

## PPAIR – PRESSURE ASSISTED INSERTION REGULATOR

EnPro PPAIR Pipeline Insertion Regulators have been designed to be fully inserted and retracted from the pipeline using pressure assistance. This enables easy and safe operation and can be carried out by one person without the need for special tools.

The PPAIR provides a regulated sample supply to H<sub>2</sub>S analyzer's, gravimeters, chromatograph's calorimeters, moisture analyzer's, instrument gas take-offs, and other on line analysing equipment.

By taking the pressure drop at the tip of the probe, inside the pipe, the Joule-Thompson effect is minimised or eliminated. Thus a dry sample is generated, essential for on-line analysers. To assist the reduction of forces generating vortex shedding, the helical transition tube acts an aerodynamic stabilizer

The PPAIR is fully adjustable over its entire insertion length. If pipeline pressure source is not available or suitable for insertion assistance, a supplementary gas supply can be used.

Specialty shaft designs to overcome vortex induced vibration are available.



### SPECIFICATIONS

Pressure & temperature rating	1500 ANSI
Outlet Pressure	0-18,000 kPa
Connections	1" MNPT connection standard. 3/4" and 1/2" available. Flanged connection available up to 1500 ANSI in RF, RTJ, etc. Connections Process connection 1/4" FNPT.
Insertion length	500 mm. then in increments of 250 mm to 2000 mm
Construction & materials	<ul style="list-style-type: none"> <li>▪ 316 stainless steel,</li> <li>▪ Viton elastomers (std)</li> <li>▪ PTFE/PEEK seat.</li> <li>▪ Diaphragm:- large area, moulded Viton with PTFE protector for greater downstream accuracy and prevention of di-urinal effect on moisture analysers</li> <li>▪ Inlet filter 30 microns</li> <li>▪ Bolted bonnet. for ease of assembly and sealing integrity</li> <li>▪ Bubble tight to ANSI/FCI 70-3-2004</li> </ul>
Capacity	Cv: 0.06
Options	<ul style="list-style-type: none"> <li>▪ Silconert treatment (inhibits sulphur and mercury in- gression)</li> <li>▪ Speciality tips for liquids and particulates (pre and post regulation)</li> <li>▪ Large diameter shaft – to suit pipeline conditions.</li> <li>▪ Heated version available</li> </ul>
Weight	(Standard 1" NPT, 500 mm insertion) 7.2 kg

### 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.

**Haldatec**

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