



# Superior Pipeline Solutions



A **CIRCOR** International Company

# Sagebrush Pipeline Equipment

## History

Since 1961, Sagebrush has provided world class shop-fabricated measurement and mechanical systems to the oil and gas pipeline transmission industry. Beginning with pipeline strainers and valve stem extensions, Sagebrush has grown to a full service turnkey engineered systems provider.

In 2006, Sagebrush was acquired by CIRCOR International and became part of the Energy Products Group, allowing the company to expand to meet the growing demands of both domestic and international markets.

With over 200,000 square feet of industrial facilities, today's Sagebrush is fully capable of meeting the increasingly complex requirements of its ever widening customer base. Our experienced team of professionals is dedicated to working closely with our customers to provide the most cost-effective, highest quality solutions. From site design, to measurement systems, to pipeline engineering, our years of experience ensure we deliver the right solution on time, every time.

## A Quality Solution Provider

Sagebrush Pipeline Equipment Company is dedicated to providing cost-effective engineering solutions for challenges facing the oil and gas industry today. Sagebrush has many years of experience in successfully addressing a variety of challenges involving site design, pipeline transmission and metering. Our solutions result in improved operations and considerable short-term and long-term savings in time and money. Sagebrush solutions cover the full spectrum of gas pipeline measurement.

## Skid Mounted Systems

At Sagebrush, we understand that field construction carries inherent schedule risk from weather delays, equipment, manpower, and other factors. By fabricating skid-mounted systems in-house, Sagebrush provides a clean, safe, climate-controlled environment which takes the risk out of the project schedule while delivering consistently high quality systems faster than field-built options.

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# Capabilities

Sagebrush provides a complete range of expertise in oil and gas pipeline engineering applications. Our expertise includes:

## Measurement Systems

- Ultrasonic Meter Skid
- Electronic Gas/Fuel Measurements Building
- Gas Chromatograph/RTU Building
- Valve/Flow Control Valve Skid
- Ultrasonic Meter Run
- Orifice Meter Run
- Orifice Meter Skid
- Headers
- Inter-connect Piping
- Hot Taps

## Pipeline Fabrication

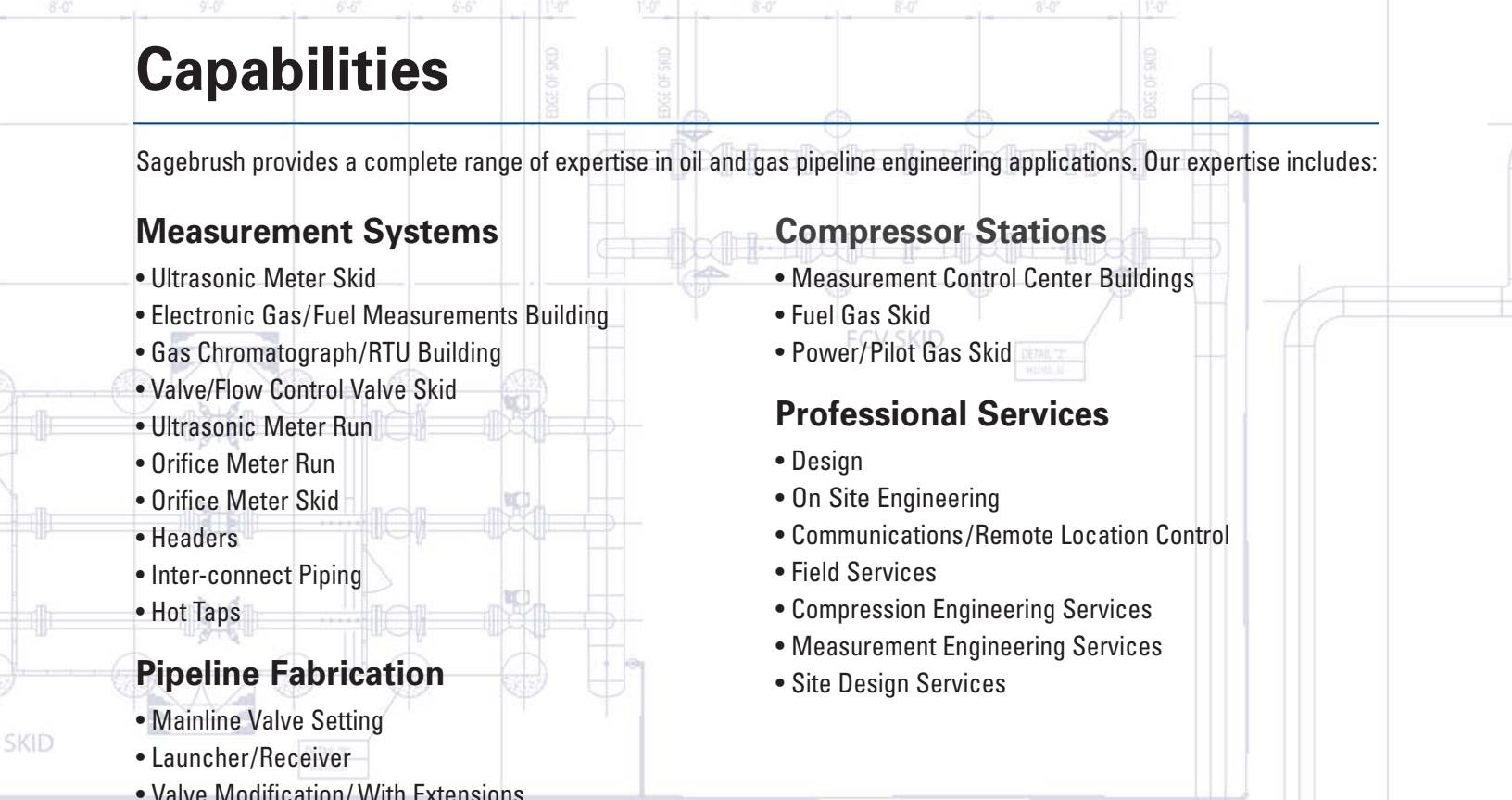
- Mainline Valve Setting
- Launcher/Receiver
- Valve Modification/With Extensions
- Valve Modification/Without Extensions
- Stem Extenders

