

**Dispensing Solutions  
for Automotive Lighting**

# Lens Sealing



## | EFR SYSTEM (ELECTRIC FIXED RATIO) |

### A STRONG SEAL THAT PROTECTS YOUR LIGHTS IN ALL WEATHER CONDITIONS

A proper seal helps protect our headlamps in all weather conditions and eliminates the risk of the lamp fogging or water leaking in. To help you apply a seal that protects your lights, Graco has developed the EFR system.

The EFR is an electrically driven, two-component piston pump suitable for manual or robotic bead dispensing and able to handle a wide range of materials, at flow rates up to 3200 cc/min.

#### BENEFITS

##### ▶ RATIO ASSURANCE AT START & STOP

The EFR has a wide choice of Z-pumps, to help you achieve the ratio you need. These pumps are linked to each other to ensure that your ratios remain accurate from the moment you start dispensing up to the end.

##### ▶ LOW MAINTENANCE

The combination of an electric motor with piston pumps allows you to operate for years with a limited need of maintenance.

##### ▶ CONSISTENT FLOW RATE, EVEN DURING PUMP CHANGEOVERS

The EFR uses an electric motor to control the flow rate quickly and accurately. Because the motor responds quickly it can modify the flow even during changeovers, eliminating pulsation.

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*Changing gear pumps multiple times per year is a thing of the past.*

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*Reduce drastically your scrap level by having a system that always maintains the correct ratio.*

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# Dispensing of Thermal Interface Materials



## | UNIXACT – AUTOMATED DISPENSING SYSTEM |

### PREVENT YOUR LIGHTS FROM OVERHEATING

Electric devices have the tendency to heat up quickly. Therefore thermal interface materials are needed to conduct the heat away from the source efficiently. To apply these type of tough-to-handle materials repeatedly, Graco has developed the fully-automated UniXact fluid dispense system.

#### BENEFITS

▶ **THE ONLY END-TO-END SYSTEM ON THE MARKET**

UniXact is the ONLY fully-integrated automated dispense solution with all of the components developed and supported by ONE worldwide source – Graco.

▶ **CONFIGURABLE TO FIT YOUR NEEDS**

UniXact is configurable for one and two-component chemistries and can process a variety of material volumes, viscosities and temperature.

▶ **PRECISE DISPENSING MEANS LESS WASTE AND MORE PROFITS**

UniXact consistently delivers accurate ratios and volumes. Material flows and pressures are maintained for a consistent dispense bead, resulting in less material waste, fewer scrapped parts and less costly rework.



# Graco Headquarters around the World



## ► WORLDWIDE HEADQUARTERS

Graco Inc.  
88-11th Avenue N.E.  
Minneapolis, MN 55413  
United States of America  
Tel: +1 612 623 6000

## ► SOUTH AND CENTRAL AMERICA HEADQUARTERS

Graco Uruguay - Montevideo  
GFEC Uruguay Free  
Zone WTC Free Zone  
Dr. Luis Bonavita 1294  
Office 1504  
Montevideo, Uruguay 11300  
Tel: +598 2626 3111

## ► EMEA HEADQUARTERS

Graco Distribution BVBA  
Industrieterrein Oude Bunders  
Slakweidestraat 31  
3630 Maasmechelen, Belgium  
Tel: +32 89 770 700

## ► ASIA PACIFIC HEADQUARTERS

Graco Hong Kong Ltd.  
Shanghai Representative Office  
Building 7  
1029 Zhongshan Road South,  
Huangpu District  
Shanghai, 200011  
The People's Republic of China  
Tel: +86 21 649 50088

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.



**Europe**  
+32 89 770 700  
FAX +32 89 770 777  
WWW.GRACO.COM

Fluid Handling Solutions ◀

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