

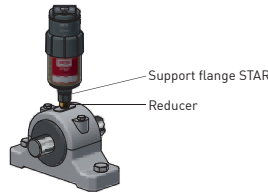
perma STAR VARIO - Quick Start Guide

1. Predefine installation / Select lubricant, discharge period + connecting parts

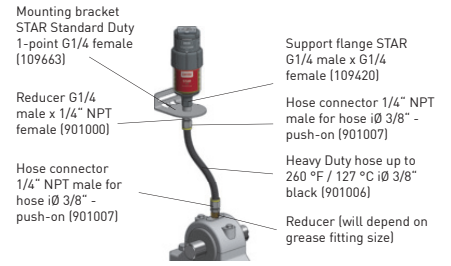
Average lubricant discharge chart (approximate)

SETTING / MONTH	60cc			120cc			250cc		
	cc per DAY	cc per WEEK	cc per MONTH	cc per DAY	cc per WEEK	cc per MONTH	cc per DAY	cc per WEEK	cc per MONTH
1	2	15	60	4	28	120	8.3	58.3	250
2	1	7.5	30	2	14	60	4.2	29.2	125
3	0.7	5	20	1.3	9.3	40	2.8	19.4	83.33
4	0.5	3.75	15	1	7	30	2.1	14.6	62.5
5	0.41	3	12	0.8	5.6	24	1.7	11.7	50
6	0.33	2.5	10	0.7	4.7	20	1.4	9.7	41.67
7	0.29	2.14	8.6	0.6	4	17.14	1.2	8.3	35.71
8	0.25	1.87	7.5	0.5	3.5	15	1	7.3	31.25
9	0.22	1.66	6.67	0.4	3.1	13.33	0.9	6.5	27.78
10	0.2	1.5	6	0.4	3	12	0.9	6.3	25
11	0.18	1.36	5.45	0.4	2.8	10.9	0.8	5.6	22.72
12	0.17	1.22	5	0.4	2.5	10	0.7	5.2	20.8

Examples: Bearing lubrication

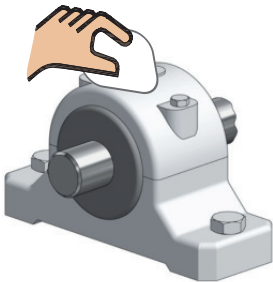


Direct mounting

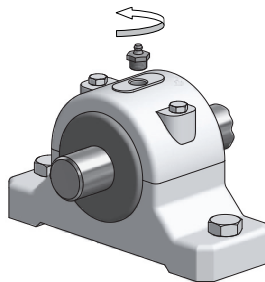


Remote mounting → for lube-points with vibration, limited mounting space, high temperature

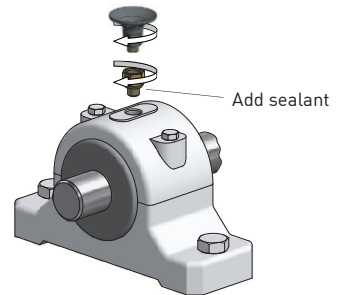
2. Prepare lube-point



Clean lube-point

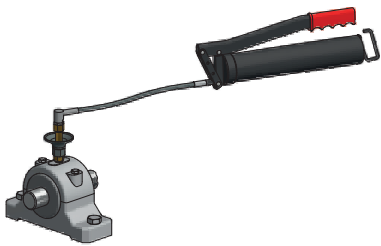


Remove grease fitting

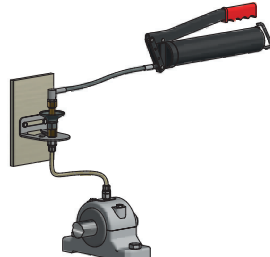


Add sealant

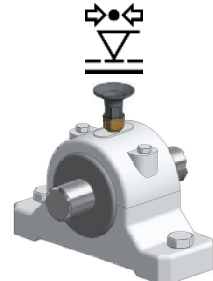
Add reducer, support flange and tubes (if required)



For direct mounting:
Prefill lube-point and any connecting parts
(use the same grease that is contained in the lubrication system)



For remote mounting:
Prefill lube-point and any grease lines / connections
(use the same grease that is contained in the lubrication system)

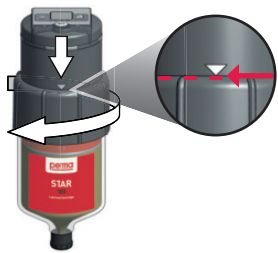


Pressure check: Lube-point / all connecting parts
(refer to perma STAR VARIO installation guide for details)

3. Activation / Installation of lubrication system



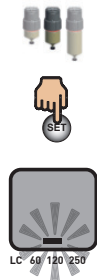
Assembly



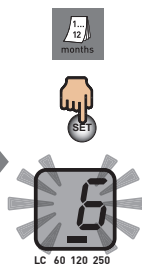
Screw control unit onto LC unit until arrow lines up (see enlargement)



Note
activation / exchange
date on label



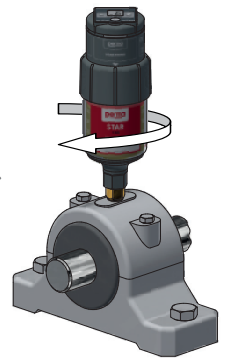
Select LC unit
60, 120, 250 cc


















Select discharge period
1 - 12 months



Remove plug




Quick Reference

Feature	Description		
Low battery indicator	If the battery set which has been inserted is damaged, faulty or flat "Lo" will be registered on the LCD display and the red LED will flash. The batteries cannot be used. A new set of batteries is required for each new lubricator cartridge in order to ensure optimal lubricator performance.		
Purge	Access the purge feature by holding down the SET button for 10 seconds. Release the button when "PU" appears and the purge will start automatically and show the "PU" LCD display. The green LED will flash. The purge cycle runs for 3 complete revolutions of the drive spindle to deliver around 6cc of grease. It can be stopped at any time by pushing the SET button once.		
LED Light & LCD Screen combinations LED's now positioned at 4 locations around the sides of the Drive. Replaces single LED located on top of Drive. 	Normal operation: - Green LED's flash every 7 seconds - LCD screen displays time & volume		
	Run cycle (lubricant being delivered): - Green LED's flash every second - LCD screen displays "ru"		
	Empty Lubricant Cartridge (LC): - Red LED's double flash every 2 seconds - LCD screen displays "LC"		
	Blockage / Back Pressure Overload (OL): - Red LED's double flash every 7 seconds - LCD screen displays "OL"		
	Purge (PU): - Green LED's flash every second - LCD screen displays "PU"		

Battery usage

Standard applications

-20 °C to + 60 °C
-4 °F to +140 °F




Use Battery pack STAR VARIO 101351



Low temperature applications

-40 °C to + 60 °C
-40 °F to +140 °F



Use Battery pack STAR VARIO low temperature 902292 (Cage reusable)

