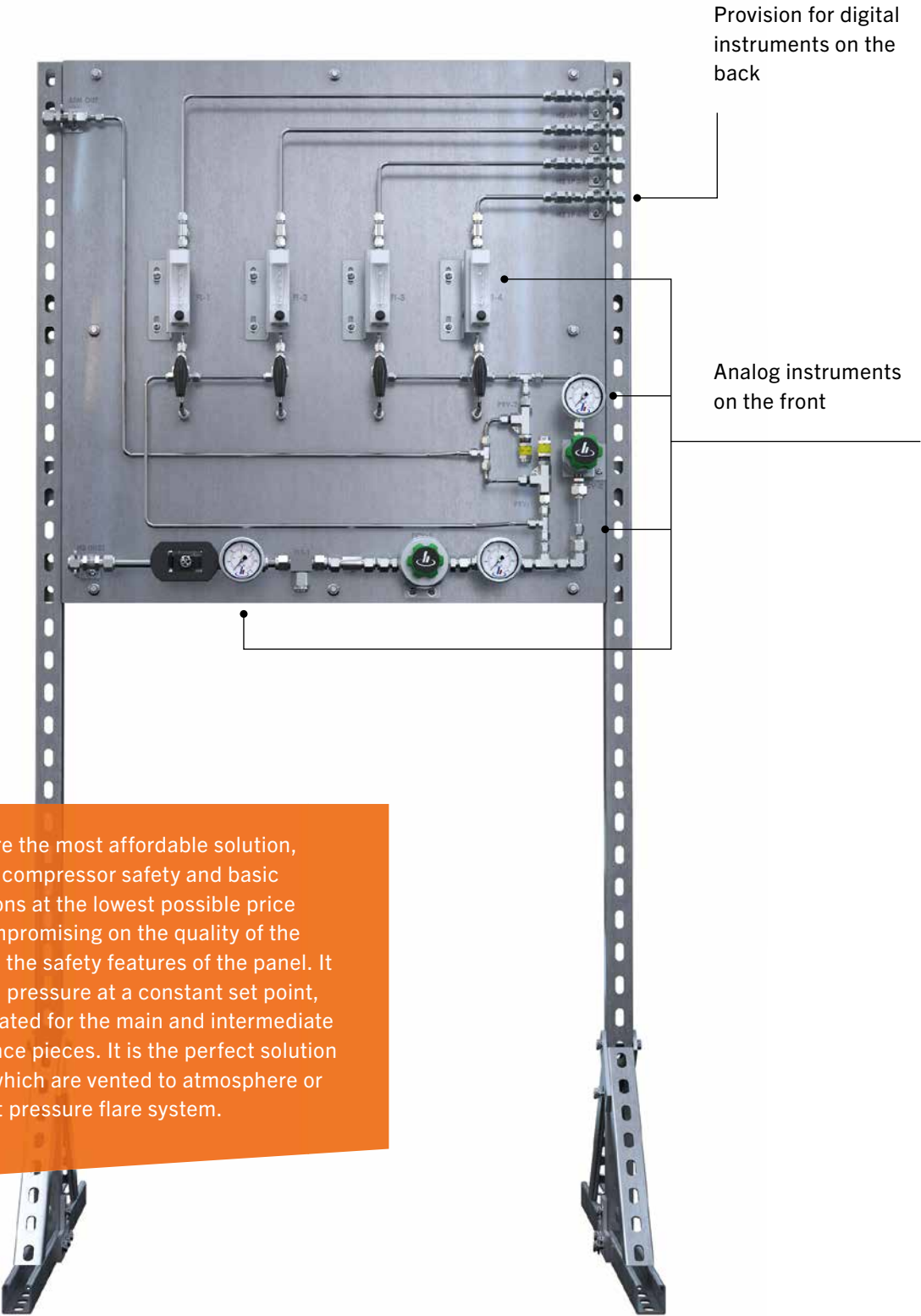
Your benefits at a glance

Features	Advantages	Benefits
The nitrogen barrier routes all packing leakage to the vent line	Safety from uncontrolled gas leaks	No risk to personnel on the compressor deck
	Controlled fugitive emissions	Environmental protection and achievement of the emission targets
Purge pressure control minimizes nitrogen consumption	Reduced nitrogen consumption	Lower total cost of ownership
Two pressure relief valves protect both the packing and the distance piece, even in case of failure	Protection from overpressure	Avoid equipment damage due to failure or wrong regulation
Individual packing monitoring	Single-packing regulation allows monitoring the health status of every packing	Allows higher availability and enables condition-based maintenance
Digitalization and remote monitoring	All panels have provisions to install a variety of digital instruments	Flexible solution that can be extended in the future
The closed version is NACE compliant	The panel can operate with sour gases with no risk of stress corrosion cracking	Higher reliability without costing a fortune
Standardization allows to be flexible without being cheap on components	Top-quality Swagelok® components are used on all products classes	High quality of components



ECPc – Emissions Control Panel Constant Pressure

Open panel



These products are the most affordable solution, which guarantees compressor safety and basic monitoring functions at the lowest possible price point, without compromising on the quality of the components or on the safety features of the panel. It regulates nitrogen pressure at a constant set point, which is differentiated for the main and intermediate packings or distance pieces. It is the perfect solution for compressors which are vented to atmosphere or to a near-constant pressure flare system.

