

Waterous has you covered with Total Integration - a comprehensive program that ensures fire departments have everything needed from specification to implementation. Total Integration guarantees the right equipment, proper installation, thorough education and lifetime support with zero exceptions. **EVALUATE PROPOSE IMPLEMENT ORIENTATE SUPPORT** 

# WATEROUS

### VEHICLE-MOUNTED TWO-STAGE CMU FIRE PUMP

### Discharge Valve



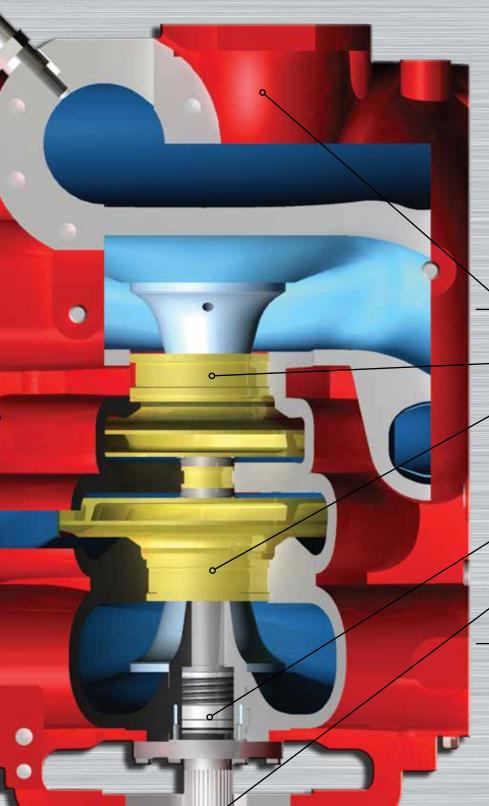
- · Available in 2-1/2 inch standard, 2-1/2 inch full-flow, and 3-1/2 inch sizes
- Available with Rack-and-Sector push/pull controls,
- manual worm gear and electric actuators
- · Worm gear and electric actuators comply with NFPA requirements for slow actuation
- · All use chrome-plated bronze valve balls
- · Lasts longer, resists scratching and scoring from sand and grit
- · Spring-loaded floating seal assemblies
- · Seals tight, no adjustments required

#### Ball-Type Transfer Valve



- · Available with optional electric actuator
- · Spring-loaded floating seal does not jam due to sand in the water

#### OVERHEAD



#### Tank-to-Pump Valve

- · 3-1/2 inch full flow
- · Chrome-plated bronze ball
- · Spring-loaded floating seal assembly

#### Impeller Shaft Assembly

- Outboard ball bearing
- · Labyrinth-type reverse flow wear rings Optional flame-plated impeller hubs (Standard on CMU, CSU)
  - Both reduce water bypass loss and result in longer life
- Optional mechanical shaft seals
- No routine maintenance required Separable impeller shaft
- Reduces downtime for repairs

### **Priming Systems**

- · VPO oil-free primer
- · Fast, dependable priming
- · Electrically driven
- · Operates independently from the pump

WATEROUS

- · Lubrication option (requires priming tank)
- · Vacuum-activated priming valve

#### **Pneumatic Shift**

- Spring-loaded locking control prevents accidental movement
- · Dual-action cylinder stays in position in case of air loss



#### **CONTROL PANEL**

#### Overheat Protection Manager (OPM)

- · Opens when water inside the pump reaches 140° F (60° C)
- · Flashing warning light on pump panel is triggered when water reaches 180° F (82° C)
- · Water is released to ground

#### Zinc Anode

OPTIONAL PROTECTION

· Optional corrosion protection

· Fits any unused intake pad or pipe tap in the intake fittings

#### Zinc Intake Screen

#### · Replaceable corrosion protection

· 200 SCFM rotary-screw air compressor encapsulated in oil sump saves valuable compartment space

· Available on CS, CSU and CMU midship-mounted fire pumps

· Easy-to-learn, pre-plumbed, pre-mounted, pre-calibrated

**CAFSystems™** 

Discharge Relief Valve

**CONTROL PANEL** 

· ON - OFF valve

· Indicating lights

· Panel-mounted strainer

C20 Transmission

· "Silent" Morse HV drive chain

· Smoother transfer of power

· 16,000 lb./ft. torque rating

- · Powered off the main pump via a "hot-shift" pneumatic clutch
- · Engage or disengage with pump running

complete compressed air foam system

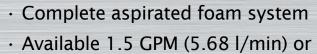
Eclipse™ CAFSystems

· Advantus® Foam System

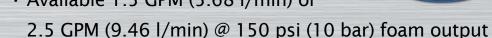
· Toothed-belt drive requires no lubrication or maintenance

