perma FLEX Pocket Guide



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The Expert in Lubrication Solutions

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1. Operating principle & activation



Technical Data

Housing Design	Transparent plastic (UV stable)
Operating principle	Gas generating unit
Discharge period (at +20°C with NLGI 2 grease)	1, 2, 3,12 months
Lubricant volume	60cm ³ and 125cm ³
Ambient temperature range	-20°C to +60°C
Remote installations*	Up to 1 metre of 3/8" ID line
Certification	Intrinsically safe - contact perma for detials and certificates

*Grease type, temperature and resistance to grease flow presented by the lubrication point can effect allowable grease line lengths.

2. Dispensing rates

Dispensing rates are determined by selecting the appropriate period for discharge.

The daily dispensing rates tabled below are based on an operating temperature of 20°C. Operational factors such as:

- Excessive back pressure;
- High average temperature;
- · Low average temperature;

can affect the actual dispensing rate of the lubricator.

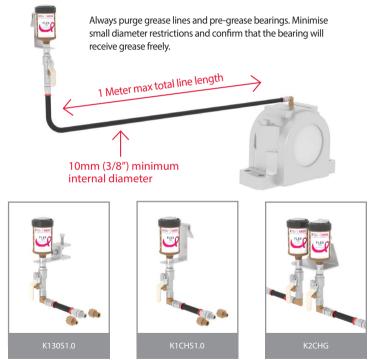
Rotary switch for discharge period setting



Dial Setting, Months	Daily Dispensing Rate for 125cm ³ unit, cm ³ per day*	
1	4.2	
2	2.1	Rear Dermo
3	1.4	FLEX O
4	1.0	
5	0.83	
6	0.69	
7	0.60	
8	0.52	
9	0.46	
10	0.42	
11	0.38	
12	0.35	

3. Remote installations

Direct mount where possible and safe to do so as this provides maximum grease pressure to the bearing. For remote mounting use lines which are no more than 1 meter long with an internal diameter of 10mm (3/8"). Smaller diameter lines increase resistance to grease flow.



Refer to sections 7, 8 and 9 for more information. perma FLEX lubricators are not included with kits.

4. Installation & servicing tips

- 1. Always ensure that newly installed bearings are correctly pre-packed prior to fitting lubricator.
- 2. Pre-grease bearings using a grease gun to ensure that the point can receive grease freely.
- 3. Determine which dial setting (time) is best suited to the application and the sites maintenance plans.
- Decide whether to direct or remote mount depending on access and safety implications. Do not exceed the recommended line dimensions.
- Activate the unit using a coin or a flat edged tool by rotating the dial to the required setting.
- Write the date of installation and the planned next service date on the lubricator
- Screw the lubricator into the grease port by hand – tools are not necessary.
- Once installed the lubricator should be periodically inspected to check that accidental damage has not occurred.
- 9. Replace lubricator on the planned date.
- 10. When replacing empty lubricators manually purge the bearing to ensure that grease delivery conditions have not changed.



5. Trouble shooting

Observation	Solution			
Grease dispensing too quickly	 Temperature too high for activator type Select slower activator type. <u>OR</u> Remote mount away from heat source. <u>OR</u> Change to STAR Vario for temperature independent dispensing. 			
Grease dispensing too slowly	 Temperature too low for activator type Select faster activator type. <u>OR</u> Change to STAR Vario for temperature independent dispensing. Resistance to grease flow too high Manually purge point to ensure that grease can be freely received by bearing. <u>THEN</u> Reduce grease line length <u>AND/OR</u> increase line diameter. <u>OR</u> Eliminate restrictions caused by small diameter fittings. <u>OR</u> Select faster activator type. <u>OR</u> Select a grease with better pumpability and / or better resistance to oil bleed. 			
Grease 'spurts' from lubricator when removed from service	 Resistance to grease flow too high Manually purge point to ensure that grease can be freely received by bearing <u>THEN</u> Reduce grease line length <u>AND/OR</u> increase line diameter. <u>OR</u> Eliminate restrictions caused by small diameter fittings. Change to STAR Vario for higher pressure output. 			

6. Contamination prevention

Different bearing configurations have different greasing requirements. The examples here demonstrate the importance of preventing the ingress of solid contaminants and water.

For sites where contamination levels are high it is common to apply grease directly to taconite or labyrinth seals, in addition to the bearing. This provides a positive purge of grease to prevent the entry of contaminants.



Taconite seal purging and bearing relubrication on a plummer block bearing

7. Compact beam mount bracket and installation kits

Part Number	Description	
MB01SBC30	Bracket SS compact 1 point with 30mm beam clamp	
K13050.5	Kit SS 1 point BC30 0.5m hose with fittings	
K13051.0	Kit SS 1 point BC30 1.0m hose with fittings	

Example of Kit Assembly – K130S0.5



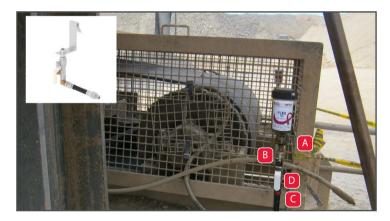
А	1 x 1 point compact beam bracket	Е	1 x 90 degree elbow
В	1 x 30mm S/S beam clamp	F	1 x 1/4" BSPF-1/8" BSPM reducer
С	1 x Manual purge kit	G	1 x 1/4" BSPF -1/4" BSPM extension
D	2 x Female swivel hose ends	Н	0.5m 3/8"ID grease line

perma FLEX lubricators are not included with Kit Assemblies.

8. Compact cage mount bracket and installation kits

Part Number	Description	
CH015	Bracket SS compact 1 point cage mount	
K1CHS0.5	Kit SS 1 point cage 0.5m hose with fittings	
K1CHS1.0	Kit SS 1 point cage 1.0m hose with fittings	

Example of Kit Assembly – K1CHS0.75



А	1 x 1 point compact cage bracket	Е	1 x 90 degree elbow
В	1 x Manual purge kit	F	1 x 1/4" BSPF-1/8" BSPM reducer
С	0.75m 3/8"ID grease line	G	1 x 1/4" BSPF -1/4" BSPM extension
D	2 x Female swivel hose ends		

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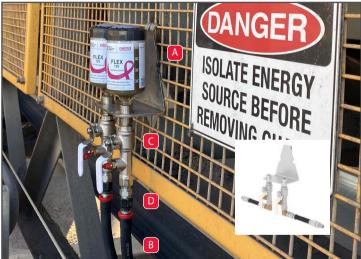
9. Multi-point installation kits

Points	Kit with BC30*	Kit with BC65**	Cage Hanger	
2 points	K230G	K265G	K2CHG	

*BC30 = 30mm beam clamp

**BC65 = 65mm beam clamp

Example of Kit Assembly - K230G



А	1 x 2 point cage bracket	Е	2 x 90 degree elbows
В	2m 3/8" ID grease line	F	2 x 1/4" BSPF-1/8" BSPM reducers
С	2 x Manual purge kits	G	2 x ¼"BSPF -¼"BSPM extensions
D	4 x Female swivel hose ends		

perma FLEX lubricators are not included with kits.

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We are proud to confirm the continuation and expansion of our partnership with the National Breast Cancer Foundation, which began in 2019.

Our latest commitment takes us into 2025 and will result in a total donated amount of over \$200,000.00. Breast cancer is the most commonly diagnosed cancer in Australia, currently eight women die from breast cancer every day here.

The NBCF is Australia's leading national body funding breast cancer research with the goal of zero deaths from breast cancer.

To find out more please visit perma.com.au





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