



BIOGAS FLARE

Hidden Flame – Mod. FE

DESCRIPTION

This type of flare is designed for the purpose of contain the flame in order not to make it visible from the outside and is adopted when is not required a high combustion efficiency and its traceability is not required. The flare consists of a burner installed at elevated position, equipped with a high-energy ignition Pilot and a flame detection system via Thermocouple.

The combustion air is natural conveyed from the bottom part of flame shield, developing combustion temperature < 800 °C.

The supporting structure is composed of a vertical flame shield, (without insulation) and specially sized to contain the flame inside.

The ignition system is automatic type, operated by the electrical panel installed of the flare's bottom side and initially involves the pilot's ignition and subsequently the opening of the main Biogas valve.

This Biogas Flare, unlike to elevated type, develop an influential radiation value at ground, since the flame is fully contained within the flame shield.

The gas train and all accessories such as valves, flame arrestor, pressure gauge and other, are installed inside the supporting structure.



SITE UTILITIES

Power supply	Volt	400
Auxiliary circuits Power	Volt	230-24
Frequency	Hz	50
Electrical Insulation (Local Panel)	Gr.	IP54
Electrical Protection (Field equipments)	Gr.	IP65
Instrument Air Type	/	Dry, without oil
Instrument Air Dew point	°C	-25
Instrument Air (Wet, without Oil)	bar _g	6

DESIGN CODES

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Cap. Soc. : 12.500,00 euro i.v.



- ✓ Direttiva Macchine 2006/42/CE
- ✓ D.Lgs.81/2008 e s.m.i.
- ✓ CEI EN 61349-1
- ✓ EN 60079-1
- ✓ Direttiva 2014/34/UE
- ✓ Direttiva 2006/95/CE
- ✓ IEC 60038
- ✓ IEC/EN 60204
- ✓ CEI EN 60079-10-1:2016 Classificazione luoghi ATEX gas

SUPPLIER DATA

Model		FE
Type		Hidden Flame
Total Height (from ground)	ml.	4 > 8
Type of support		Selfstanding
Gas Pipe Material		Aisi 304
Flame Shield		Aisi304/309
Burner Material		Aisi 316/310
Air Damper Material (if request)		Aisi 304
Inlet Flange		ANSI B16.5 - 150#
Flame Detector		Thermocouple
Internal Insulation		N.A.
External Insulation (Only in the Top parts lg. 1 ml.)		N.A.