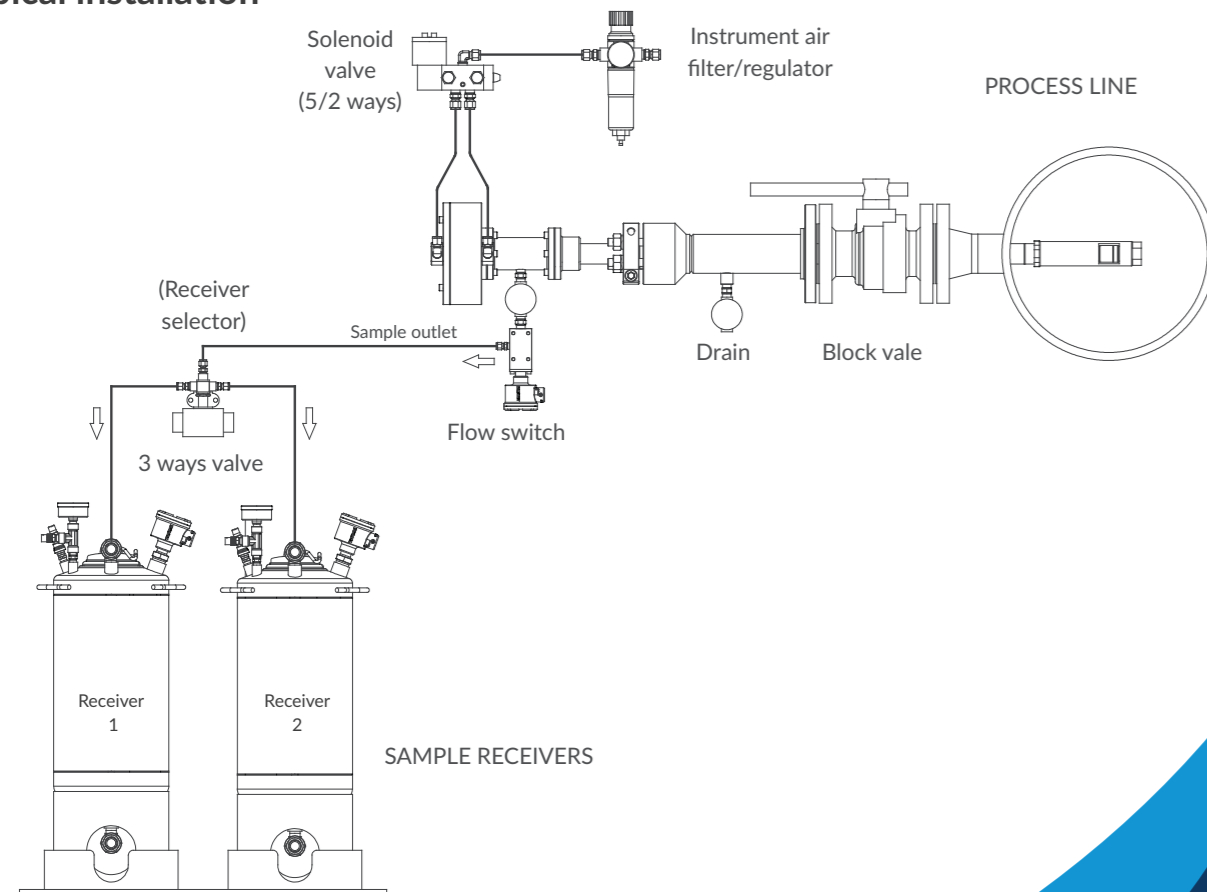


SPECIFICATIONS

Materials of construction	Standard in 316/316L Stainless Steel (Wetted parts, Seal housing, Body and Pneumatic actuator) and Duplex (internal pressure breaker valve). Can be supplied totally made with other materials according to the customer requirements.
Standards Seals	Flexible Graphite, PTFE, PCTFE, PEEK and O-rings in Viton or Kalrez.
Fluids Sampled	Crude oil, refined hydrocarbons (including non-lubricating products) and chemicals.
Operation pressure	Up to 3000 psi.
Operation temperature	-5°F to 195°F.
Maximum Insertion/Retraction pressure	ASM-MI01: 40 psi. ASM-AI01: 3000 psi. ASM-HF01 and ASM-FL01: N/A.
Insertion Length	ASM-MI01 and ASM-AI01: 0-18", 0-24" or 0-36". ASM-HF01: As required (up to 36"). ASM-FL01: N/A.
Pipeline Connection	ASM-MI01, ASM-AI01 and ASM-HF01: 2" or 3" on Flange Tap (special connections under request). ASM-FL01: 1" to 3" housing (Spool).
Pipeline Diameter	ASM-MI01, ASM-AI01 and ASM-HF01: 4" to 52". ASM-FL01: 1" to 3".
Pressure Rating	150#, 300#, 600#, 900# and 1500#.
Sample outlet connection	¼" NPT Female.
Sample volume	1cc or 2cc.
Actuation Method	Pneumatic.
Actuation supply Pressure	60 to 115 psi (filtered air recommended).
Actuation connection	2 x ¼ NPT Female.
Probe had	Piston type probe head

Typical installation



**METROVAL
AUTOMATIC
SAMPLING PROBES**



F AAM - Set/2018



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METROVAL AUTOMATIC SAMPLING SYSTEM

The Metroval sampling systems are designed for custody transfer, fiscal, allocation, well test, test separator and other purposes that require representative samples of liquids for composition and quality measurement.

