

# Dyna-Star<sup>™</sup> 10:1

High Ratio Hydraulically-Powered Lubrication Pump



#### Long-lasting, flexible design saves money and is easy to use and install

- Achieve full pressure performance by safely tapping low pressure hydraulics
- Pre-packaged modules ready-to-work with both injector and divider valve systems
- Multiple pump and accessory options for use with refinery drum and custom tank installations
- Self-lubricating for long life and reliable operation
- Ultra-quiet hydraulic motor—no need for add-on mufflers
- High efficiency motor design uses less hydraulic oil

## **Graco Quality by Design**

#### **Superior System Performance**

Heavy-duty construction and mining equipment rely on fresh lubricant to flush contaminants from critical pivot points.

An automatic lubrication system from Graco provides constant lube replenishment, preventing expensive and catastrophic component failures. Divider valves and injectors accurately distribute lubricant to multiple lube points and are designed to accept a variety of system accessories which include electronic controllers, pressure switches and level indicators.

#### **GL-1 Injectors**

- Exclusive seal design for up to 30% longer life
- Field adjustable output for most every application





#### Trabon<sup>®</sup> Divider Valve Assembly

- Accurately meters lubrication to each point
- Adds performance indicators to ensure vital components have been lubricated



#### Rugged Digital Controller

Full featured performance—time- or pressure-based control to monitor reservoir levels and system pressure



Lets the controller know when optimum system pressure is reached ensuring complete lubrication cycle

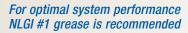


#### Level Indicator

- Positive, at-a-glance indication of reservoir lubrication level
- Auto shut-down when low level is reached

#### Field-Proven Graco Fire-Ball<sup>®</sup> Grease Pump Lower

Double-acting piston design—the industry standard for long life



#### Follower Plate

Innovative design forces grease into the pump for consistent operation

#### Center-Feed Vent and Refill Port

Located below follower plate for trouble-free venting and refilling



Conveniently monitor hydraulic output pressure

# Detail of back side of module assembly.

#### Module and Kit Accessories

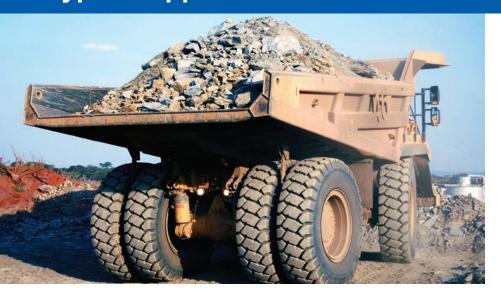
	247700	Follower plate for 27 kg (60 lb) and 41 kg (90 lb) modules			
	244023	Level indicator for 27 kg (60 lb) and 41 kg (90 lb) modules*			
	115123	Controller			
	115124	Pressure switch			

<sup>\*</sup> Follower plate 247700 required for level indicator 244023 to function

#### Pressure and Flow Control

Ability to adjust pressure and flow puts you in control

# **Typical Applications**



#### Mobile

- Front-end loaders 12 cu. yd. or higher
- Mining trucks 100 ton capacity or higher
- Shovel fronts
- Drag lines
- · Bucket wheel excavators

#### **Stationary**

- · Cement plant
- Jaw and gyratory crushers
- · Grinding mill seals
- Mineral sizers
- Ship loaders slew bearings
- Sludge pumps

#### **Ordering Information**

#### DYNA-STAR 10:1 MODULES AND KITS

247574	Dyna-Star 10:1 27 kg (60 lb) Pump Module - Injector - Overall height 842 mm (35.15 in). Includes pump (247540), reservoir assembly (247575), hydraulic control assembly (247538) and vent valve assembly (243170) fully assembled.
247706	Dyna-Star 10:1 27 kg (60 lb) Pump Kit - Divider Valve (DV) - Overall height 842 mm (35.15 in). Includes pump (247540), reservoir assembly (247575) and hydraulic control assembly (247538) not assembled.
247444	Dyna-Star 10:1 41 kg (90 lb) Pump Module - Injector - Overall height 1086 mm (42.75 in). Includes pump (247443), reservoir assembly (241486), hydraulic control assembly (247538) and vent valve assembly (243170) fully assembled.
247707	Dyna-Star 10:1 41 kg (90 lb) Pump Kit - DV - Overall height 1086 mm (42.75 in). Includes pump (247443), reservoir assembly (241486) and hydraulic control assembly (247538) not assembled.
247902	Pressure relief kit for 247706 and 247707
312349	Manual for 247574, 247706, 247444, 247707

