

Equipment Solution Group Colombia S.A



Soluciones Integrales

ESGCOL





1 - Perforación

Well Heads & Choke Valves: Oil & Gas

Manufacturer

Production
Chokes &
Well Heads

Extreme
Service
Chokes

Wellhead
Hydraulic
Control System
& Injection
Pumps

Skidded Units
for, Glycol,
IMethanolInhibit
or.

Compact
Manifold
Valves

Hydraulic –
Pneumatic –
Electric Local
Control Panel
for Valves.

BOP Testing
Units.

API 6A - ASME
CHOKE VALVES /
Flow Line
Accessories.



HYDROPNEUMATIC



Italy



2- Producción Oil & Gas

EPC Company

Gas Gathering and
Compression Station
– Gas Conditioning &
Transportation
Projects - Gas
Processing Plants.
Natural Gas
Conditioning &
Storage Process

Refinery Projects:
Topping Units –
Isomerization Units –
Catalytic Reforming
Units – Naphtha
Hydrotreatment Units
Hydrocracker Units –
Gasoline Trains.

Steam Generators
(HRSG) – Waste Heat
Boilers (WHB) &
Waste Heat Recovery
Units



 **NOVARGI**



Spain

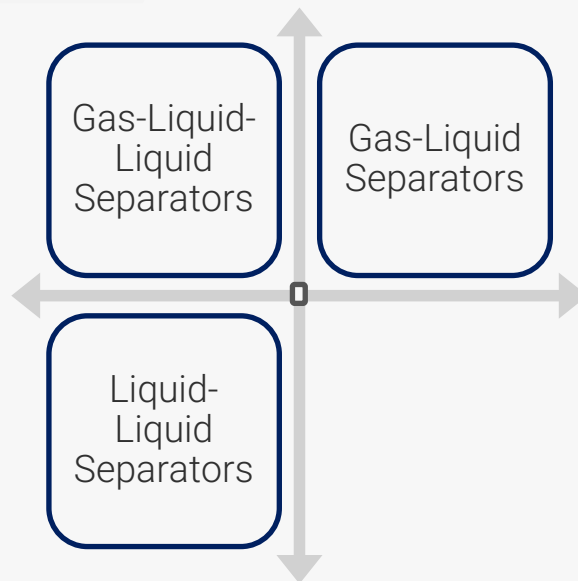
Producción Oil & Gas



Separation Technologies

Manufacturer

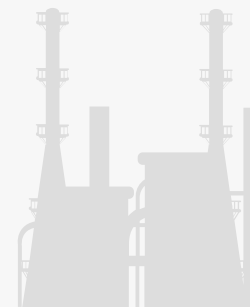
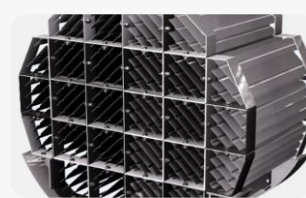
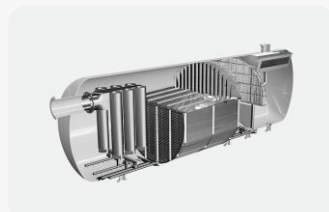
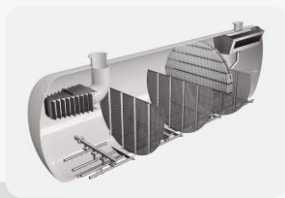
Computational Fluid Dynamics:



VIco**Costacurta**



Italy



Producción Oil & Gas



United States
of America



Tanks

Manufacturer



Storage Tank

Design, Construction & Assembly as per API 650 & API 620 Using the elevation by electromechanical equipment constructive method

Engineering

Group is structured in a matrix and multidisciplinary way to meet process, mechanical engineering, pipeline, civil engineering, Architecture, Structural, Electrical Engineering

3 - Tuberia Accesorios & Transporte



Manufacturer



Italy

Applications:

Hydrocarbons
Loading Arms -
Chemical Loading
Arms - LPG Loading
Arms - Hot Products
Loading Arms -
Food Sciences
Loading Arms



Tuberia Accesorios & Transporte



Pipelines & Accesorios

Manufacturer

UNI EN ISO 3834 – DNV
– PED - API 5L, 5LC,
5LD, 5CT, A671, Q1,
OHSAS 18001, ISO
14001

Applications:
Off-shore, On – Shore,
Oil & Gas transmission,
Inox Tech
Manufactures: St. St.
Duplex, Super duplex,
Nickel Alloys, Clad &
Others Exotic Materials.



SēAH



South Korea



Tuberia Accesorios & Transporte



Flexible Pipelines

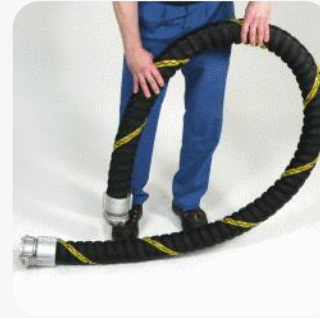
Manufacturer

Applications:

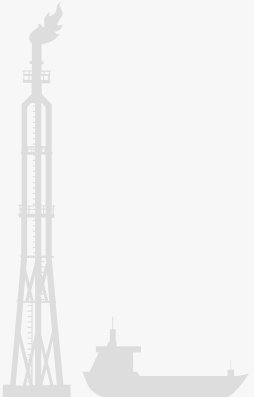
Crude Oil – LPG –
Natural Gas –
Steam – Petrol
Pump – Solvents
– Chemical –
Petrochemical –
Pharmaceutical

Products:

Rubber Expansion
Joints –
Couplings - Pipe
Couplings –
Swivels - Flexible
Pipe Line



Germany



Tuberia Accessorios & Transporte



Pipelines & Accessories

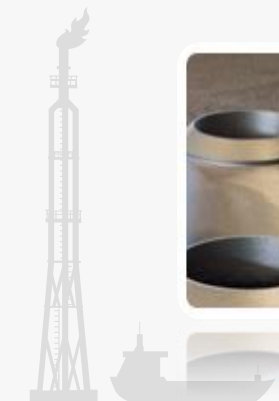
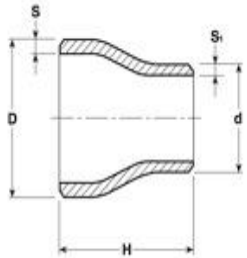
Manufacturer

Pipelines elbow /
Pipelines tees /
Caps / Bends /
Fittings

Carbon Steel
Stainless Steel /
Rating up to API
3000 / Concentric
& eccentric
reducer



