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

Oil and Gas Process Solutions LLC • P: +1.602.368.2010 • E: sales@oag-ps.com • www.oag-ps.com
### 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