



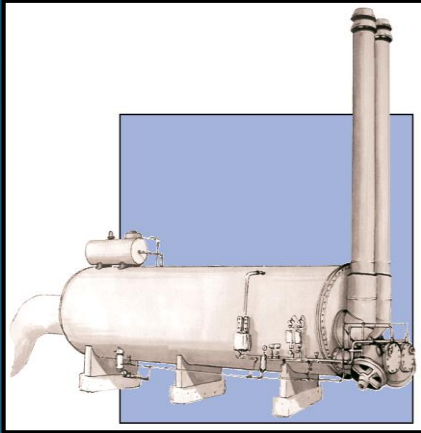
FORAIN s.r.l.

Via G.B.Boeri, 11

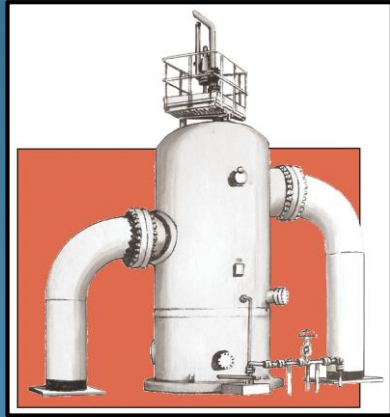
20141 Milan Italy

• e-mail: [info@forain.it](mailto:info@forain.it) – [www.forain.it](http://www.forain.it)

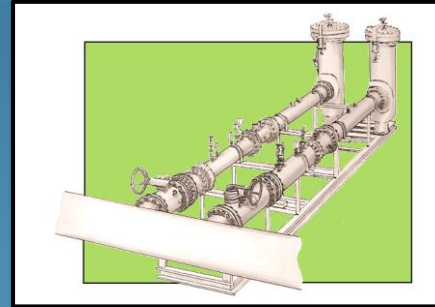




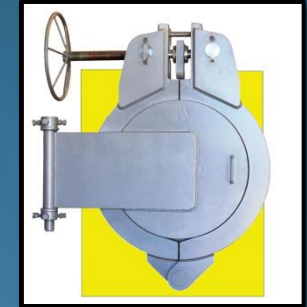
INDIRECT WATER & OIL BATH HEATERS



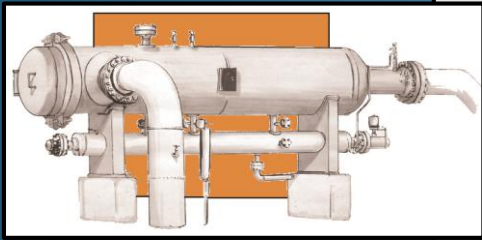
MULTITUBE SEPARATORS



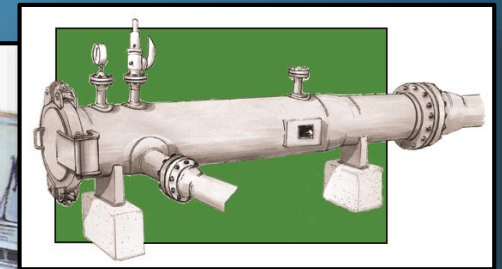
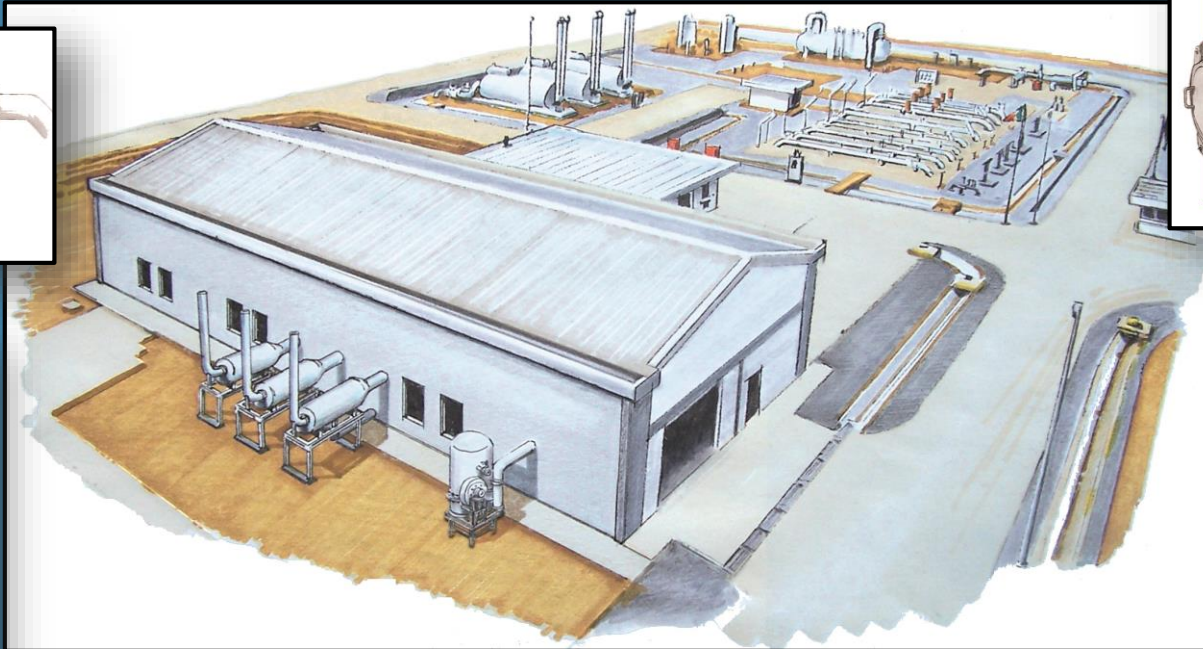
PACKAGES



