



Salerno Industry
U.A.E.

CERTIFIED FLEXIBLE
ANTIFIRE PROTECTIONS
AND THERMAL INSULATION

CERTIFIED RIGID
PASSIVE FIRE
PROTECTION

THE INTEGRATED PASSIVE
FIRE PROTECTIONS
PROGRAM

“EFTIES”

ENGINEERING
PERSONALIZED SOLUTIONS
PRODUCTION
INSTALLATION
AFTER SALES ASSISTANCE
MAINTENANCE
MEASUREMENT IN 3D
PROGRAM FOR GUARANTEE EXTENSION
TRAININGS



www.salernoindustry.com



SALERNO PASSIVE FIRE PROTECTION INDUSTRY

WHO WE ARE AND WHERE WE ARE

SALERNO PASSIVE FIRE PROTECTION INDUSTRY IS A COMPANY RELATED WITH THE GROUP OF ENTERPRISES
FOUNDED BY

ENGINEER GIUSEPPE SALERNO.

THE EXPERIENCE OF THE ENGINEER SALERNO IN THE COUNTRIES OF THE GULF AND IN THE SPECIFIC SECTOR OF PASSIVE FIRE PROTECTION FOR OIL & GAS PLANTS HAS NOW REACHED 15 YEARS AND IS CONSIDERED AMONG THE MOST PERFORMING IN THE SECTOR. TODAY, THE ENGINEER SALERNO PASSIVE FIRE PROTECTION MANUFACTORY IS A STRONG REALITY IN UAE AND ABROAD.

WITH **ENGINEER SALERNO** WE FACED A NEW CHALLENGE: TO MEET MARKET DEMANDS FOR A COMPETITIVE PRODUCT WHILE PRESERVING THE QUALITY OF THE PRODUCTS AND MATERIALS WE USE. THE QUALITY STANDARD IS OUR GREATEST CHALLENGE, IN A SECTOR OF 'GREAT SENSITIVITY' FOR THE SAFETY OF PLANTS.

ENGINEER SALERNO THEREFORE IS A PERFECT COMBINATION BETWEEN TECHNOLOGY AND ITALIAN MANUFACTURE, CONSOLIDATED PRESENCE OF PRODUCTION IN THE GULF COUNTRIES AND THE HIGHEST STANDARD OF MATERIALS.

IN FIFTEEN YEARS OF EXPERIENCE, UNDER THE GUIDANCE OF THE ENGINEER SALERNO, WE HAVE ACHIEVED THE MAXIMUM EXPERTISE IN THE MANUFACTURE OF PASSIVE FIRE PROTECTION AND ASSISTANCE TO OUR CUSTOMERS.

OUR LOYALTY TOWARD OUR CUSTOMERS BUT, WHERE DOES LOYALTY COME FROM?

Think about those brands that you purchase from over and over, even when there are cheaper options out there. Do you usually fly on a particular airline? Do you buy your coffee from the same place every morning?and so on!

Often, the reason you stay loyal to brands is because of their values. The best brands strive to combine physical, emotional, and logical elements into one exceptional customer supplier relations.

When we successfully create a connection with our Customers and employees, many of them might stay loyal for life - and you'll have the chance to increase your overall profitability while building a solid foundation of brand promoters. But achieving that connection it's not easy task. The companies that succeed are ones that stay true to their core values over the years and create a company that employees and customers are proud to associate with.

The foundations and aspirations of our business remain true to those established by our visionary founders, and their innovation and energy continue to be our inspiration. Our passion and entrepreneurial culture will ensure that we deliver for our customers in safety, quality and assurance – today and in the future.

OUR PURPOSE

Bringing quality and safety to life.

OUR MISSION

To exceed our customers' expectations with always innovative technical solutions and services for their operations and supply chain.

OUR VISION

To be one of the world's most trusted partner for passive fire protections

OUR VALUES

- We are a global family that values diversity.
- We always try to do the right thing. With precision, peace and passion.
- We trust each other and have fun winning together.
- We own and shape our future.
- We create sustainable growth. For All.

WHY FIREPROOF PROTECTION

Prevention and fire protection in refineries and petrochemical industry is gaining in importance and requires the application of innovative and cost-effective methods for companies that want or need to invest in "safety".

A fire in a chemical or petrochemical plant which is not possible to contain and extinguish in a short time implies for the company, not only a huge direct economic damage but also indirect, for production stop and image of the company.

