



The SENSOR Inline Sampling System (ISS) fits directly into a piping system without the need to utilize, or create, a pressure differential to take a sample. It can be designed to fit into virtually any diameter piping system and any flange configuration. The ISS uses a special needle valve and can be configured as a fixed volume sampler for repeatable volume or high pressure.

SENSOR inline sample valve is attached to a spool piece matching your piping specification. The inline sample valve can be fully purged to eliminate dead volume and potential plugging issues.

Typical applications for the SENSOR ISS include hot oil, refinery "bottoms", hot asphalt and resid oil. Our robust valve can be fitted with graphoil packing for high temperature applications. We can heat trace any exposed areas to maintain adequate process temperature to allow for a freely flowing sample. We can enclose the inline sample valve and sample receptacle in a specially designed enclosure for operator protection. The enclosure can also be fitted with an optional eductor to exhaust harmful vapors and smoke to a safe location.

Features and Benefits

- Can be provided in virtually any material to match the piping system in which it is installed
- Steam purge available for elimination of plugging
- Available with fixed volume, model IFVSS
- Operation & Installation Manual included
- Steam heated dispense tube available to eliminate plugging

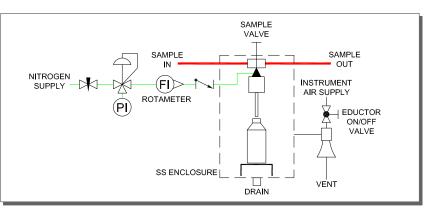


Product Specifications



Materials of Construction

Spool Piece	
Sample Valve	316SSL
Process Needle	
Vent Needle	316SS; .083" OD
O-Ring Material	Viton standard; optional Kalrez
Seal Material	Teflon standard; optional Graphoil
Bottle Shroud	PVC; 2 oz 32 oz. standard (other sizes available)
	(Note: not recommended for resid and hot oil types of metal)
Retaining Strap	Stainless Steel
Mounting Plate	Stainless Steel
Operating Pressure	1500 psig max; 150 psig maximum recommended pressure when sampling without fixed volume option; unless dispense tube is used
Operating Temperature	135°F maximum without cooler; 800°F maximum with cooler and/or graphoil valve packing
Optional Equipment	
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 filter media
Isolation Valves	Isolation valves on sample inlet & outlet to allow for easy serviceability
Sample Coolers	For use when process temperature exceeds 135°F
Secondary Block Valve	
	Complies with double-block safety requirements
Enclosures	Complies with double-block safety requirements Enclosures, available insulated or uninsulated and with steam or electric heater elements
Enclosures Mounting	Enclosures, available insulated or uninsulated and with steam or electric
	Enclosures, available insulated or uninsulated and with steam or electric heater elements 2" X 60" pipe stand; galvanized
Mounting	Enclosures, available insulated or uninsulated and with steam or electric heater elements 2" X 60" pipe stand; galvanized Utilizes steam plant air, or nitrigen to create motive force to remove vapor
Mounting Eductor Steam Tracing	Enclosures, available insulated or uninsulated and with steam or electric heater elements 2" X 60" pipe stand; galvanized Utilizes steam plant air, or nitrigen to create motive force to remove vapor and/or smoke from inside an enclosure

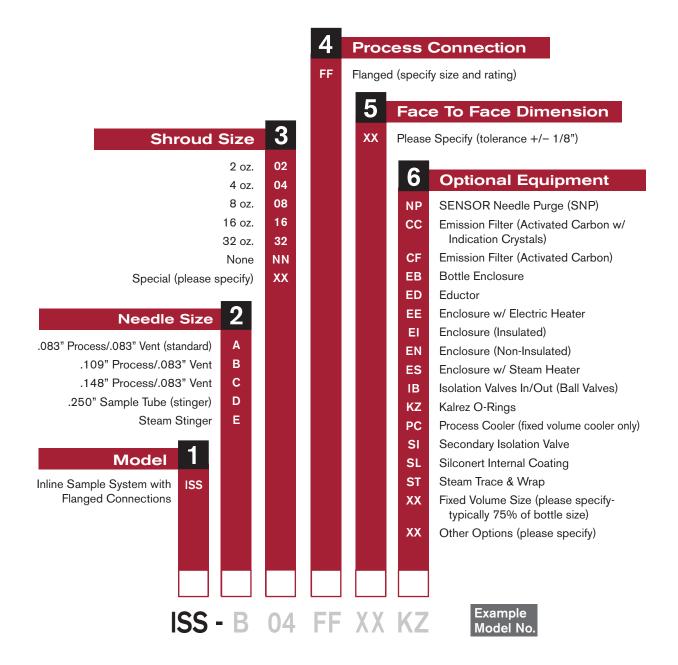


How to Order

SENS®R

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 shown on pages 4 and 5





Date								
Name	Phone							
Company/Location	Email							
PROCESS DATA								
Media	Tag Numbers							
*Pressure Inlet	Pressures over 150 PSI, Fixed Volume System is recommended							
*Fast Loop Outlet Pressure								
*Vapor Pressure	Vapor Pressures > 19 psiA recommended sampled in Sample Cylinder							
*Viscosity (CP) at Sampling Temperature								
*Temperature	Temperatures over 135 ° F, Process Cooling is recommended							
Particles in Sample O Yes O No	Micron Size (%) if >100 micron y-strainer 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 O Other*specify							
*Valve Packing Material O Teflon (std.)	O Graphoil (Hi. Temp)							
CONNECTION AND MOUNTING								
*Sample Inlet/Outlet Connection Size (1/4" Tube Standar	rd)							
*Sample Inlet/Outlet Connection Type (specify tube, NPT	Γ, Flange)							
*Flare Vent Pressure Vent to Flare Vent	ent to Carbon Absorber Tell Tale Crystals							
SAMPLE CONTAINER								
Size Container								
	Safety Coated Glass O Other*specify							
*Method of Sampling O Septum Bottle (closed loo								
	tomer (provide sample for manufacturing)							
OPTIONS (please check if needed)								
O Sample Cooler Additional Data Needed, Please cor O PipeStand for Mounting System	mplete neat transfer document							
O SENSOR Needle Purge								
O Secondary Sample Isolation Valve								
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	·							
O Non-standard Process Needle (.083std) O .10	09 O .148 O 1/4" Stinger							
O Steam Stinger								
O Fixed Volume Size O oz. O mL (if a	pplicable)							

