

Single-Point Automatic Lubricators



MOVING YOUR WORLD



FUCHS

Single-Point Automatic Lubricators

FUCHS' single-point lubrication systems can be programmed to apply lubricant automatically. In most cases, the equipment can continue to operate during lubricant application, which reduces downtime.

Investing in automatic lubricators has a direct impact on reducing long-term maintenance costs by optimising lubricant discharge. In addition, these devices eliminate the cost and risk of manually applying lubricating grease to different of equipment at regular intervals.

Furthermore, these devices also allow for improved hygienic design guidelines, as they provide clean lubrication, preventing leaks and spills that can contaminate products and foul the working environment. It is also important to note that automated lubrication protects against contaminants, such as water, dirt or dust, entering through lubrication points and therefore extends the service life of the equipment.

In short, single-point automatic lubricators simplify equipment lubrication and provide a level of homogeneity resulting in benefits that include:

- Reduced maintenance costs
- Improved labour efficiency and cost savings
- Greater safety for personnel during maintenance tasks
- Reduced equipment downtime
- Longer equipment service life
- Optimal and homogeneous lubrication guaranteed
- Reliable lubrication vs. human error possibility when applying manually
- Reduced waste

To achieve all these benefits, FUCHS offers a wide range of ready-to-use lubricating greases for STAR VARIO and FLEX systems.

FUCHS STAR VARIO

FUCHS STAR VARIO operates fully automatically, regardless of temperature and back pressure, discharging with extreme precision.

The system consists of an electromechanical motor, an LC (Lubricant Cartridge) unit containing 60 cm³, 120 cm³ or 250 cm³ of lubricant and batteries.

The desired discharge interval and LC size are easily selected via the SET button and are immediately shown on the LCD display. The current operating status is always shown by an LED signal (green / red), which is visible even from a distance, and also on the LCD display.



Technical information

Drive - reusable
Electromechanical with STAR VARIO batteries

Discharge interval
1, 2, 3... 12 months

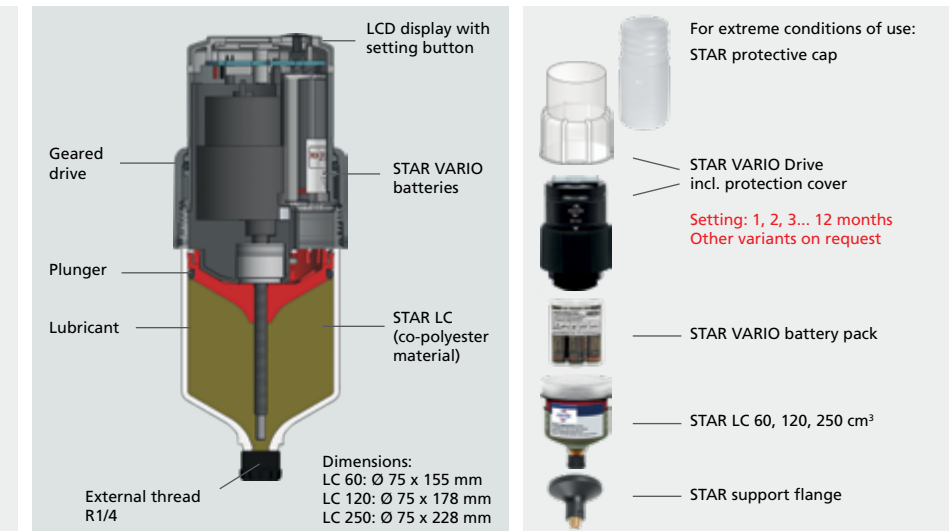
Lubricant volume
60 cm³, 120 cm³ or 250 cm³

Application temperature
from -20 °C to +60 °C

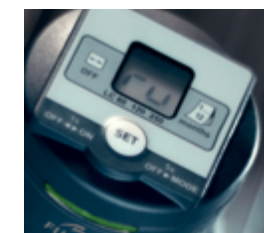
Operating pressure
7.5 bar

Protection class
IP 65

Greases up to NLGI 2



Product features and benefits



The LCD display with setting button shows discharge interval, LC size and operating status

Setting: 1, 2, 3... 12 months and LC size

- Simple and intuitive handling
- Precise, customised adjustment avoids under- or over-lubrication
- Changes to the settings can be made at any time
- Can be switched off in the event of a long-term plant shutdown



Reusable electromechanical drive with batteries

Always-visible LED (green/red) shows operating status and incidents

- Reliable and precise lubrication, regardless of room temperature and back pressure
- One-time acquisition cost for STAR VARIO Drive
- Quick operation control through LED signals saves time and makes maintenance easier



The 6-bar pressure generated allows for mounting at a distance of up to 5 m

Additional manual discharge at the push of a button (purge)

- These type of devices, when placed in hazardous or hard to access areas, increase safety at work
- Increased availability of the equipment, as the LC change can be carried out smoothly during service
- If necessary, the lubrication point can be purged to remove blockages

Depending on the application requirements, several accessories are available and can be ordered separately.

