



Lubricators

For grease and oil lubrication

Foreword

Automatic lubricators

The life of lubricants is limited. In their application, they are constantly exposed to mechanical loads, ageing and contamination. For this reason, it is necessary to supply fresh lubricant at defined time intervals and thereby ensure adequate lubrication. This helps to avoid consequential damage and reduces the risk of application failure.

With the automatic lubricators of the CONCEPT series, it is possible to supply almost all industrial machines and equipment precisely with oil or grease. The product range comprises simple and cost-effective single-point lubrication systems (CONCEPT1) as well as more complex lubrication systems for a larger number of lubrication points (CONCEPT2, CONCEPT4 and CONCEPT8). Due to versatile programmability and the possibility of constructing comprehensive lubrication solutions, there are hardly any limits for the user.

Other products

The product range is supplemented by a wide range of accessories for automatic lubricators, manual lubricating tools, filled and unfilled lubricant cartridges specific to the customer and the Schaeffler lubricant program Arcanol. These lubricants stand for very high performance in rolling bearing and linear applications.

Current product information always online

Current edition: September 2021.

The publication will be continuously modified and supplemented to reflect the expanding product range. In addition, the addition of further information on the design of lubrication systems is planned.

Download the current version:

- TPI 252 Lubricators for grease and oil lubrication
<https://www.schaeffler.de/std/1D4E>

Further information

Brochure:

- FBS Systematic Lubrication, Intelligent solutions for your systems engineering
<https://www.schaeffler.de/std/1F5C>

Technical Product Information:

- TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>

Datasheet:

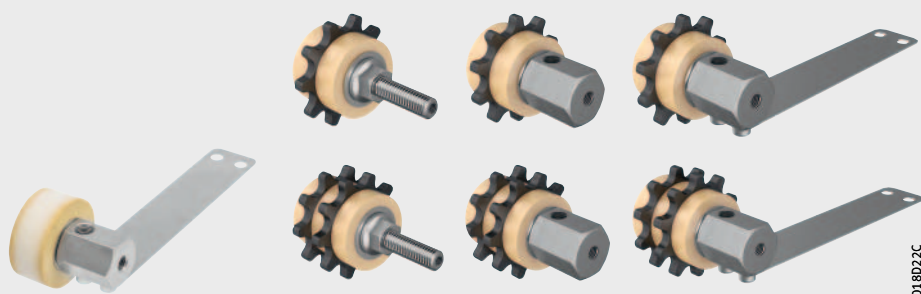
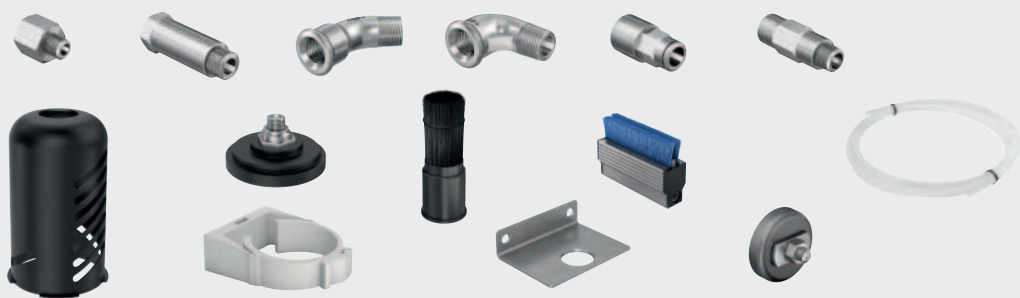
- FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>

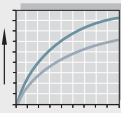
Websites:

- Arcanol lubricants, safety datasheets and technical datasheets
<https://www.schaeffler.de/sds>
- Schaeffler website, lubricators
<https://www.schaeffler.de/std/1F68>
- Schaeffler website, products and solutions for Industry 4.0
<https://www.schaeffler.de/std/1F69>

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Technical principles



Electrochemical lubricators



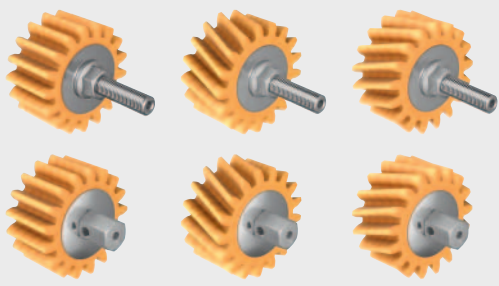
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Electromechanical lubricators



