

SKF SYSTEM 24

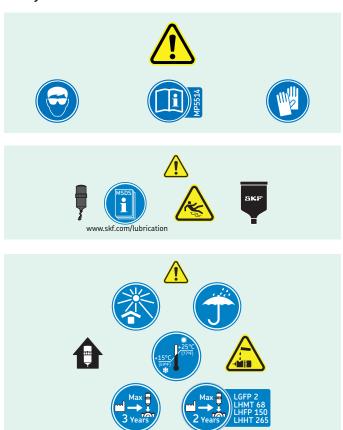
TLSD 1-DK



Table of contents

Saf	fety recommendations	4
C 11	Declaration of Conformity	5
UK	Declaration of Conformity	6
1.	Technical data	7
2.	Installation	8
	2.1 Installation of new lubricators	9
	2.2 Replacement of canisters	11
2	Troubleshooting	21

Safety recommendations



EU Declaration of Conformity TISD 1-DK

Automatic single point lubricator Cabled TLSD

We, SKF MPT, Meidoornkade 14, 3992 AE Houten, The Netherlands herewith declare under our sole responsibility that the products described in these instructions for use, are in accordance with the conditions of the following Directive(s):

EMC DIRECTIVE 2014/30/EU

RoHS DIRECTIVE (EU) 2015/863

and are in conformity with the following harmonized standards:

EN 61000-6-3:2007/A1:2011/AC:2012:

Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial

EN 61000-6-2:2005/AC:2005:

Electromagnetic compatibility (EMC). Generic standard. Immunity for industrial environments.

EN 61000-4-2: ESD

EN 61000-4-3: HF Immunity

EN 61000-4-4: EFT

EN 61000-4-5: Surge

EN 61000-4-6: CDN/Clamp Injection

EN 61000-4-8: Power Magnetic field

EN IEC 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restrictions of hazardous substances.

Houten, The Netherlands, February 2023



Guillaume Dubois

Manager Quality and Compliance

 ϵ

UK Declaration of Conformity TLSD 1-DK

Automatic single point lubricator Cabled TLSD

We, SKF MPT, Meidoornkade 14, 3992 AE Houten, The Netherlands herewith declare under our sole responsibility that the products described in these instructions for use, are in accordance with the conditions of the following Directive(s):

Electromagnetic Compatibility Regulations 2016 (2016 No. 1091)
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (2012 No. 3032) and are in conformity with the following harmonized standards:

EN 61000-6-3:2007/A1:2011/AC:2012:

Electromagnetic compatibility (EMC). Generic standards.
Emission standard for residential, commercial and light-industrial environments.

EN 61000-6-2:2005/AC:2005:

Electromagnetic compatibility (EMC). Generic standard. Immunity for industrial environments.

EN 61000-4-2: ESD

EN 61000-4-3: HF Immunity

EN 61000-4-4: EFT

EN 61000-4-5: Surge

EN 61000-4-6: CDN/Clamp Injection

EN 61000-4-8: Power Magnetic field

EN IEC 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restrictions of hazardous substances.

The person authorised to compile the technical documentation on behalf of the manufacturer is SKF (U.K.) Limited, 2 Canada Close, Banbury, Oxfordshire, OX16 2RT, GBR.

Houten, The Netherlands, February 2023



Guillaume Dubois Manager Quality and Compliance



1. Technical data

Designation	TLSD 1-DK Automatic single point lubricator Cabled TLSD		
Maximum ratings			
Voltage supply (VSS-GND)	7 V to 35 V		
Current supply	up to 1.5 A		
Quiescent current (sleep current)	<10 mA		
Relay maximum voltage	35 V		
Relay maximum current	100 mA		
Ambient temperature range	-20 to 50 °C (-4 to 122 °F)		
Max. working pressure	5 Bar		
Cable			
Length	1 500 mm		
Diameter	4.8 mm Max.		
Wire size	24 AWG 7/32 (0.25 mm²)		

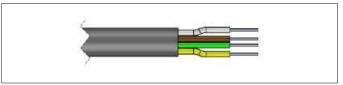


Fig. 1 – WHITE -> +Positive (VCC)

BROWN -> -Negative (GND)

GREEN -> Relay contact 1 (NO)

YELLOW -> Relay contact 2 (NO)

⚠ WARNING:

Should the power loss the dispense rate quantity calculation should be adjusted.

2. Installation

This user manual provides technical information about:

SKF SYSTEM 24 - Cabled TLSD Series TLSD 1-DK

See also MP5409:

SKF SYSTEM 24 - TLSD Series

Related documentation:

Document: On-line training Lubrication

Publication

Click here

Selection tools for:

Document: - LubeSelect for SKF greases

Publication

Click here

Document: - Lubricators settings Dial Set

Publication

Click here

Document: On-line DialSet

Publication Click here

Document: SKF SYSTEM 24 – Cabled series TLSD 1-DK

Publication MP5514



2.1 Installation of new lubricators

For installation at the application follow the steps:



Clean the lubrication point from dirt and old grease in such a way that the dirt is not entering the lubrication point itself.

