



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

SENTRY MCG SAMPLER

Low Emission Samplers

MANUAL SAMPLING

The Sentry® MCG sampler is a closed-loop sampler for sampling gas. Closed-loop cylinder sampling is the safest and most effective way to obtain and transport representative samples of gases without danger to the operator or environment. A continuous flow assures representative sampling.

MODELS

MCG

BENEFITS

By purging the sample path and the sample panel during each sample cycle, the MCG manual low emission sampler assures a representative sample within the cylinder.

Purging the sample panel after the sample is secured provides for maximum operator safety and minimum loss of sample vapors to the environment. Modes of operation include:

Off (insert or remove cylinder): Turn handle to OFF position, blocking both side ports on both three-way valves on the switching valve. No flow through the sampler.

Sample: Turn handle to SAMPLE position. Sample flows through sampler and connected sample cylinder, essentially a purging/filling process.

Isolate: Close cylinder valves to isolate sample in the cylinder. Outlet valve must be closed first if sample needs to be maintained at system pressure.

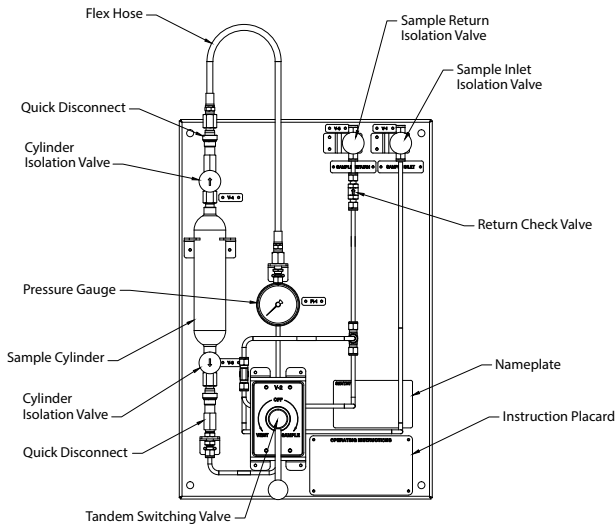
Vent: Turn handle to VENT position to vent all sample gases in the lines on either side of the sample cylinder to a low pressure flare/vent header or vapor recovery device.

FEATURES

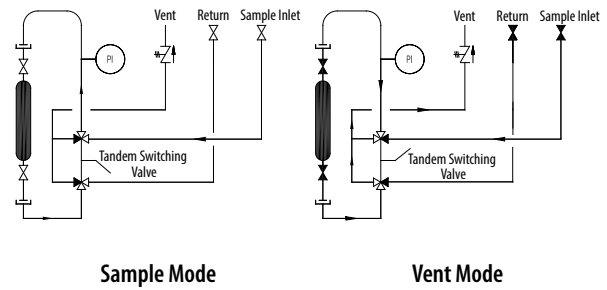
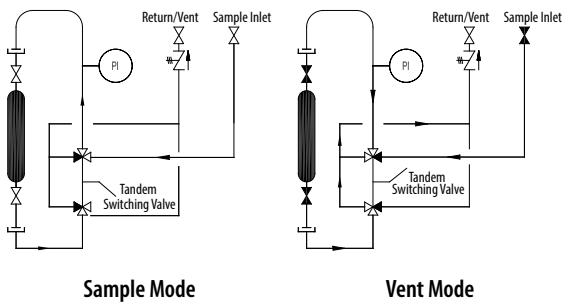
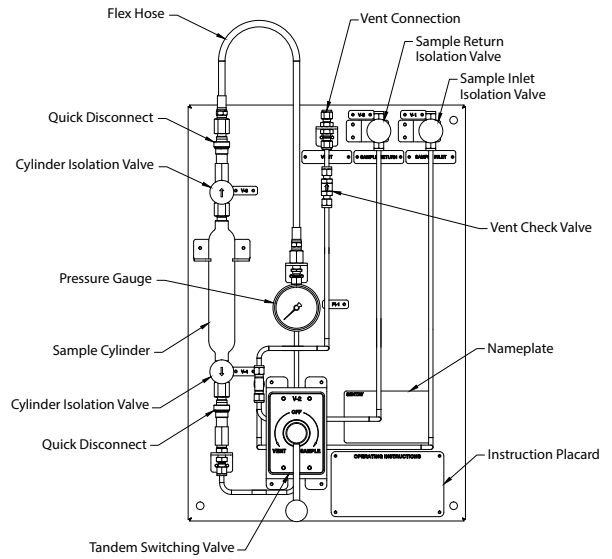
- Tandem switching valve integrates multiple functions into one device
- Ergonomic design reduces turning torque and eliminates repetitive wrist action
- Self-sealing quick disconnects and fittings allow for easy removal and transportation of the sample cylinder and prevent leakage when the cylinder is removed
- All available sample cylinders include shutoff valves and quick disconnects
- Connection sizes range from 1/4 to 1/2 inch (8 to 15 mm) and are compression, socket weld, flanged or NPT
- Variety of configurations to meet any gas sampling need
- Options include sample cooler, in-line filter, cooling water valves, carbon canister, check valves, nitrogen purge, flow indicator, cylinder relief valve, rupture disc, pipe stand, heater, and enclosures



MCG with Sample Inlet and Return/Vent



MCG with Sample Inlet, Sample Return and Dedicated Vent



SPECIFICATIONS

materials	304 stainless steel backplate; 316 or 304 stainless steel cylinders
wetted materials	316 stainless steel, PTFE, Viton®, Kalrez®
standard pressure rating	1800 psi at 100°F (125 bar at 38°C)
standard temperature rating	up to 300°F at 1230 psi (149°C at 85 bar); higher temperatures available



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