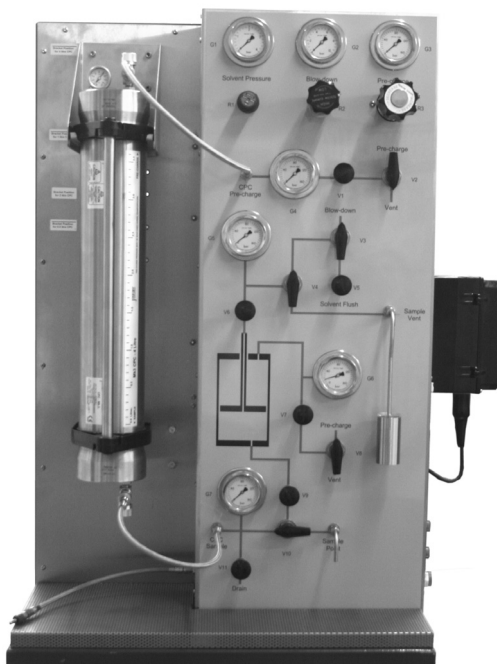




ShearMix

Sample Receiver Mixing Station



The Jiskoot ShearMix is designed to homogenise the contents of a constant pressure sample receiver at the sample collection line pressure to ensure analysis sub-sample representivity and retention of 'light-ends'.

The ShearMix is the only integrated mixing system that uses laboratory mixing techniques to homogenise liquid hydrocarbon samples with the repeatability required for Karl Fischer analysis. It complies with the requirements of IP386 (and equivalent standards) and will mix water and 'light' hydrocarbons of viscosities ranging from 0.5 to 200cSt (i.e. light crude oils to condensates). The ShearMix can be used with Jiskoot CPC sample receivers or those from other vendors with suitable fittings. Sub-samples can be withdrawn from the system for analysis through a valve or using a pressurised syringe.*

The ShearMix system offers significantly better sample homogenisation than that provided by internal mixing balls or baffles. The system can be used with all types of constant pressure receiver from 0.5 to 4 litres

Features

- Samples are homogenised at process pressure ensuring representivity and no loss of light ends
- ShearMix can be used with most constant pressure sample receivers
- Top and bottom samples can be drawn to validate the mixing process at any time
- ShearMix uses the same technique as laboratories for sample homogenisation
- Samples can be withdrawn directly into a pressurised syringe or through a valve*
- Easy to flush, drain and keep clean
- Simple to operate, repair and overhaul
- Compact
- Complies with IP384 and the ISO 3171, IP 6.2 & API 8.2 sampling standards (when operated within specification as part of a compliant sampling system)

Data Sheet SI20-0504-2 • ShearMix

* Alternate hoses and fittings may be required, please contact Jiskoot for details

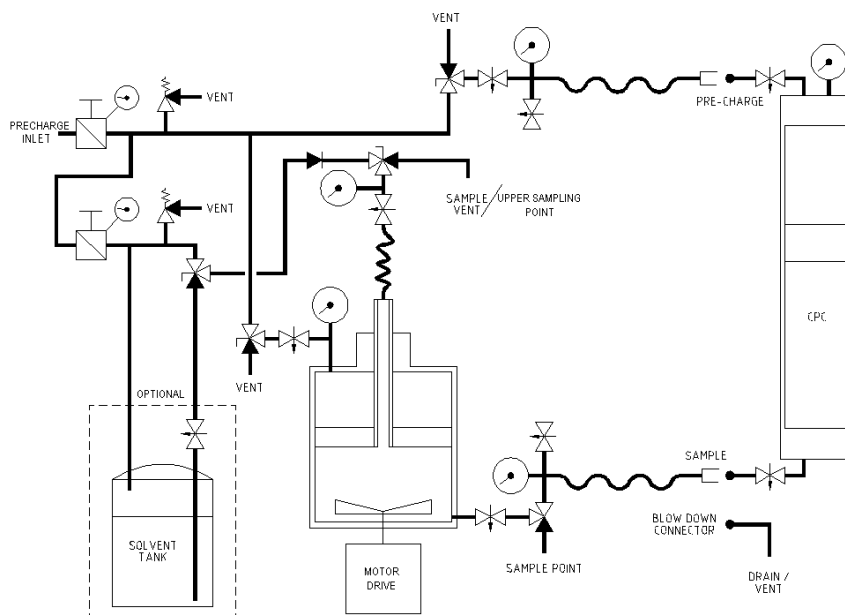


System operation

A full constant pressure sample receiver (CPC) is placed vertically in the system and connected to the ShearMix. The receiver contents are under process pressure. An inert gas supply is connected to the pre-charge side of the receiver. The interconnection valves are opened and the fluid flows into the mixing vessel until the pressure rises in the gas buffer to match that in the receiver. This maintains the sample under process pressure. The inert gas pre-charge pressure is increased to ensure the contents of the receiver are all displaced into the mixing vessel.

When the discharge is complete the valve on the receiver is closed and any free gas below the piston can be vented. Mixing is then started for a pre-determined time. At the end of the mixing cycle, a sub-sample can be extracted through a valve or using a pressurised syringe. A fully homogenous sub-sample can also be returned to a smaller sample receiver for retention/storage if required.

Great care has been taken to ensure the mixing vessel



Specification

Liquids	Hydrocarbons (condensate to crude oil)
Max operating pressure	150 bar @ 100°C
Design pressure	150 bar
Process temp range	0 – 40°C
Viscosity range	0.5 – 200cSt
Density range	0.60 – 0.95 g/c
Materials	All wetted materials will be corrosion resistant, normally in (316) stainless steel. Suitable for NACE MR-01-75 applications
Power requirements	Single phase 115/230VAC, 50/60Hz
Dimensions	(WxHxD) 700x550x1100mm
Designed for safe area use	

Options

- PED Certification
- NACE certification
- Solvent purge system
- Pressurised syringe take off



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