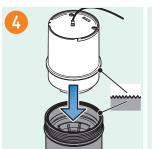


Remove the yellow protection cap from the new grease cannister.



Screw the support flange on the cartridge until is it is fixed.

If the support flange is mounted already on the application, don't remove it. Use sealing tape on the thread of the new cannister tip.



Place the drive unit on top of the full grease cannister and make sure the teeth of both parts are engaged.

The spindle head should now be inside of the motor coupler.



Screw the drive unit cap onto the cannister.



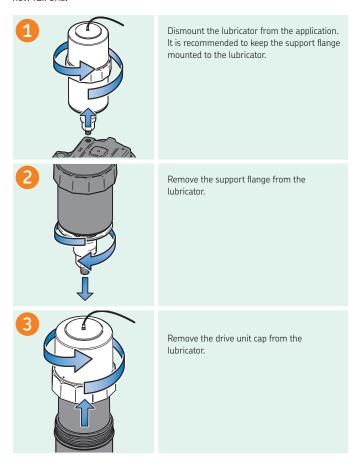
If the support flange is not mounted on the application, screw the complete lubricator onto the application. Your lubricator is ready.

If the support flange is mounted already on the application, the use of sealing tape (PTFE) on the thread of the new cannister tip is recommended.

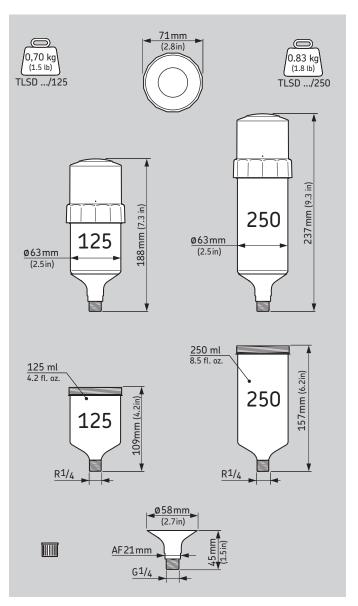
Then screw the cartridge on the support flange mounted in the application. Your lubricator is ready.

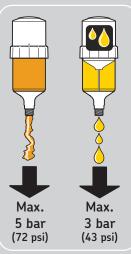
2.2 Replacement of canisters

In case the lubricator canister empty, the cannister should be replaced with a new full one

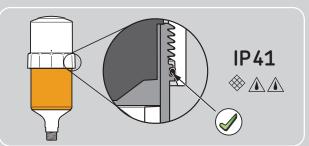


Continue with cleaning the lubrication point from dirt and old grease in such a way that the dirt is not entering the lubrication point itself, see paragraph \rightarrow 2.1 step 1.



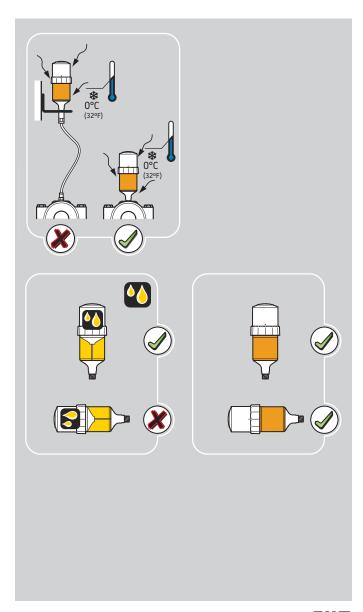




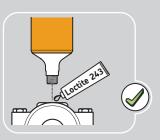


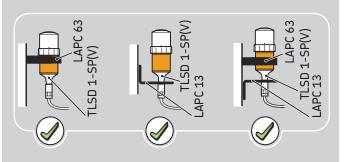
months	II 125	D 250
OFF	0 ml/day	0 ml/day
1M	4,1 ml/day	8,2 ml/day
2M	2,0 ml/day	4,1 ml/day
3M	1,4 ml/day	2,7 ml/day
4M	1,0 ml/day	2,0 ml/day
6M	0,7 ml/day	1,4 ml/day
8M	0,5 ml/day	1,0 ml/day
9M	0,5 ml/day	0,9 ml/day
10M	0,4 ml/day	0,8 ml/day
12M	0,3 ml/day	0,7 ml/day

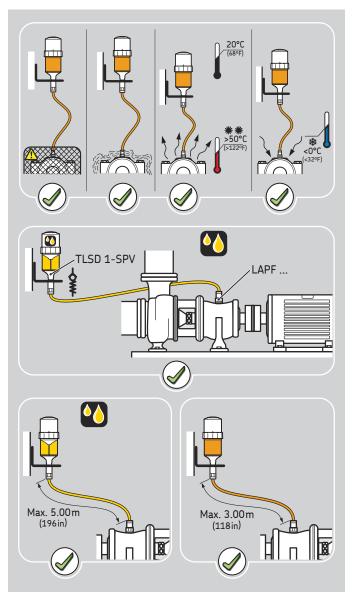
Dispense rate quantity is calculated assuming continues power supply. The pause time setting depends on the machine run time.

