

ProMix Bench SS-130/150

PROMIX BENCH SS-130/150

Portable ProMix Sample Receiver Mixing Bench

The ProMix bench is industry proven with over 60 benches in use in the North Sea and has been approved for use by numerous pipeline committees.

Features:

- Samples are homogenised and sub sampled at process pressure
- Repeatable sub samples with no loss of light ends
- Sub samples can be withdrawn directly into a pressurised syringe or through a valve
- Simple to operate, clean and maintain
- Compact ergonomic design
- Complies with IP386, ISO 3171 and British Petroleum's homogenisation standard

For allocation transfer purposes, water in oil analysis is a very critical parameter to be measured. The Proserv ProMix bench SS-130/150 is designed for mixing/homogenising hydrocarbon samples prior to analysis e.g. water in oil. A sample taken at any sample point into a ProMix 1 litre or 4 litre lightweight sampling cylinder may be stored, or brought directly to the laboratory for immediate homogenising and analysis. The system allows the contents of the sample cylinder to be mixed at the sample collection line pressure thus ensuring analysis sub sample representivity and retention of light ends.

After the mixing process has taken place, a small sub sample can be taken out for analysis using the Proserv high pressure ProSyringe and injected directly into the analyser apparatus without further mixing in a laboratory mixer. This method offers a significant number of time saving factors and elimination of possible uncertainty other laboratory mixing techniques could create. The ProMix system ensures the high degree of repeatability required for Karl Fischer analysis and complies with the Institute of Petroleum Standard - IP386, British Petroleum's homogenisation standard and the ISO standard 3171 for pipeline samples.



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continued

High pressure ProSyringe

The ProSyringe is a high pressure sampling syringe manufactured from stainless steel. Capacity 0 to 1 cc with bleed port facility. Robust design complete with safety stop to prevent plunger blowout. Fitted with twist type on/off valve and a 45° bevel needle. M.A.W.P 3000 psi @ ambient temperatures.

System description

A full 1 litre or 4 litre ProMix constant pressure sample cylinder is placed vertically onto the bench and connected to the ProMix system. An inert gas supply is connected to the pre-charge side of the receiver thus maintaining the sample above process pressure during the mixing process. During mixing, the sample is circulated from the cylinder through an external loop and back into the cylinder by use of an air driven pump. The homogenising process takes place when the sample flows through a nozzle located in the cylinder end cap. The fluid is forced through the small orifice of the nozzle and back into the cylinder as an extreme high velocity jet. Present water is crushed into small droplets which are then evenly distributed in the sample inside the cylinder. The pulsating jetting effect from the nozzle also introduces a stirring motion within the fluid and in this way counteracts any tendency toward gravitational separation inside the cylinder.



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ingenious simplicity

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