FUCHS STAR VARIO Cartridges



FUCHS STAR LC 60

Description: 60 cm³ Replacement Lubricant Cartridge (LC)

Items included: STAR LC 60

Retail packaging: Box of 10 pcs.



FUCHS STAR LC 120

Description: 120 cm³ Replacement Lubricant Cartridge (LC)

Items included: STAR LC 120

Retail packaging: Box of 10 pcs.



FUCHS STAR LC 250

Description: 250 cm³ Replacement Lubricant Cartridge (LC)

Items included: STAR LC 250

Retail packaging: Box of 10 pcs.

STAR VARIO Accessories



STAR VARIO DRIVE

Description: Geared drive. 5 years' service life

Items included: STAR VARIO DRIVE

Retail packaging: 1 pc.



STAR SUPPORT FLANGE

Description: Lubricator support for first installation. 5 years' service life

Items included: Support flange

Retail packaging: 1 pc.



STAR VARIO BATTERY

Description: Battery pack for system power supply. Change with each lubricant cartridge replacement (LC)

Items included: FUCHS STAR VARIO Batteries

Retail packaging: Pack of 3 batteries

FUCHS FLEX

FUCHS FLEX is a compact, ready-to-use, single-point lubrication system delivered as a complete unit. It can be used in a wide range of applications at temperatures from -20 °C to +60 °C. The discharge interval can be freely selected between 1 and 12 months depending on room temperature.

The required pressure is achieved by means of an electronically controlled chemical reaction. Fresh lubricant is continuously supplied to the lubrication point throughout the selected discharge interval. FUCHS FLEX is available in the sizes of 60 cm³ and 125 cm³.



Technical information

Operation

Electrochemical reaction. Gas generation.

Discharge interval at +20 °C
1, 2, 3... 12 months

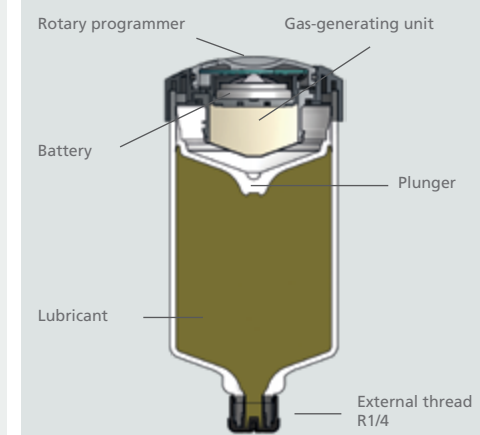
Lubricant volume
60 cm³ or 125 cm³

Application temperature
-20 °C to +60 °C

Operating pressure
Max. 5 bar

Protection class
IP 68

Special and standard lubricants
Greases up to NLGI 2 / oils



Dimensions:
FLEX 60: Ø 58 x 86.5 mm
FLEX 125: Ø 58 x 117 mm

Setting the discharge interval in months:




Guideline values for back-pressure free discharge with NLGI 2 lubricant.

At temperatures from > +40 °C and with discharge intervals of > 6 months, lubricant may remain undelivered.



	1	2	6	9	12
at -20 °C	2	5	10	13	15
at 0 °C	1.3	3.8	7.2	11	13
at +20 °C	1	3	6	9	12
at +40 °C	0.8	2.5	5.2	7.5	10
at +60 °C	0.6	2	4	-	-

Product features and benefits

	<p>Complete system with rotary timer to adjust the discharge interval: 1, 2, 3... 12 months</p>	<ul style="list-style-type: none"> The system is delivered fully assembled and ready for immediate use Easy setting and activation via rotary timer Discharge time adjustable from 1 to 12 in monthly intervals
	<p>The system operates reliably from -20 °C to +60 °C</p>	<ul style="list-style-type: none"> Flexible use in various temperature ranges Can be used outdoors all year round
	<p>Ex protection approval FM approval IP 68</p>	<ul style="list-style-type: none"> Safe and permanent lubrication in explosion-hazard areas Can be used in high-humidity or dusty environments Increased safety at work

FUCHS FLEX Single-Point Automatic Lubricators



FUCHS FLEX 60

Description: 60 cm³ automatic lubrication system

Items included: FUCHS FLEX 60

Retail packaging: Box of 10 pcs.



