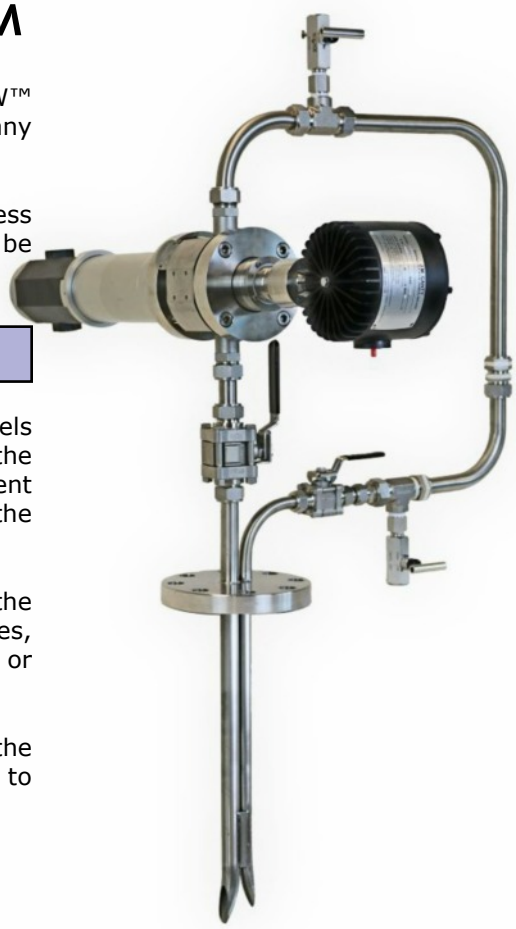
CANTY

PROCESS TECHNOLOGY

Short Loop Sampler™

The CANTY Short Loop Sampler™ (SLS) is used in conjunction with an INFLOW™ analyzer (ordered separately), to provide at line particle analysis, without any concern on where or how to return the sample fluid.

The standard 3” flange mounting allows for simple installation on any process pipeline, with the various insertion lengths available meaning the unit can be fitted to pipelines from 6” to 36” in size.

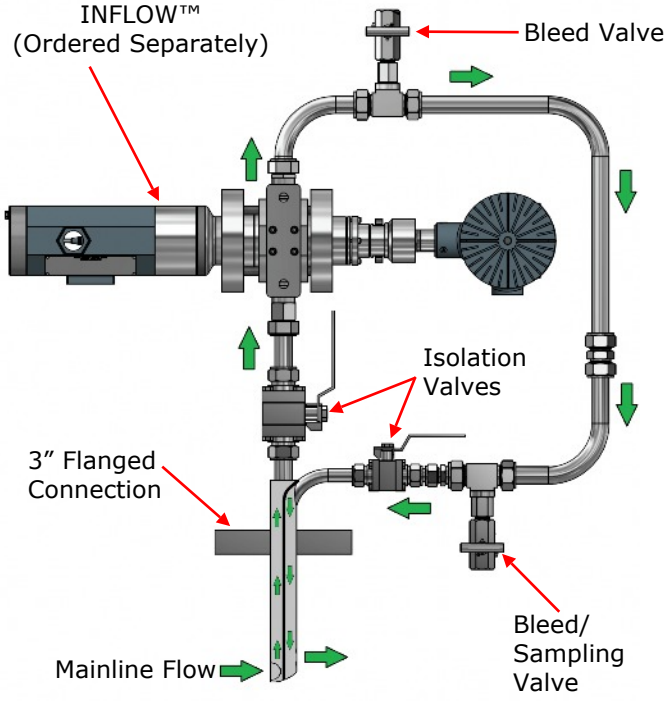


HOW IT WORKS

The SLS features a single insertion probe, but with two separate flow channels (inlet and outlet) within that probe. Based on the relative size & position of the inlet and outlet, and the flow velocity in the mainline, there is a sufficient pressure differential generated, to drive representative fluid flow through the loop and through the analyzer flow cell.

The SLS features two isolation valves which allow for simple isolation from the process, should any maintenance be required. It also features two bleed valves, the lower of which can double up as a sample valve in order to compare or calibrate the analyzer reading with a user’s offline lab analysis.

It should be noted that the SLS does require a minimum flow velocity in the mainline of 2.5 ft/s (0.76 m/s) to create the necessary pressure differential to generate flow through the unit.