## Compressor Stations

- Measurement Control Center Buildings
- Fuel Gas Skid
- Power/Pilot Gas Skid

## Professional Services

- Design
- On Site Engineering
- Communications/Remote Location Control
- Field Services
- Compression Engineering Services
- Measurement Engineering Services
- Site Design Services



# Measurement Systems

Sagebrush fabricates gas and liquid measurement skids to customer specification and all applicable codes. Sagebrush will fabricate using orifice fittings, ultrasonic meters, turbine meters, positive displacement meters, or any equipment required to assure accurate measurement of your product. From single to dual meter runs to complete skid mounted systems with buildings and all necessary instrumentation, Sagebrush delivers with quality equipment to meet your needs.

- Ultrasonic Meter Skid
- Orifice Meter Skid
- Flow Control/SCADA
- Valve Switching
- Inter-connect Piping



# Pipeline Fabrication

## Launchers and Receivers

Sagebrush fabricates custom or standard launchers and receivers in any size, with or without automation. The automated system may be pneumatic, electrical or hydraulic, and is operated with programmable logic control panels, which increase operator safety and reduce field labor expenses.

## Valve Settings and Modifications

Sagebrush provides prefabricated valve settings, which have a faster turn around time reducing field installation time. We can fabricate to your specification and dimensions, coated and ready to install.

## Headers

Headers function as a pulsation damper to help distribute the gas flow evenly between the meters, as well as to reduce velocity prior to the meter tube. At Sagebrush we design the header configuration that best reduces the pulsation in the system.

