

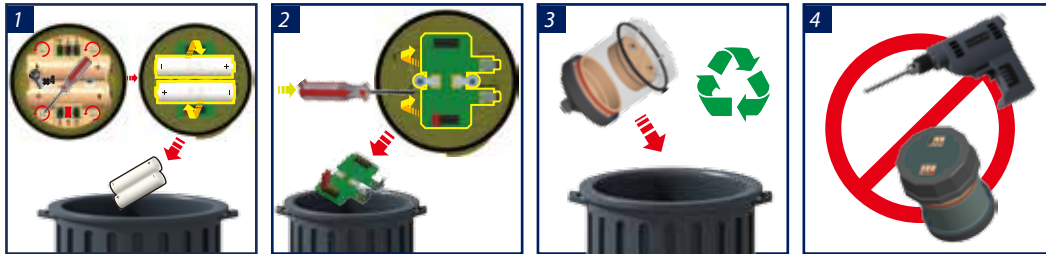
## FYH Grease

FYH Lithium Bearing Grease is an NLGI 2 lithium complex grease that provides substantial improvements over general purpose lithium soap based lubricants. It functions extremely well under a variety of highly demanding operating conditions including wide temperature ranges, variable speeds, water contamination, vibration, heavy loads, and shock loads.

In addition to its high quality base oils, it contains oxidation inhibitors and extreme pressure additives which are both crucial to maintaining a high degree of protection where high loading and moisture and chemicals are present.

FYH Lithium Bearing Grease exhibits excellent water wash-out resistance, and extensive testing has proven this lubricant to be successful where such challenging conditions exist.

## How to Dispose



1. Turn the housing cap counterclockwise and unscrew the top to remove the battery cover. Dispose of used battery pack conforming to local regulations.
2. Using a hand tool such as screw driver, detach the PCB (Printed Circuit Board) from the used unit. Dispose of the PCB conforming to local regulations.
3. Dispose of remaining plastic components in a designated area. Comply with local regulations for recycling.
4. **Do not** cut or puncture a used unit to avoid any potential personal injury or hazards.

## Shelf Life and Warranty Period

The shelf life of each FYH LUBE EZ E120 unit is 1 year from the date of production. Product warranty is limited to original defects in material and workmanship and will not cover any collateral damage due to mishandling, abuse and /or any other inappropriate use of this product.

Warranty period is 1 year from the date of purchase.

## NIPPON PILLOW BLOCK CO.,LTD.

2306 Hirao Mihara Sakai Osaka, 587-0022 JAPAN / TEL: 072-361-3750 / FAX: 072-361-4173  
www.fyhbearings.com / E-mail: info@fyhbearings.com

# FYH LUBE EZ E120

## USER MANUAL

Cost Effective, User Friendly Automatic Single Point Lubricator

## Specifications

Specifications	Description
Grease Capacity	120cc
Max Operating Pressure	5kgf/cm <sup>2</sup> (70psi)
Operating Temp Range	-20°C ~ 55°C (-4°F ~ 131°F)
Product Size	120cc: Ø77mm (3.03") × 112mm (4.41")
Weight	120cc: 305g (0.67lb)
Installation Thread Size	1/4" Male NPT & BSPT compatible
Gas Type	Nitrogen (N <sub>2</sub> ) Gas
Available Dispensing Periods	1, 3, 6, 9 & 12 months
Certifications / IP code	CE / ATEX / UL / IP68
Remote Installation	Up to 1m (3ft) using a 8mm (5/16") O.D. pre-filled lube line

**NOTE** Technical information is subject to change without prior notice.

## Model

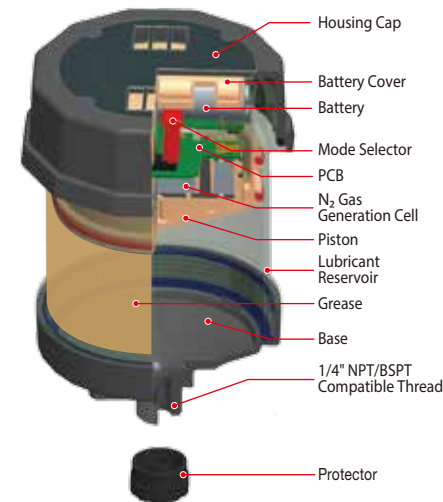
FYH LUBE EZ E120 120cc Grease Lubricator

ISO9001/14001 CE

## Before Use

Thank you for purchasing the FYH LUBE EZ E120. To ensure the safe operation and proper installation of the FYH LUBE EZ E120 unit, we strongly recommend that you read the following information carefully before use. If you require further information, please contact your local supplier or manufacturer.