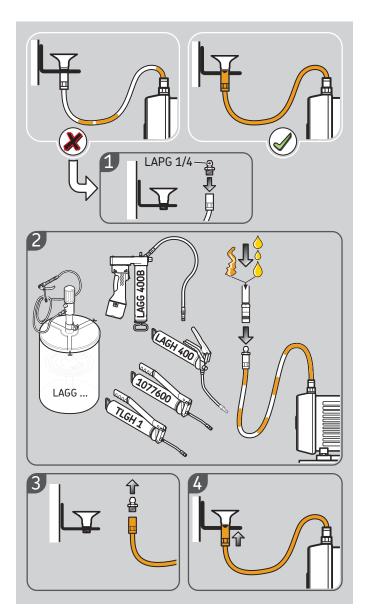


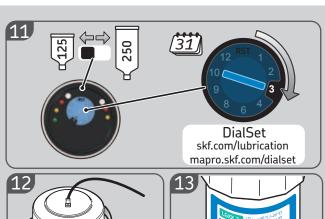


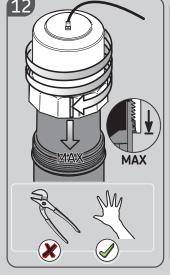


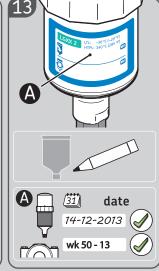


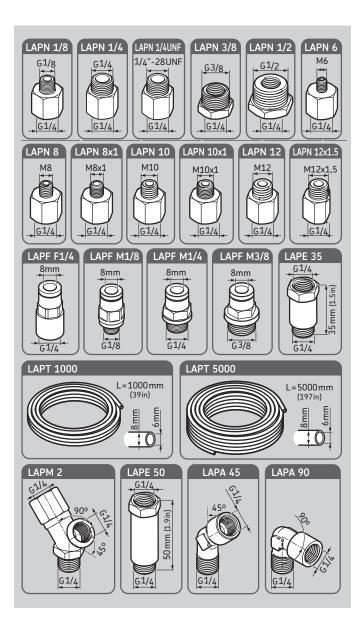


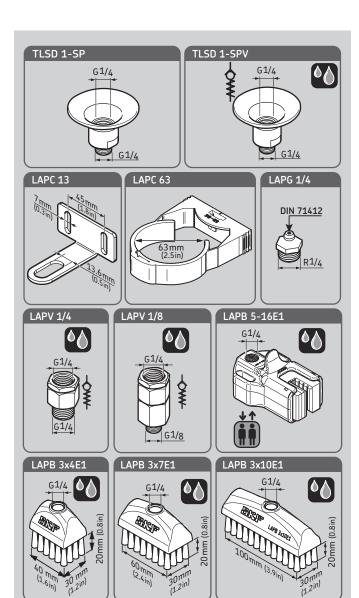












3. Troubleshooting

Condition	Functioning of lubricator	LED signal	Remote signal (Green and Yellow)
No power, lubricator working correctly	No grease dispensing	No LED signal	Open relay
No power, lubricator in high pressure alarm	No grease dispensed	No LED signal	Open relay
No power, lubricator in empty alarm	No grease dispensed	No LED signal	Open relay
No power, lubricator in internal fault alarm	No grease dispensed	No LED signal	Open relay
No power, lubricator in high pressure warning	No grease dispensed	No LED signal	Open relay
No power, lubricator in almost empty warning	No grease dispensed	No LED signal	Open relay
Power ON, lubricator working correctly	Lubricator waiting until next dispense	Green LED blinking every 3 seconds	Closed relay
Power ON, lubricator in high pressure alarm	Lubricator not dispensing	Red LED every 1 second	Open relay
Power ON, lubricator in empty alarm	Lubricator not dispensing	Red LED every 3 seconds	Open relay
Power ON, lubricator in internal alarm	Lubricator not dispensing	Red LED every 5 seconds	Open relay
Power ON, lubricator in high pressure warning	Lubricator waiting until next dispense	Yellow LED every 1 second	10 seconds closed, 10 seconds open
Power ON, lubricator in almost empty warning (3% left)	Lubricator waiting until next dispense	Yellow LED every 3 seconds	3 seconds closed, 10 seconds open



RU РУССКИЙ ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Информация об уполномоченном лице и контактной информации для связи с ним:

000 «СКФ»

121552, город Москва, улица Ярцевская, д.19, Блок А, Этаж 7.

Телефон: +7 495 215-1006 E-mail: SKF.Moscow@skf.com



The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.



skf.com • skf.com/lubrication

® SKF is a registered trademark of the SKF Group.

© SKF Group 2023

MP5514 EN · 2023/02