SKF Single-point automatic lubricator SYSTEMSet

For contamination-free re-lubrication

The SKF SYSTEMSet is a mechanically driven, single-point automatic lubricator utilising a unique mechanical drive mechanism, which is referred to as “retarded spring mechanism”. A strong spring (300 N) provides the driving force while a unique breaking mechanism, made of engineering silicone, ensures that the piston travels at constant speed providing an even flow of grease. Additionally, the grease dispense rate is less temperature sensitive since both spring and silicone breaking mechanisms are relatively temperature insensitive.

- Cost-effective single-point automatic lubricator
- Minimises the risk of grease contamination during re-lubrication
- Available in one time-setting: 6 months
- Pre-filled with high-quality SKF bearing grease LGWA 2
- Retarded spring drive mechanism provides reliable performance
- Translucent container for visual inspection of function and grease level
- Offers temperature stable performance

Technical data

Designation	LAGL 6/WA2
Description	Single-point automatic lubricator SYSTEMSet
Grease capacity	125 ml (4.25 oz)
Nominal emptying time	Fixed 6 months
Grease feed	4.8 g/week
Ambient temperature range	-10 to +40 °C (14 - 105 °F)
Operating pressure	0 - 0.70 bars
Temperature influence on dispense rate	Less than 5% / °C
Drive mechanism	Retarded spring mechanism
Spring force	300 N
Breaking fluid	Engineered silicone
Connection thread	G 1/4
Number of lubrication points	Single point
Recommended storage temperature	20 °C (68 °F)
Permissible storage temperature	-30 to +70 °C (22 - 158 °F)
Storage life lubricator	3 years
Relative humidity	0 - 100%
Vibration resistance	Similar to SYSTEM 24
Norms	Provided with the CE-mark
Residual amount of grease	Less than 2%
Dimensions: diameter x height	ø 70 x 152 mm (ø 2.75 in x 5.98 in)
Start key	Torx T30

SKF Maintenance Products

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SYSTEMSet - Checklist for new installations

Please use the following checklist for new applications to make sure that the SystemSet automatic lubricator will work satisfactorily.

Subject	Question	Answer is Yes	Answer is No
Suitable grease	Is LGWA 2 grease (high quality, multipurpose EP type) in SYSTEMSet suitable for the application?	OK	Do not install SYSTEMSet
	Can LGWA 2 be mixed with the grease already present in the application?	OK (e.g. lithium, li-complex, ca-complex is no problem, check SKF compatibility chart)	Purge the application using LGWA 2 greas
Temperature	Is the ambient temperature always between -10 °C and +40 °C? (bearing temperature can be up to 140 °C as long as lubricator itself is not exposed to >40 °C)	OK	Shield the unit from the heat source or, if possible without exceeding 300 mm of tubing, move the unit to away from the heat source
	Please note that SYSTEMSet is not suitable for this application if none of the above options is possible		
	Is the ambient constant over +30 °C?	Compensate the time setting by factor 2 and do not exceed 6 months time setting. (Example: use 6 months unit to get 3 months emptying time). Note : unit will empty faster than the indicated time setting	No action
	Is the temperature constant below 0 °C?	Compensate the time setting by factor 0.5. (Example: use 3 months unit to get 6 months emptying time). Note : unit will empty slower than the indicated time setting	No action
Resistance and flow	Is the unit supplying to one point only?	OK	Change installation
	Can excessive grease escape? (e.g. escape hole, grease disc, seal)	OK	Provide an escape route
	Is the distance between SystemSet and bearing <10 mm?	Make sure that the channel has minimum 3 mm inner diameter (e.g. G1/8 thread is already >3mm)	See next question
	Is the distance between SystemSet and bearing <300 mm?	Make sure that the channel has minimum 6 mm inner diameter (standard LAPT 1000 tubing = Ø 6mm)	Reduce the distance to 300 mm with a 6 mm inner diameter
Vibration and impact	Is the unit exposed to vibration?	Use a clamp or move the unit to a non-vibrating section without exceeding 300 mm tube length	OK
	Is the unit exposed to shock loads or impact (falling rocks, gum boots)?	Use a clamp or move the unit to a safe section without exceeding 300 mm tube length	OK
Time setting	Can time setting from previous unit be used?	Use same time setting	See next question
	Is the re-lubrication quantity and interval known of previous re-lubrication method?	Calculate the time setting using the grease gun equivalence method (i.e. 1 stroke = 1.5 cm3) or use SKF DialSet re-lubrication calculation program	See next question
	Is there re-lubrication history of this or identical applications?	Calculate the time setting use the grease gun equivalence method (i.e. 1 stroke = 1.5cm3) or use SKF DialSet re-lubrication calculation program	Use the calculation for re-lubrication interval and quantity from the General Catalogue

SYSTEMSet - Known issues

Known Issues	Cause	Explanation and/or solution
No piston movement	Too high back pressure in application	Make sure the backpressure of the application is not above 0,7 bar Make sure the grease channel has at least 3 mm diameter
	Too long feeding line	Make sure the feeding line does not exceed 300 mm and has an internal diameter of 6 mm
	Unit not properly started	Restart the unit
Fast piston movement	High (>30 °C) ambient temperature	Higher ambient temperature results in faster grease dispense. See instructions for use
Slow piston movement	Low (<0 °C) ambient temperature	Low ambient temperature results in slower grease dispense. See instructions for use
	High backpressure in application	A high backpressure may restrict the grease of easily flowing
Sudden grease dispense change	Change in operational conditions	Starting up or shutting down a motor may create a vacuum in the application sucking grease out of the unit Starting up or shutting down a motor may cause the backpressure to increase rapidly

SYSTEMSet - Installation & check procedure

Subject	Action	
Installation	1	Unscrew the red cap
	2	Open the outlet by using a small hack saw, cutting pliers or end-nippers
	3	Clean the outlet
	4	Start the unit by turning the start knob 60° (from triangle to triangle)
	5	When properly started, grease comes out of the unit (check visually)
	6	Note the installation date on the unit with water resistance ink
	7	Clean the area around the installation point
	8	Clear the feed line by connecting a grease gun on the grease nipple
	9	Remove the grease nipple or previously used lubricator (in that case no need to clear the feed lines if previous lubricator functioned normal)
	10	Mount the new unit, hand tight