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Accessories for lubricant application

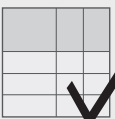


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Manual lubrication tools



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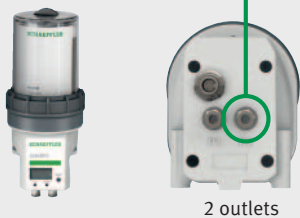
Appendix

Connection scheme for automatic lubricators

Lubricator

Connection variants

CONCEPT2



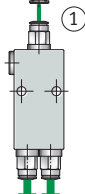
2 outlets

Pump body
with 1 outlet

Hose,
direct push fit

②
Expansion to
2 outlets
by **splitter**

Pump body
with 1 outlet



Hose,
direct push fit

CONCEPT4



CONCEPT8



Pump body
with 2 outlets

Hose,
direct push fit

Not possible

Pump body
with 2 outlets

Hose,
direct push fit

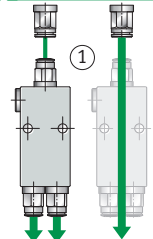
Reduction to
1 outlet
by **Y piece**

Pump body
with 2 outlets

Hose,
direct push fit

②
Expansion to
3 (max.4) outlets
by **splitter**

Pump body
with 2 outlets



Hose,
direct push fit

4 or 8 outlets

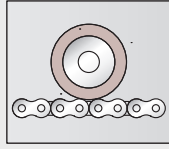
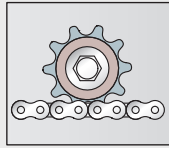
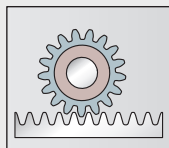
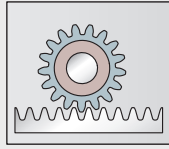
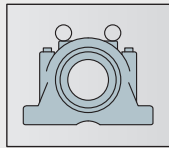
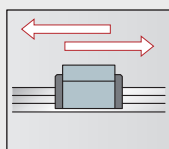
① Hose, max. 0,3 m, direct push fit



Lubrication point

CONCEPT1

Grease



1 outlet

1 × thread,
1 × push fit

2 × thread

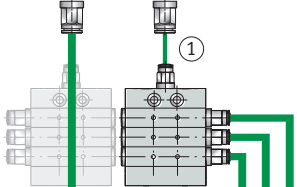
Hose length
max. 0,5 m

Check valve

Push fit on both sides
(required for oil only)

1 × push fit
1 × thread

② Expansion to
4 (max. 6) outlets
by **progressive distributor**
Pump body
with 2 outlets



Hose,
direct push fit

③ Length of the lubricant line:

- L_{max} (grease): calculation on following page
- L_{max} (oil): 100 m

② Technical advice necessary

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System design

System design for CONCEPT1

The lubricant line connected to the lubricator CONCEPT1 must be kept as short as possible.

The maximum lubricant line length $L_{\max}$ for lubrication with CONCEPT1 is (for approved lubricants):

- $L_{\max} = 0,5 \text{ m.}$

System design for CONCEPT2, CONCEPT4 and CONCEPT8

In the design of the lubrication system for the lubricators CONCEPT2, CONCEPT4 and CONCEPT8, the maximum lubricant line length must be calculated.

Calculation of lubricant line length for grease lubrication

The maximum lubricant line length $L_{\max}$ is dependent in the case of grease lubrication on:

- the delivery pressure of the lubricator
- the grease temperature
- the grease
- the inside diameter of the lubricant line
- the pause times between the pump strokes.

