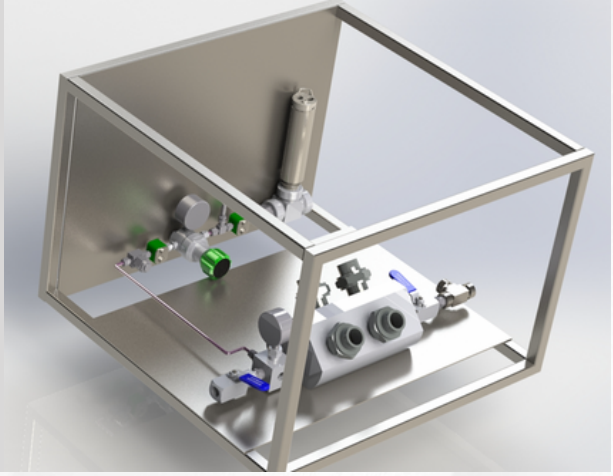
CORINJ
CORROSION & CHEMICAL INJECTION

SIDESTREAM

The new alternative solution

www.corinj.com



OVERVIEW

The CORINJ sidestream system is designed to measure corrosion and chemical efficiency in a continuous way, even when inline monitoring points are not available. The system can be integrated into any system and devices can be serviced quickly and easily without having to conduct live breaking containment retrieval work. The ports are easily serviced with screw-in union fittings. The outlet can be connected back to the process pipework downstream if the pressure is suitable. Alternatively, a pump can be attached to the outlet of the sidestream to ensure that the returned process sample matches the flow rate of the process pipework from which the sample was taken. The unit is mounted in a stainless steel frame, making it easy to install, use and move.

AT A GLANCE

MOUNTING

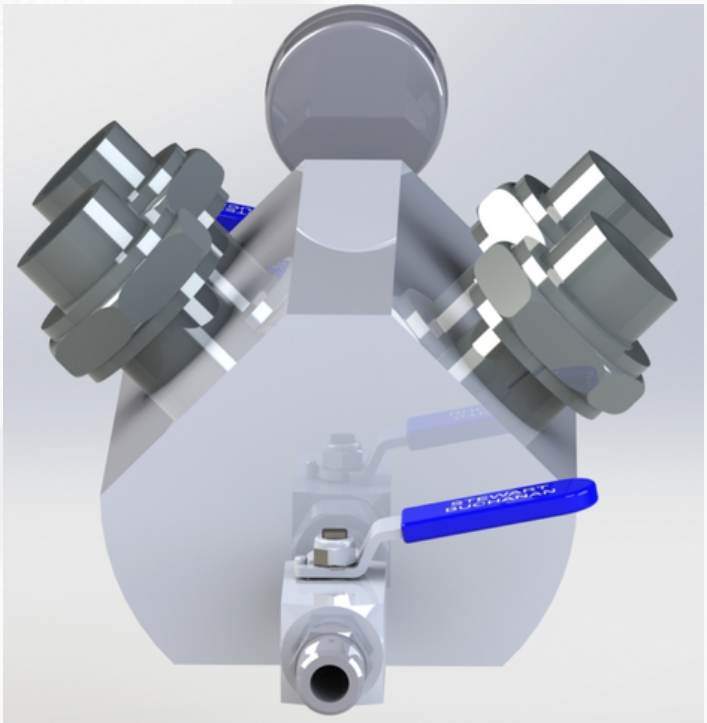
- 0.5" – 1.5" NPT device connections
- 0.5" in/outlets with valves.

PRESSURE RATING

- 3000 PSI
- 6000 PSI

MONITORING OPTIONS

The sidestream has various options, you can choose from 2 to 10 monitoring points that include different types of probes and corrosion coupons. You can also opt for the sidestream diverter system that has the online H2S monitoring feature. Additionally to monitoring corrosion and chemical efficiency the sidestream will also provide you with real time pressure and temperature readings for the duration of your sampling task.



ASSEMBLY

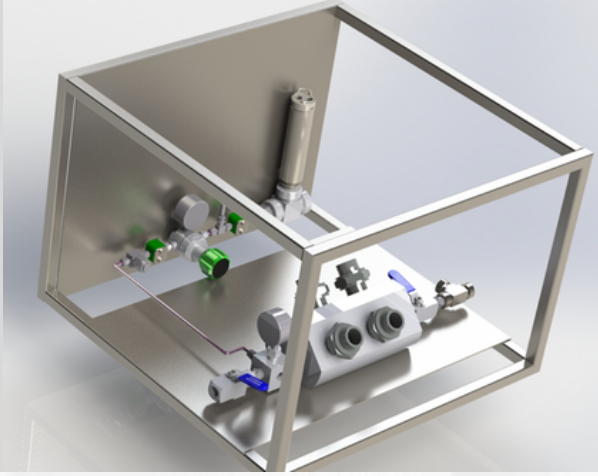
The unit's main block has different ports for various types of monitoring. The ports have NPT union fittings, which let you screw in and seal the devices. When the devices are removed, you can loosen the union fittings and remove the device and the top part of the union without breaking the sealed NPT connection.