Italy

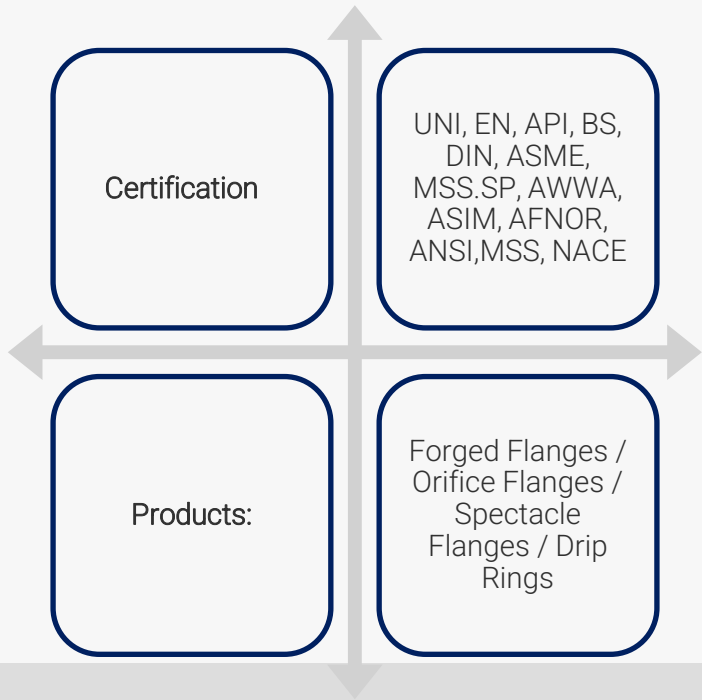


Tuberia Accessorios & Transporte

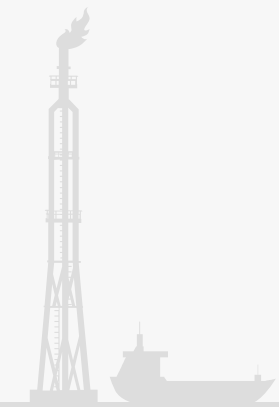


Pipelines & Accessories

Manufacturer



Italy

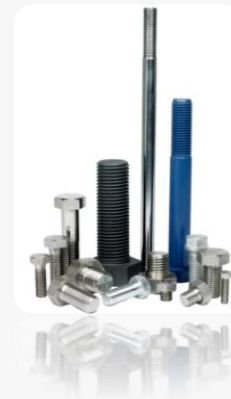


Tuberia Accesorios & Transporte

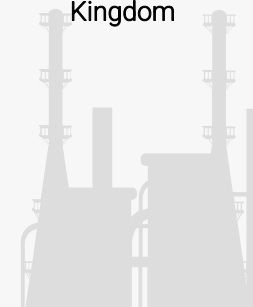


Studs & Nuts

Manufacturer



United Kingdom



Tuberia Accesorios & Transporte



Valves: Oil, Gas & Industries

Manufacturer

Certifications:
SIL 3 – TUV - ISO
9001-2008 – PED -
API 6A API 6D - API
6DSS - API 17D

Gate Valves:
Slab – Double
Expanding –
Flexible Wedge
– Through
Conduit.

Ball Valve: Top
Entry – Side
Entry - Fully
Welded – Rising
Stem.

Globe Valves /
Axial Flow Control
Valves / Sub Sea
Valves / LNG Ball
Valves / Choke
Valves

Check Valve:
Swing - Dual
Plate - Axial &
Nozzle.



Italy





Italy



Tuberia Accesorios & Transporte

Valves: Oil, Gas & Industries

Valvosider

Manufacturer

Manufacturer

Gate Valves /
Globe Valves /
Check Valves /
Strainers /
Valvosider –
Power / Stock
Materials

Certifications:

API 600-0200 /
API 594-0034 /
API 6D-0166 /
API 6A-0992 /
API 622 / API
624 / AD 2000 /
VDI 2440



ASME

150 ÷ 1500 LBS
NPS 2" ÷ 16"

DIN

PN 6 ÷ 250
DN 15 ÷ 400



ASME

150 ÷ 2500 LBS
NPS 2" ÷ 48"

DIN

PN 6 ÷ 420
DN 50 ÷ 1200



ASME

150 ÷ 1500 LBS
NPS 2" ÷ 24"

DIN

PN 6 ÷ 250
DN 50 ÷ 600



ASME

150 ÷ 1500 LBS
NPS 2" ÷ 42"

DIN

PN 6 ÷ 320
DN 50 ÷ 1050



ASME

150 ÷ 2500 LBS
NPS 2" ÷ 48"

DIN

PN 6 ÷ 420
DN 50 ÷ 1200

DN 20 ÷ 1300

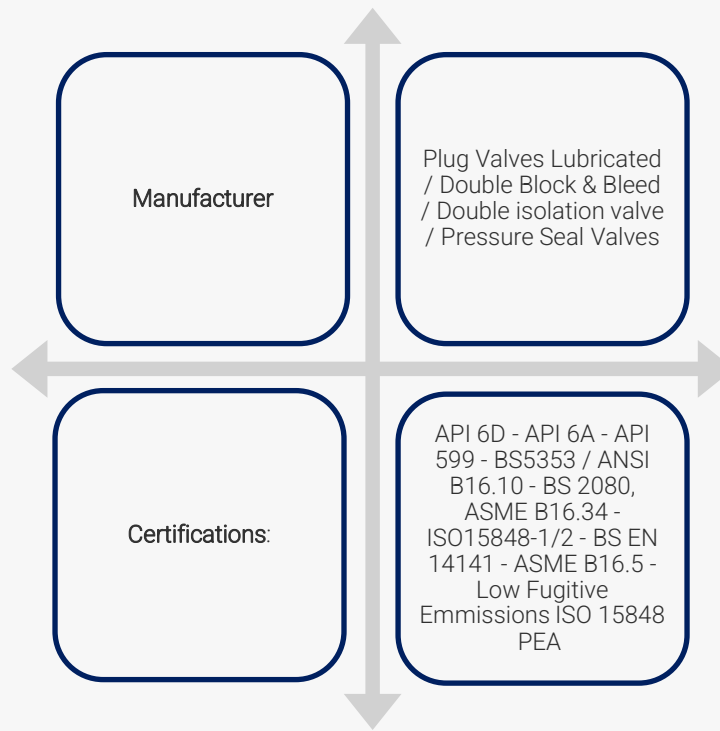
PN 6 ÷ 450

DIN

Tuberia Accesorios & Transporte

Plug Valves: Gas, Oil & Industries

Manufacturer



GALLI & CASSINA
Plus Valves
SINCE 1919



Italy



Tuberia Accesorios & Transporte



API 608 Ball Valves

Manufacturer

 C.V.L. Valvole a sfera

Monoblock
Ball type
Valves

Split body
Ball Valves

Certification:
API - 608

Sizes from ½'
up to 6'

Needle
Valves

Ratings 150 -
300 - 600 - 800
- 1500 - 2500 -
4500 - 6000 &
API 1000 -
15000



Italy



Tuberia Accesorios & Transporte



Valves: Oil & Gas, Industries

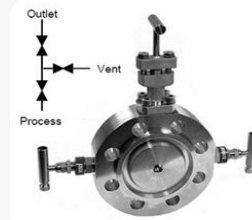
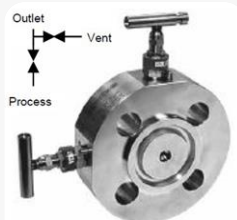
Manufacturer

Needle Valves &
Manifolds / Double
Block & Bleed
Valves /

Monoflange Valves
/ Monoblock Valves

Calibration
Equipment /
Positioners

Injection/Sampling
DBB / API
Monoflanges



 **Budenberg**

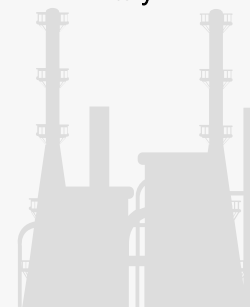


United
Kingdom

Tuberia Accesorios & Transporte



Italy



API 602 Valves: Gate, Check & Globe

Manufacturer

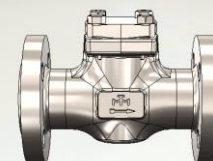
Gate Valve /
Globe Valve /
Check Valve /
Piston Check
Valve / Swing
Check Valves

Classes: 150 -
300 - 600 - 800 -
1500 - 2500 -
4500 / API 10000
- API 15000 / API -
602

Sizes: From 1/4' to
4'

Ends: Socket
Welding: ASME B16.11 /
N.P.T: ASME B1.20.1 /
Butt Welding: ASME
B16.5 / Integrally
Flanged: ASME B16.10 &
ASME B16.5 Special
clamp

Execution:
Bolted & Welded bonnet
- Pressure seal - Reduce
& Full port, Bellows seal -
Cryogenic



Tuberia Accesorios & Transporte



PSV Valves: Oil, Gas & Industries

Manufacturer

9100

Flanged



8100

Threaded



1400

Series



9500

Pilot Operated



Flanged and
threaded inlet form
1' to 8

PSV Spring
operated valves /
PSV Pilot operated
valves / Pressure
ranges 15-2400
psi and 3000-
8700 psi.

