### **OP POWER**

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Our Commitment: THE EXCELLENCE.

Our People Make the Difference.

### ENGINEERING, DESIGN AND SUPPLY OF INDUSTRIAL EQUIPMENT FOR THE OPTIMIZATION OF PROCESSES IN ENERGY, OIL AND GAS, AND INDUSTRIAL APPLICATIONS.

Engineering and Design of:

- O Storage Tank, Boiler, Heat Exchanger, and Pressure Vessel Systems.
- O Cooling and/or Heating Systems.
- O Flow Control and Regulation Systems.

- Water Management Systems.
- O Air and Gas Management Systems.
- Special Systems.

### Low pressure gas High pressure gas Low pressure liquid High pressure liquid High pressure liquid Rupture Diec Repuller Repull

## Cooling System for Power Generation I. Cooling System for Power Generation I.

# Biogas Storage and Treatment System. Low presure gas High pressure gas Hot value Low Low Johnson Column Local value Local val

### Systems and Technologies for the Management of Venting Gas.

### **RESOLUTION 40066 of 2022.**

Beginning in February 2024, the Energy and Mines Ministery of Colombia will regulate the deliberate venting of natural gas to the atmosphere during the hydrocarbon exploration and production activities.



- 1) Storage Tank Protection with Pipeline Discharge.
  Pressure Vacuum relief valves with discharge flange to release gases piped away.
- ② Gas Natural Storage. Gas Storage through the use of double flexible membranes systems, that guarantee zero gases emissions and allow the visibility of produced gas.
- ③ Vapor Recovery Unit.
  Capture and compression of gases equipment from storage tanks emissions.
- 4) Gas Temperature Conditioning. Gases quality increase (Liquid Phase and Vapor Phase proportion) reducing the temperature and favoring the liquids condensation.
- (5) Treatment Gas Plants.

  System developed to remove sulfur (H2S),
  Carbon Dioxide (CO2), to increase quality
  standards required in the gas.
- (i) Membranes Gas Treatment.

  Technology to remove gas pollutants, through a separation process of selective membranes.
- Power Generation Unit.
  Electric power generation with the use of the venting gases from storage tanks.
- 3 Gas Efficient Burning. Gas Flares to the controlled, safe and efficient natural gas combustion, reducing the environmental impact of the exhausted gases.

### **Service Engineering OP POWER - ISOP.**

- P Storage tank protection systems.
- Heat exchanger tube testing.
- P Steam traps.
- Pressure vacuum relief valves.
- Emergency relief valves.
- Gas blanketing and back pressure regulators.
- Testing in test bench.
- P Heat exchanger tube plugging.

INSTALLATION. STARTUP.

- Water pump systems.
- Gas/Air compression systems.
- Pipeline systems.
- Assessment of cooling and refrigeration technologies.
- Valve automation.
- Cooling towers reconstruction and maintenance.
- Solutions for noise pollution problems.
- Pressure tests.

### **OP POWER Systems.**

### A. Storage Tank, Boiler, Heat Exchanger, and Pressure Vessel Systems:

### Protection:

Pressure vacuum valves.

Emergency relief valves.

Blanket gas regulators.

Back pressure regulators.

Flame arresters.

Detonation arresters.

Gauge hatch.

Rupture discs. Vent panels.

Safety valves.

Pilot operated valves.

Surge relief valves.

Thermal relief valves.

Vacuum breaker.

Air release valves. Emergency shut-off valves.

Emergency shutdown valves.

Emergency blowdown valves.

Heat exchanger tube plugging system.

Vent silencers.

### Level Measurement:

Magnetic level gauges.

Float and tape level gauges.

### Gas Management:

Gas cleaning unit.

Vapor recovery unit.

Flare unit.

### Liquid Management:

API 675 metering pumps.
API 685 canned motor centrifugal pumps.

API 610 centrifugal pumps.

High pressure process pumps.

Rotary positive displacement pumps.

### **B.** Cooling and/or Heating Systems:

Air cooled steam condensers.

API air cooled heat exchangers.

Cooling towers.

Fluid coolers.

Ammonia chillers.

Water chillers.

Shell and tube heat exchangers.

Thermal fluid heaters.

Vapor condensers.

Coil heaters.

Immersion heaters.

Suction heaters.

Waste heat recovery.

### C. Flow Control And Regulation Systems:

Globe control valves.

Axial control valves.

Axial check valves. Blowdown valves.

On-Off ball Valves.

On-Off axial valves.

Choke valves. Check valves.

Hydraulic control valves.

Pressure reducing regulators.

Back pressure regulators.

Steam traps.

Pneumatic rotary actuators.

Pneumatic linear actuators.

Electro-Hydraulic actuators. Hydraulic actuators.

### D. Water Management Systems:

Vertical turbine pump.

Submersible pump.

NFPA Fire fighting pump. Pressure control valve.

Pressure relief valve.

Water hammer control valve.

### E. Air and Gas Management Systems:

Gas compressor package.

Gas blower package.

Gas filtration unit.

Indirect water bath heater.

Flare unit.

Biogas burner.

### F. Special Systems:

Chemical injection packages.

Odorizing systems.

Hydrogen generator.

Nitrogen generator.

Membrane fuel gas conditioning.

### OP POWER is exclusive Representative in Colombia of:

































### **Customers.** Some of our principal customers: Power epm® enel Metro Gas @eaav CELSIA TERMOVALLE Oil and Gas eoulon GEOPARK Bio D GranTierra O ecopetrol BIOSC cenit ॐ MS Group OXY PEGSA 狐 ho**col** MORELCO Pacific SierraCol energy ROYAL wood. Tecpetrol Chemical and Petrochemical **ABOCOL** Ajover BRENNTAG Carbo Ouímic CONQUIMICA G Algranel **Almacol** Invesa pPG esenttia monómeros **Oiltanking** enka VARA Quimpac 7 TERQUIM Sucroal Sucroal Vopak Food and Beverage nutresa 🖺 Team 5 C.I. Farmar S.A. Manuelita **Pharmaceutical** MESSER<sup>⊕</sup> BAYER CRYOGAS FRESENIUS MEDICAL CARE Genfac. **Pfizer PRAXAIR** Schering-Plough **Industrial Process** INDU-TAN-PAS entro Aguas EXTRACTORA EL ESTERO 🦀 aliar. STOTECS **← Haceb** PROPAL ÖNDONEDO SA ESP. P&G **PAPROTELA** NOVATIO summum VECOL Smurfit Kappa South and Central America CBH DIRISA Empresa Petrolera del Itsmo S.A DESPROYCO N FLOWSERVE Ę 665 ICA MECO Quimpac 4 **LAFAR** VALVEC SUPPLY Team 5 **%** SCMI Velstand 🚜





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