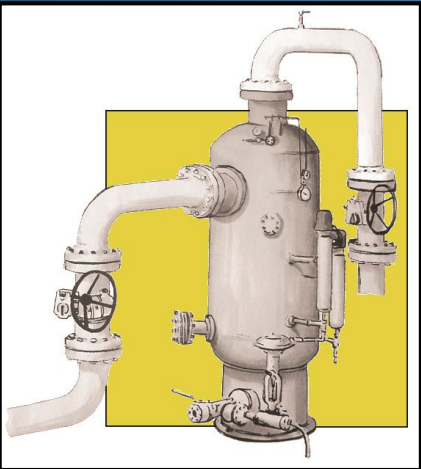
QUICK OPENING CLOSURES



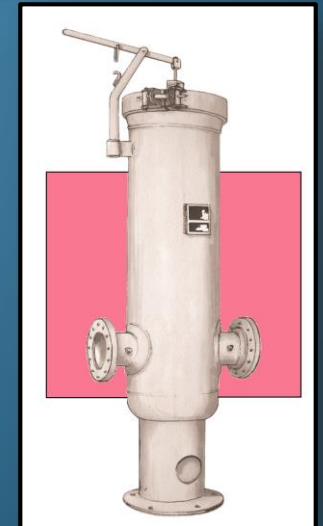
FILTER SEPARATORS



SCRAPER TRAPS



VANE TYPE SEPARATORS



DRY GAS FILTERS

Forain has been acting in the oil and gas field since 1975. Our production is well known and appreciated all over the world: we have been supplying equipment and plants to the five continents. Forain is very appreciated for its reliability, due to the strict compliance with Quality System conforming to ISO 9001 Rules, as well as for its flexibility. If you need any extra information concerning gas treatment, metering and heating, please do not hesitate to contact us.



**Forain is a company established in 1975, operating in the field of design and fabrication of plants and parts of a plant for oil and gas treatment, production and transport.**

**By using modern technology, modular construction and ensuring fast delivery, Forain is able to supply what the Customer wants: plants which are quickly and easily installed in accordance with the required standards.**

**Our production is based on the following equipment:**

**Vane type separators    Multitube separators**

**Dry gas filters            Filter separators**

**Basket filters             Water and Oil bath heaters**

**Oil separators            Launching/Receiving traps**

**Packages                 Quick opening closures**

**Each vessel can be supplied complete with control and safety instrumentation and skid mounted.**

**The equipment designed and fabricated by Forain is installed all over the world.**

**Detailed technical bulletins of our production and reference list for single items of equipment are available on request.**

## VANE SEPARATORS

Modern computer facilities and in-house proprietary programs greatly reduce the time required to achieve the best equipment and/or plant design, balancing costs and operating efficiency



SLUG CATCHER SLV TYPE - 42" # 300



SLV TYPE - 76" # 1500, THK. 125 mm, 75 Ton

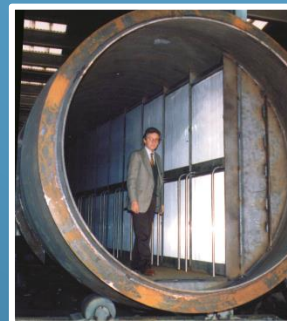
Our engineers are familiar with all European codes and standards as well as with the ones of the major extra-European Countries. This allows us to issue drawings, data sheets and operating manuals individually produced for each contract. Documentation can be supplied in the Customer's own language.



