

Application Guide

Sentry Manual Gas or Liquid Sampler

Please provide the following information to assist us in the selection of the appropriate sampler for your application. If possible, include a sketch of the installation. Return this form to: sales@sentry-equip.com

Date:		Company:		Contact Name:	
Quote #:		Address:		Phone:	
CustID #:		City/St/ZIP:		Fax:	
		Country:		Email:	

Qty Req'd:		Tag #'s:	
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General Application Parameters:

Sample Chemical Composition:													
If special mixture/composition, please provide the following sample properties (if available) at average temperature:													
Density [lb/ft ³ / kg/m ³]			Specific Heat [BTU/lbm °F / J/kg °C]			Viscosity [cP / cSt]			Thermal Conductivity [BTU/hrft °F / W/m °C]				
Is H ₂ S present? <input type="checkbox"/> No <input type="checkbox"/> Yes			What is the concentration?			Design Pressure [psig/barg]		Oper Pressure [psig/barg]		Design Temp [°F/°C]		Oper Temp [°F/°C]	
Sample Vapor Pressure [psig/barg]			Does sample return to process? (low pressure side) <input type="checkbox"/> Yes ▷ Return pressure [psig/barg]:										
			<input type="checkbox"/> No ▷ Return sample to <input type="checkbox"/> drain <input type="checkbox"/> flare <input type="checkbox"/> other:										
			▷ Vent sample to <input type="checkbox"/> flare <input type="checkbox"/> atmosphere <input type="checkbox"/> drain Max drain/flare pressure [psi/bar]:										
Is sample compatible with Viton® elastomers? <input type="checkbox"/> Yes <input type="checkbox"/> No (standard)						What elastomers have proven satisfactory?							
Kalrez® elastomers? <input type="checkbox"/> Yes <input type="checkbox"/> No													

Sampler Construction:

Can 316 SS be used in sample-wetted contact? <input type="checkbox"/> Yes <input type="checkbox"/> No		▷ Acceptable materials of construction:	
Are Sulfinert® or Silcosteel® coatings (Restek Corporation) required? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<i>Sulfinert coating can be used with high concentrations of H₂S. (Consult factory for PPM.)</i>			
Sample collection container: <input type="checkbox"/> Cylinder <input type="checkbox"/> Bottle <input type="checkbox"/> Other		Sample volume desired [cc]:	
<i>(Note: Vapor samples can only be taken in a cylinder.)</i>			
Is NACE MR0103 (standard) required? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<i>(Note: NACE MR0175 does not apply to Sentry sample panels.)</i>			

Installation:

Location: <input type="checkbox"/> Inside <input type="checkbox"/> Outside		Enclosure required? <input type="checkbox"/> Yes <input type="checkbox"/> No		Heater required in enclosure? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Does sample need to be cooled? <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooling media:			
		Cooling Media Temp [°F/°C]:			
Pipe stand required? <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> 304 SS <input type="checkbox"/> Galvanized Carbon Steel		Charcoal canister required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
				<i>(used when sample has nowhere to vent)</i>	

Application Specifications Sentry Manual Gas or Liquid Sampler

Section 1: Liquids

Viscosity [cP/cSt] at:		Does liquid freeze above ambient temp? <input type="checkbox"/> Yes > At what temp? [°F/°C] _____	
Oper Temp	Ambient Temp	<input type="checkbox"/> No	
		Percent solids: _____	Composition of solids: _____
		Particle size: _____	Are solids abrasive? <input type="checkbox"/> Yes <input type="checkbox"/> No

Section 2: Gases

Are particulates in gas sample stream? <input type="checkbox"/> Yes > What size? _____ <input type="checkbox"/> No	Is gas toxic and/or corrosive? <input type="checkbox"/> Yes <input type="checkbox"/> No
Any condensables in gas sample stream? <input type="checkbox"/> Yes > At what temp? [°F/°C] _____	

Notes: