

## SGt-1s

### Structure:

Flare can be connected either to biogas pressure system or gasholder.

In SGt-1s flare, biogas is burned off homogeneously by means of excess air at a temperature of  $< 950^{\circ}\text{C}$ . The flare starts as soon as the start command (external) is given. The burner control unit controls the electrical ignition procedure and monitors the flame.

The pre-wired electrical control with all control functions is mounted directly on the supporting construction.

### Basic components:

Flare: main construction made of stainless steel, burning chamber made by heat resistant steel, isolation butterfly valve, slam shut valve with el. actuator, flame arrester, manometer set with valve, pressure switch, injector burner with nozzles, el. ignition with transformer, ignition burner, UV flame monitoring.

Electrical control: control cabinet with all control and safety elements, burner control unit with display LCD.

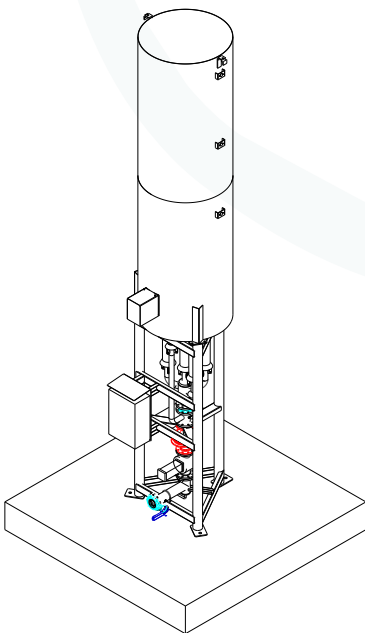
### Safety features:

The unit is equipped with all necessary safety features for the safe handling and combustion of the biogas. The system is designed according to safety standards (explosion protection) and is foreseen to be installed outside of the hazardous areas such as Zone **0**, **1** and **2**.

Safety equipment:

- flame arrester;
- slam shut valve;
- minimum pressure switch;
- burner control with UV detection.

- **excess air combustion;**
- **combustion temperature  $< 950^{\circ}\text{C}$ ;**
- **residence time  $> 0.3\text{s}$ ,  $> 0.6\text{s}$ ;**
- **concealed flame;**
- **high safety standard.**



### Options:

- temperature monitoring;
- frost protection.

### Standard type of series:

Flare model /size/	Gas flow rate max. $\text{Nm}^3/\text{h}$	Flare height, m	Burner capacity $\text{kW} - 70\% \text{CH}_4$
SGt-1s 30	30	3.5	210
SGt-1s 70	70	6.2	490
SGt-1s 150	150	6.7	1 050
SGt-1s 250	250	7.2	1 750
SGt-1s 350	350	8.1	2 450
SGt-1s 500	500	8.6	3 490
SGt-1s 800	800	8.4	5 590
SGt-1s 1 200	1 200	8.9	8 380
SGt-1s 1 500	1 500	9.4	10 470

More options are available on request