IN LINE SL TYPE - 45" # 1500  
THK. 65 mm + 3 mm AISI 316L cladding



IN LINE SL TYPE - 30" # 300



SLV TYPE - 130" # 150  
LENGHT 21 m, 55 Ton



IN LINE SL TYPE - 82" # 1500  
IN LINE SL TYPE - 50" # 2500

**Forain**

## MULTITUBE SEPARATORS

The majority of the equipment and/or plans is taken directly from the truck and set on the foundations.



3 SC TYPE MULTITUBE SEPARATORS - 130" # 600  
THK. 90 mm, 90 Ton each



3 SC TYPE MULTITUBE SEPARATORS - 130" # 600  
THK. 90 mm, 90 Ton each



2 SC TYPE MULTITUBE SEPARATORS - 39" # 600



3 SC TYPE MULTITUBE SEPARATORS - 96" # 600  
THK. 75 mm, 45 Ton each

## DRY GAS FILTERS

Upon Customer's request, Forain can take care of the packing of the ordered equipment or plants as well as their transportation to site.



2 GAS FILTERS FCV TYPE - 20" # 600



2 GAS FILTERS FCV TYPE - 34" # 600



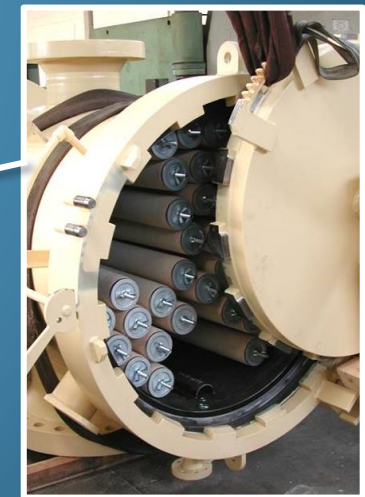
FCV TYPE - 34" # 600



2 GAS FILTERS FCV TYPE - 32" # 900

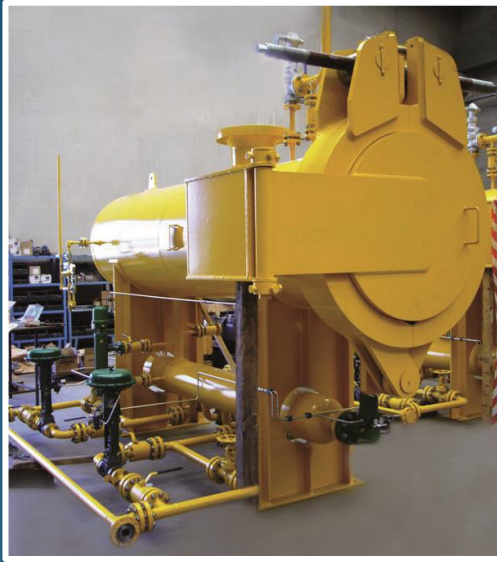


2 GAS FILTERS FCV TYPE - 39" # 600



FCV TYPE - 39" # 600

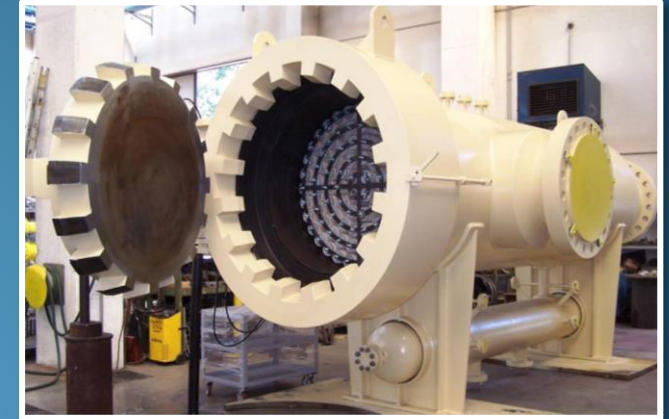
# FILTER SEPARATORS



FILTER SEPARATOR FSO TYPE - 36" # 600



FILTER SEPARATOR SCF TYPE - 63" # 600, THK 56 mm, 30 ton



FILTER SEPARATOR FSO TYPE - 60" # 900, THK 82 mm



ABSOLUTE SEPARATOR SA TYPE - 44" # 1500 RJ, THK 70 mm, 16 Ton



5 FILTER SEPARATORS SCF TYPE - 48" # 600



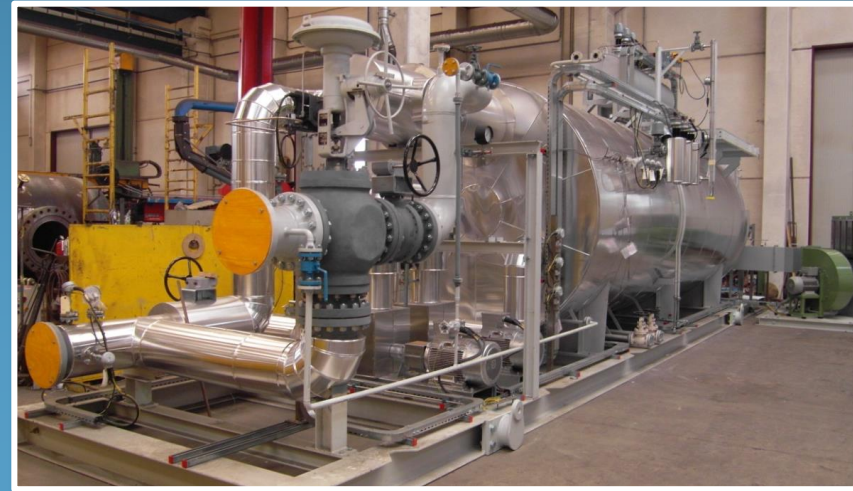
FILTER SEPARATOR FSO TYPE - 40" # 600

## WATER & OIL BATH HEATERS

Upon request, Forain can take care of the assembly and/or supervision on site by sending skilled workers and technicians.



