

## PASS - Programmable Automatic Sampling System Patent-Pending

Automatic Sampling 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.

Oil & Gas Process Solutions (OAG-PS) engineers and builds custom Programmable Automatic Sampling Systems (PASS) for a variety of liquid petroleum products. Our refined product sampling systems are configured for fast loops.

OAG-PS's Sampling Systems are unique because they utilize a electric servo pump eliminating the need for a pneumatic system. The servo cylinder is adjustable for accurate control of variable sample grabs ranging in size from 1 to 75 cc. Bypass sampling has never been more efficient.

For enhanced performance, optional instrumentation such as densitometers, viscometers, water detectors, etc., can be added creating a customized combined sampling and analysis package that provides continuous analytical measurement and sampling.

Contact us with your sampling requirements and we will engineer a custom sampling package designed specifically to meet your needs.

### Applications:

- Refined Products - Fast Loop

### Features:

- Electric versus pneumatic pumping system
- Variable grab size (1 to 75 cc)
- Programmable servo inputs and outputs
- Optional self diagnostics
- Optional scales to reinforce system operation

### Advantages:

- Electric versus pneumatic pumping system
- No pneumatic system maintenance needed
- Accuracy over a wide range of fluids
- Low measurement uncertainty



Pictured above is the PASS for refined products, designed to be compliant with API's MPMS Chapter 8.2.

# PASS - Programmable Automatic Sampling System

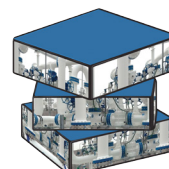
Patent-Pending

Uses	Fast Loop - Refined Product
Electric Sample Pump	Servo controlled
Sample Size	Variable up to 75 cc with Standard pump Programable 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	Pneumatic Hydraulic Electric
System Integration	Programable for existing PLC Can be purchased with optional PLC Controller
Scales for Sample Verification	Optional
Pressure	Std system design up to ANSI 300 High Pressure Models: ANSI 600
Input Voltage	115-230 VAC Optional: 3 phase and DC

For further technical details, please contact:

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



**OIL & GAS**  
P R O C E S S  
S O L U T I O N S