INSTALLATION GUIDELINES

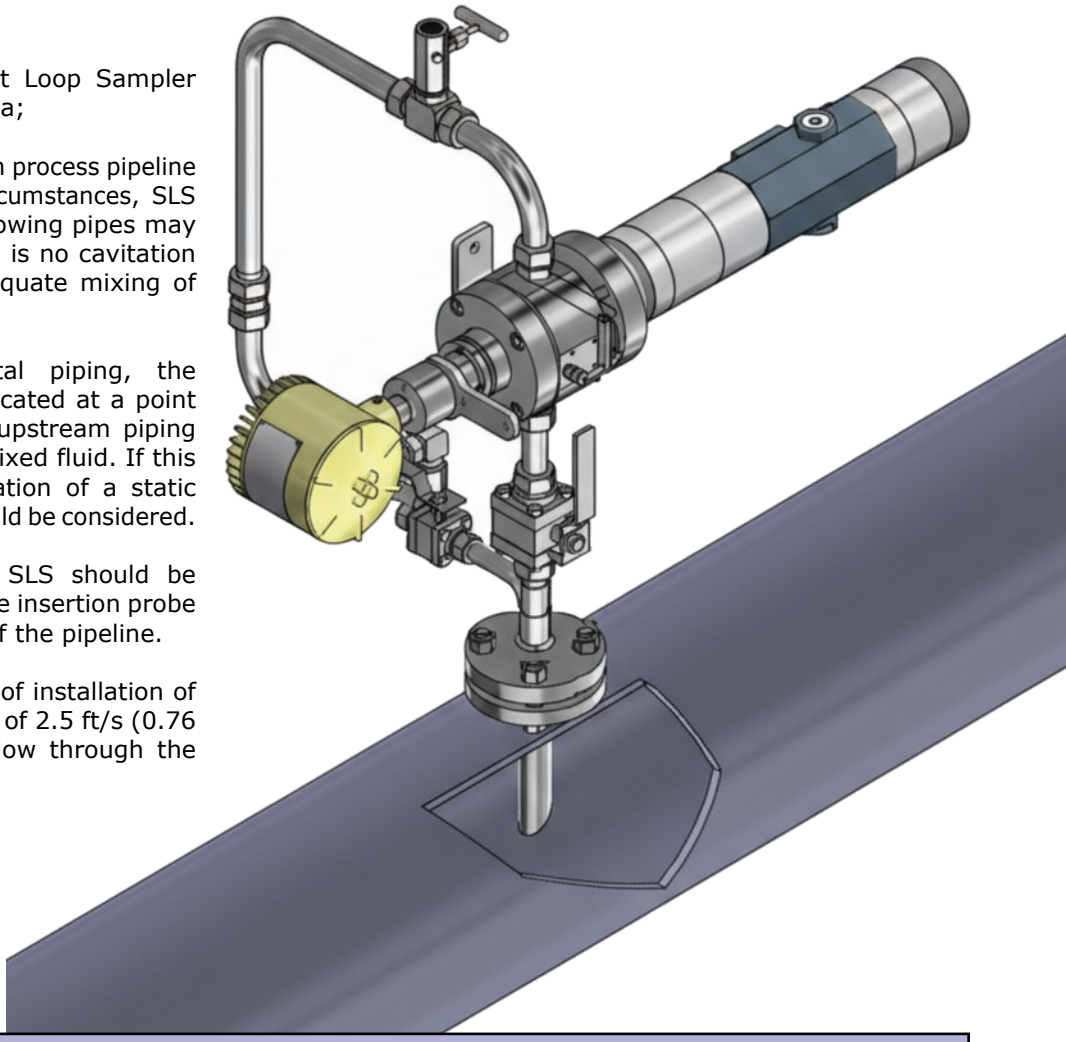
The installation location of the Short Loop Sampler should conform to the following criteria;

1. Vertical upward flow in the main process pipeline is preferred. Under certain circumstances, SLS units installed on downward flowing pipes may be acceptable, provided there is no cavitation in the flow, and there is adequate mixing of the mainline fluid.

2. For installation in horizontal piping, the installation point should be located at a point where the flow velocity and upstream piping produces a homogeneously mixed fluid. If this is not the case, then installation of a static mixer upstream of the SLS should be considered.

3. The insertion length of the SLS should be selected such that the tip of the insertion probe is located in the center third of the pipeline.

4. The flow velocity at the point of installation of the SLS should be a minimum of 2.5 ft/s (0.76 m/s) to generate sufficient flow through the unit.



ORDERING INFORMATION

S L S - L C A B 6

PRESSURE RATING
B - 150 PSI
C - 300 PSI

WETTED MATERIAL
B - 316/316L Stainless Steel
6 - Duplex Stainless Steel (NACE)

INSERTION LENGTH
E - 4”
H - 6”
K - 8”
M - 10”
P - 12”
S - 14”

NOTES:

1.Consult CANTY for higher pressure ratings if required

2.INFLOW™ to be ordered separately. Refer to TA12100-1006 for skid system options. Refer to TA11500-1024 for standalone options. INFLOW™ size / connection must be selected as 1” Tube for use with Short Loop Sampler