3 NATURAL DRAFT WATER BATH HEATERS – 2.000.000 KCAL/h each



4 FORCED DRAFT OIL BATH HEATERS – 5.500.000 KCAL/h each  
OIL BATH TEMP. 220° C – OUTPUT GAS TEMP. 126.7° C



2 FORCED DRAFT WATER BATH HEATERS – 3.900.000 KCAL/h each



FORCED DRAFT OIL BATH HEATER - 4.500.000 KCAL/h  
OIL BATH TEMP. 275° C - OUTPUT GAS TEMP. 180° C



FORCED DRAFT OIL BATH HEATER  
4.500.000 KCAL/h

## HEAT EXCHANGERS & ELECTRIC HEATERS



2 HEAT EXCHANGERS BEU TYPE – DUTY 1.500 KW # 600 each



2 HEAT EXCHANGERS BFM TYPE – DUTY 787 KCAL/h # 600 each

Either the fabrication of small vessel or the assembly of a complex plant are carried out by skilled staff strictly conforming with what is prescribed in the Company Quality Control Manual. All products are subjected to the required inspections and tests.

For every control carried out, a certificate is issued, even if not witnessed by the Customer or by a third party.



ELECTRIC HEATER RE TYPE

220 KW # 300



ELECTRIC HEATER RE TYPE - 125 KW # 300

## PACKAGES: GAS PRESSURE REDUCING & METERING



PRESSURE REDUCING 48÷36 bar. FLOW 70.000 NM<sup>3</sup>/h, 14" PIPING



PRESSURE REDUCING 62÷20bar. FLOW 2.250 NM<sup>3</sup>/h, 3" PIPING



VOLUMETRIC METERING DN 10" # 300 RF

On skid mounted plants, all vessels and instruments are supported on the base, in order to provide simpler foundations. Connections to the plant are generally flanged, so minimizing staff intervention on field for the execution of welds, non-destructive tests and so on.