Closed panel

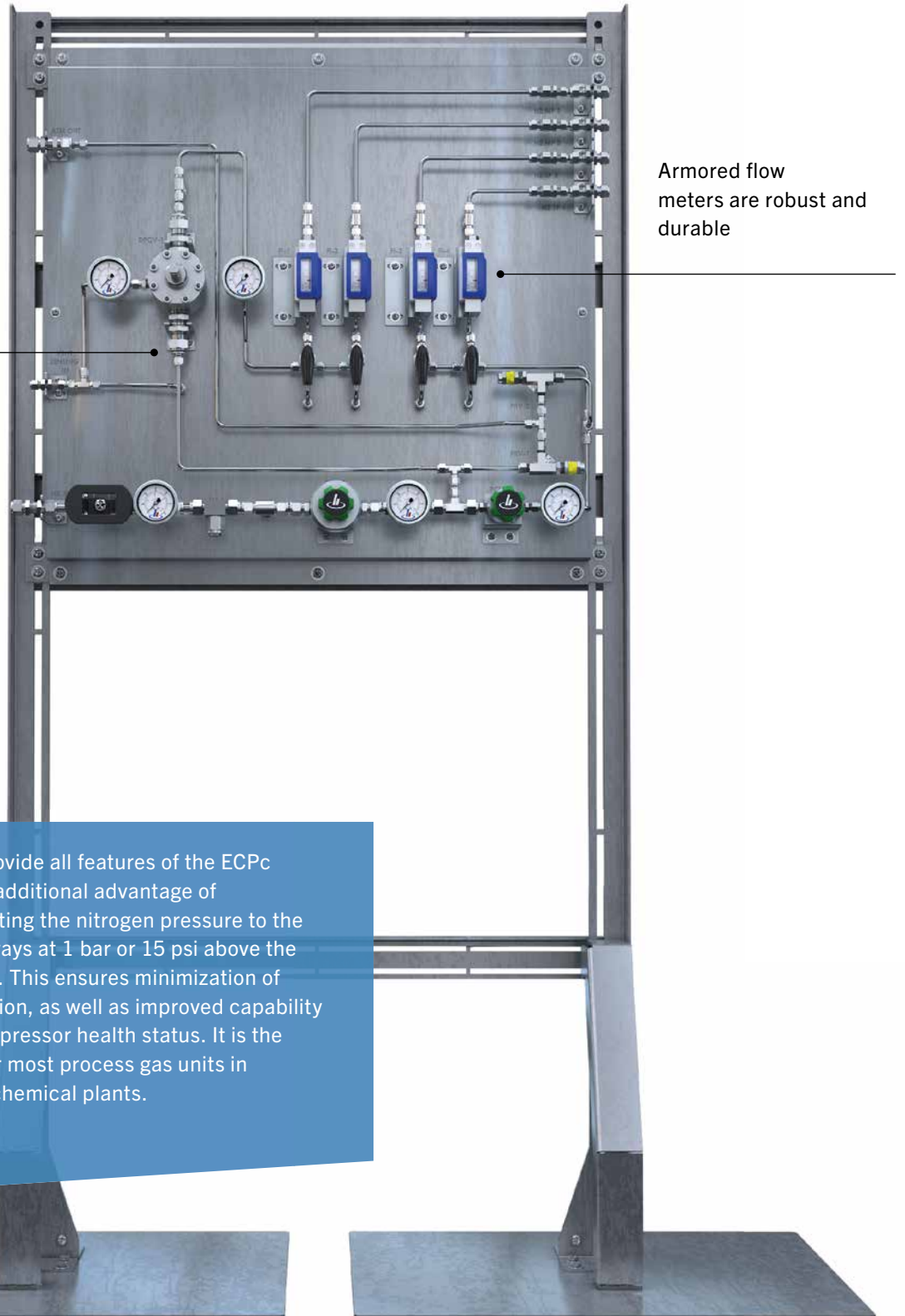


The closed enclosure ensures a higher degree of protection of its internal components, plus it guarantees that no untrained personnel can tamper with the panel regulators or instruments

Frame structure made of slotted beams can be used as a cable conduit

ECPv - Emissions Control Panel Variable Pressure

Open panel



Differential pressure regulator minimizes nitrogen consumption

Armored flow meters are robust and durable

These products provide all features of the ECPc portfolio, with the additional advantage of dynamically regulating the nitrogen pressure to the main packings, always at 1 bar or 15 psi above the flare backpressure. This ensures minimization of nitrogen consumption, as well as improved capability to monitor the compressor health status. It is the perfect solution for most process gas units in refineries or petrochemical plants.

