FAB INDUSTRIES



Fab Industries, Inc. · Houston, Texas · Since 1982

MEASUREMENT EQUIPMENT FOR OIL & GAS

Meter Skids, Regulator Skids, LACT Units, launchers and receivers, meter tubes and meter runs, and Orifice meter repair, fabricated and serviced in Houston.

FABRICATION / REPAIR / FIELD SERVICE

fabindustriesinc.com

FOUNDED IN HOUSTON IN 1982

OUR STORY

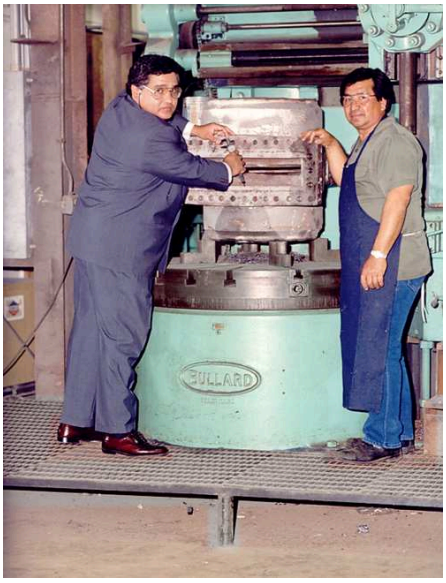
Fab Industries was founded in Houston in 1982 by Mike Gonzales and his wife, Bridget, as the oil bust of the 1980s was taking hold. While others were scrapping equipment, they saw a better way: give it a second life. Their business began by refurbishing Daniel Senior Orifice meters, saving customers money without sacrificing the quality of new.

Fab's first big break came from Chevron, which needed oilfield equipment and didn't know where to find it. Mike knew just the right people, and that first job gave Fab the start it needed. Before long, ExxonMobil took notice of the quality coming out of this young shop and became a partner that helped Fab grow into the company it is today.

Kinder Morgan came along early too. They came to sell some old equipment, and Mike offered to rebuild it instead, for a fraction of the cost of new. That grew into a long-running program in which Fab rebuilt and stored Kinder Morgan's equipment until it was needed, a partnership that continues today.

That same practical thinking has carried Fab for more than four decades. As measurement and oil and gas technology have changed, Fab has grown with them, adding new and rebuilt metering packages, Regulator Skids, launchers and receivers, and other piping products. We also keep a deep stock of meter parts from 2" to 12" and service meters on site for customers around the world.

> **Fab is small enough to stay quick and personal, and big enough to take on the large projects.**



Mike Gonzales and his brother Jesse



Three generations of the Gonzales family



ABOUT US

BUILT IN HOUSTON SINCE 1982.

Since 1982, Fab Industries, Inc. has fabricated oil and gas measurement equipment at 6322 Long Dr. in Houston, Texas, and shipped it worldwide.

We build Meter Skids, Regulator Skids, LACT Units, Orifice meter tubes, meter runs, and launchers and receivers. We supply parts, repair kits, flow computers, and instrumentation, so a project can leave our yard as a complete, turnkey metering package.

Our machine shop repairs and rebuilds Orifice meters of all makes, and our crews provide in-plant service, field service, and 24-hour service across the Gulf Coast region.

CUSTOMERS INCLUDE

Kinder Morgan · ExxonMobil · Chevron

Solar Turbines · Siemens · NASA

Along with energy and pipeline companies, Fab also serves aerospace and food service customers.



In our community, Fab supports FFA, 4-H, youth sports teams, and Special Olympics.

PRODUCTS

WHAT WE BUILD



METER SKIDS

Meter Skids built around the meter technology that fits your application:

- Orifice
- Ultrasonic
- Coriolis
- Turbine
- Positive Displacement
- Vortex
- Venturi

Other meter types, such as magnetic or cone meters, on request.

fabindustriesinc.com/meter-skids/

REGULATOR SKIDS

Regulator Skids fabricated, assembled and tested in our Houston shop to your specification, on their own or as part of a complete metering package.

fabindustriesinc.com/regulator-skids/

LACT UNITS

Lease automatic custody transfer units fabricated, assembled and tested in our Houston shop to your design.

fabindustriesinc.com/lact-units/

LAUNCHERS & RECEIVERS

Pipeline pig launchers and receivers fabricated, assembled and tested in our Houston shop, from single traps to matched launcher and receiver sets.

fabindustriesinc.com/launchers-receivers/

CUSTOM FABRICATION

Machining, welding, assembly and testing, built to your drawings and specifications. Large projects welcome.

fabindustriesinc.com/custom-fabrication/

ORIFICE METER TUBES & METER RUNS

AGA 3 Orifice meter tubes fabricated in our Houston shop, plus Ultrasonic, Coriolis, Turbine, and Venturi meter runs.

fabindustriesinc.com/aga-3-orifice-meter-tubes/

PARTS & REPAIR KITS

A deep stock of meter parts from 2" to 12", plus parts and repair kits to keep meters and fittings in service.

COMPLETE TURNKEY METERING PACKAGES

We fabricate the meter run, build the skid around it, and supply the flow computers and instrumentation, so you get one complete package from one shop.





SERVICES

REPAIRS, RECERTIFICATION & TUNE-UPS









REPAIRS

Repairs in the field or in our Houston shop, with fast turnaround.