Excel spreadsheet
sizing applications
to help choose the
right valve for the
job. / Weather
caps

Bleed rings /
Rupture discs and
holders



United States
of America

4- Refinación y Petroquímica

Refineria y Petroquímica

Manufacturer



Products:

Reactors / Shell &
Tube Heat
Exchangers /
Columns & Towers
/ Methanol
Converter

Hydrocracking
Reactor / Sulphur
Recovery Units /
Steam Condenser
/ High Pressure
Vessels

H₂S Column
Stripper /
Combustion
Chamber / Casing
for turbine



Italy

Refinación y Petroquímica



STRACK PHONIX

Manufacturer



Germany

Gate – Globe –
Piston – Swing
Check & Plug
Valves.

For HF – ACID
SERVICE & UOP
SPECIFICATION

ALKYLATION
VALVES

Body Material
Carbon Steel –
Monel – Sealing
Surface PTFE –
Stem Sealing
Monel Sleeve –
RF, RTJ, SW & TE



Armaturenwerke GmbH

5- Industria Energetica y Medio Ambiente

EPC COMPANY



Pig launching and
Receiving Traps -
Gas pressure
Reducing Station and
Control Units - Skid
Mounted Gas,
Filtering Regulation,
Metering

Oil/Water
Separators (2 or 3
Phase) - Nitrogen
Production Systems
- Glycol Dehydration
Units

Heating Systems -
LNG - LPG Plants. -
Odorizing Units

Filters - LAC Units &
City Gas Stations

 **NOVARGI**



Spain

Industria Energética y Medio Ambiente



Manufacturer

Mobile: Refueling
Tanks - Tank for
Fuel Electricity
Generations and
Heating Use

Transportable:
Steel: For Diesel
Fuel/Gasoline In
Polyethylene:
Fuel Dispenser
Units

Underground:
Single & Double
Skinned Tank
Fuel Dispenser
Units;
Management
System