$L_{\max}$ is calculated as follows:

$$L_{\max} = \frac{p_{\max}}{p_L} \cdot K_S \cdot K_P$$

$L_{\max}$ Maximum lubricant line length

$p_{\max}$ bar
Delivery pressure of the lubricator,
see table

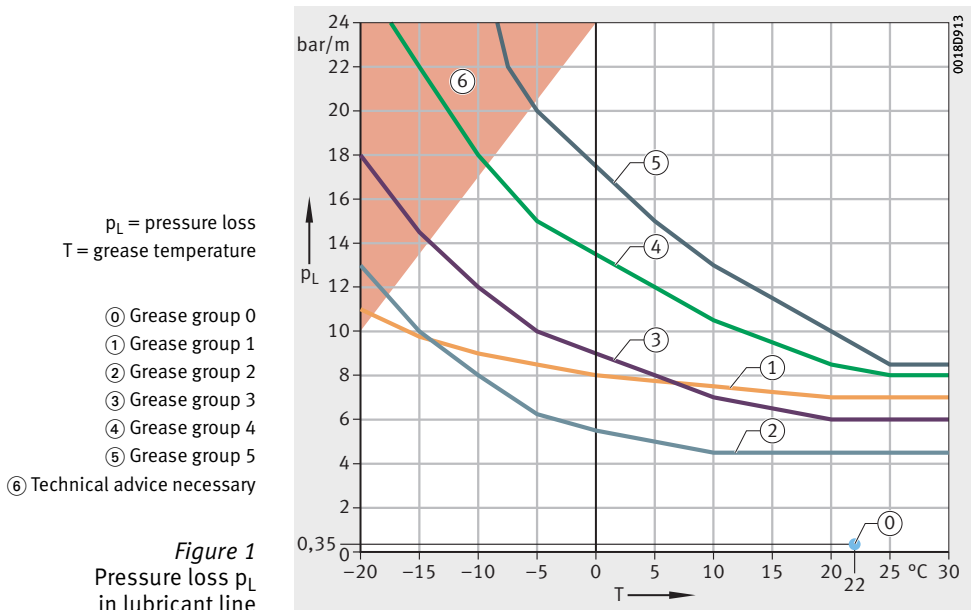
K_S –
Correction factor for inside diameter of lubricant line,
see table, page 10

K_p –
Correction factor for pause time between pump strokes,
see table, page 10

p_L bar/m
Pressure loss in lubricant line,
Figure 1, page 9.

Delivery pressure $p_{\max}$

Lubricator	$p_{\max}$ bar
CONCEPT2 (battery)	30
CONCEPT2 (DC 24 V)	50
CONCEPT4 (DC 24 V)	70
CONCEPT8 (DC 24 V)	70



Grease groups of Arcanol greases

Grease group	Grease
0 ¹⁾	Arcanol SEMIFLUID
1	Arcanol FOOD2
	Arcanol MOTION2
	Arcanol SPEED2,6
2	Arcanol LOAD460
	Arcanol TEMP120
3	Arcanol LOAD150
	Arcanol LOAD220
	Arcanol LOAD400
	Arcanol MULTI2
	Arcanol MULTITOP
	Arcanol TEMP110
	Arcanol TEMP200
4	Arcanol CLEAN-M
	Arcanol LOAD1000
	Arcanol MULTI3
	Arcanol TEMP90
5	Arcanol VIB3

¹⁾ Follow the guidelines on grease group 0, see page 10.

System design

Correction factor K_S

Inside diameter of lubricant line mm	K_S
5	1
4	0,65
2,5 ¹⁾	0,35

¹⁾ Diameter only permissible for grease group 0.

Correction factor K_P

Pause time between 2 pump strokes h	K_P
≥ 3	1
< 3	0,65



The procedure described here for calculating the maximum lubricant line length is only valid for a simple lubricant line without additional components such as splitters, progressive distributors or angled hose connector parts.

Guidelines on grease group 0

The following applies to grease group 0:

- The lubricating grease Arcanol SEMIFLUID is approved for use with all Schaeffler monorail guidance systems in combination with the CONCEPT devices.
- Calculation of the lubricant line length is currently only validated for an operating temperature of +22 °C.
- Lubricant line length >30 m only after consultation with Schaeffler.
- Use of alternative lubricants (NLGI 1, NLGI 2) only after consultation with Schaeffler.
- Lubricant line inside diameter of 2,5 mm should be used in preference. When used in combination with Schaeffler DuraSense, for example, this diameter provides the following advantages:
 - faster lubricant delivery
 - optimised distribution of grease to the end pieces of the carriages.



Design example

Design example for lubricant line length with grease lubrication.

Initial data:

- lubricator CONCEPT8 (DC 24 V)
- grease temperature = +20 °C
- Arcanol MULTITOP
- inside diameter of hose = 5 mm
- pause time between 2 pump strokes = 5 h.

