SLV-420 Engineering Selection Brief

Use this brief to define an atmospheric single-probe hydrostatic installation. It is a configuration review document, not an issued serial-specific datasheet, dimensional drawing or approval.

Selection item	Request / option	Release check
Liquid-head range	Request the actual span; common water/tank requests 1–200 m H■O	Calibrated span and maximum submergence are quoted separately.
Density / accuracy	State actual SG; 0.25% or 0.5% FS target	Accuracy definition, temperature and calibrated range need configuration evidence.
Wetted construction	Request 316L body with qualified silicon / ceramic cell	A steel reference photograph is not proof of 316L, seal or cable grade.
Signal / supply	4–20mA, voltage, HART or RS485 enquiry	Released pinout, supply and loop-load limit must match the chosen electronics.
Cable	PUR / PE; FEP upgrade by application	Length includes the installed route and service allowance.

Installation decisions

- A stilling tube can reduce movement; its openings must allow the liquid level to equalize.

- Set the lowest measured liquid level above the diaphragm datum; do not rest the probe in sediment.

- Fuel requires actual blend, seals/cable compatibility and site area classification.

Prepare the complete engineering RFQ

Record these inputs with the online configuration code. Liquid head is measured above the sensor diaphragm; deployment depth and cable routing are independent.

Input	Project value / acceptance record
Liquid composition, SG, concentration and temperature	_____
Maximum liquid head and minimum operating level	_____
Sensor installation depth, routing and service loop	_____
Clear casing ID / drawing datum / mounting	_____
Cable length, jacket and rated support	_____
Signal, supply, loop load and PLC / logger input	_____
Surge / hazardous-area / ingress evidence required	_____
Quantity, country, postal code and required documents	_____

Request the exact configured materials, dimensions in mm/inches, STEP availability, pinout and calibration/approval records before order release. Reference photographs do not establish a qualified SLV SKU or guaranteed material/performance.

Submit: https://submersiblelevel.com/request-quote

Open resources: https://submersiblelevel.com/datasheets-cad-wiring-library