Gas
Liquid & Slurry
Solid & Powder
Steam & Water

SENTRY MIL SAMPLER

Low Emission Samplers

MANUAL SAMPLING

The Sentry® MIL manual low emission sampler is ideal for sampling liquids in-line in refining, chemical, petrochemical and nuclear applications without exposure to the operator. The sampler's unique features include a close-coupled ball valve specifically designed to provide low dead volume in the sample flow area, ensuring representative samples from flowing process lines at pressures up to 2200 psig (150 barg). Additionally, the pressure drop of the flowing fluid through the sampler is low, and no valve stems or other components pass through the sampling stream.

For nuclear applications, the Sentry MIL sampler normally is used to collect primary side (RCS) samples for laboratory analysis. However, it also can be used to collect samples on secondary side (PWR) or turbine building side (BWR).

MODEL

MIL

BENEFITS

In-line sampling techniques are most applicable where speed loops or other pressure reduction techniques are not viable.

The Sentry MIL sampler features a patented side-discharge dual needle assembly that ensures septum integrity and full venting of process vapors. This non-coring needle punctures the septum without coring it, allowing for full resealing of the septum when the sample bottle is removed. The tapered bottle shroud enables proper septum and needle alignment, preventing accidental spillage or needle breakage.

A variety of needle arrangements and sample bottle sizes are available to meet most sampling requirements. Additionally, a tube stub option is available for high viscosity fluids or slurries that contain particulates.

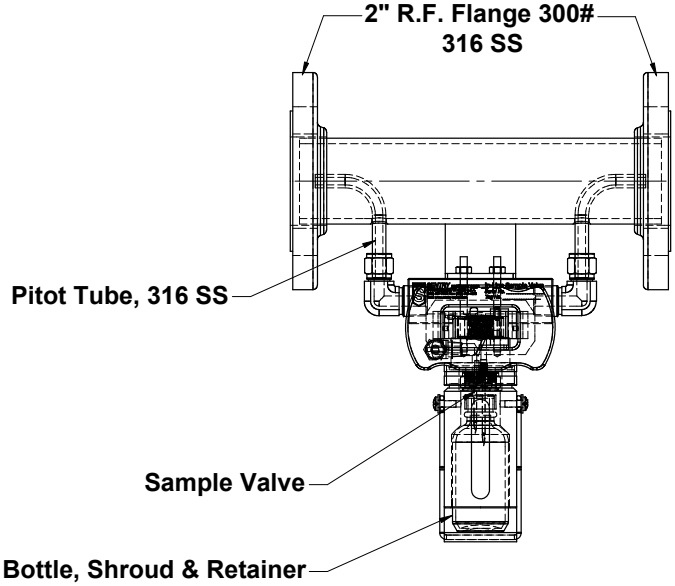
Since operator safety is of the highest concern, the sampling valve interface features an adjustable throttle stop and spring-loaded (dead man's) shut-off handle. This provides proper sample control and quick closure upon release of the sampling valve.

A sample purge connection is an optional feature that allows the user to clear any remaining sample from the unit after sampling. The purge process can be as simple as a check valve and air puff bulb or regulated compressed air/nitrogen.

FEATURES

- Close-coupled sampling valve for high-pressure, low dead volume in-line sampling
- Needle or tube stub configurations offered in a variety of sizes
- Spring-loaded dead man's valve
- Variety of end connections and bottle options available to meet various application needs
- Optional enclosure for complete containment
- Pitot tube design for line sizes 1.5 inches and larger

Sample. Monitor. Measure.
SENTRY
Any Application. Anywhere.



NOTE:
Pitot tube design shown above. Pitot tubes are provided for line sizes 1.5 inches and above.

SPECIFICATIONS

wetted materials	body: 316 stainless steel O-rings: Viton® or Kalrez® ball valve seats: PTFE-Teflon® for non-nuclear use only; PEEK (polyetheretherketone) for nuclear use
bottle shroud	nylon
standard pressure ratings	2200 psi max at 100°F (150 bar at 38°C); 450°F max at 100 psi (232°C at 7 bar) flange end connections have lower ratings; contact us
sample valve	close coupled ball valve with spring return handle and adjustable throttling stop
purge connection	1/8 in compression (shipped with cap)

sampler size

size	connection type
1/4 in (6 mm)	comp
3/8 in (10 mm)	comp
1/2 in (15 mm)	NPT, flange, or comp
3/4 in (20 mm)	flange or comp
1 in (25 mm)	flange or comp
1-1/2 in (38 mm)	flange

sampler interface

needle assembly (OD)*	
process	**vent**
0.065 in	0.065 in
0.065 in	0.083 in
0.083 in	0.083 in
0.110 in	0.083 in
0.083 in	0.110 in
tube stub assembly (OD)	
process	**vent**
0.188 in	0.140 in

*other needle/tube stube arrangements available

bottle size and type

Boston round	Schott
2 oz (60 ml)	50 ml
4 oz (125 ml)	100 ml
8 oz (250 ml)	250 ml
16 oz (500 ml)	500 ml
32 oz (1000 ml)	2000 ml

Boston Round bottle cap/thread interfaces per GPI finish standards. Schott/Duran bottle cap/thread interfaces per ISO 4796.
Standard septum material is Teflon-coated silicone. Other bottle or septum arrangements are available.

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SENTRY

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