

Automatic Sampling System

for Refined and Intermediate Product

US Patent Pending



Oil and Gas Process Solutions Automatic Refined Product Sampling System draws a representative sample of hydrocarbon products for use in determining the composition and quality of the product.

When combined with a metered quantity, sampling results can be used to calculate the product volume for process control, allocations, and financial transactions.

OAG-PS engineers and builds custom Programmable Automatic Sampling Systems (PASS) for a wide variety of liquid petroleum products.

Our Sampling Systems are unique because they utilize a precision electric servo pump. The all-electric sample pump ensures a consistent sample size every stroke, without the worry of line pressure, pneumatic or hydraulic pressure. The servo cylinder is adjustable for accurate control of variable sample grabs ranging in size from 1 to 75 cc.

Applications:

- Designed specifically for refined and intermediate products (Gasoline, Jet fuel, Kerosene, Diesel, Fuel oil, Naphtha, Reformate, Gas oils, Transmix, etc.)
- Fast loop installation

Features:

- Pneumatic, hydraulic, or all electric configurations available
- Variable sample grab size
 - Programmable from 1 cc to 75 cc per stroke
 - Software configurable
 - Quickly reconfigurable for different flow rates or batch sizes
- Scalable design, configurable from 1 to 16 sample vessels per unit
- Automated purge system to prevent cross contamination between batches
- Customizable operation, easily adaptable for any application
- Intelligent self diagnostics
- Class I Div 1 Hazardous Area Classification
- Meets all API MPMS Chapter 8.2 Requirements for Automatic Sampling

Optional Features:

- System can be configured with various on-line analytical equipment including:
 - Densitometers
 - BS&W / Water cut meters
 - Optical interface detection
 - Flow meters to ensure proper fast loop performance
- Local controls for manual operation
- Weigh scale system for real-time verification of system operation
- System can be controlled by external source (Control room, flow computer, PLC, etc.) or can be fully autonomous
- Can be installed in a sampling building or in a stand-alone cabinet



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Uses	Fast Loop - Refined & Intermediate Products
Electric Sample Pump	Precision Servo Controlled
Sample Size	Variable up to 75 cc with standard pump Programmable Index Grab sizes (ex: 10, 15, 25, 50 cc etc...)
Pulse Input	Simulates pneumatic solenoid sequence
Inputs & Output	Analog and/or digital
Communication Methods	Contact us with your requirements
Diagnostics	Custom Options Available - Contact us with your requirements
Valving Control Options	All electric, offering the lowest maintenance trouble free operation pneumatic and hydraulic valve operators available as well
System Integration	Can be configured to work with existing PLC or can operate autonomously with on board PLC
Scales for Sample Collection	Optional
Pressure	Standard: Up to ANSI 600# service Optional: Consult the factory for higher pressure options
Input Voltage	Standard: 115-230 VAC Optional: 3 phase and DC
Hazardous Area Use	Class I Div 1
Sample Retention Vessels	We can customize our systems to work with most any container you choose



Contact Us Today to Discuss Your Sampling Needs

Oil & Gas Process Solutions LLC
 3342 East Wier Ave
 Phoenix, AZ 85040 USA
 P: +1.602.368.2010 - F: +1.602.926.0286
 E: sales@oag-ps.com - www.oag-ps.com