The problem of security is therefore related to the hydrocarbons fire time control, allowing the operator to delay and stop the spread by dosing the control room of actuated valves.

Valves, actuators, tanks and various kinds of instruments must therefore be protected from flames, so that they can operate for the time necessary to allow the safety of the system and do not allow fire spread in an uncontrolled manner.

WHAT WE PROTECT

The range of **OG Flex** products is designed for an effective fireproof protections :

- Electric, pneumatic and hydraulic actuators
- Check and control valves, ESDV
- Flange Couplings
- Cable Trays
- Command and Control panels
- Tanks
- All elements in critical areas of the plant
- Social Assembly with our system **"EFTIES"** that combine the personal protection with the fire events acting events thermal insulation and sound absorber



TESTS, CERTIFICATES, RESEARCH, WARRANTY AND DEVELOPMENT

Thanks to an innovative product, **OG** has passed the most severe tests of hydrocarbons fireproof resistance, obtaining the relevant certificates issued by accredited institutions and laboratories in the Oil & Gas fields, such as TUV SUD ISO 9001.

Tests made on **OG** products are in accordance to the main standards which regulate fireproof protections all over the world, as UL 1709 and ISO 22899-OTI 95 634.

Resistance tests in a "Jet Fire" condition and gas explosion "Blast Overpressure test" were made in laboratories directly credited by TRATER Register, while the hydrocarbon test curve according to the standard "UL 1709" was made directly in "TRATER TRATTAMENTI TERMICI INDUSTRIAL, MILANO, ITALY" and certified by TUV SUD ISO 9001.

Our technical department has adapted a software project, certified by TUV SUD ISO 9001 which has been especially studied for **OG**.

We may guarantee our products upto 10 years provided that we will pay a visit at site each two years for a general survey finalized to the renew of the certificate.



After the burning of the external fabric installed for the ceramic protection, The stainless steel elements inside the blankets and inside the belts maintain in complete correct position the ceramic fibres for the component protection after the 15 Min < Fire cycle < 120 Min

OG  Flex



MAIN CHARACTERISTICS



OGFlex is an effective method of protection devices controlling a plant, which allows minimizing the danger and damage caused by fire in a refinery, oil platforms, petrochemical, thermal power, electrical, shipbuilding and defense plants.

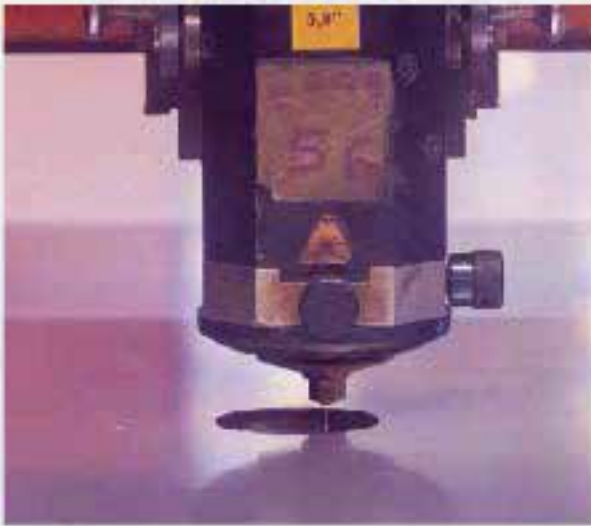
OGFlex is based on the assembly of various multilayer "jackets" which are attached to each other only through belts and buckles in stainless steel, no rings, no wires or seams. The main advantage of a soft and flexible protection is due to easy transport, handling, assembly and disassembly.



This allows a quick access to the protected device operations through appropriate inspection bays, or even to make ordinary and extraordinary maintenance disassembling quickly and without specialized personnel, **OGFlex** protections.

All panels are made with highly performing materials, designed to work in extreme temperatures: from -50°C to about 275°C only for the external coating fabric of the panels, while the entire protection ensures its function up to 1400°C for a different period of time, depending on specific requests. It is possible to create access bays for command buttons, control panels, indicators and automatisms.

NPCC - NASR1 OFFSHORE PROJECT



OG SHELL

**THE MOST
ADVANCED RIGID
PASSIVE FIRE
PROTECTION
CERTIFIED BY
TUV SUD ISO 9001**

PRODUCTION FACILITIES IN OUR PARTNER COMPANY

To achieve the prefixed targets we use the most advanced production entities with continuous controls and tests during manufacturing.

