

VSS VAPOR (GAS) SAMPLING SYSTEMS



The SENSOR Cylinder Sampling Systems allow collection of samples from gas and light liquid hydrocarbon applications in a manner that is safe to both the operator and the environment. The sampling process is emissions-free, with no spills and zero Volatile Organic Compounds (VOC) emissions, while keeping

sample contamination levels to a minimum.

The Liquefied Gas Sampling System (LGSS) allows an operator to visually verify cylinder outage and maximum fill density through our innovative sight glass system, ensuring compliance with regulatory requirement U.S. CFR49.

The Vapor Sampling System (VSS) has many of the same benefits of the

LGSS, but allows for the safe and representative sampling of non-liquid gaseous samples. On the VSS, the sight glass is eliminated and the flow is reversed to ensure no condensate is left in the cylinder while sampling.

Features and Benefits

- Cylinder "saddles" to correctly position and secure sample cylinder
- Robust double-ended shutoff quickconnect fittings (QC's)
- Ability to depressurize QC's before removing cylinder from sample panel
- Single handle operation
- Flush entire system before taking new sample
- Panel mounted pressure gauge
- · Operation & Installation Manual included





Standard Equipment

Mounting Plate Stainless Steel (SS)

Sight Flow Indicator 600# ANSI with flow indicator

Quick Connect Fittings Stainless Steel, double-ended shutoff

Cylinder Saddles 2 each, PVC

Tubing 1/4" Stainless Steel

Optional Sample Cylinder Stainless Steel; includes cylinder valves

Operation/Instruction

Tags Included as standard on plate

Operating Pressure 1440 psig; 2000 psig max @ 70°F

Operating Temperature 350°F maximum

Materials of Construction

Sample Loop 316SS Sample Valve 316LSS

O-Ring Material Viton standard; optional Kalrez

Seal Material Teflon

Optional Equipment

System Purge Includes check valve, regulator, rotameter, pressure gauge, and block valve

Emissions Filter Canister with activated carbon for use when no vent to flare is available;

also available with indication crystals which change color to indicate

saturated absorbent media

Isolation Valves Isolation valves on sample inlet & outlet to allow for easy serviceability

Sample Coolers For use when process temperature exceeds 135°F

Enclosures Enclosures, available insulated and uninsulated and with steam or

electric heater elements

Mounting 2" X 60" pipe stand; galvanized

Armored Rotameter Sized for flow rate provided on Application Data Sheet

Sample Cylinder Stainless Steel; includes cylinder valves and quick connect fittings

Sample Cylinder

Accessories

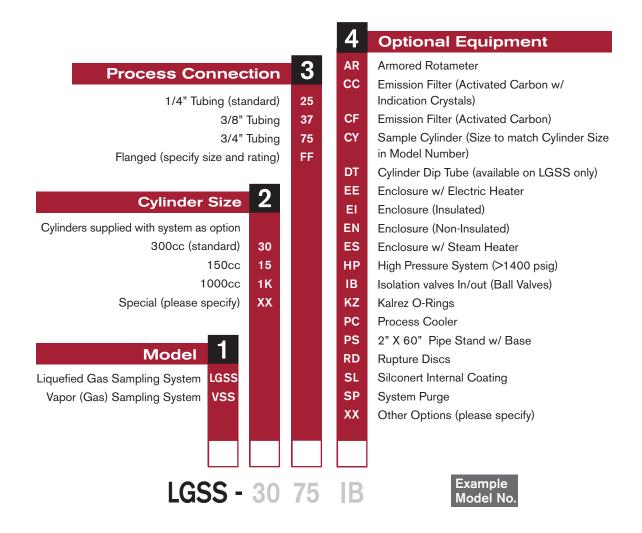
Dip tubes; rupture discs, coatings

High Pressure System Includes reflex sight glass and extended operator handle



Below is the quick select model number tree that provides you with all the options to configure and order a sampling system for your application.

- You must select a designator for each component
- · You must supply a completed application data sheet

