



# Superior Energy Systems

SUPERIOR DESIGN, SUPERIOR QUALITY, SUPERIOR SERVICE  
Why settle for anything less?



## Complete Dispensing Systems

In addition to dispensers, we custom design and manufacture complete propane autogas dispensing systems which include one or multiple dispensers, skid mounted tanks of various sizes and all of the necessary components needed to begin fueling.



Above ground vertical tank installation



Above ground horizontal tank installation



Below ground tank installation

### Tanks

- Tanks manufactured for its intended purpose
- All connections close to the cabinet
- Cuts down on distances and potential leak points
- Container filling connections purposely located on opposite end of the container away from the point of transfer

### Internal Valve

- Threaded directly into the container
- Provides means for mechanical, thermal and remote emergency closure
- Incorporates excess flow technology
- Fusible element not to exceed 250°F
- Pneumatic or cable operated

### Service Valve

- Located in several places within the piping system to isolate or provide backup containment of the product

### MID:COM Register

- Boot incorporates a switch that automatically shuts off pump and completes the transaction when nozzle is hung up
- Lockout timer will shut off pump if no fuel flow in 30 seconds

### Piping and Strainer

- Schedule 80 (A106 piping)
- Forged carbon steel fittings (2000 WOG)
- Strainer—Keeps foreign material out of the product going to the pump

### Flex Connector

- Protects the piping system from the effects of vibration and possible settling
- Stainless steel braided

### Pump Differential Bypass

- Protects the pump from effects of overpressure
- Allows adjustment to create differential pressure
- The heart of the pumping system

### Excess Flow Valve

- Protects container from unintentional release should downstream line break
- Slugs by differential pressure or GPM flowing
- Even if valve sheers off, the operator would remain in the container
- Note—additional positive shutoff valve

### Hoses

- Manufactured for intended service
- 350 psig WP; 1750 psig burst
- Perforated (will not burst)
- Pressure tested by manufacturer at 120% of WP
- Tagged by manufacturer
- Must be marked appropriately
- NFPA 58 requirement
- Available length of up to 18 feet
- Breakaway valve separates at approximately 80 pounds force

MIDSTREAM

INDUSTRIAL

AUTOGAS

### Nozzles

Gas Guard—Low emission

- Less than 4cc
- 1¼" ACME



### Remote Shutoff Locations

- Remote emergency shutoff required at least 3 feet from point of transfer
- Provides mechanical means of closure
- Additional electrical disconnect required at building not less than 20' nor more than 100' from the cabinet
- Both propane and electrical shutoff locations required to be readily visible from point of transfer by appropriate signage
- Provides protection for cabinet and piping system should vehicle pull away

### Hydrostatic Relief Valve

- Protects liquid system and piping from the effects of overpressure due to liquid expansion
- Installed anywhere in piping where liquid may be trapped between two positive shutoff valves

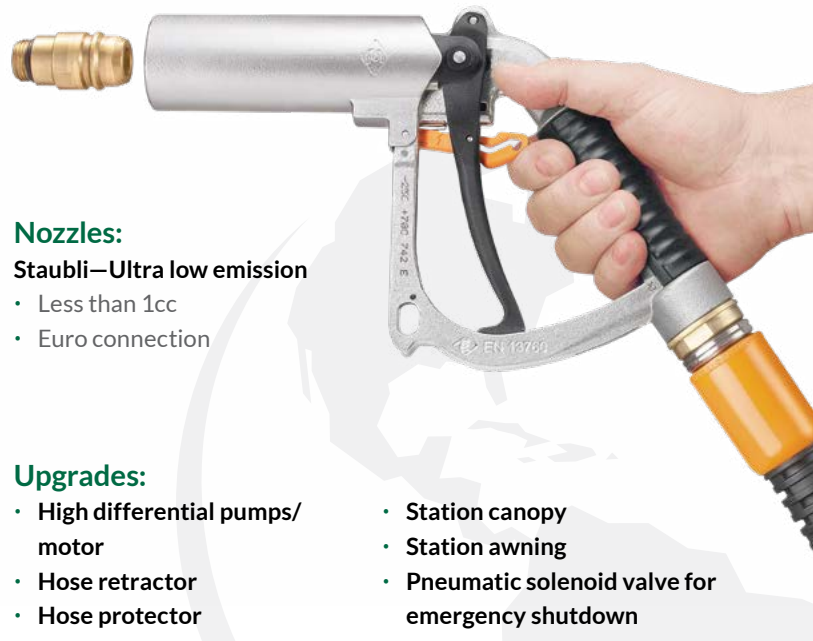


## Upgrades and Options

### Filters:

#### Donaldson particulate or carbon filters (upgrade)

SES now recommends the Donaldson Clean LPG Filter be added to every dispensing system we sell. Propane (LPG) can become contaminated as it travels from the refinery, through pipelines, to bulk storage and finally to your on-site storage tank. The Donaldson filter is highly efficient and removes 99% of harmful particulates 0.5 micron and larger.



### Nozzles:

#### Staubli—Ultra low emission

- Less than 1cc
- Euro connection

### Upgrades:

- High differential pumps/ motor
- Hose retractor
- Hose protector
- Station canopy
- Station awning
- Pneumatic solenoid valve for emergency shutdown