CUSTOMIZED PRODUCTS

Our clients can choose different types of materials, fabrics, colours and fastening methods, thus customizing their product. Every component of our protections is identified through special plates in AISI 316 L where customer name, reference design and device tag code are engraved.



During Test



After Test

OG SHELL

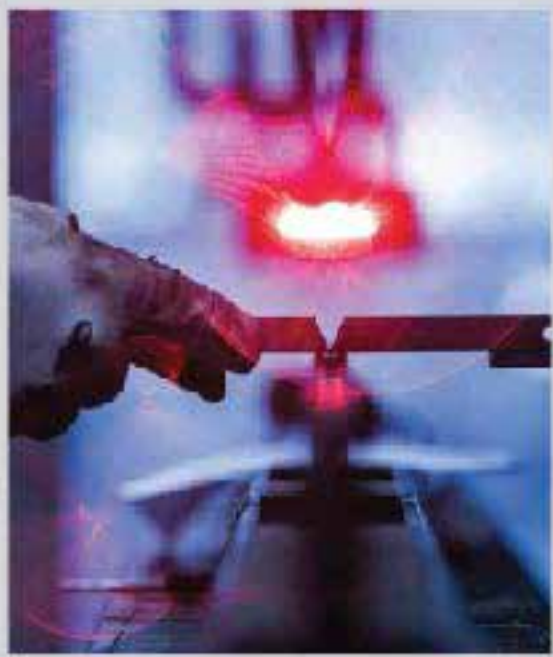
Has the advantages to be:

- 1100°C pool fire resistance
- Lightweight for easy handling
- Totally removable
- No deterioration
- No vibration
- Strong resistance to corrosion
- No damages, even if exposed to acid or oil products
- No maintenance
- Easy disassembling and assembling, thanks to our handbook assembly procedure
- Waterproof and sandproof

Can be combined with OGFlex in order to have an hybrid solution for application when some components are not in the rigid enclosure.

ACCESSORIES AND TECHNICAL SOLUTIONS

OG SHELL



Threaded pass through pipes for the connections to the actuator.

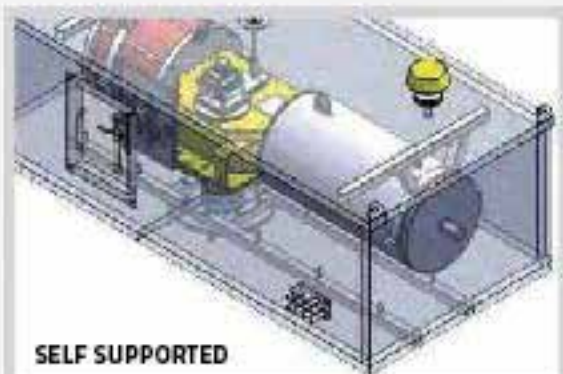
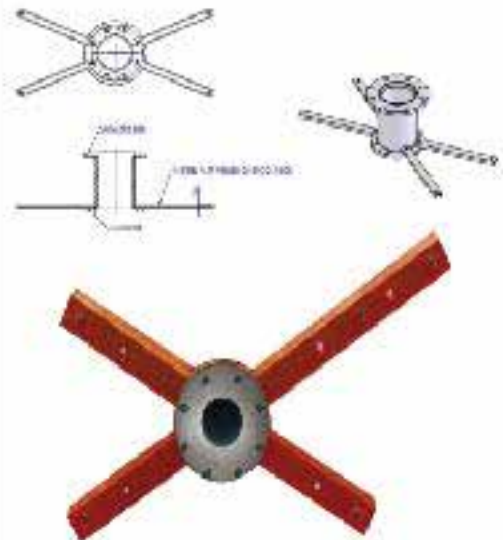
Alternative Solution for the inspection door : with high strength hinges and oversized stainless steel thickness, conical closure by magnetic contacts.

NOTE

For the complete list of the accessories and technical solutions, please ask for the specific Technical Selection Book.