FUCHS FLEX 125

Description: 125 cm³ automatic lubrication system

Items included: FUCHS FLEX 125

Retail packaging: Box of 10 pcs.

Accessory kit for remote installation

Direct mounting is recommended in order to reduce lubricant pressure on the lubrication point. However, in many cases, remote installation is required, especially when lubrication points are located in high temperature zones (>60 °C), inaccessible areas or where there is a high risk of accidents (vibration, shocks, cuts, etc.). In many cases remote installation is required, especially at lubrication points where the temperature is high (> 60 °C), they are inaccessible or there is a high risk of accidents (vibrations, shocks, cuts, etc.).

The following accessories are required to install FUCHS automatic lubricators at a distance from the lubrication point. Please note that the maximum distance is 5 m for STAR VARIO system and 2 m for the FLEX system in order to maintain the correct operating pressure.









KIT FOR THE INSTALLATION OF SINGLE-POINT GREASE LUBRICATORS

Description: Accessory kit for distance installation of automatic lubricators containing grease

(FUCHS STAR LC or FUCHS FLEX)

Items included: 8 accessories and spare parts

Retail packaging: Box with accessory kit

Item name	Quantity	Image
STAR Bracket (inox.) G1/4	1 pcs	
Mounting Clamp 65 mm (inox.)	1 pcs	
Straight G1/4" connector for e8mm / i6mm hose, nickel-plated brass	2 pcs	
PA hose 8 mm outside, -40 °C to +80 °C	3 m	
90° elbow G1/4e x G1/4i, brass	1 pcs	
Pipe adaptor G1/8e x G1/4i, brass	1 pcs	
Pipe adaptor M8x1e x G1/4i, brass	1 pcs	
Pipe adaptor M10x1e x G1/4i, brass	1 pcs	

	Thickener Base oil	Grade NLGI	Base oil Viscosity at 40 °C (mm ² /s)	Temperature Range (°C)	Main areas of application
LAGERMEISTER XXL	PU Mineral	2	160	-20 / 160	High-performance, long-life, all-round grease. Due to its broad spectrum of use, the number of different lubricants can be reduced and it is suitable even under severe conditions such as high loads, high temperatures or vibrations.
URETHYN E 2	PU Synthetic	1 - 2	100	-20 / 200	Grease with excellent lubricating properties and thermal stability over a wide temperature range.
RENOLIT CSX 15	CaSX Mineral	1 - 2	460	-20 / 180	Grease for very high-load and low-speed point lubrication, where anti-corrosion properties are required or where water, even salt water, is present.
RENOLIT H 443-HD 88	Li Mineral	2 - 3	100	-30 / 140	Lithium grease for multi-point lubrication. Very good performance in applications such as electric motors, points subject to vibration or points subject to specific high loads.
RENOLIT LX-EP 2	LiX Mineral	2	160	-30 / 160	High-performance lubricating grease, especially when high thermal and mechanical loads are required, also offering good corrosion protection.

PU - Polyurea; CaSX - Calcium Sulphonate Complex; Li - Lithium; LiX - Lithium Complex.

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Developing custom lubrication solutions for the most demanding challenges

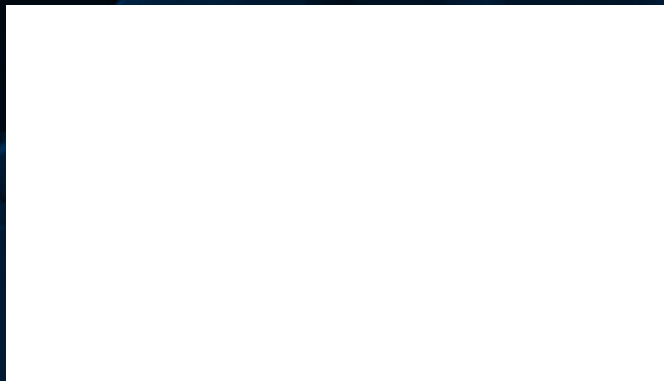
Our international team of experts from all sectors and industries focuses solely on lubrication solutions so that our customers can focus on their business.

It is our mission to ensure that we deliver technology that provides them with benefits and improves the sustainability of their processes.

Our engineering team is at your service!



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