CYCLONE SEPARATOR
for GAS ANALYSIS SYSTEMS
MerlinGas

The MERLINGas cyclone separator is an innovative and patented separation technology that protects on-line analyzers from liquids, solid particulates and oily mists in the sample.

The MERLINGas design offers optimal separation even at a very low gas flow rate (from 30 l/h).

Without using any filter element (sintered stainless steel, micro-fibre or fabric), the MERLINGas effectively separates liquid and solid particulates (up to 10 microns) from the gas stream by a vortex effect and centrifugal force. Indeed, the difference of density between gas and solid particulates / liquids provides separation.

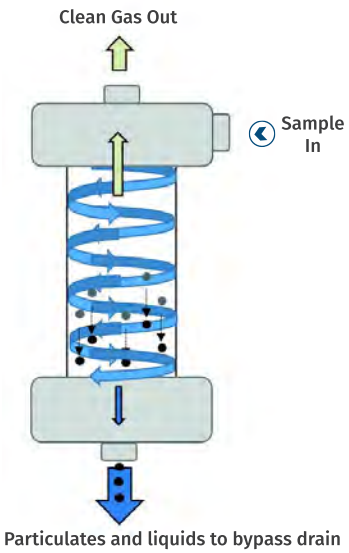
These separated particulates flow axially downwards out of the separator. The dry and clean gas sample exits from the top side of the separator to the analyzer.

MERLINGas separator

Applications

- Measurement in Syngas.
- Measurement after scrubbing.
- Sample pre-conditioning with fast loop.
- Mass balance with condensate recovery pots.
- Separation of fine particulates such as powder.
- Measurement in corrosive environments.

Operation



Advantages

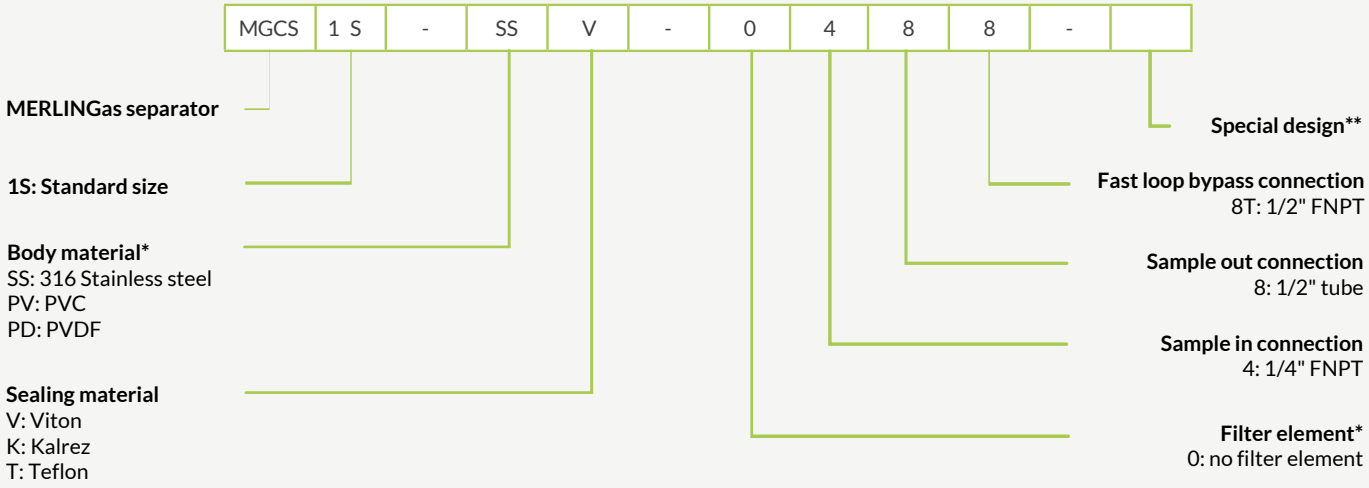
- Keeps sample integrity.
- Operates from an inlet flow of 30 l/h.
- Removes particulates up to 7750 kg/m3 and greater than 10 microns.
- Eliminates oily mists to protect measurement devices.
- No filter element means no risk of clogging or early fouling .
- No maintenance.
- Use in pressure on fast loop and in vacuum with condensate collector.
- Can be used in series for very dirty samples.
- Stress testing carried out by TUV.

SOCLEMA
Advanced Industrial Sampling

Technical specifications

Maximum service pressure	100 barg
Maximum temperature	200°C
Recommended flow rate	30-350 Nl/h
Maximum flow rate	2000 Nl/h
Differential pressure	0,5 bar
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 267 mm x ø 65 mm

To order



* Other: on request
** Contact us for any specific request

SOCLEMA
ZA Clapeloup - 4, rue des Roses,
69280 Sainte-Consorce - France
+33 (0)4 78 87 89 45
www.soclema.com