SUPPORTED SOLUTION



OG INTEGRATED PASSIVE FIRE PROTECTION PROGRAM "EFTIES"

OG INTEGRATED SOLUTION EFTIES (F.T.S = FIRE + THERMAL + SOUND)

EFTIES of passive fire protections combined with components for noise reduction, sound absorption and thermal protection for a perfect energy preservation for steel piping and cable trays having even the finality to give personnel protections when the utilities have a working temperature over 60°C

ALL IN A SINGLE BLANKET LAYER

WITH JUST ONE LAYER OF EFTIES YOU WILL OBTAIN THE FOLLOWING ADVANTAGES:

1. Personnel protection against contact with a hot surface, the temperature remain hot even if you use intumescent paint.
2. Passive fire protection.
3. Thermal insulation
4. Sound absorption
5. Cost reduction compared to the traditional multi layer application for obtaining the above effects.
6. Guarantee up to 10 years.
7. Easy installation.
8. Quick installation.
9. Easy disassembling.
10. Easy modification if change happens in the line.
11. Ventilation inside the protected cable tray for increasing the cable life.
12. For feeding lines no necessary to have final drawing because EFTIES are flexible.
13. Full healthy for the personnel.



WHAT MEANS FOR INTEGRATED PROTECTION SOLUTION

OIL & GAS WHEN HAS DEVELOPED HIS BRAND NEW PRODUCT DEFINED AS A "TYPE APPROVED PRODUCT" TO BE USE AS AN OUTER LAYER OF PASSIVE FIRE PROTECTION FOR ONSHORE AND OFFSHORE APPLICATION HAD AS TARGET TO CREAT A SYSTEM THAT WILL BE USED NOT ONLY AS P.F.P BUT EVEN MAY HAVE FUNCTION OF THERMAL INSULATION OF ACTUATORS, PIPELINES, FLANGES, SUPPORTS, BRACKETS, INSTRUMENT, CONTROL BOARDS, CABLE TRAYS AND VALVES.

ONE JACKET FOR SEVERAL PURPOSE





EXPERIENCE OF ENGINEER GIUSEPPE SALERNO

ALGERIA

Sonatrach, Algeria /
 Bilco Antifire Engineering s.r.l.
 Sonatrach, Algeria /
 Bilco Antifire Engineering s.r.l.
 Sonatrach, Algeria /
 Bilco Antifire Engineering s.r.l.

CHINA

Oil & Gas Trading Company FZE
 Oil & Gas Trading Company FZE
 Oil & Gas Trading Company FZE
 Wison Engineering Ltd, China

CONGO

Prezioso / Oil & Gas Trading
 Company FZE
 Prezioso / Oil & Gas Trading
 Company FZE

FINLAND

Fluidcontrol OY, Finland
 Fluidcontrol OY, Finland
 Fluidcontrol OY, Finland

INDIA

Virgo Engineers Limited, India
 Bharat Petroleum Corporation Ltd
 Rotork Controls India (P) Ltd, India
 Microfinish Valves Pvt Ltd
 L&T Valves Limited, India

Rotex Manufacturers &
 Engineers Private Limited, India
 Virgo Valves &
 Controls Private Limited, India
 Flowserve India Pvt. Ltd.
 Emerson India Chennai
 Metso

Pentair Valves & Controls Pvt. Ltd
 Emerson Process
 Management Chennai Ltd.
 Flowserve India Controls Pvt Ltd
 Bharat Petroleum Corporation Ltd.

Kochi Refinery, India
 Xomox Sanmar Ltd- Xomox Division
 Rotex Manufacturers & Engineers Pvt. Ltd
 Emerson Automation Solutions
 Pentair
 Valves & Controls India Pvt.Ltd.

INDONESIA

Rotork Controls

IRAN

OIEC, Iran / Oil & Gas
 Trading Company FZE
 Gostaresh Tejarat Takestan Co,
 Tehran, Iran

IRAQ

AUMA Middle East FZE

Flowserve Gulf FZE
 Rotork Middle East FZE

TURKEY

Rotork Middle East FZE, UAE

KINGDOM OF SAUDI ARABIA

JC Fabrica De Valvulas - Spain
 Emerson Process Management UAE
 Emerson Arabia KSA
 Emerson FZE, UAE

KUWAIT

Consolidated Contractors Company
 Emerson FZE, UAE
 Flowserve Gulf FZE
 Schlumberger Reservoir
 Products FZE, UAE
 JC Valvulas (ME) FZC, UAE

MALAYSIA

Oil & Gas Trading Company FZE

NORWAY

Drydocks World Dubai, UAE

NETHERLANDS

Emerson Process Management

OMAN

Petrofac- Daelim
 Middle East Oil Field services LLC
 Nadhira Enterprise LLC



WE ARE PROUD TO SERVE YOU

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