#### FOAM SYSTEMS

## Aquis™ Foam Proportioner



CONTROL PANEL



**AQUIS**FOAM PROPORTIONER

FOAM SYSTEM

- · Stainless steel paddlewheel flow meter
- · 16-bit mixed signal microcontroller
- · Blue LED illuminated operator panel (standard on 2.5 models)
- · Onsite and online laptop diagnostics
- · Maximum operating pressure: 450 psi (32 bar)

#### Advantus® Foam System

- Complete aspirated foam system
- · Available 3 GPM (11.3 l/min) or 6 GPM (22.6 l/min) @ 150 psi (10 bar) foam output
- · Stainless steel manifold
- Hydra-Cell foam pump
- 4-sensor technology
- Full-flow brass body check valve
- 16-bit mixed signal microcontroller
- · Onsite and online laptop diagnostics
- · Maximum operating pressure: 450 psi (32 bar) \*
- · Pre-plumbed, pre-calibrated, pre-tested
- · Factory-mounted to midship fire pump · Saves valuable compartment space

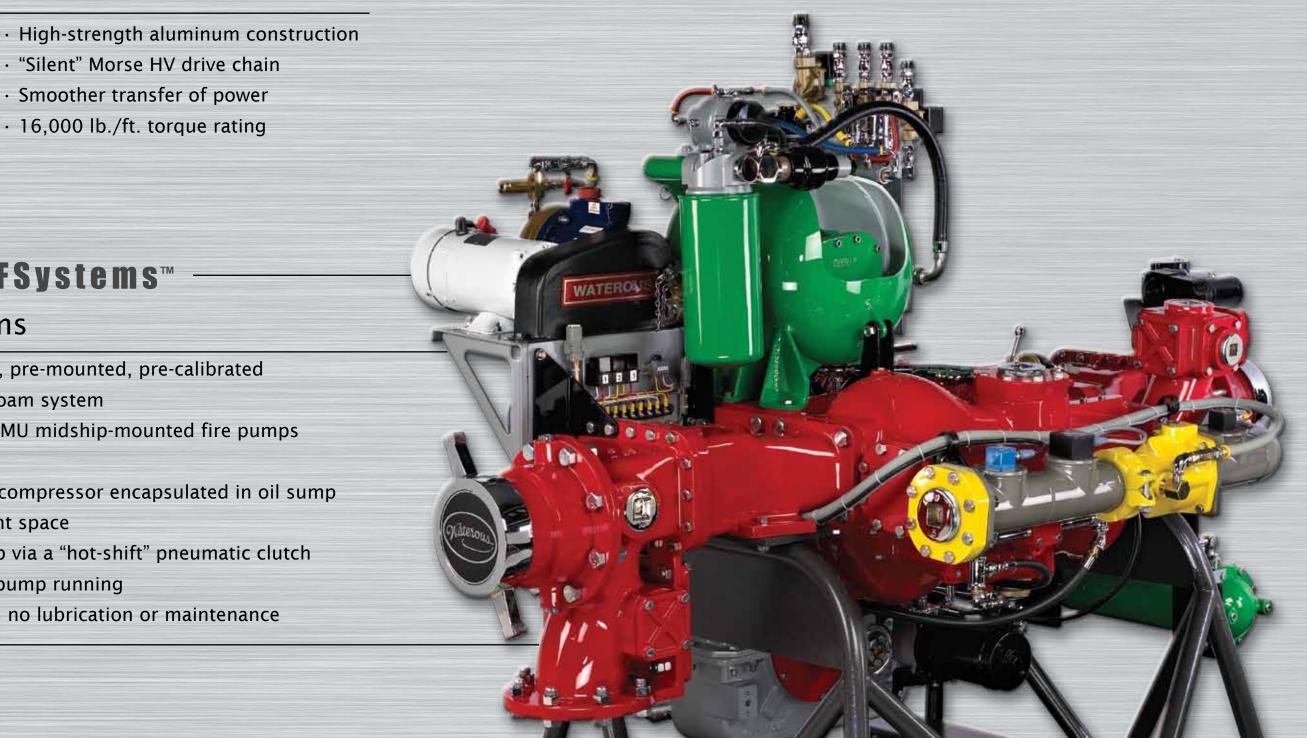
#### Monarch Intake Valve

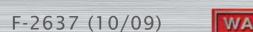
- · Manual, electric or pneumatic operation
- · Stainless steel Wafer-Sphere element
- · Polymeric flexible lip seal
- Resists "bonding" to moving element
- · Includes provision for pre-butterfly relief valve

#### Intake Relief Valve

- · Pilot-operated for improved performance
- · Easy to set with pressure scale markings
- · Panel-mounted strainer











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