Calculation of the maximum lubricant line length $L_{\max}$:

- delivery pressure $p_{\max} = 70$ bar
- pressure loss $p_L = 6$ bar/m
- correction factor $K_S = 1$
- correction factor $K_P = 1$
- maximum lubricant line length $L_{\max} \approx 11,6$ m.

Lubricant line length for oil lubrication

For oil lubrication with lubricators CONCEPT2, CONCEPT4 and CONCEPT8, the maximum lubricant line length $L_{\max}$ is:

- $L_{\max} = 100$ m.



Electrochemical lubricators

CONCEPT1

Accessories and spare parts

Demo case, starter kit

Electrochemical lubricators

CONCEPT1	16
The lubricators CONCEPT1 to protection class IP68, which are certified for use in explosion-proof environments, offer a cost-effective and versatile solution for supplying equipment with grease or oil. The lubricant is dispensed using gas pressure, which is built up by means of an electrochemical drive unit. An external voltage supply is not required. The lubricators are available filled with selected Arcanol lubricants or unfilled. As each lubricator can be filled multiple times (only the drive unit must be replaced when refilling), the CONCEPT1 is particularly sustainable.	

Accessories and spare parts	27
An extensive range of reducing nipples, connectors, extensions and hose connector parts are available for connecting the lubricators. Additional accessories, such as tools for lubricating special applications (brushes) or special device holders, are also available. Spare parts, such as seals, are also offered.	

Demo case, starter kit	36
The demo case is particularly suitable for the External Sales function. It contains both sizes of the lubricator CONCEPT1 and an extensive selection of accessories. Kits containing lubricators and selected accessories are also offered for defined application purposes.	



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CONCEPT1

CONCEPT1,
filled with Arcanol lubricant

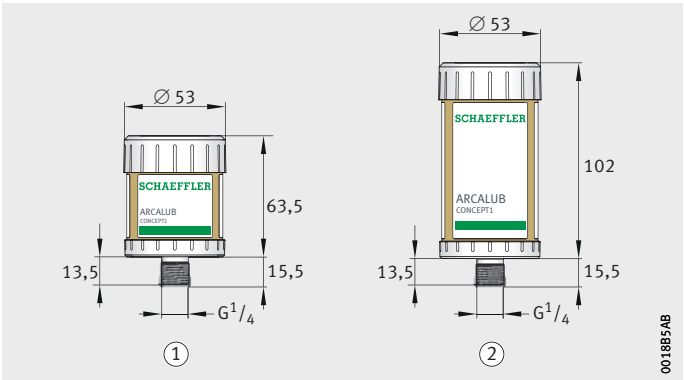
- ① ARCALUB-C1-60
(lubricant volume: 60 cm³)
- ② ARCALUB-C1-125
(lubricant volume: 125 cm³)

Figure 1
CONCEPT1



- ① ARCALUB-C1-60
- ② ARCALUB-C1-125

Figure 2
Dimensions



Advantages of the lubricator CONCEPT1

- flexible:
the customer can choose between lubricators filled with Arcanol lubricant from Schaeffler and unfilled lubricators that can be filled with the customer's own lubricant
- sustainable:
the lubricators can be filled up to three times and are kind to the environment
- cost-effective:
good price/performance ratio compared with other lubricators of the same device class
- simple conversion:
as no special tools are required, the conversion to automatic lubrication with CONCEPT1 is very simple
- ATEX and IECEx certification:
safe lubrication in potentially explosive environments.



Further information

Brochures:

- ICA CONCEPT1, The lubrication system that gets straight to the point
<https://www.schaeffler.de/std/1F5D>
- FBS Systematic Lubrication, Intelligent solutions for your systems engineering
<https://www.schaeffler.de/std/1F5C>

User manuals:

- BA 69 CONCEPT1
<https://www.schaeffler.de/std/1F4C>

CONCEPT1

Type overview CONCEPT1 (grease lubrication)

