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PGS INTERNATIONAL  
**Solutions™**

Truck Loading System

www.pgsintl.com





## One-Stop Solution

PGS provides state-of-the-art truck loading systems relying on highly qualified and experienced multidisciplinary team, innovative technologies and world class expert partners.

The basic system module includes the entire measuring section from the supply line inlet connection to the air purger systems required by Weights & Measures regulations and ends at the control valve exit or, optionally, at the top or bottom loading arm.

## Benefits

- Skid mounted modular design with minimal footprint.
- Support of up to 6 loading arms per module array.
- Typical operating ranges from 250 L/min to 2,500 L/min.
- Designed for bottom, top and swing arm loading applications.
- Advanced support for additional blending streams.
- Cost savings through factory assembly and easy to install standardized modular design.
- Options for individual configurations.
- Full factory flow and functionality testing providing fault-free start up.
- Comes with all approvals and certificates.
- ISO certified production.

## All loading systems comprised of :

- A perfect design on the basis of large range of flow Meters as well as production processes that are entirely controlled, from the first concept to the on-schedule turnkey delivery to the customer.
- Complete functional tests on typical operating conditions conducted at our in-house testing facilities where the results can be validated by the local organizations of Weights & Measures regulations.
- Consultancy and outstanding customer service through our engineering and field team. Our expertise coupled with reliable services makes Petrogas the preferred business partner for multiple customers and end-users.

## Core Components

- 1 Preset Controller type Smith Meter microLoad.net or Accuload IV  
These load controllers control single multiple arms store and document the entire loading procedure. They communicate via various interfaces, e.g. an Ethernet interface. By means of this interface it is possible to connect to virtually every PC.

- 2 Manual call point : as part of the emergency shutdown system.

- 3 Card Reader : The hazardous area approved card readers and approved cards are non-contact, proximity devices and permit a secure identification of users, vehicles or customers.



- 4 Overfill Prevention/Grounding Unit : Overfill detectors are connected to prevent the truck from being overloaded. Since the loaded products are flammable, a grounding device is connected to eliminate the possibility of static discharge.

- 5 Vapor Recovery Arm : For Bottom loading method, the truck is not vented to the atmosphere which require to purge the vapor phase in the truck as it is both hazardous and valuable. Therefore, typically the truck will connect to a vapor recovery hose prior to loading. The new incoming product pushes the vapors to the top of the truck and out the hose to the vapor recovery system for processing.

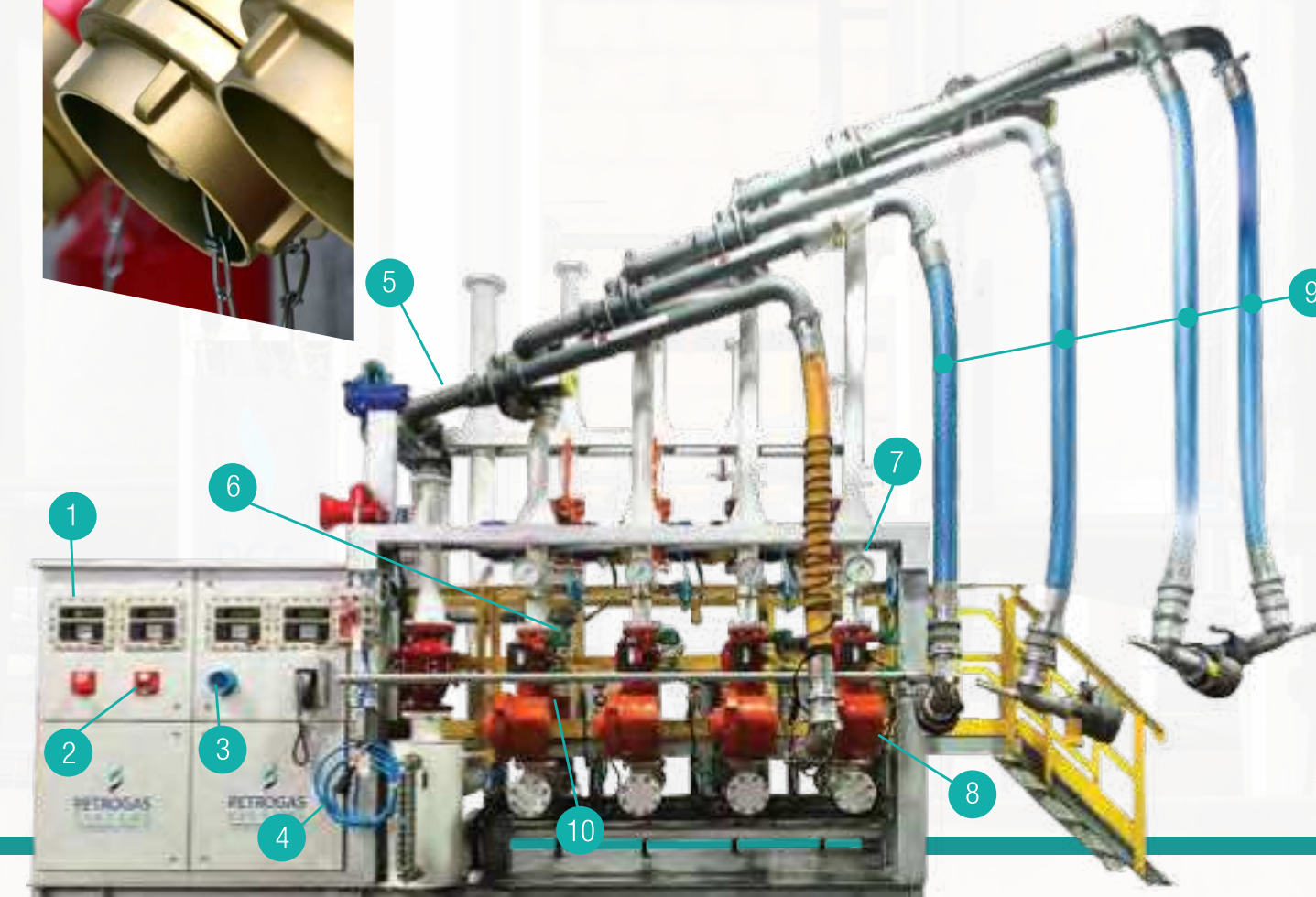
- 6 Digital Flow Control Valve : This hydraulic valve is equipped with solenoid valves and is digitally controlled by the load controller, precisely adjusting to every flow rate necessary.

- 7 Temperature sensor

- 8 Flow Meter : This measurement element is a high-precision flow meter which contains an integrated pulse output.  
The metering technologies can be Positive displacement meter, Turbine meter or Coriolis meter depending the application.

- 9 Loading Arms : Can be top or bottom arms in a variety of styles, configurations and sizes. PGS provide a complete range of loading arms to suit each specific requirement.

- 10 Air Purger / Strainer : The air release is equipped with a controlled float valve and a strainer.



## Metering Technologies



PD Meter



Turbine Flow Meter