FISCAL METERING DN 14" # 600 RJ

## PACKAGES: FUEL GAS TREATMENT SYSTEMS



FIRST, SECOND AND THIRD STAGE SCRUBBERS PACKAGE FOR PROTECTION OF THE GAS COMPRESSOR



FUEL GAS TREATMENT SYSTEM FOR 750MW COMBINED CYCLE POWER PLANT



FUEL GAS PACKAGE FOR GAS INJECTION STATION # 300

# SCRAPER TRAPS



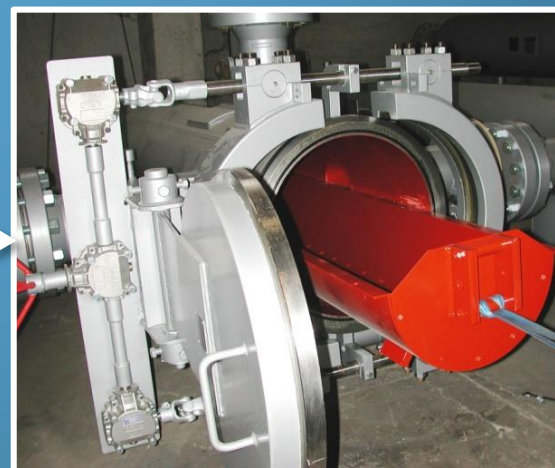
BIDIRECTIONAL TRAP 48" x 56" # 600



LAUNCHING TRAP 32" x 36" # 300



BIDIRECTIONAL TRAP 22" x 16" # 600



BIDIRECTIONAL TRAP 22" x 16" # 600

## QUICK OPENING CLOSURES



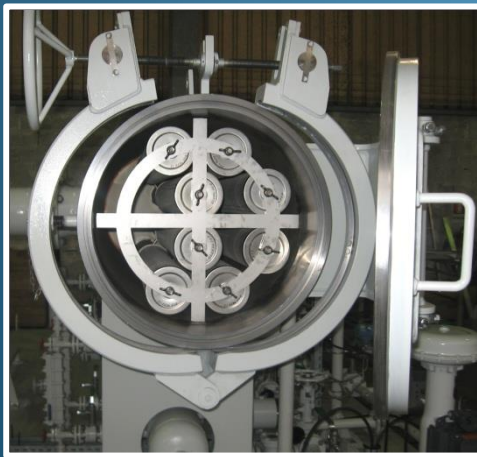
36" # 300 - THREADED TYPE



36" # 600 – HORIZONTAL "V" TYPE



18" # 300 – VERTICAL "V"-TYPE



34" # 150 – HORIZONTAL "V" TYPE

The quick opening closures (QOC) manufactured by Forain for medium and high pressures (up to 72") are made in the following models:

THREADED type - "V" type - SECTOR type

Forain's quick opening closures are manufactured according to the main international codes and are suitable for installation on filters, scraper traps, blowdowns, pressure vessels and many other applications. A pressure warning device prevents from opening the closures with the unit under pressure.



26" # 150 - SECTOR TYPE

BUREAU VERITAS  
Certification



### FORAIN SRL

Head Office and Operative Site:  
Via G. Boeri, 11 – 20141 MILANO (MI) - ITALY

Bureau Veritas Italia spa certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standard

**ISO 9001:2008**

Scope of certification

*TURN-*  
Design, supply and key plants of systems and components for fluid treatment of petrochemical industry.

EA Sector(s): 18,34

Certification cycle start date: 08 July 2014

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 29 October 2015

Original certification date: 31 July 1995

Certificate No. IT256000

Version N. 2 Revision date: 14 December 2014

*Carmela De Feo*  
CARMELA DE FEO - Technical Committee Coordinator

Certification body address:

Bureau Veritas Italia S.p.A., Via Miramare, 15 - 20126 Milano, Italia



Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please refer to the website [www.bureauveritas.it](http://www.bureauveritas.it)

Membre degli Accordi di Mutual Recognition EA e UKAS  
Signature of EA and UK Mutual Recognition Agreements

BUREAU VERITAS  
Certification



### FORAIN SRL

Head Office and Operative Site :  
VIA G.B. BOERI,11 - 20141 MILANO (MI) – Italy

Bureau Veritas Certification certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standards

**ISO 14001:2004**

Scope of certification

Trading, design, supply and turnkey assembly (outsourced) of systems and components for fluid treatment of petrochemical field.

Certification cycle start date: 15 May 2013

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 25 October 2015

Original certification date: 25 October 2012

Certificate No. IT256031/UK

Version N. Revision date: 09 July 2014

*Lodovico Jucker*  
LODOVICO JUCKER - Local Technical Manager

Certification body address:

Brandon House, 180 Borough High Street, London SE1 1LB, United Kingdom

Local office:

Bureau Veritas Italia S.p.A. - Divisione Certificazione -  
Via Miramare, 15 - 20126 Milano - ITALIA



Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call +39 02-270911

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**Forain**

Dear Sirs,

Forain, has been present in the oil and gas field since 1975.

Our production is well known and appreciated all over the world: we supplied equipment and plants to the five continents.

Forain is much appreciated for its reliability, due to strict compliance with a Quality System conforming to ISO 9000 Rules, as well as for its flexibility.

For any need you may have concerning gas treatment, metering and heating, please contact us. My staff and i will be glad to show you the best solution, both technically and economically.