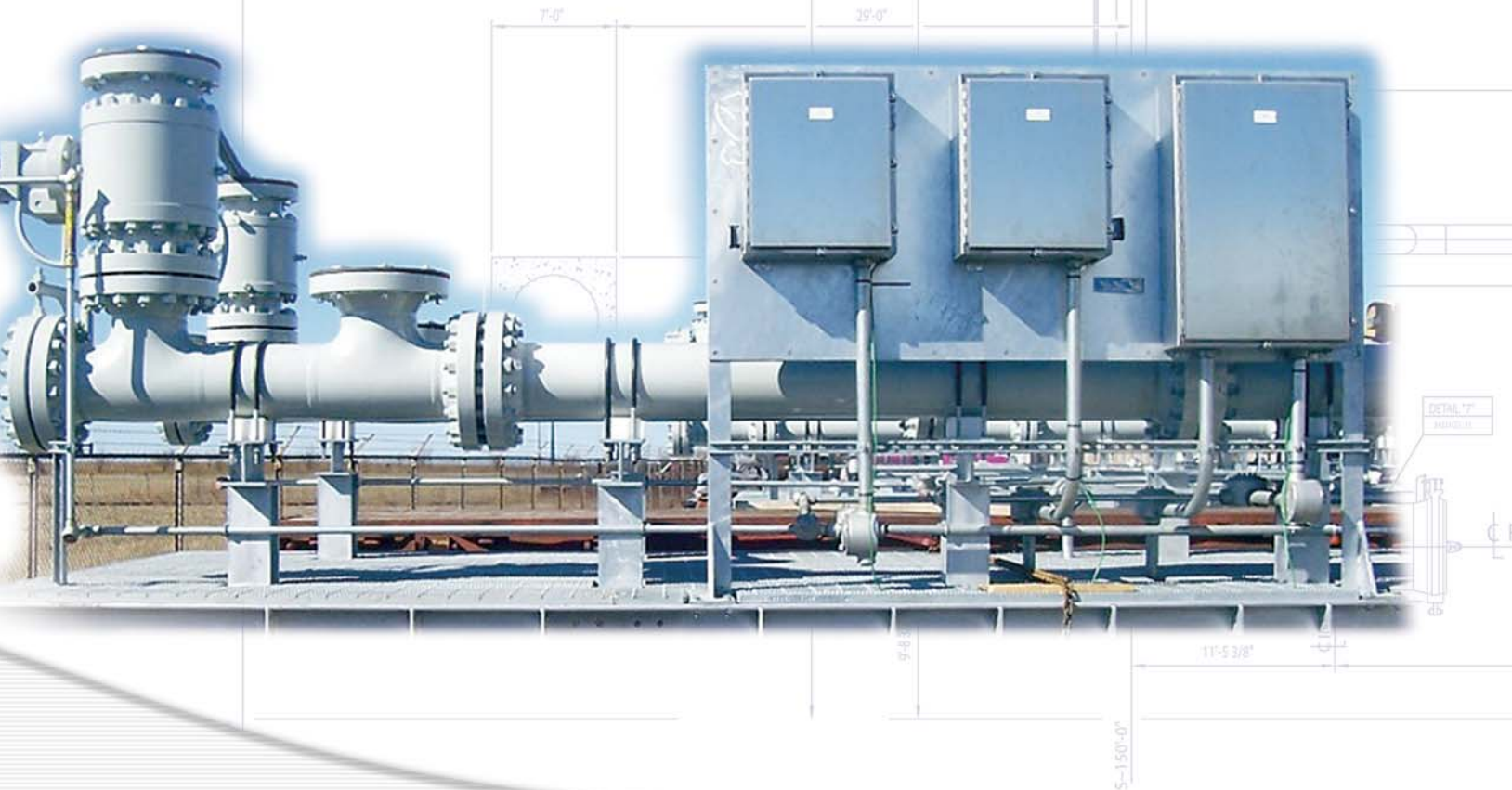


# Compressor Stations

Natural gas is highly pressurized as it travels through an interstate pipeline. To ensure that the natural gas flowing through any one pipeline remains pressurized, compression of this natural gas is required periodically. You can rely on Sagebrush's extensive knowledge in both design and fabrication of compressor stations.

## Measurement Control Center Buildings

In order to manage the natural gas that enters the pipeline, and to ensure customers timely delivery of gas, sophisticated control systems are required to monitor gas as it travels through the pipeline. Centralized gas control stations/buildings are built to collect, assimilate, and manage data received from monitoring and compressor stations all along the pipe. These systems also work in real-time allowing the engineers to know what is happening along the pipeline so that they can take the necessary actions to ensure safety and product delivery to their clients. Sagebrush has the expertise to design or assist you with your design and control.



# Services, Processes, Materials and Codes

## Professional Services

At Sagebrush we offer our clients a host of services including design and programming for communication and control, and onsite construction management.

- Design
- On Site Engineering
- Communications/Remote Location Control
- Field Services
- Compression Engineering Services
- Measurement Engineering Services
- Site Design Services