*Required information



SKETCH VESSEL or APPLICATION HERE

	-	-	_	-			_				_					_	+		_		_			_			_		_	_	_		_		-	
	-	-		-	-		-			-	-		-			-	+		-		-			-			-		-	-			_		-	
\vdash	-	-		+				-		-						-	+										-		-	-			_		-	
\square	-	-		+	-		-	-		-			-			-	+				-			_			-		-				_		-	
\square	+	+	++	+		\vdash	-			+	-		+	\square		-	+	+		+	-		\vdash			+	-			-		\vdash		\vdash	+	+
	-	-		-						-			-			-	+				-						-		-						-	+
																	1																			
																																				\square
													_																							\square
	_			_		\square					_		_				_		_		_		\square				_									\square
\square			\parallel	_									_				_		_		_								_							\square
				_							_		_				_		_		_						_			_						\square
	_	_		_			_			_	_		 _			_	_		_		_			_			_		_	_	_		_		_	
\vdash	_	_	+	_			_			_	_					_	+		_		_		\vdash				_		_						_	+
\square	_		++	_					\square		_		_				-		_		_		\vdash	_			_		_	_					_	+
	_	_		_	_		_			_			 _			_	_				_						_		_		_		_		_	
\vdash	-	_	+			\vdash			$\left \cdot \right $	_	_		-	\square	$ \rightarrow $	_	+	$\left \right $	_		_	$\left \right $	\vdash		\vdash	$\left \right $			\rightarrow	_		\vdash		\vdash		+
	_	_		_	-		_			_	_		-			_	-		_		_			_			-		_	_	_		_		-	
	_	_		_	-		_			_	_		-			_	-		_		_			_			-		_	_	_		_		-	
	-	-		-	-		-			-	-		-			-	+		-		-			-			-		-	-			_		-	
\vdash	-	+		+	-			-		+		-	 -			-	+	+-+								+-+	+	+	-						+	
\vdash	-	-		+	-			-		-	_		 -			-	+	+-+						_		+-+	+		-				_		-	
		-		-						-			-			-	+	+ +								+ +	-		-						-	+
		-		-						-			-				+	+ +								+ +	-								-	
		-		-						-			-				+	+ +								+ +	-								-	
	-	-		-						-			-			-	+				-						-		-						-	+
				-									-				1										-									
	_			_		\square							_				_		_		_		\square				_									\square
\square			$ \rightarrow $	_			_				_		_				+		_		_		\vdash		\square		_					\square				\square
\vdash	_	_	+	_		\vdash	_	+		_	_	$\left \right $	-	\vdash	\square	_	-	+	_		_	$\left \right $	\vdash	_	\vdash	+	_	+	_	_		\vdash		\vdash	_	+
\square	_		++	_					\square		_		_				-		_		_		\vdash	_			_		_	_						+
\vdash			+	-			_		$\left \cdot \right $		_		-	\square			+	$\left \cdot \right $	_		_		\vdash	_		$\left \cdot \right $	_		_	_		\vdash			_	+
\vdash	-	+	++	+	-	\vdash	-		\vdash	+	_		-	\square	\vdash	+	+	+	_	\vdash	_		\vdash	_	\vdash	+	-	\square	+	_		\vdash		\vdash	-	+
\vdash	-	-		-		\vdash			$\left \cdot \right $	-			-	\square			+	$\left \cdot \right $		$\left \right $	-	$\left \right $	\vdash			$\left \cdot \right $	-		_			\vdash		\vdash		+
\vdash	-	-	++	+	-	\vdash	-		\vdash	+	-		-	\square	\square	-	+	+	-	\vdash	-		\vdash			+	-	+	-	-		\vdash		\vdash	-	+
\vdash	-	+	+	+		\vdash	-		$\left \right $	-	-		+	\square	\square		+	+		$\left \right $	-		\vdash		\vdash	+	+				+	\vdash		\vdash	-	+
\vdash	-	+	++	+		\vdash	+			-			+	\square	\vdash	-	+	+					\vdash			+	+		-	-		\vdash		\vdash	+	+ -
\vdash			++	-													+	+	-							+		\square								+ -
\square		+	++	-									1				+		-				\vdash				-		+			\vdash				+ -
\square		+															+												-							+ -
\square				1													+			$ \uparrow $																+ -
																	1	$ \uparrow $		\square						$ \uparrow $										\top
													_																							\square

Bottle	System	Application	Data Sheet



COMMENTS	

_ _ _ _ _ _ _ _ _

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.





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

REGIONAL OFFICES

China

Middle East

 SOR China
 Beijing, China
 china@SORInc.com

 +86 (10) 5820 8767
 Fax +86 (10) 58 20 8770

SOR Measurement & Control Equipment Trading DMCCDubai, UAEmiddleeast@SORInc.com+971 4 363 3637Fax + 1 913 312 3596