



**G. P. Reeves Inc.**  
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**Serving  
 industry  
 since 1971**

G. P. Reeves has engineered and fabricated hundreds of production grease dispensing systems. We present this information to assist you in obtaining consistent and correct amounts of grease on your production parts.



## Two Types of Grease Dispensers

### 1.

#### TIMED GREASE DISPENSERS

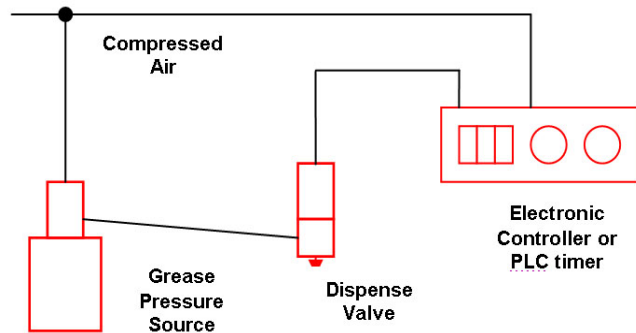
Timed grease dispensers function “like a water faucet” and require frequent re-adjustment, and constant monitoring. Timed grease dispensers cannot be trusted to repeatedly dispense identical amounts.

#### How Timed Grease Dispensers Work

Grease under pressure is moved through an air-operated Off-On valve that is opened and closed by a solenoid valve controlled by a PLC or electronic timer. Air and/or grease pressure regulators and adjustable orifices are sometimes used to control grease flow rate.

Because the flow characteristics of grease (a non-Newtonian fluid) are unpredictable, timed dispensers are not capable of accuracy and repeatability. You will not know how much grease is on your parts unless you weigh each part before and after or compare the greased parts to an approved photo.

#### Typical Timed Dispense System



### 2.

#### POSITIVE DISPLACEMENT GREASE DISPENSERS

Positive Displacement Grease Dispensers can be adjusted and set once. Their positive displacement piston stroke dispenses grease “like a hypodermic syringe”. Positive Displacement Grease Dispensers can be trusted to repeatedly dispense identical amounts.

#### How Positive Displacement Grease Dispensers Work

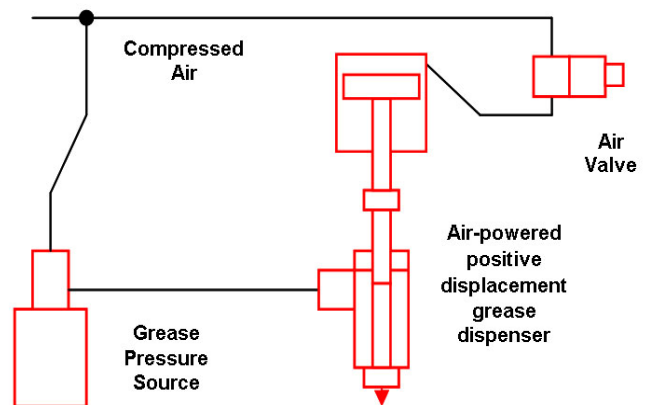
Grease under pressure is transferred through self actuated or powered valves into and out of a measuring chamber. A powered piston controls the transfer volume and transfer (dispense) is directly proportional to piston area and piston travel.

When accuracy and repeatability are important, a positive displacement dispense system is necessary for materials that change viscosity with temperature (grease).

G. P. Reeves also has electronically controlled grease piston dispensers that also use US patent number 6,053,285 to detect and remove trapped air from grease.

For more information, click here:  
<http://gpreeves.com/cat/cat-manualorelectronicadjust.pdf>

#### Typical Positive Displacement Dispense System



For more information about our equipment for dispensing grease onto production parts, please visit our web site at <http://gpreeves.com> or contact us at 888-399-8893.

For information about how we detect and remove air from grease, click here:  
<http://gpreeves.com/cat/cat-patent.pdf>