

CLARKE®

THE GLOBAL SUPPLIER IN DIESEL FIRE PUMP DRIVERS



PROTECTING PEOPLE AND PROPERTY FOR OVER HALF A CENTURY

Clarke Fire Protection Products sold its first diesel fire pump driver in 1964 as a regional distributor for GM Diesel. We began manufacturing our own UL-FM driver in 1980 and now market the largest line of diesel fire pump drivers in the world. To date over 100,000 engines, bearing the Clarke name have been

sold internationally. And although we've protected people and property for over half a century, we still believe that our success should be measured by achievements rather than years.

LEADERSHIP, INNOVATION, GROWTH

From its beginning, Clarke has taken the lead in discovering - and responding to - the needs of the fire protection industry. By combining engineering expertise with a knack for problem solving, we've developed fire protection product solutions that improve safety, increase reliability, save money and protect the environment. Many of our engineered solutions are recognized as industry "firsts".

Clarke engineering group, is our innovative and patented Pressure Limiting Driver **CLARKE PLD** diesel engine which protects the sprinkler system from over-pressurization by varying engine RPM. In recent years, Clarke responded quickly and effectively to environmental reforms, introducing new UL-FM engine models that complied with EPA emission regulations.

Clarke introduced dual starting technology as well as the technology for dual ECM electronic injection engines. Both increased diesel engine reliability and performance. Our driveshaft style couplings solved field alignment problems, and significantly reduced the time needed for engine/fire pump installation and maintenance. Another industry first, for the

Clarke Fire Protection Products has implemented an exciting, ongoing and continuous product improvement program which will provide even more high quality Clarke engine models to meet and exceed the demands of our growing Global market place.

CLARKE®

50 + years of milestones & success

1964:

Clarke begins selling UL-FM diesel fire pumps as a regional distributor for General Motors (GM)

1981:

Clarke introduces the UL-FM MD Series of engines to address, for the first time in the industry, the low horsepower needs in the marketplace.

1991:

Clarke introduces dual starting technology to the industry, increasing reliability and reducing cost.

1996:

Clarke introduces the UL-FM VM Series, which is the industry's only 3600 RPM engine.

1998:

Clarke begins manufacturing mounting bases for the pump and engine assembly.

1979:

Clarke develops UL-FM Certified engines and structures a multi-member Detroit Diesel Corp. distributor sales consortium; DDC transfers certification and global fire pump marketing to Clarke and discontinues production of its own certified engines.

1996:

Clarke introduces driveshaft style couplings to solve field alignment problems.

1998:

Clarke acquires Industrial & Marine Diesel, now Clarke Fire Protection Products, Ltd., a Glasgow, Scotland based manufacturer of diesel fire pump drivers.

CLARKE®

THE FIRST NAME IN FIRE PROTECTION...WORLDWIDE



Today Clarke is recognized worldwide as a leading manufacturer of diesel fire pump engines. With two complete business centers in the USA and Scotland and more than 300 authorized service locations throughout the world, our geographic footprint is truly global. Clarke engines are available for installation on every continent, in every country.

| CERTIFICATION | MFG PLANT | INSTALLATION MARKETS | | | | | | | | | | | |
|----------------------|-----------|----------------------|--------|------|--------|-----------------|----|--------|--------|----------|---------------|----|----|
| | | USA | AFRICA | ASIA | CANADA | CENTRAL AMERICA | EU | FRANCE | MEXICO | MID EAST | SOUTH AMERICA | UK | AU |
| USA PURCHASED | | | | | | | | | | | | | |
| UL-FM USA | USA | ■ | | | | | | | | | | | |
| UL-FM OUTSIDE USA | USA | | | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | | |
| UK PURCHASED | | | | | | | | | | | | | |
| UL-FM | UK | | ■ | ■ | | | ■ | | | ■ | | ■ | ■ |
| LPCB-UK | UK | | | | | | | | | | | ■ | |
| NON-LISTED | UK | | ■ | ■ | | | ■ | | | ■ | | ■ | ■ |
| APSAD | UK | | | | | | | ■ | | | | | |

THE FIRST NAME IN FIRE PROTECTION...WORLDWIDE

Throughout Clarke's history, we have stayed true to proven engineering principles, best-of-best manufacturing practices and comprehensive testing procedures. Every engine that leaves our plant is built to the highest standards and rigorously tested for reliable performance. Nothing is left to chance because once installed, every fire pump driver must perform on demand without fail.

Clarke maintains a close relationship with world class engine manufacturers to assure consistent product availability. Our base engines are manufactured by John Deere (USA, Mexico, and France), Caterpillar (USA), Deutz (Germany), Kohler (Italy), and Doosan

(South Korea). We have more than 300 engine models available, both UL-FM and Non-Listed. And with our experience configuring engine speed and power ratings for customers around the world, we can build fire pumps drivers to any certification or country specification.

Decades of innovation, state-of-the-art technology and engineering, worldwide installation and support...Clarke is your global supplier of diesel fire pump engines.

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| <p>2004: Clarke introduces the Pressure Limiting Driver (PLD) diesel engine, which protects the sprinkler system from over-pressurization.</p> | <p>2006: Clarke acquires assets of National Diesel Corp. of Canada, a small Quebec-based supplier of listed fire pump engines.</p> | <p>2007: Clarke introduces UL Listed couplings for electric motor driven fire pump sets.</p> | <p>2008: Clarke introduces UL Listed driveshafts for diesel driven fire pump sets.</p> | <p>2010: Clarke introduces Non-Listed engines built to EN12845 requirements.</p> | <p>2012: Clarke adds South Korean engine manufacturer, Doosan, as a fire pump engine manufacturing partner.</p> | <p>2013: Clarke introduces UL Listed, FM Approved Radiator Cooled Engines.</p> | <p>2017: Clarke adds Caterpillar as a fire pump engine manufacturing partner.</p> |
| <p>2004: Clarke introduces dual ECM electronic injection engines.</p> | <p>2006: Clarke introduces models which comply with the USA EPA NSPS Stationary emission standards per 40 CFR PART 60 Subpart IIII.</p> | <p>2007: Clarke receives two USA patents for its Pressure Limiting Driver (PLD). PLD</p> | <p>2009: Clarke introduces Tier 3 USA EPA emissions certified engines from 175 HP to 617 HP.</p> | <p>2010: Clarke introduces the DT2H high performance engine UL Listed and FM Approved from 725 HP to 1025 HP.</p> | <p>2012: Clarke introduces engine enclosures for fire pump applications.</p> | <p>2015: Clarke adds Deutz Engine America as a fire pump engine manufacturing partner.</p> | |