

PRODUCT UPGRADES

**HOW TO GET YOUR
FIRE TRUCK
UP TO SPEED.
SAFELY.**



WATEROUS

**SINCE
1886**



MADE IN THE U.S.A.

PRODUCT UPGRADES

Annex D of NFPA 1901 Standard for Automotive Fire Apparatus addresses fire trucks built prior to today's standards.

Waterous has products available for upgrading or refurbishing fire apparatus to improve safety and performance.

SAFETY ITEM

Dual Shift Alarm Increase pump status awareness

For fire trucks built prior to 1991 with red and green in-cab indicating lights, a pump shift indicator light/audible alarm kit is available to heighten operator awareness of pump shift status. The kit provides a combination red light/audible alarm device that can be installed directly in the existing indicator light system and will alert the operator when the shift to "pump" is not complete.

SAFETY ITEM

Overheat Protection Manager Prevent overheating and costly repairs



Acts as a safety device by releasing hot water from the discharge area of the pump to the ground or back to the water tank, preventing costly pump repairs due to overheating.

SAFETY ITEM

Large Diameter Slow Close Valves Slow down actuation to meet requirements



3-1/2-inch discharge valves with a manual or electric rotary actuator to comply with NFPA 1901 requirements for slow actuation. May be retrofitted on existing Waterous discharge valves. Both actuators have a compact control panel with bright LEDs for accurate, easy to read valve position.

SAFETY ITEM

Intake Relief Valve Ensure maximum pump performance



Adjustable, automatic pressure relief device to bleed off excess pressure from a hose connected to a pump intake or the supply side of a valved intake as required by the current edition of NFPA 1901. Features pilot valve operation to ensure full main-valve opening when intake pressure exceeds pilot valve set point to provide performance that exceeds NFPA requirements.

ENVIRONMENTAL AND PERFORMANCE UPGRADES

VPO Primer (Oil-Free) Deliver rapid priming without oil or lubrication

A combination of high capacity and vacuum assures rapid priming. Requires no lubricant to operate. VPO components are made of corrosion-resistant anodized aluminum, stainless steel and composite materials to provide a long operating life.

Monarch™ Butterfly Valve Save pump panel space with behind the panel valve mounting



A package that includes a 6-inch intake butterfly valve with an integral intake relief valve, mounting pad and designed to fit behind the pump panel.

Prime Safe™ Prime with non-toxic lubricant

A 100%, non-toxic and rapidly biodegradable priming lubricant. Meets current NFPA requirements.

Mechanical Seal Cooling Line Conversion Kit Extend the life of mechanical seals

Kit reroutes mechanical seal cooling line hoses on midship pumps built prior to 1994, to extend life of mechanical seals.

Rotary Transfer Valve Actuator Secure smoother transfers



Permits a smooth changing of the transfer valve position to either pressure or volume. Available in either electric or manual.

Anodes Add corrosion resistance to your pump

A replaceable zinc element that is installed directly on the pump intake piping and into the pump waterway. These anodes sacrifice the zinc element to galvanic corrosion.

Panel Plates Switch to more durable panel plates



The panel plates are fade-resistant and more durable. Warning labels and other items are colored. Indicators are LEDs instead of light bulbs.

Electric Discharge Valve Actuator w/Illuminated Position Indicator A bright idea for simplifying valve openings and closings



The electric actuator is designed for easy opening and closing of valves with a panel mounted switch. The compact control panel has bright LEDs for accurate, easy-to-read valve position. May be retrofitted on existing Waterous discharge valves.

CAFS UPGRADES

Pump/Compressor Systems Enhance pump versatility



Waterous offers three models of PTO-Driven Air Compressor Systems and three models of PTO-Driven Integrated Pump/Compressor Systems. All systems are designed to

be retrofitted in an inservice vehicle. They are designed to discharge water, foam solution or compressed air foam.

FOAM UPGRADES

ADVANTUS™ Foam System Get consistent foam performance



Features a Hydra-Cell foam pump and stainless steel process manifold available in 500 or 1000 GPM.

AQUIS™ Foam Proportioner Affordability with durability

Complete aspirated foam system with stainless steel paddlewheel flow meter. Available in 1.5 or 2.5 GPM.



Waterous Innovations Since 1886

- 1886 - Steam Powered Horse Drawn Fire Pump
- 1898 - Gasoline Powered Horse Drawn Fire Pump
- 1906 - Gasoline Powered Self-Propelled Pumper (one engine to propel the vehicle, one engine to run the pump)
- 1907 - Gasoline Powered Self-Propelled Pumper (one engine for both the vehicle and the pump)
- 1929 - Last Completely Built Waterous Fire Truck
- 1955 - CM Electro-Matic Fire Pump (1st pushbutton fire pump Two-Stage Mid-Ship Pump)
- 1955 - Flame Plated Impellers
- 1968 - Floto-Pump
- 1972 - CS Series Fire Pump (Single-Stage Mid-Ship)
- 1977 - Ball Transfer Valve
- 1977 - Silent Chain Drive Transmission
- 1981 - Series 500 Resilient Seated Gate Valve
- 1981 - PB18 Portable Pump
- 1987 - Self-Adjusting Mechanical Seal
- 1992 - Light-Weight Ductile Iron Resilient Seated Gate Valve
- 1994 - CM'93 and CS'93 Mid-Ship Pump
- 1995 - E200 Series Motor Pump
- 1996 - E300 Series Motor Pump
- 1996 - Ductile Iron Pacer Hydrant
- 1997 - Foam Manager
- 1997 - E500 Series Motor Pump
- 1998 - Monarch Intake Valve
- 1999 - Eclipse CAFSystem
- 1999 - VPO Oil-Free Primer
- 2000 - Overheat Protection Manager
- 2000 - S100 Series Fire Pump
- 2000 - C10 Transmission
- 2001 - 21st Century Manifold
- 2002 - E600 Series Motor Pump
- 2002 - Eclipse ES (S100)
- 2003 - HL Series Fire Pump
- 2004 - Eclipse ES (CX)
- 2004 - TC10 Power Take-off
- 2005 - TC10 Eclipse ES
- 2007 - Advantus Foam System
- 2007 - Aquis Foam Proportioner



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