

## ANALYSER PIPELINE INSERTION REGULATORS

EnPro Pipeline Insertion Regulators have been developed to provide a regulated sample supply to H<sub>2</sub>S analysers, gravitometers, chromatographs calorimeters, moisture analysers, instrument gas take-offs, and other online analysing equipment.



### WHY TAKE A SAMPLE PRESSURE REDUCTION IN-LINE?

By taking the pressure drop at the tip of the probe, inside the pipe, the Joule-Thompson effect is eliminated or at least minimised. Thus, a dry sample is generated, essential for on-line analysers. Haldatec is able to calculate exit temperatures from insertion regulators as well as dew point curves.

The EnPro automatic insertion, PPAIR is fully adjustable over its entire insertion length. Also available is the fixed insertion length PFIR.

### ADDITIONAL ACCURACY BENEFITS

- 1. A Representative Sample collection point**  
By not taking a sample from the wall of the pipe, the collection of heavy ends that predominate there is avoided. It is recommended that the collection is taken from the centre 1/3 rd of the pipeline where the gas content is most representative.
- 2. Real-Time Collection is minimised.**  
Importantly reducing the pressure at the source of the sample will provide a better real-time sample as the quantity of the gas in the line to the analyser is significantly reduced. Thus, its replacement to the analyser is faster and more accurate.

### CONDITIONING OPTIONS

The tips of the EnPro insertion regulators are available in a variety of forms that can provide filtering and coalescing of the sample gas before pressure reduction.

The picture depicts the thermal exchange fins located at tip of the EnPro regulator. They are designed for high pressure drops.



### ABOUT US

Since 1990, Haldatec has been providing products and services to the Oil, Gas and related industries in Australia, Pakistan, Singapore, Papua New Guinea, India and New Zealand.

### ENPRO

Our house product label, EnPro, has been developed to complement our core business and has been driven by customer needs. Our comprehensive range includes innovative designs, adaptations and applications introduced to solve problems for our customers.

### STANDARDS

To ensure we provide the best possible support for our customers and suppliers, we have certification to ISO9001:2015.