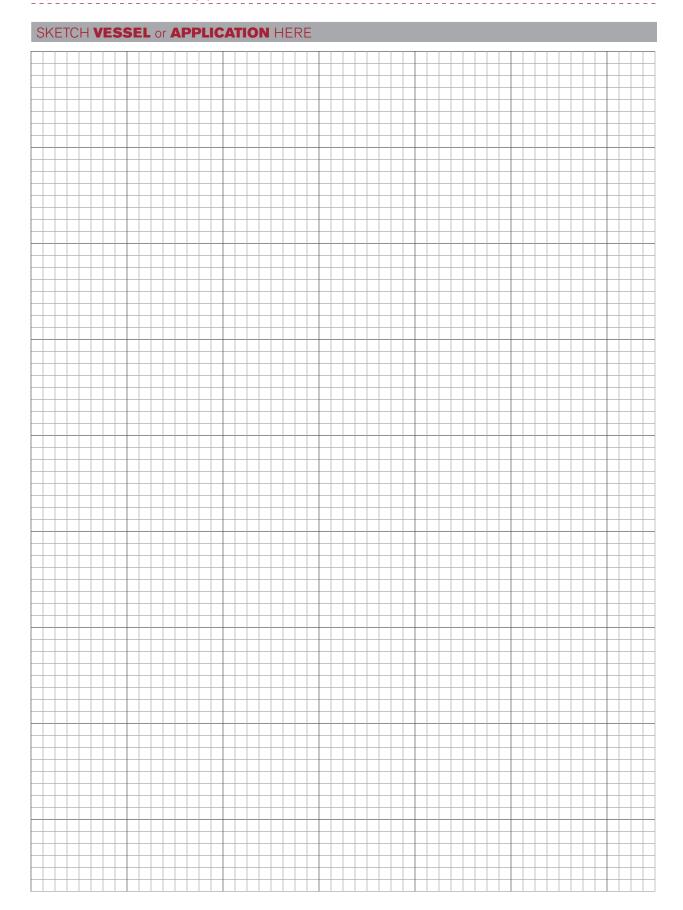


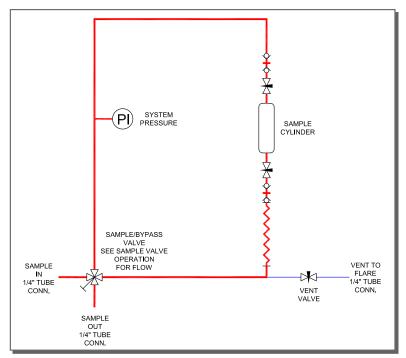


Dat	۵		7		
Name		Phone			
1 3			Email		
PROCESS DATA					
		S O Liquid	Vapor Pressure (at samp	oling temp)	
	Tag Numbers				
	*Pressure Inlet				
	*Fast Loop Outlet Pressure		O With Process Return O Without Process Return		
	Viscosity (CP) at Sampling Temperature				
	*Temperature		Temperatures over 135 ° F,	Process Cooling is rec	ommended
	Particles in Sample O Yes	O No	Micron Size/_	(%) if >100 micron y-s	trainer recommended
MATERIALS OF CONSTRUCTION					
	*Wetted Parts O 316SS (std.)	O Monel 400	O Hastelloy C276	O Other	*specify
	*O-Ring Material (Elastomer)	O Viton (std.)	O Kalrez (recommende	ed in H2S service)	
	O Other		*specify		
	*Valve Packing Material	O Teflon (std.)	O Graphoil (Hi. Tem	р)	
CONNECTION AND MOUNTING					
	*Sample Inlet/Outlet Connection Size (1/4" Tube Standard)				
	*Sample Inlet/Outlet Connection Type (specify Tube, NPT, Flange)				
	*Flare Vent Pressure Type	O Flare O (Carbon Canister O C	Other	*specify
SAMPLE CONTAINER					
	Size Sample Container O 300c	c O 5	00cc Othe	er	specify
	*Cylinder Quick Connect Part Number Brand/PN#				
	*Cylinder Accessories O Dip To	ube OR	upture Disc O Spri	ng Relief	
	*Cylinder O Supp		Customer supplied		
OPTIONS (please check if needed)					
	O Sample Cooler Additional Data Needed, Please complete heat transfer document				
O PipeStand for Mounting System O Process Purge					
	O Enclosure Type Insulated O Yes O No Heated O Yes O No if yes, O Steam or O Electric if electric, Volts				
-	O Process Block Valve O Sample Inlet O Sample Outlet O Both				
-	O Check Valve on Vent Special Configurations available (please contact your local representative for information). Detector Tube				
	opecial Configurations available (plea	ise contact you	r local representative to	r information). Dete	ector Tube

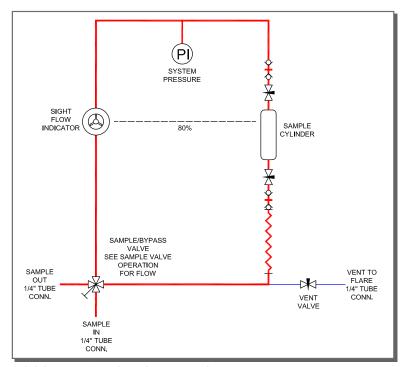
^{*}Required information







VSS Vapor Gas Sampling System



LGSS Liquefied Gas Sampling System

See our full line of Sampling Systems at SENSOReng.com

SENSOR sampling systems provide a representative sample that is safe to both the operator and the environment. Our systems are designed to meet Leak Detection Repair (LDAR), Maximum Achievable Control Standards (MACT) and Volatile Organic Compounds (VOC) emission standards. Since no two sampling systems are exactly alike, each of our products is engineered to order.

Basic Bottle Sampling System

- Simple, flow-thru valve design
- Zero dead volume
- Replaceable process and vent needles
- Available with SENSOR Needle Purge





Fixed Volume Bottle Sampling System

- Guarantees repeatable sample volume
- Zero dead volume
- Replaceable process and vent needles
- Suitable for high process pressures
- SENSOR needle purge standard





Inline Sampling System

- Available in wide variety of piping materials and end connections
- Suitable for high temperature, high viscosity service
- Available with open tube "stinger" or process needle

Liquefied & Vapor Gas Sampling Systems

- Safe, simple methodology for sampling high pressure liquefied gasses and process gasses
- Single handle operation
- · Panel mounted pressure gauge
- Sight glass ensures safe cylinder outage on LGSS
- Ability to depressurize quick connects before removing cylinder

LGSS & VSS





SENSOReng.com

Sampling Systems | Houston, TX | 281-902-3924

REGIONAL OFFICES

China

SOR China Beijing, China china@SORInc.com +86 (10) 5820 8767 Fax +86 (10) 58 20 8770 Middle East

SOR Measurement & Control Equipment Trading DMCC Dubai, UAE middleeast@SORInc.com +971 4 363 3637 Fax + 1 913 312 3596