Closed panel

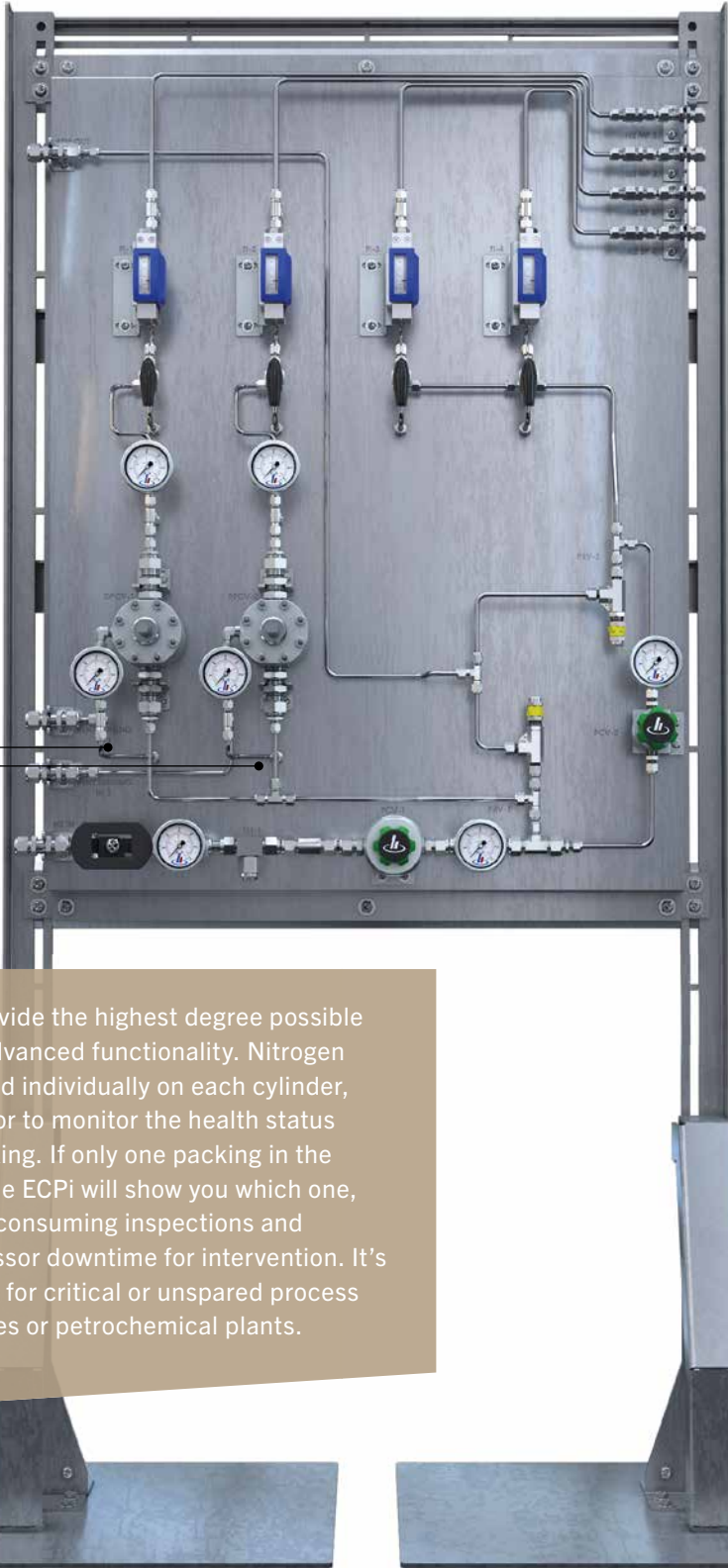


The pneumatic booster relay confines the process gas outside the enclosure

ECPi - Emissions Control Panel Individual Packing Regulation

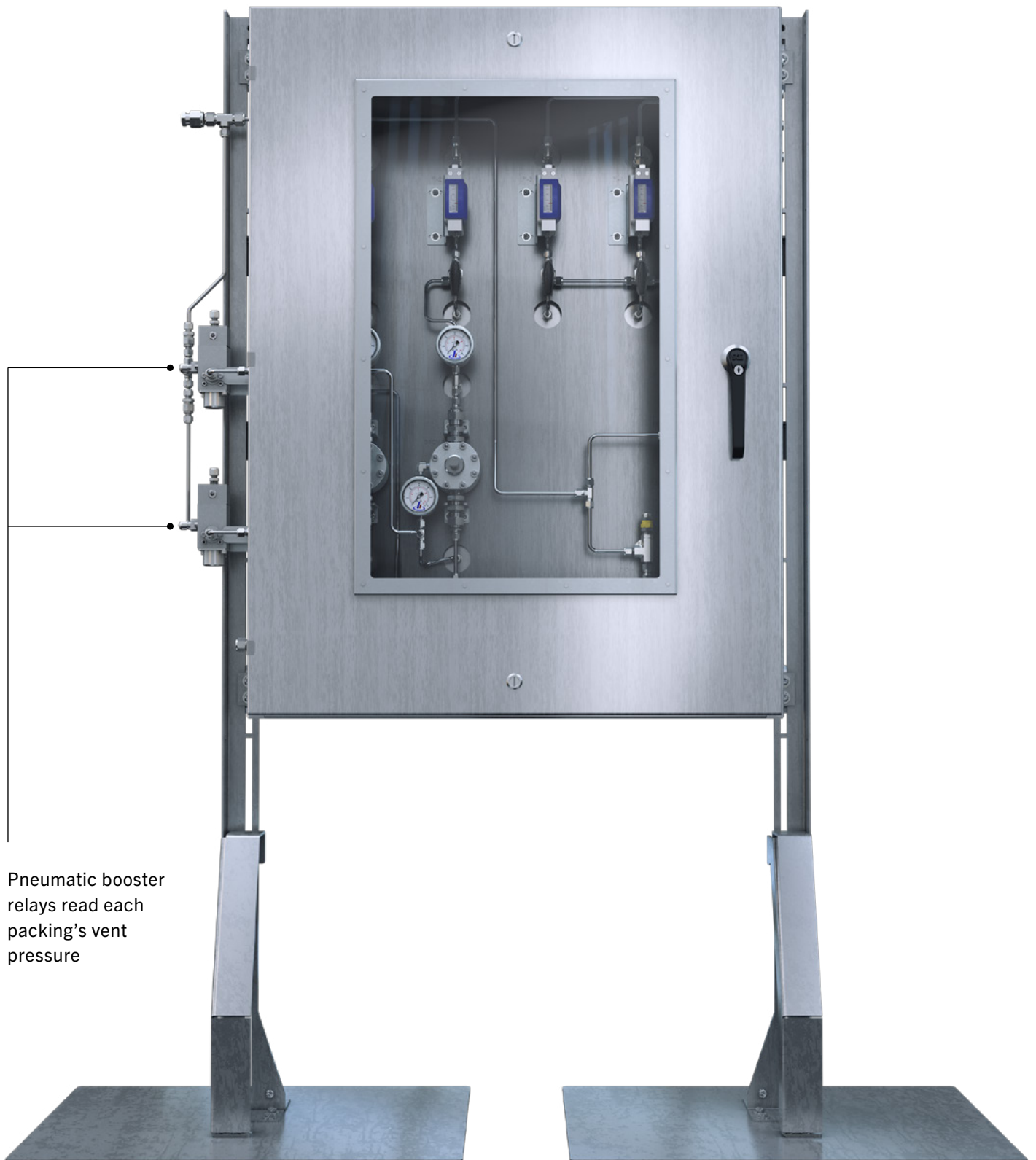
Open panel

Nitrogen pressure
individually regulated on
every packing



These products provide the highest degree possible of regulation and advanced functionality. Nitrogen pressure is regulated individually on each cylinder, allowing the operator to monitor the health status of every single packing. If only one packing in the compressor fails, the ECPI will show you which one, thus avoiding time-consuming inspections and minimizing compressor downtime for intervention. It's the perfect solution for critical or unspared process gas units in refineries or petrochemical plants.

Closed panel



Pneumatic booster
relays read each
packing's vent
pressure

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Emissions Control Panels are fully meeting our expectations. The features and advantages of the different models are very intuitive to understand, so we could easily choose the model that's right for us.

Refinery, France

Selection guide

The perfect options for all your needs

	ECPc		ECPv		ECPi	
	Open	Closed	Open	Closed	Open	Closed
Safety from uncontrolled gas leaks	●	●	●	●		
Reduced nitrogen consumption			●	●		
Individual packing monitoring						
Top-quality Swagelok® components					●	
Full API 618 compliance						●
Provision for digital instruments	●	●	●	●		
ATEX Zone 2 certified				●		
Protection from over-pressurization						
Sour gas compatibility (NACE compliant)	Not applicable	Not applicable				



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Locally close to the customers – globally successful: HOERBIGER is active worldwide in 43 countries on all continents. 6,174 employees at 133 locations – including 30 production plants – deliver reliable solutions for better performance, increased safety, and fewer emissions. In 2023, they generated sales of 1.416 billion euros. For renowned customers from the energy sector, the process industry, the automotive industry, the mechanical engineering industry, safety technology, and the electronics industry, performance-determining products and services from HOERBIGER make the difference. With innovations for decarbonization and energy transition, HOERBIGER is already enabling change today for a better tomorrow. As majority shareholder, the HOERBIGER Foundation preserves the 129-year-old entrepreneurial heritage and guarantees stability, independence, and a future-oriented strategy.

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