

CYCLONE SEPARATOR

for LIQUID ANALYSIS SYSTEMS

MerlinLiquid

The MERLINLiquid cyclone separator is an innovative and patented separation technology that protects liquid analyzers by separating biphasic and particulate-loaded mixtures.

The MERLINLiquid design offers optimal separation.

Without using filter element (sintered stainless steel or fabric), the MERLINLiquid effectively separates 2 phases of liquids or solid particulates by a vortex effect and centrifugal force.

Indeed, the difference of density between 2 liquids provides separation. The heavy phase is entrained along the wall of the separator and the light phase exits from the top side of the separator to the analyzer.

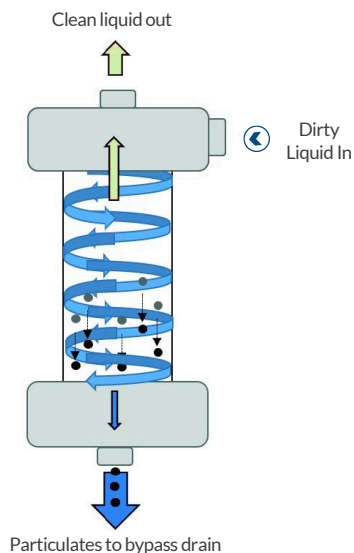
Applications

- Separation of free water in liquid hydrocarbons.
- Separation of algae and sludge in waste water.
- Separation of rust and carbon particulates in cracked fuel products.
- Protection of pH-meters.



 MERLINLiquid separator

Operating



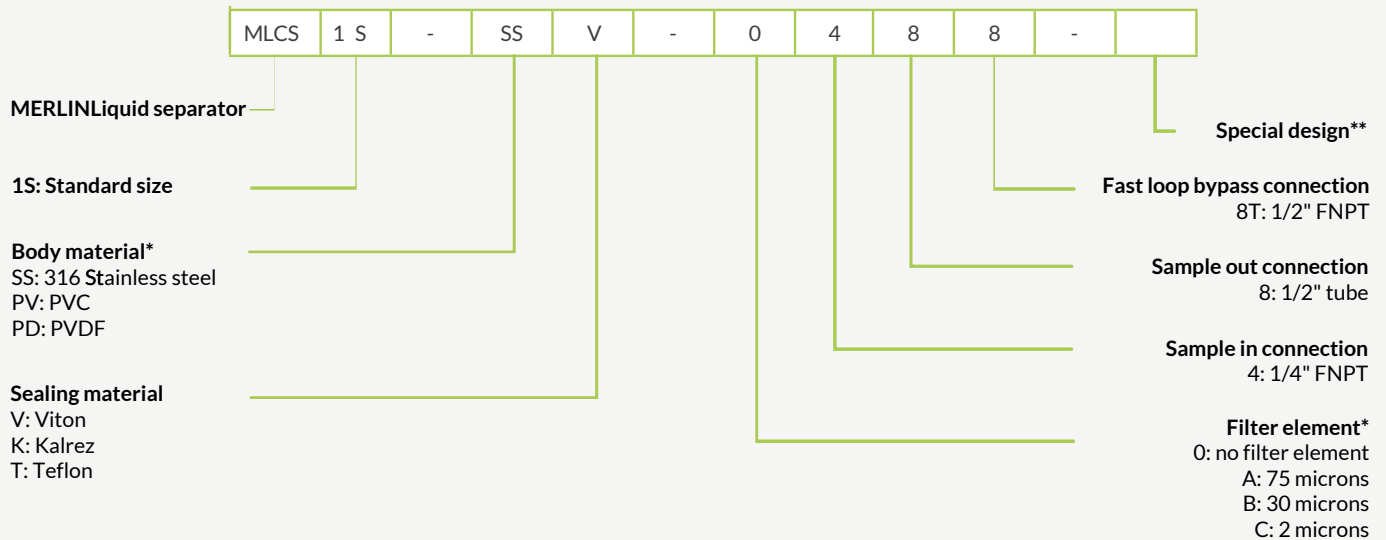
Advantages

- Keeps sample integrity .
- Removes particulates up to 7750 kg/m³ and greater than 10 microns.
- Operates very dirty samples with a single equipment.
- No filter element means no risk of clogging or early fouling.
- No maintenance.
- Possibility to add a sintered stainless steel to refine the filtration level (with backflush).

Technical specifications

Maximum service pressure	100 barg
Maximum temperature	200°C
Recommended flow rate	300-500 l/h
Maximum flow rate	1000 l/h
Differential pressure	3-5 bars
Body material	316 Stainless steel (other on request)
Sealing material	Viton, Kalrez or Teflon
Internal volume	160 cc
Sample in connection	1/4" FNPT
Fast loop bypass connection	1/2" FNPT
Sample out connection	1/2" tube
Dimensions	H 200 mm x ø 65 mm

To order



* Other: on request

** Contact us for any specific request