AdBlue: Above
Ground in
Polyethylene
AdBlue
Dispenser Fuel
Dispenser Units



 **Righetto**
SERBATOI



Italy

6- Automatización



DVG Company Automation

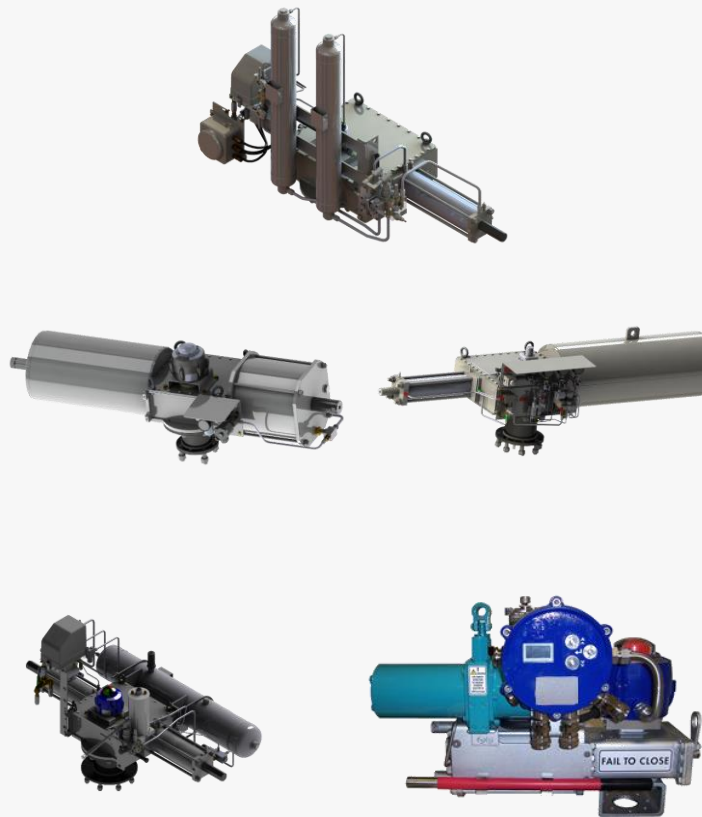
Manufacturer

Control Instruments:

Limit Switch Box –
Electronic Smart Valve
Controller – Partial Stroke
Device – Valve Monitoring
– Self Contained – Double
Pressure Switch – Quick
Exhaust – Volume
Booster & Filter Regulator
Unit.

Actuators System Type:

Pneumatic – Gas Over Oil
– Direct Gas – Hydraulic
– Electro Hydraulic
Compact – Linear
Hydraulic & Helical Slot
Mechanism



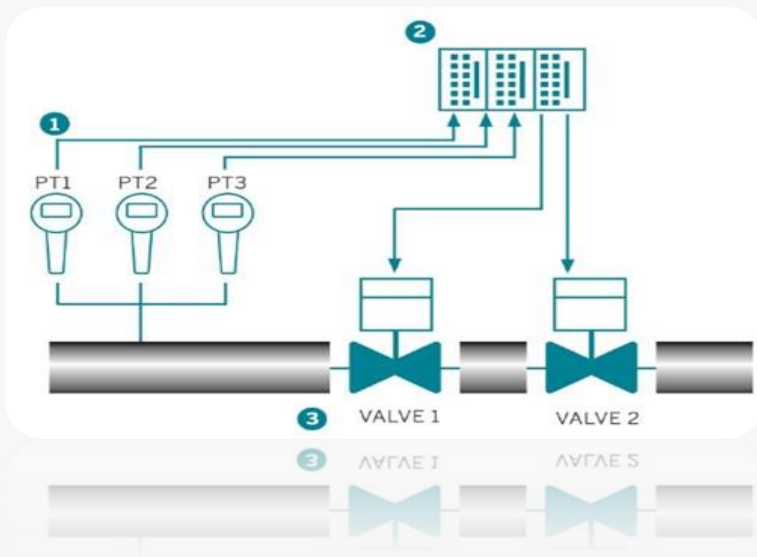
Italy





7- Energias Alternativas

High Integrity Pressure Protection System (HIPPS)



1. INITIATORS

The elements measuring the (over) pressure.

2. LOGIC SOLVER

Safety system that receives the signals from the initiators, performs the required logics and drives the final elements.

3. FINAL ELEMENTS

On/Off valves provided with actuators, solenoids and limit switches. Typically valves close to isolate the dangerous pressure source and protect the downstream lines.

downstream lines:
pressure source and protect the
to isolate the dangerous

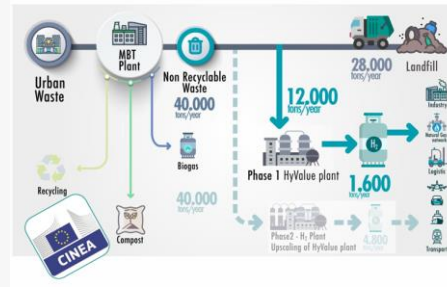
Energias Alternativas



EPC Company

Hydrogen Systems Plant

Green Energy: Grey & Blue Hydrogen – Dynamic Green Ammonia Production Modular Plants – Methanol Production Units – Energy Transition Projects: Recover the Biogenic Co2 coming from Biogas PowerPlant to produce Methanol employing renewable Hydrogen. Hydrogen for Industrial uses, Capture of Co2 – Synthetic Hydrocarbons



Spain



Gracias Thank You !