- Orifice fitting repair & rebuild
- Meter tube repair
- Weld overlay and machining
- In-house hydrostatic testing

fabindustriesinc.com/repairs/

RECERTIFICATION & UPGRADES

Older Orifice meters cleaned, inspected and checked against the latest edition of AGA Report No. 3, Part 2 (API MPMS 14.3.2), then upgraded where needed.

- Written AGA inspection report after the evaluation
- Upgrades to the latest AGA requirements
- In-house hydrostatic testing

fabindustriesinc.com/meter-recertification-upgrades/

TUNE-UP

Orifice meters and fittings taken apart, refreshed and returned to like-new working condition.

- Complete disassembly and cleaning
- Needed parts and all gaskets replaced
- Regreased and reassembled

fabindustriesinc.com/meter-tune-up/

ORIFICE METERS OF ALL MAKES

We repair Orifice meters of all makes, including:

DANIEL | PECO | FMC | SURE SHOT | CANALTA

FIELD SERVICE

Fab crews provide field service at your site, with 24-hour service across the Gulf Coast region.

PARTS & REPAIR KITS

Parts and repair kits are available for your own crews, from our stock of meter parts from 2" to 12".

FAST DELIVERY

Parts, repairs, and fabricated equipment delivered fast, and shipped worldwide.

24-HOUR SERVICE · GULF COAST REGION 713-748-0799 · 800-227-6944

METER SKIDS AT A GLANCE

ONE SKID, MANY WAYS TO MEASURE

The right meter depends on the fluid, the flow range, how much pressure drop the system can afford, and how much room there is on the skid. Here is how each technology works and where it fits best.

ORIFICE

A differential-pressure meter: a plate with a precisely bored opening, held in an Orifice fitting or between flanges in a meter tube, creates a pressure drop used to calculate flow. A cost-effective, well-understood workhorse of natural gas measurement with no moving parts.

CORIOLIS

Measures mass flow directly. Flow through vibrating tubes makes them twist slightly, and sensors read that twist as mass flow; the vibration frequency also indicates density. Not affected by flow profile, so it fits compact skids. Generally offered in smaller line sizes.

POSITIVE DISPLACEMENT

Measures volume directly. Internal gears, pistons, or vanes trap and pass a fixed volume each cycle. Handles viscous liquids well and is a common choice for liquid custody transfer of crude oil and other liquid hydrocarbons.

VENTURI

A differential-pressure meter built as a pipe section that narrows to a throat and widens again. Offers the simplicity of differential-pressure measurement with much lower permanent pressure loss than an Orifice plate.

ULTRASONIC

A full-bore spool with pairs of transducers. Sound pulses traveling with the flow arrive slightly sooner than those against it; that time difference gives gas velocity. Suited to high-volume, high-pressure dry gas, with very wide rangeability and essentially no pressure drop.

TURBINE

A velocity meter: flow turns a bladed rotor whose speed is proportional to flow, and a pickup counts blade pulses as volume. A moderate-cost choice for clean, steady gas or liquid service; usable range in gas improves as line pressure rises.

VORTEX

A shedder bar across the flow sheds vortices from alternating sides at a rate proportional to velocity. No moving parts and a simple inline installation for clean liquid, gas, or steam service with steady flow.

OTHER METER TYPES

Need a different technology, such as a magnetic or cone meter? We can build around other meter types on request, and supply the flow computers and instrumentation for a turnkey package.

METER	MEASURES	PRESSURE LOSS	STRAIGHT RUN	MOVING PARTS / UPKEEP	TYPICAL FIT
Orifice	Volume, from differential pressure	Higher	Long meter tube or flow conditioner	None; plate and tube inspection	Cost-effective, proven gas measurement
Ultrasonic	Volume, from sound transit time	Essentially none	Required	None; built-in diagnostics	High-volume, high-pressure dry gas
Coriolis	Mass, directly	Higher	Not required	None; periodic zero checks	Mass measurement in smaller lines
Turbine	Volume, from rotor speed	Moderate	Short, with integral conditioning	Rotor and bearings; flow calibration	Clean, steady gas or liquid
Positive Displacement	Volume, in fixed increments	Moderate to higher	Little or none	Internal moving parts; periodic maintenance	Liquid custody transfer
Vortex	Volume, from vortex frequency	Moderate	Required	None; avoid pipe vibration	Clean liquid, gas, or steam
Venturi	Volume, from differential pressure	Lower than Orifice	Required; less than Orifice	None	DP measurement with lower pressure loss

General guidance only. Actual performance depends on the specific meter, line size, fluid, and operating conditions. More detail: fabindustriesinc.com/meter-skids/



REQUEST A QUOTE

TELL US WHAT YOU NEED

Send your specifications and our team will put together a quote for your Meter Skid, Regulator Skid, LACT Unit, meter run, parts, or repair.

REQUEST A QUOTE · fabindustriesinc.com/contact/

SALES & QUOTES

sales@fabindustriesinc.com

PHONE

713-748-0799
800-227-6944 toll-free
713-454-1163 fax

GENERAL INQUIRIES

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SHOP & YARD

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FAB INDUSTRIES

SINCE 1982 · SHIPS WORLDWIDE
fabindustriesinc.com