With drive unit, prefilled for grease lubrication			
Lubricant	Volume cm ³	Ordering number	Ordering designation
Arcanol FOOD2	60	095249290-0000-10	ARCALUB-C1-60-FOOD2
Arcanol LOAD220	60	095249273-0000-10	ARCALUB-C1-60-LOAD220
Arcanol LOAD400	60	095249249-0000-10	ARCALUB-C1-60-LOAD400
Arcanol MULTI2	60	095249230-0000-10	ARCALUB-C1-60-MULTI2
Arcanol MULTITOP	60	095249222-0000-10	ARCALUB-C1-60-MULTITOP
Arcanol TEMP110	60	095249214-0000-10	ARCALUB-C1-60-TEMP110
Arcanol FOOD2	125	095248897-0000-10	ARCALUB-C1-125-FOOD2
Arcanol LOAD150	125	095731784-0000-10	ARCALUB-C1-125-LOAD150
Arcanol LOAD220	125	095248870-0000-10	ARCALUB-C1-125-LOAD220
Arcanol LOAD400	125	095248854-0000-10	ARCALUB-C1-125-LOAD400
Arcanol LOAD460	125	095248838-0000-10	ARCALUB-C1-125-LOAD460
Arcanol MULTI2	125	095248820-0000-10	ARCALUB-C1-125-MULTI2
Arcanol MULTITOP	125	095248811-0000-10	ARCALUB-C1-125-MULTITOP
Arcanol TEMP110	125	095248200-0000-10	ARCALUB-C1-125-TEMP110

10 pieces per packaging unit.

Type overview CONCEPT1 (oil lubrication)

With drive unit, prefilled for oil lubrication			
Lubricant	Volume cm ³	Ordering number	Ordering designation
Arcanol CHAIN-OIL	60	096040432-0000-10	ARCALUB-C1-60-CHAIN-OIL
Arcanol CHAIN-OIL	125	095248900-0000-10	ARCALUB-C1-125-CHAIN-OIL
Arcanol FOOD-OIL	125	095248889-0000-10	ARCALUB-C1-125-FOOD-OIL

10 pieces per packaging unit.

Technical data CONCEPT1

Feature		Value
Dimensions	60 cm ³	80 mm×52 mm×52 mm
	125 cm ³	120 mm×52 mm×52 mm
Mass (without lubricant)	60 cm ³	≈ 65 g
	125 cm ³	≈ 80 g
Mounting position		As required
Protection class		IP68
Explosion protection classification		DEKRA 20ATEX0032X
		IECEX DEK 21.0038X
		II 1G Ex ia IIC T6 Ga
		II 1D Ex ia IIIC T ₂₀₀ 80 °C Da
		I M1 Ex ia I Ma
Housing material		Polyethylene terephthalate (PET)
Lubricant volume		60 cm ³ or 125 cm ³
Lubricant	Grease	Arcanol range up to NLGI 2, other greases by agreement
	Oil	> 68 cSt
Dispensing time (steplessly adjustable)		1 month up to 12 months
Functional principle		Gas drive
Operating pressure		≤ 5 bar
Number of outlets		1 (threaded connector G ¹ / ₄)
Number of lubrication points		1 (direct), branching not permitted
Operating temperature		−20 °C up to +55 °C



Use in potentially explosive atmospheres



The lubricator CONCEPT1 meets the requirements for IECEx and has been tested in accordance with the ATEX product directive 2014/34/EU of the European Union. It is approved for use in almost all potentially explosive environments. The issued approvals are specified in the technical data, see table, page 19.

According to the directives governing use in potentially explosive atmospheres, the customer is responsible for assessing the zone in which the device is to be used. Regardless of this, we recommend that the customer contact Schaeffler for an alignment of his explosion protection requirements with the features of lubricator CONCEPT1.

CONCEPT1

CONCEPT1, unfilled

Figure 3
CONCEPT1
(unfilled)



Unfilled lubricators CONCEPT1 can be filled by the actual customer. This permits the additional flexible use of the lubricators for customer-specific lubricants. Before using customer-specific lubricants, please arrange for Schaeffler to check their suitability. The lubricator may be filled a maximum of three times. If further filling operations are carried out, the correct functioning of the lubricator cannot be ensured.

Type overview CONCEPT1 (unfilled)

Lubricant	Volume cm ³	Ordering number	Ordering designation
–	60	095166050-0000-10	ARCALUB-C1-60-REFILLABLE
–	125	095166076-0000-10	ARCALUB-C1-125-REFILLABLE

10 pieces per packaging unit.

Scope of delivery

A delivery of unfilled CONCEPT1 lubricators contains (10× each):

- housing
- drive unit
- scale
- closing plug.