They can be applied on offshore platforms, FPSOs including offloading lines, terminals and pipelines in accordance with the sampling standards ISO 3171, ASTM D 4177, API 8.2 and IP 6.2.

The sampler probes are supplied with a performance warranty to work under extreme process conditions and guarantees long Mean Time Between Failure (MTBF). These characteristics are guaranteed due to the use of very high resistance sealing materials (PCTFE and PEEK).

In general, the Metroval automatic sampler probes work well under conditions that no other probes can perform.

Benefits

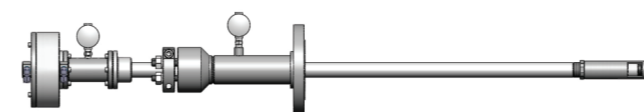
- Works well under high process pressure condition (Already tested @ 3000 psi);
- Does not require field adjustment. The sealing system is equalized by the process pressure and works normally between zero and the maximum pressure without any adjustment;
- Long Mean Time Between Failure - MTBF = 12000 hour @ 3 grabs/min (2,200,000 grabs) and no abrasive particles present;
- Low maintenance cost;
- High speed sampling for short batches (up to 60 grabs per minute);
- Adjustable insertion length to fit multiple pipelines sizes;
- Can be installed without process interruption;
- The drive motor of the probe is a pneumatic actuator totally made in 316SS.

Options

- Automatic insertion mechanism incorporated;
- Flow switch, solenoid valve and air regulator incorporated;
- Made with specific metals according to the customer requirements;
- Reinforced probe to avoid vibration, for extreme high flow applications;
- Cell Sampler for by-pass (or fast loop) applications;
- Sample receivers according to the customer requirements.

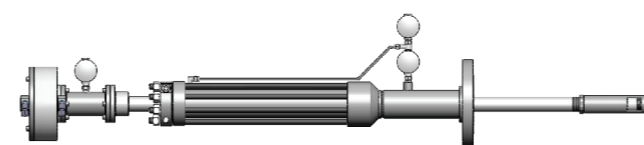


Models



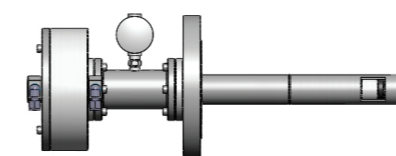
ASM-MI01

Automatic sampler probes with manual adjustable insertion benefits to be installed on flange tap without process interruption and fit multiple pipelines sizes. To permit the installation without process interruption, a block valve between the flange tap and the probe is required.



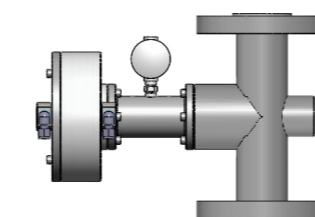
ASM-AI01

Automatic sampler probes with automatic adjustable insertion benefits to be installed on flange tap without process interruption and fit multiple pipelines sizes. To permit the installation without process interruption, a block valve between the flange tap and the probe is required.



ASM-HF01

Hi Flow automatic sampler probe to avoid vibration on extreme high flow applications like offloading lines.



ASM-FL01

Automatic sampler cell probe for by-pass (or fast loop) applications.

Sample receivers

The sample receivers can be as transportable type which do not require complex certifications or constant pressure cylinders.

Options

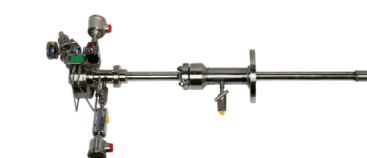
- Single or double receivers;
- Level switches;
- Level transmitters;
- Local level indicators;
- Weighing device;
- Mixing/homogenizing system;
- Heating cabinets;
- Special projects according to the customer requirements.



Sample receiver system composed by single receiver and mixing/homogenizing pump.



Sample receiver system composed by double receiver and without mixing/homogenizing pump (require remote mixing/homogenizing system).



Can be supplied with flow switch, solenoid valve and air regulator incorporated.



Sample receivers with scales assembled in Stainless Steel cabinet or GRP (Glass Fiber Reinforced Polyester) with a heating system to preserve the samples temperature in order to maintain the liquid phase.