



BLENDER UNITS

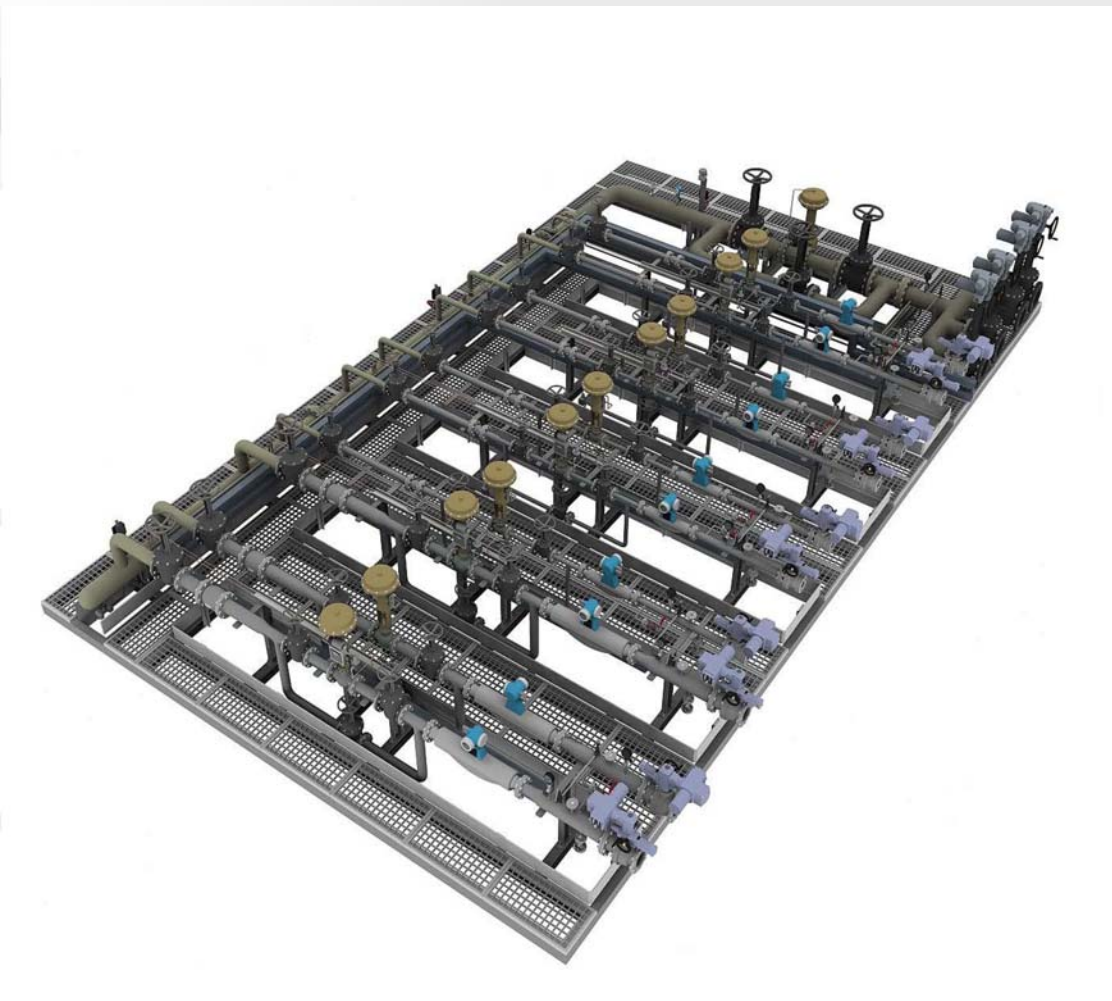
DESIGN PHILOSOPHY

The blender skid is designed for mixing incoming products with percentages regulated by control valves and flow transmitters and obtain different products on the out-coming lines that are pressure controlled by control valve and pressure transmitter.

The incoming lines and the out-coming products are enabled by electrical motorized valves.

The control system is normally done by others and is connected to all skid components by cables directly connected from instrument to remote panel or by interposed Junction Boxes.

The system can be equipped by three gas sensors and a signaling horn.



SKID COMPONENTS

1. PRODUCT INCOMING LINES

Each incoming line is equipped with the following components :

- Electrical motorized ball valve on the inlet side to close / open the line
- Pressure transmitter to measure the incoming line pressure
- Drain valve to perform inlet line drainage
- Safety valve to prevent over-pressurization of line: set of the safety valve is equal to design pressure
- Flow transmitter, coriolis type, calculated and sized following process data
- Control valve calculated and sized following process data
- Manual gate valves upstream and downstream control valve to permit valve maintenance
- Manual by-pass gate valve to permit the functioning of system with control valve out of service
- Manual gate valve for draining the line, connected to main drain collector
- Check valve to avoid any product return on the incoming line from main collector
- Flange connection for client probe connection
- Line complete with manual ball valve and check valve for client flexible piping connection to chemical dosing.
- Manual gate valve to segregate the incoming line from main collector



SKID COMPONENTS

2. MAIN COLLECTOR

The incoming lines are connected to main collector piping that is equipped with the following components:

- Manual gate valve to vent the collector
- Manual gate valve to drain the collector
- Pressure gauge to check the pressure incoming into static mixer
- Static mixer calculated and sized following process data to obtain a complete mixing of incoming products
- Safety valve to prevent over-pressurization of line downstream mixer: set of the safety valve is equal to design pressure
- Pressure transmitter to check the collector pressure
- Pressure control valve to regulate the outgoing line pressure
- Manual gate valves upstream and downstream control valve to permit valve maintenance
- Manual by-pass gate valve to permit the functioning of system with control valve out of service
- Line complete with manual ball valve and check valve for client flexible piping connection to chemical dosing
- Pressure gauge to check the pressure downstream control valve
- Safety valve to prevent over-pressurization of line downstream pressure control valve: set of the safety valve is equal to design pressure



SKID COMPONENTS

3. OUTCOMING LINE

The out-coming lines are connected to main collector piping and are equipped with following components:

- Automatic gate valve for each type of products



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

SITES S.r.l.
Via Trento, 82
22070 Fenegrò (Como) – Italia

has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:

ISO 9001:2008

The Quality Management System is applicable to:

**Engineering, manufacturing, assembly and assistance
of gas, air, oil and gas treatment plants
for petrochemical and energy companies.**


This certificate is valid only in association with the certificate schedule bearing the same number on
which the locations applicable to this approval are listed.

Approval Certificate
No: LRC 6009580/QMS/UE/N

Original Approval: 2nd June 2010

Current Certificate: 14th June 2016

Certificate Expiry: 14th September 2018


Issued by: Lloyd's Register Quality Assurance Italy Srl
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CERTIFICATE SCHEDULE

SITES S.r.l.
Via Trento, 82
22070 Fenegrò (Como) – Italia

Locations

Via Trento, 82
22070 Fenegrò (Como) – Italia

Via Milano, 74 b
22070 Bregnano (Como) - Italia

Activities

Engineering, project management,
manufacturing and assembly of gas, air,
oil and gas equipment for petrochemical
and energy companies. Prefabrication of steel
structures.

Engineering, project management,
manufacturing and assembly of gas, air,
oil and gas equipment for petrochemical
and energy companies. Technical
assistance activities.

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