Maximum fluid output for modules and kits = 241 bar (3500 PSI)

#### DYNA-STAR 10:1 REFINERY DRUM AND CUSTOM TANK APPLICATIONS

Description	Refinery Drums		Custom Tank Applications						
Weight kg (lbs)	55 (120)	180 (400)	27 (60)	27 (60)	55 (120)	55 (120)	180 (400)	180 (400)	
Divider Valve (DV) or Injector Based	DV	DV	Injector	DV	Injector	DV	Injector	DV	
Pump	247443	247450	247540	247540	247443	247443	247450	247450	
Hydraulic Control (1)	247705	247705	247538	247538	247538	247538	247538	247538	
Vent Valve			243170		243170		243170		
Cover	247703	247704							
Follower Plate	247701	247702							
Pump Gasket	15M442	15M442	15M442	15M442	15M442	15M442	15M442	15M442	
Custom Tank Kit (2)			247970		247456		247457		

- $\hbox{(1) Hydraulic control assembly (247705) includes longer hoses to enable remote mounting.}\\$
- (2) Kits include pump (24750, 247443 or 247450), hydraulic control assembly (247538), vent valve (243170) and pump gasket (15M442).

#### FIREBALL 300 AND DYNA-STAR 5:1 MODULES & ACCESSORIES

241573	Fireball 300, 50:1 41 kg (90 lb) Pump Module. Includes pump (239887), reservoir assembly (241486) and vent valve assembly (241572).			
241485	Follower plate (fits 241573).			
243159	Dyna-Star 5:1 41 kg (90 lb) Pump Module. Includes pump (224751), reservoir assembly (241486), hydraulic control assembly (243501) and vent valve assembly (243170).			
243191	Follower plate (fits 243159).			
See Lubrica	See Lubrication Equipment Buyer's Guide section 14 for more information			

#### **GL-1 INJECTORS**

114901 One GL-1 injector and manifold 114902 Two GL-1 injectors and manifold 114903 Three GL-1 injectors and manifold 114904 Four GL-1 injectors and manifold 114905 Five GL-1 injectors and manifold 114909 Replacement GL-1 injector		
114903 Three GL-1 injectors and manifold 114904 Four GL-1 injectors and manifold 114905 Five GL-1 injectors and manifold	114901	One GL-1 injector and manifold
114904 Four GL-1 injectors and manifold 114905 Five GL-1 injectors and manifold	114902	Two GL-1 injectors and manifold
114905 Five GL-1 injectors and manifold	114903	Three GL-1 injectors and manifold
The de Thingston and mainten	114904	Four GL-1 injectors and manifold
114909 Replacement GL-1 injector	114905	Five GL-1 injectors and manifold
	114909	Replacement GL-1 injector





#### **ABOUT GRACO**

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions.

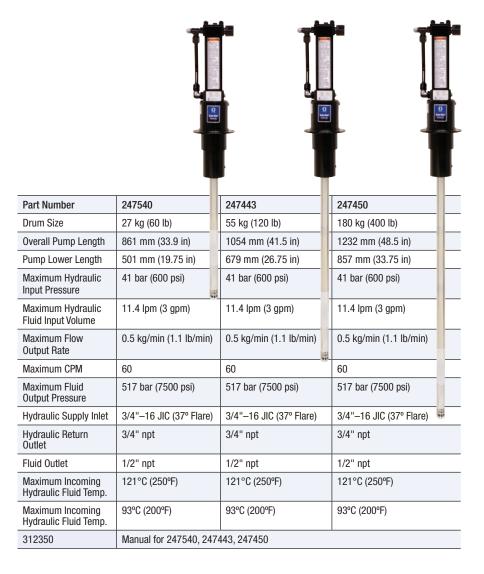
Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

GRACO N.V. Industrieterrein Oude Bunders Slakweidestraat 31 • B-3630 Maasmechelen Tel: +32 (89) 770 700 • Fax: +32 (89) 770 777 E-mail: info@graco.be • http://www.graco.be

©2008 Graco Inc. Form No. 338973E 10/09 Printed in Europe.
All other brand names or marks are used for identification purposes and are trademarks of their respective owners. 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.

## **Technical Specifications**

DYNA-STAR 10:1 PUMPS



#### **TYPICAL PUMP PERFORMANCE**

