

22-12-2014

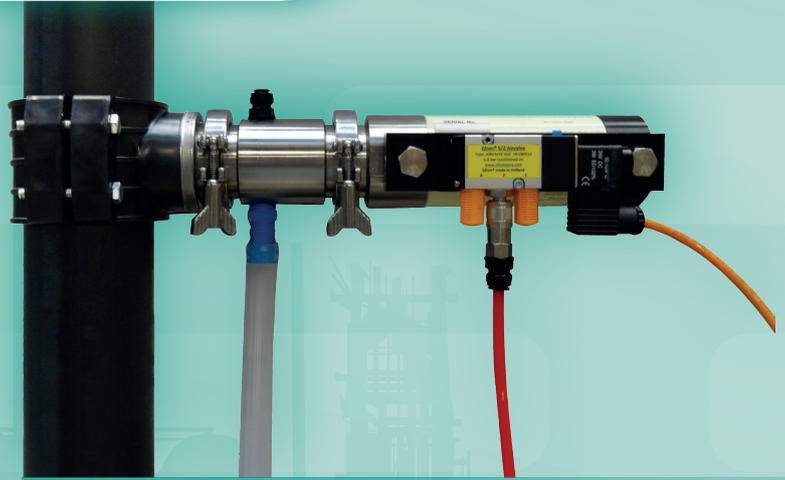


EFCON[®] water

EFFLUENT CONTROL SYSTEMS

Flow
Level
Pumps
Analytic
Samplers

Sample Cycle	± 5 sec total
Wetted parts	SS316/V4A, PTFE, Viton, POM and Silicon
Material Plunjer	SS316/V4A
Material seals	Viton & PTFE
Water temp	Max 35°C optional 50°C
Max Pressure	2,5 Bar optional 5 Bar
Min Pipe DN	80 mm if smaller, use special EFCON [®] fitting
Outlet DN	14 mm
Sample vol.	50 ml fixed volume
Actuator	Pneumatic
Air supply	6-8 bar conditioned
Protection class	IP 65
Encl. cylinder	Front SS316 with aluminum cylinder
Air connection	8 mm coppling
Activation time	± 5 sec
Resp. contact	Optional
Valve	5/2 Valve
Power supply	24 VDC ±5% / 0,13 A
Current	0,13 A
Ambient temp.	0,1°C / 40°C
Zone	Not in EX zones



Front Seal
Viton O-Ring

Rear Seal
Heavy duty PTFE



Mounting fittings for
Stainless Steel or plastic Piping



EFCON[®] ILS Guillotine G05 Sampler

The Efccon[®] ILS Guillotine is an automatic fixed volume sampler for use on 100 % filled and pressurised effluent lines. The sampled process must be liquid, and free of air / hard solids.

Designed for sampling of raw wastewater, the Efccon[®] Guillotine sampler works with a maximum process pressure of 2.5 Bar and optional up to 5 Bar. This sampling method complies to EN ISO 5667-2, EN ISO 5667-10 and NEN 6600-1 and is equipped with a pneumatic actuator (6-8 bar).

The ILS Guillotine can be volume-, time-, or event proportional controlled via a Efccon[®] controller or (when ordered only the sampler hardware) via a third party PLC. Mounting fittings for the Guillotine sampler can be supplied (option) for plastic or Stainless Steel piping.

Use in hazardous environment is forbidden unless mentioned in the manual and on the product.

Systembox options



Efccon[®] Water b.v. | www.efconomy.com

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Advantages

- Pneumatic actuator
- Simple closed system
- SS 316 plunger + body
- No contact sensors in contact in the effluent
- Low maintenance frequency
- Robust
- Simple to mount & Simple to clean
- No odours
- Fixed sample volume independent of process pressure

Conditions

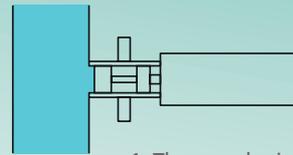
- Minimum diameter of 15 mm
- Main application in sampling raw wastewater
- Recommended flow velocity in horizontal pipe > 0,5 m/s

Optional

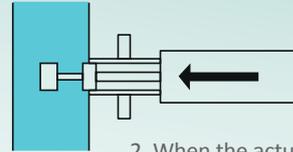
- Heavy Duty Sludge sampler
- Sample Blow-Out in 38 mm tubing
- Up To 5 Bar pressure



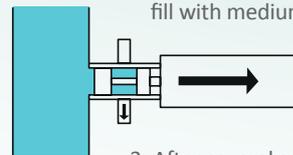
Operation principal



1. The sampler is in standby position, the plunger has its cavity above the outlet.



2. When the actuator is driven by compressed air the plunger will shoot inward the piping and the cavity will fill with medium.



3. After several seconds the plunger shoots back in the enclosure and medium from the cavity drains through the outlet. After discharging the sampler is back in standby position.



Guillotine integrated in Heavy Duty Effluent Control station.

Billing purpose 100 % active a year.

Installation Instructions

- Place sampler in a 100% filled pipe free from air inclusion and in horizontal piping a minimum flow velocity of 0,5/s.
- Ensure there is enough height for the silicon hose which enters the inlet in the enclosure.
- Do not place the sampler in turns or reduces.
- For safe maintenance and reparations the sample pipe needs to be empty.
- Don't place the sampler in or after a downward flow
- Maximum pipe pressure 2,5 bar (optional 5 bar)
- Ensure the sampler doesn't stick in the piping in standby position.