## Product Details




## Product Certifications

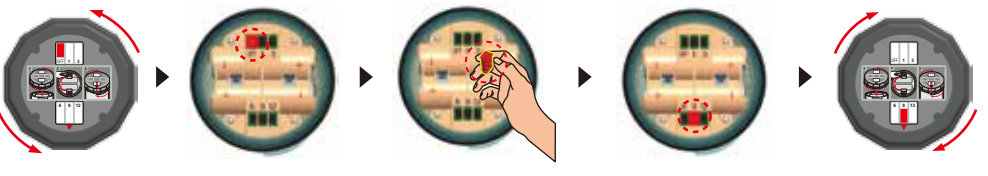
Certifications		
IECEX	Ex ia IIC T4 Ga IECEX KTL 12.0008X -20°C ≤ Ta ≤ +55°C	IEC 60079-0:2007-10 IEC 60079-11:2006
ATEX	CE 0344 II 1 G Ex ia IIC T4 Ga INERIS 12ATEX0062X -20°C ≤ Ta ≤ +55°C	EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007
KCS	Ex ia IIC T4 12-KB2BO-0283X -20°C ≤ Ta ≤ +55°C	
UL	UL US LISTED E352761	
<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>· Potential electrostatic charging hazard.</li> <li>· The cleaning from the FYH shall be done with a wet cloth.</li> <li>· Do not change, replace, or charge battery cells.</li> </ul>		

## Installation Instructions


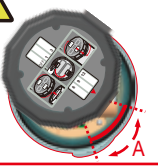

**1**  Before installing the FYH LUBE EZ E120, remove contaminants around the lube point and ensure a clear passage by purging the lube point with a manual grease gun. If the lube passage is restricted, it may affect the performance of the lubricator. Please use the same or compatible grease as contained in the FYH LUBE EZ E120.


**2**  Remove the grease nipple and check for hardened grease at the bearing lube point. If hardened grease exists, clean the lube point before mounting the FYH LUBE EZ E120 unit on the bearing.


**3** Set dispensing mode




- Turn the housing cap counterclockwise and unscrew the cap.
- Pull out the red Mode Selector from the default **OFF** position.
- To activate the FYH LUBE EZ E120 unit, firmly push the Mode Selector into the slot of the selected period from 1, 3, 6, 9, or 12 months. The unit will soon start dispensing self-contained lubricant at the desired rate.
- Turn the housing cap clockwise until the cap is securely locked in place.



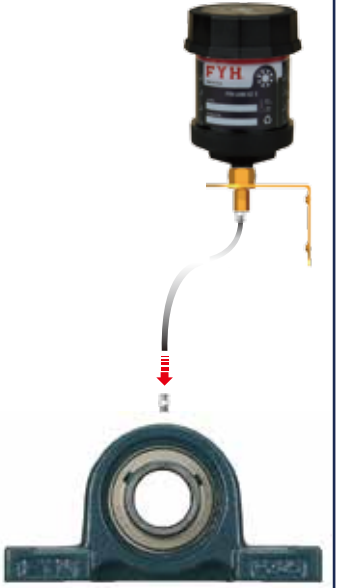

   To position the window properly, place the ▼ on the housing cap in the area indicated (A).

**4**  Prior to installation, the installation date and scheduled date of expired lube cycle should be logged by the operator on the label of the FYH LUBE EZ E120. Refer back to label of the FYH LUBE EZ E120 unit for further identification.

**5**  Remove the protector from the output thread and install on the lube point. The FYH LUBE EZ E120 has a resiliently engineered plastic 1/4" output thread that is compatible to both NPT and BSPT threads. Use appropriate adapters if necessary and make sure that adapters are firmly tightened. Do not excessively tighten the FYH LUBE EZ E120 as it may result in permanent damage to the plastic thread.


 **WARNING**  
Do not use the FYH LUBE EZ E120 unit for multiple lube points as it is designed for single point lubrication only. Please refer to #6 for preferred mounting methods and examples.

## 6 Mounting Methods

<b>Direct Mount - Straight &amp; Angle</b>	<b>Direct Mount with Extension - Straight &amp; Angle</b>	<b>Remote Mount (up to 1m)</b>
		
<p>The most common and preferred mounting method is a <b>Direct Straight Mount</b>. When there are space restrictions of the application that will not allow a direct straight mount, use a 45° or 90° fitting for <b>Direct Angle Mount</b>. When using angle fittings, ensure that the</p>	<p>For applications where a direct straight mount or angle mount is not available, use a straight, 45°, or 90° fitting with extension pipe, e.g. 50mm, 100mm, 150mm etc. When using extension pipes in combination with angle fittings, keep the total length of the mount as short as possible.</p>	<p>For applications not allowing any direct mounts or extension mounts, remotely mount the unit, securing with a bracket, using an 8mm O.D. (5/16") pre-filled lube line.  <b>WARNING</b> Keep the total length of the mount at 1m (3ft) or less.</p>

## Dispensing Equivalents

Required dispensing volume may vary with individual bearing types and operating conditions.

Dispensing Period	Dispensing Volume			 <b>NOTE</b> Dispensing volumes (cc/day) are calculated assuming the lubricator is operating at 20°C/68°F and at sea level, 14.7 psi.  Output will vary with ambient temperature changes, atmospheric pressure changes, viscosity of lubricant, or any resistance or backpressure existing at the lube point (bearing and passage).
	60cc	120cc	240cc	
1 Month	2.00cc/day	4.00cc/day	8.00cc/day	
3 Month	0.67cc/day	1.33cc/day	2.66cc/day	
6 Month	0.33cc/day	0.67cc/day	1.33cc/day	
9 Month	0.22cc/day	0.44cc/day	0.89cc/day	
12 Month	0.17cc/day	0.33cc/day	0.67cc/day	

Testing is recommended for specific applications. Contact your local distributor should you need any assistance in setting proper dispensing rates.