

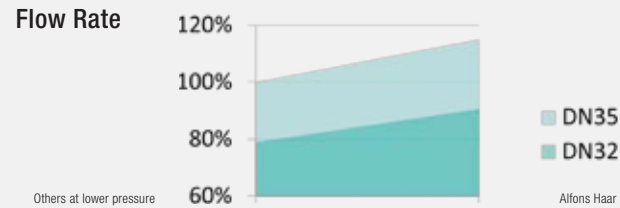
# MOBILE FUEL PUMP EQUIPMENT

- ✓ *Whisper quiet operation*
- ✓ *Best in class reliability*
- ✓ *Up to 43% lighter*
- ✓ *Up to 51% smaller*
- ✓ *Flow rates from 200 - 4,000 lpm*

**PUMP**  
**HAARDER**



# Self priming vane pumps



- 15% faster hose flow rates possible
- On average 30% more pump energy for the same diesel consumption



## FPDV-60 Series (PTO-FIT)

Ideal for hose reel deliveries or AV-GAS refuelling

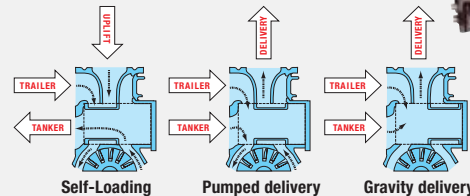
- Direct PTO coupling eliminates prop shaft and RISK
- Up to 600 lpm
- Controllable up to 10 bar for increased throughput with thinner hoses
- Excellent blow-down for line change and hose drain
- 19 kg – lowest system weight in class
- Smallest in class
- Thermal protection for PTO disengagement



## FPO-65-600 OR 80-700

Powerful for bulk fuel and hose reel deliveries

- Over 950 lpm for superior bulk delivery speed
- Controllable up to 10 bar for increased throughput with thinner hoses
- Excellent blow-down for line change and hose drain
- Weight from as light as 27 kg
- Thermal protection for PTO disengagement

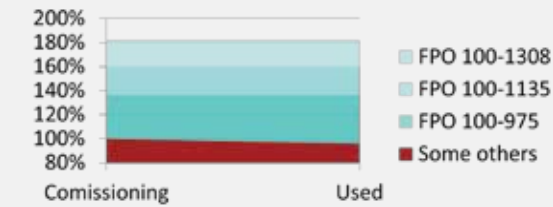


## Truck-FIT

The original pump for tankers using draw-bar trailers

- Far less piping and separate valves
- Over 1,000 lpm for superior transfer and delivery speed
- **Integral Multi-Way Valve** manually or delivery controller managed

# Fast and best-in-class longevity



- Substantial bulk delivery time saving possible
- Consistent lifecycle performance



## FPO 100-975, 100-1135 or 100-1308

Famous for reliable speedy pumping of larger volumes

- Also available with high efficiency hydraulic motors
- CH option for chemical and ethanol applications
- Configurable up to 1,200, 1,400 or over 1,600 lpm
- Weight from as light as 49kg
- Controllable integrated pressure limiting bypass
- Single sided inlet and outlet allows pipe less installation



## FPQ 150

Top performance for largest aircraft refuelling

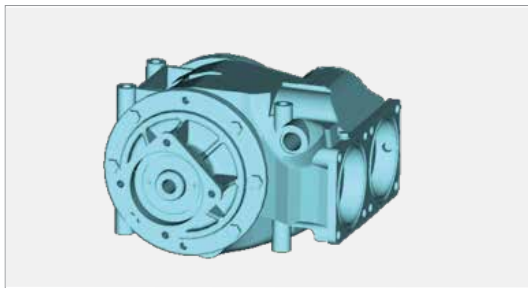
- Also available with high efficiency hydraulic motors
- Up to 4,000 lpm
- Controllable integrated pressure limiting bypass



## Pre-assembled stationary e-motor pump units

Efficient and good for equipment standardisation

- Integrated pressure-limiting bypass
- Efficient vane pump technology
- Ideal for bulk depots



## Since 1949

*German precision, engineered and built by the world's finest fuel transfer equipment engineers.*

*Globally respected leader in mobile fuel pumping and metering equipment.*

*Talk to us today about your fuel pumping application.*

*Once you try a Haar pump, you'll agree: '...we pump Haar-der!'*

## PreciPURE

- Manifold system integrated pump
- Automatic Tanker discharge
- No Jumper Hose required; enables safer and faster operation
- Mixture of in parallel delivery methods are possible
- Gravity discharge
- Integrated pump discharge
- Bulk and clean dry line meter or unmetered delivery
- Hose reel delivery
- Cross over prevention (COP) option
- Sealed parcel delivery (SPD) option
- Optional DTMQ for quality & quantity assurance

**Alfons Haar pumps are significantly smaller than most competitors' at equivalent flow rates, almost half the size of some, and half the weight and faster than other pumps currently on the market.**

With a choice of bare shaft (for electrical motor or shaft drives), hydraulically driven or direct mount versions, Alfons Haar has possibly the widest range of vane pumps available for fuel transfer.

**The following features are just some of the reasons why only a Haar pump will do:**

- Specifically designed for mobile applications: slim profile and 3-sided mount bosses offer flexible mounting options
- Single sided fuel ports enable integration with less or even zero piping
- Innovative pneumatic bypass provides complete operator control of the system and provides pressure "on-demand"
- Haar pumps are designed to rotate faster, suiting modern engines which prefer a higher idle rate
- Computer designed, optimised for improved flow dynamics and energy efficiency
- Auto PTO shutoff if temperature becomes elevated during standby idling
- Multiple vanes provides great suction capability and can provide effective "blow-down" of delivery hoses at the end of the delivery to empty the hoses (blows up to 0.8 bar of air)