Sincerely Yours,

FORAIN s.r.l.  
General Manager

**Forain**

## GENUINE SPARE PARTS

MAKE USE OF GENUINE FORAIN FILTER  
ELEMENTS FOR YOUR FILTERS, FILTER  
SEPARATORS, ABSOLUTE SEPARATORS  
ETC. TO GET:  
HIGH EFFICIENCY

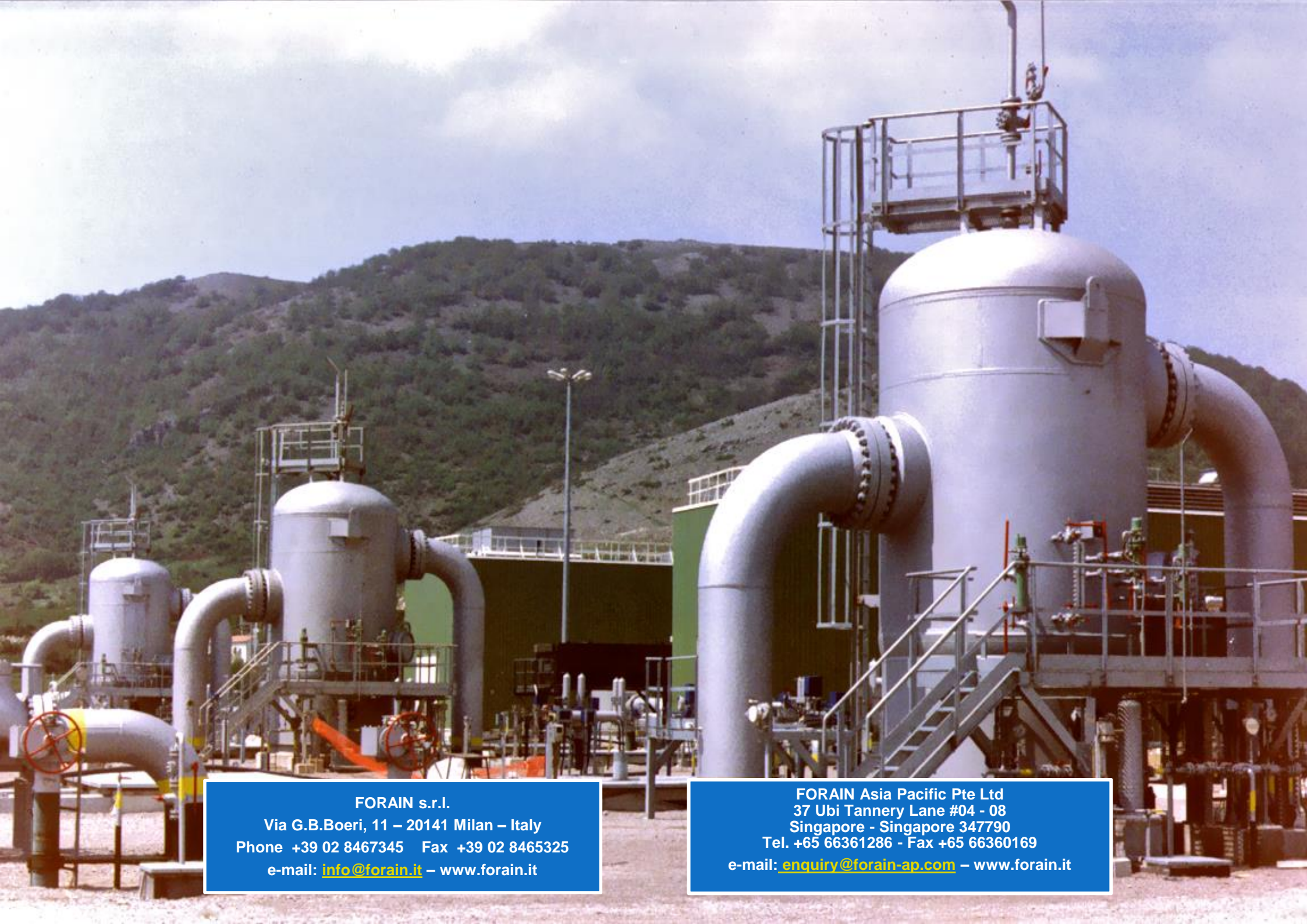
LOW PRESSURE DROP

LONG LASTING

CORRECT PERFORMANCE



 **Forain**



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e-mail: [enquiry@forain-ap.com](mailto:enquiry@forain-ap.com) – [www.forain.it](http://www.forain.it)