## Processes, Materials and Codes

### Processes

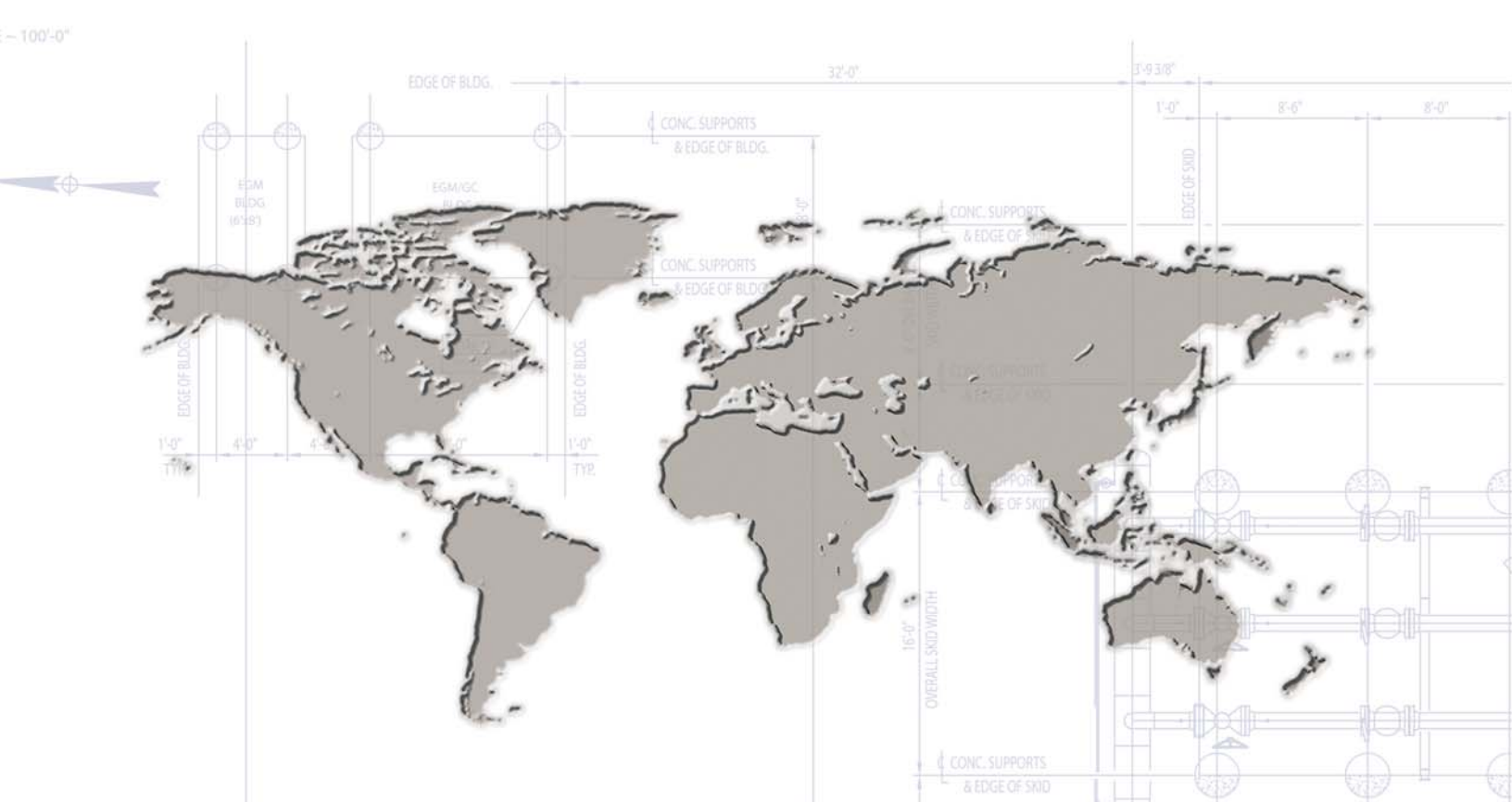
- GMAW (Mig)
- GTAW (Tig)
- SMAW (Stick)
- SAW (Subarc)
- FCAW (Fluxcore)

### Materials

- Carbon Steel
- Stainless Steel

### Codes

- ASME Sec VII
- API 1104
- AGA 9 (Ultrasonic)
- AGA 7 (Turbine)
- AGA 11 (Coriolis)
- AGA 14.3 (Orifice Plate)
- NEC
- CSA
- DOT
- ANSI B31.1
- ANSI B31.3
- ANSI B31.4
- ANSI B31.8



Sagebrush, a Circor International Company, reaches into every corner of the globe serving the oil & gas and industrial marketplace.

Supplying an extensive range of product offerings through a worldwide network of manufacturer representatives and distributors, Sagebrush is the right choice for all your pipeline needs.

#### World Headquarters

Sagebrush Pipeline Equipment Company

8100 New Sapulpa Road

Tulsa, OK 74131 USA

Phone: (918) 551-5600

Toll Free: (800) 224-1272

Fax: (918) 224-8452

E-mail: [sagebrushsales@circorenergy.com](mailto:sagebrushsales@circorenergy.com)

[www.circorenergy.com/sagebrush](http://www.circorenergy.com/sagebrush)



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