

greasemaster

mecanix



GENERAL PRINCIPLE OPERATION

GREASEMASTER MECANIX is designed as a simple piston pump, which provides a facility for adjustable output. An integral impellor agitates the grease to keep it fluid and wipes the reservoir glass to allow the level to be monitored. *GREASEMASTER MECANIX* has one filling method. A standard grease nipple is situated on the Left hand side of the pump and should only be filled from this point. The standard grease nipple, which fitted from the factory, can be replaced with quick release attachments but any such attachment should be self-sealing.

SPECIFICATION

Capacity	2Ltr Nominal
Grease Specification*	Recommended Grease Up to NLGI 2*
Design Output Pressure	Maximum 190 bar
Delivery	0.3cc/Stroke MIN – 1.0cc/Stroke MAX
Stroke Length	25mm
Temperature Range	+40°C / -8°C
Filling	Standard Grease Nipple

CONNECTING THE PUMP TO A SYSTEM

On receiving the pump, fill the reservoir to within 25mm / 1" from the top of the reservoir with a good quality grade 1 or 2 lithium base grease*. The pump outlet (5/16" UNF) must be connected via a high-pressure hose/tube. Narrow bore hoses and softer flexible hoses can create significant pressure losses, particularly in lengths of over 2 metres. If in doubt contact your supplier.

The system must be protected by a pressure relief valve, set to 190 bar

OPERATING THE PUMP

The pump is already primed with grease and will start delivering. (Primed pumps are always primed with lithium-based grease. If calcium or any other base grease is to be used the pump must be emptied and purged.*) Empty pumps will self-bleed and may take upto half an hour to do so.

OUTPUT ADJUSTMENT

The pump is fully adjustable by means of an adjuster screw on the Left hand side of the pump. To increase output, turn screw clockwise.

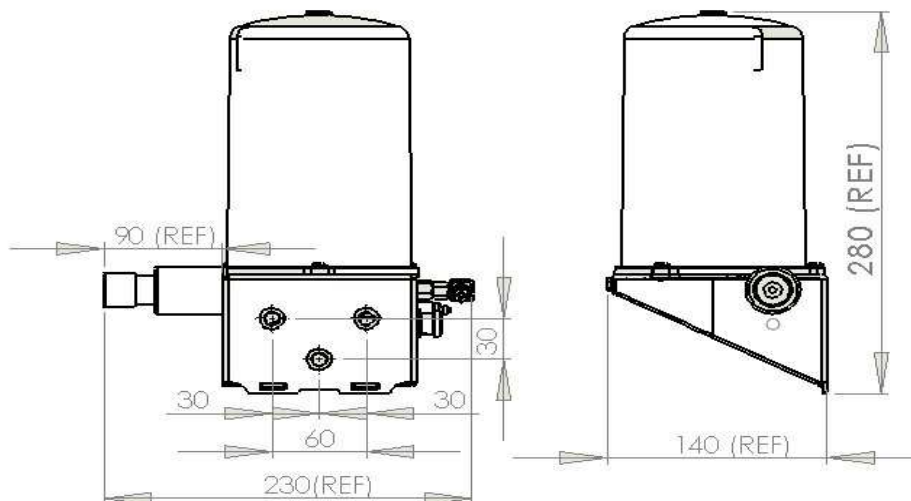
MAINTENANCE

Fill the grease pump regularly and avoid long periods of running the pump empty. Do not overfill (see filling).

OVERFILLING

Overfilling of the reservoir is prevented by the integral blow off valve situated on the top of the pump. The pump should not be filled higher than 15mm / 3/4" from the top of the reservoir as indicated by the sticker on the pump.

MOUNTING THE PUMP



The pump should be mounted using the three holes provided in the mounting plate and through bolted with M10 bolts. It should be mounted to a solid flat surface in an upright position using the M10 boltholes provided (See Diagram). The pump should be sited such as to allow access to the fill mechanism. The pump is operated by applying a driving force to the plunger on the right hand side of the pump. **The MAXIMUM stroke allowed is 25mm. GREAT CARE MUST BE TAKEN not to depress the plunger beyond its maximum stroke, as this will damage the operating mechanism.** If the driving force is applied with significant shock, a damper should be fitted such as a plastic or rubber buffer. The driving force should be a regular feature of the operating cycle and selected in order to give the required output which will be adjustable between the values $F \times 0.3\text{cc}$ and $F \times 1.0\text{cc}$ per hour, where F = the frequency of operations per hour.

* <http://www.bignall.co.uk/masterlube/grease-recommendations.asp>