Closed Sampling System

CAPABILITY SHEET · NOTHING MAY CHANGE ON THE WAY · A PROBE, A FAST LOOP, A CONDITIONING PANEL, A C

THE ONE IDEA

PRINCIPLE	Nothing may change on the way.
WHY IT MATTERS	A sample can be old, changed or spilt. The system takes it from the live stream, brings it fast and unchanged, and gives the rest back to the process, never to the room.

THE SYSTEM

TAP AND LOOP	A probe and tap in the live stream, and a fast loop with a filter and a flow indicator that returns the unused part to the process.
CONDITIONING	A pressure let-down at the tap, and a panel with a filter, a regulator and a flow meter, heated where the sample must stay above the temperature at which a vapour drops out.
CYLINDER STATION	A closed cylinder station, purged with the stream and filled through closed lines, with a valve at each end.
PURGE AND RETURN	A return to the process, to a return line or to a flare, and never to the room.
INTERLOCK	Three-way valves with interlocked handles, so that the steps can only be taken in order.

THE METHOD

ORDER	Survey, tap, loop, close, interlock and prove. The survey and the proof are the two that a quick job skips.
LIMITS	Pressures, temperatures, flows, times and sizes come from the customer's stream and sampling procedure, and are not printed here.

CONFIGURATIONS

LIQUID STATION	A cylinder station at the line, filled and purged through closed lines.
GAS CONDITIONING	A fast loop and a panel that give an analyser a true gas sample.
MOBILE CART	A cylinder station on wheels, joined to a sampling point by closed hoses.

STANDARDS & SCOPE

STANDARDS	Public reference: ASTM D3700 for obtaining LPG samples using a floating-piston cylinder.
SCOPE BOUNDARY	It is the closed sampling system: not a gas mixing system, not a gas purging system and not an oil purification unit.
STATUS	Neometrix engineers closed sampling systems to order, and no delivered closed sampling system is claimed.

DEFENCE PROGRAMMES DESK

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