



**UNASSISTED
SINGLE or MULTIPLE
Additive Injection**

**Model 1400
(300-1500 GPM)**

Model 1400 Designed for...BULK REFUELING and associated HIGH GPM rates

The **Model 1400** can deliver up to 4 additives as an option (1 standard). The **1400** offers precision injection of additives meeting the requirements of fill stands, terminals and pipeline systems.

As with all fluid-*power* units, no outside power source is necessary. The flow of the fuel provides all the necessary energy to run the additive injection process.

As with all Hammonds systems, the **1400** can be custom-built and installed to meet the particular needs of our clients.

The **Model 1400** is a completely self-contained unit that offers totally unassisted injection. Product meters and pulsers are not required allowing a simple and economical installation that provides the customer with guaranteed precision blending of their additive every time.

-MODEL 1400 STATS-

Model	Product Flow Range BPH /GPM	PPM Injection Range	Product Piping Size
1400	420-2,150 BPH/300-1,500 GPM	<1 - 4,000 PPM	6" - 10"

model **1400**

Terminal and Pipeline Additive Injection

Custom-Built and Installed
to meet the specific requirements
of our clients

**Fluid
power**

Flow of the Fuel powers the Injector.
NO OUTSIDE POWER SOURCE NECESSARY

PROPORTION to FLOW Additive Blending

As with all Hammonds Fluid-Power Injectors and Injection Systems, the flow of the fuel is the only power source that is necessary. No outside source is required. Because the injector is powered by the flow of fuel, a constant and accurate additive to fuel ratio is maintained. Faster fuel flow results in more additive being injected, and conversely, slower flow results in less additive being injected. This ensures that the correct injection to fuel rate remains in place throughout the process. In addition, the flow of fuel provides a blending of fuel to additive that is always even, accurate and thorough. Additive is never injected by "slugs" or "pulses" like some systems.

Hammonds[®]

Fluidpower

3-YEAR WARRANTY

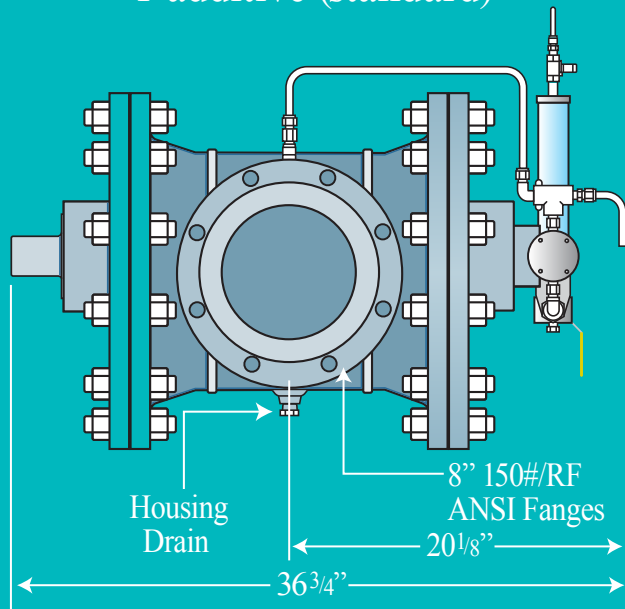
Ask a Hammonds' Rep about our Extendable 3-Year warranty

INNOVATION—pure and simple

Hammonds[®]

6807 West Little York Road • Houston, Texas 77040 • (800) 582-4224

Delivers up to 4 additives simultaneously,
1 additive (standard)



Simple, economical installation

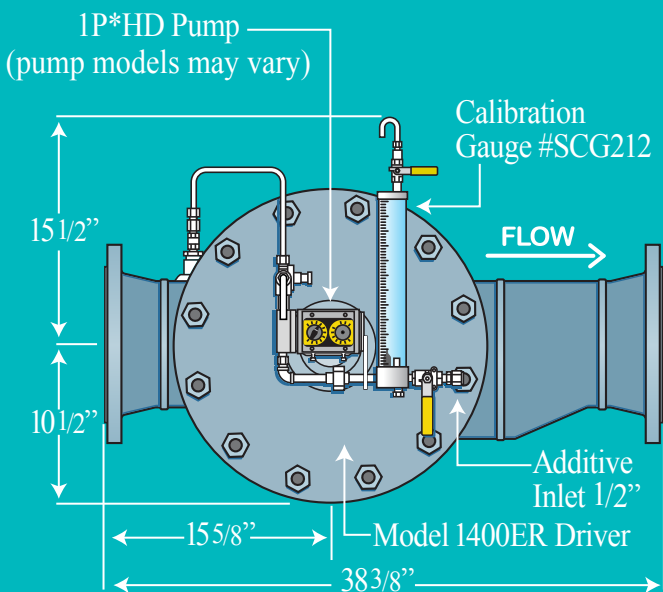
model **1400**

Terminal and Pipeline Additive Injection

Precision Additive Blending
at high GPM flow rates...

**Fluid
power**

Flow of the Fuel powers the Injector.
NO OUTSIDE POWER SOURCE NECESSARY



Designed for the high GPM rates
associated with BULK REFUELING

SPECIFICATIONS

- Flooded suction required
- Number of Additives: 1 Standard, up to 4 optional
- 8" 150# RF Flanges connection standard (other connections available, consult factory for details)
- Injection Ratios: 0-4000 ppm depending upon application
- 300-1500 gpm continuous operation
- Product Temperature Range: -40°F to 120°F (-40°C to +50°C)
- Product line working pressure: 150 class flanges 285 psi at 100°F
- Product Viscosities: up to 10,000 ssy
- Fuels, Oils, Additives and Liquid Gases
- Duty Cycle: Intermittent

CONSTRUCTION MATERIALS

- Carbon Steel fabrication or optional stainless steel
- Metering Pump: All wetted parts 300 series stainless steel
- Elastomers: Aflas®, Viton®, and Teflon®; other elastomers available upon request
- Mechanical Seal: Carbon on Ceramic, optional Tungsten on Carbon

Over **11,000** Systems Installed –WORLDWIDE–

INNOVATION—pure and simple



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