CORROSION & CHEMICAL INJECTION

SIDESTREAM

The new alternative solution

www.corinj.com

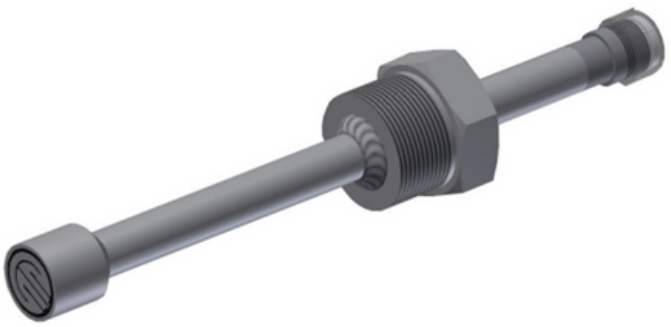


H2S MONITORING

The CORINJ sidestream is the first of its kind to offer continuous 'real-time' H2S monitoring through a side-stream unit. If you want to monitor suspect, or known H2S issues this side-stream is ideal as it can be tied into the exact point on a specific system or wells. The H2S system is able to transmit data in real time via 4-20 mA analogue, RS-232 digital signal, with an option for cellular connectivity to web data cloud service. This saves operator time and removes the safety issue from operators taking regular H2S samples from the affected systems. In addition to transmitting cloud data and powering the sensor, the cellular Box also acts as a gateway for easy SCADA/PLC integration using 4-20mA connectivity, and the device can also be powered by a DC power input or batteries.

ER PROBES

ER probes are used to provide live corrosion rate readings or to gather and store data of corrosion rates and metal loss. The probes can collate data via logging equipment or can be connected to a transmitter which feeds back to the client DCS to provide live data feedback.



CORROSION COUPONS

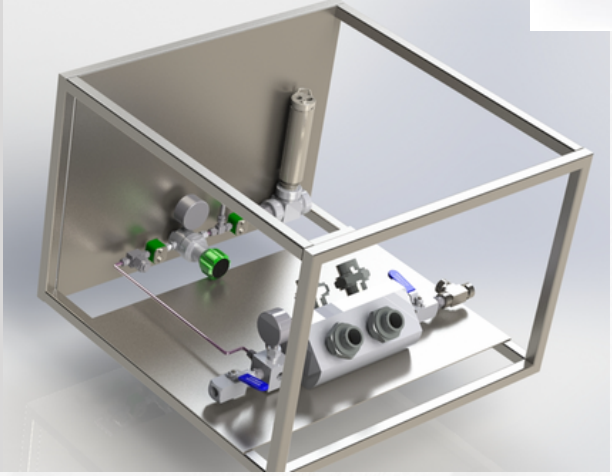
The corrosion coupons are aligned with the inner wall of the sidestream. They measure corrosion rates and pit depths by metal loss over a known time period. The corrosion coupons can be made of any material to match the pipe specification of the system and accurately monitor corrosion and pitting rates. Corrosion coupons are an effective way of visually demonstrating the cause of any corrosion/erosion within the system.

COR | INJ
CORROSION & CHEMICAL INJECTION

SIDESTREAM

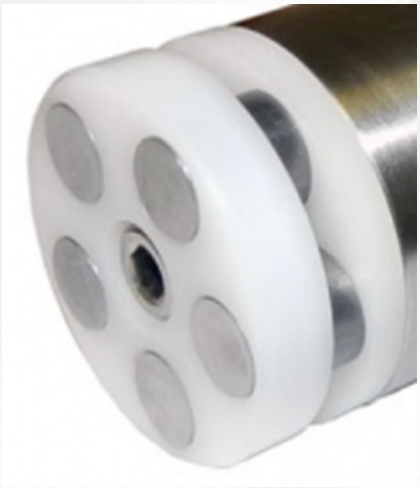
The new alternative solution

www.corinj.com



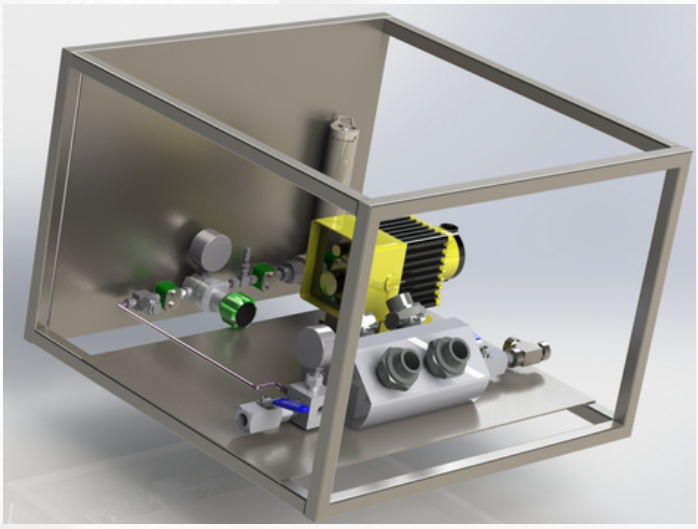
BIO PROBES

Bio Probes are used to obtain direct sessile samples of bacterial growth in oil and gas production systems. Sessile bacteria attached to the bio studs can be collected and analysed to check the efficiency of the chemical injection systems or biocide regimes. Often planktonic samples cannot give a full overview of the effectiveness of chemical injection systems when trying to reduce corrosion and pitting rates, for this reason an effective bio-probe sampling regime is an important option for monitoring.



CONTINUOUS FLOW

This is key to a sidestream working effectively. The outlet of the side-stream is usually routed back downstream in the system where the pressure is lower, so the flow is continuous. However, sometimes this is not possible. Our units can be easily modified with built-in pumps that are set to the same flow rates as the line/system. That way, the sidestream will have comparable parameters as the system being monitored and will ensure the data collated is accurate and comparable to the system itself.



The CORINJ sidestream is custom built based on customer requirements and specifications. Contact us today at sales@corinj.com for more information.

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

ON-SITE ASSESSED · SEQual sequal.co.uk