Refilling kit A refilling kit comprising drive unit, scale, closing plug and adhesive label is required for the second and third filling operation.
All CONCEPT1 lubricators are suitable for a second and third filling operation, irrespective of whether they were purchased as a prefilled or unfilled version.



**Type overview
Refilling kits**

Suitable lubricator	Ordering number	Ordering designation
ARCALUB-C1-60	095287523-0000-10	ARCALUB-C1.DRYCELL-KIT-60
ARCALUB-C1-125	095287540-0000-10	ARCALUB-C1.DRYCELL-KIT-125

10 pieces per packaging unit.

- Scope of delivery** A refilling kit contains (10× each):
- drive unit
 - scale
 - closing plug
 - adhesive label.

CONCEPT1

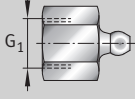
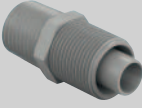
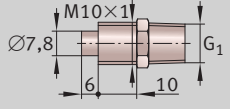
Filling accessories

Special refill nipples are available for filling by lever grease gun or drum pump, see table and *Figure 4*, page 23.

The lubricator is:

- sealed after filling with oil using a check plug valve available as an optional accessory, see table. The closing plug is then no longer required.
- sealed after filling with grease using the closing plug. The closing plug is included with unfilled lubricators and in the refilling kit and is additionally available as a spare part, see page 34.

Type overview Filling accessories

A   G₁ B   M10×1 Ø7,8 6 10 G₁ C  				0018E3A4			
Type		Thread G ₁	Ordering number	Ordering designation			
A	Refill nipple (lever grease gun)	G ¹ / ₄	095248170-0000-10 ¹⁾	ARCALUB-C1.NIPPLE-REFILL-G1/4			
B	Refill nipple (drum pump)	R ¹ / ₄	095248161-0000-10 ²⁾	ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4			
		R ³ / ₈	095248137-0000-10 ²⁾	ARCALUB-C1.NIPPLE-REFILL-GREASE-R3/8			
C	Check plug valve	—	095286780-0000-10 ³⁾	ARCALUB-C1.PLUG-OIL-VALVE			

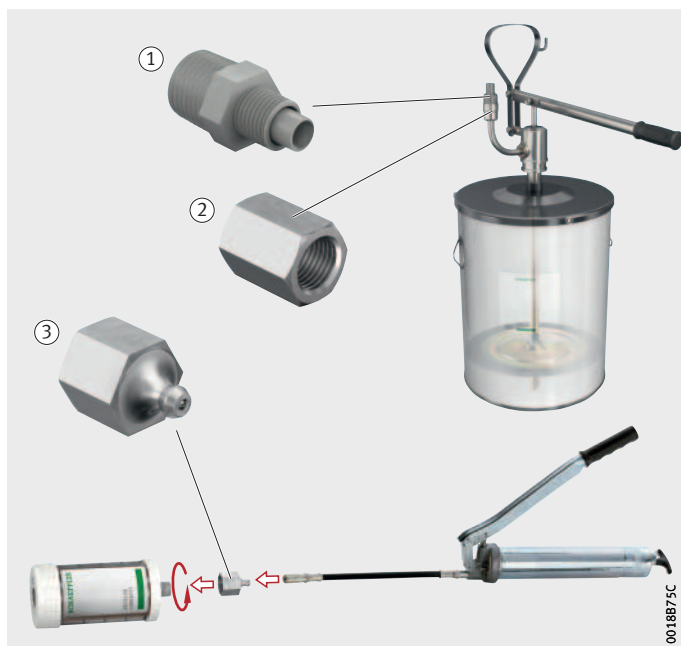
1) 3 pieces per packaging unit.

2) 1 piece per packaging unit.

3) 10 pieces per packaging unit.

- ① Refill nipple
(for drum pump)
- ② Connecting piece
(for drum pump)
- ③ Refill nipple
(for lever grease gun)

Figure 4
Refilling the lubricator by
lever grease gun or drum pump



Suitable lever grease guns and drum pumps with accessories (including the connecting piece) can also be obtained from Schaeffler, see section Manual lubrication tools, page 115.

CONCEPT1

Mounting examples

An extensive range of accessories, see page 27 onwards, allows the lubricators to be used in numerous areas of application. The use of the appropriate accessory for connection and location is essential for the correct and safe operation of the lubricators.

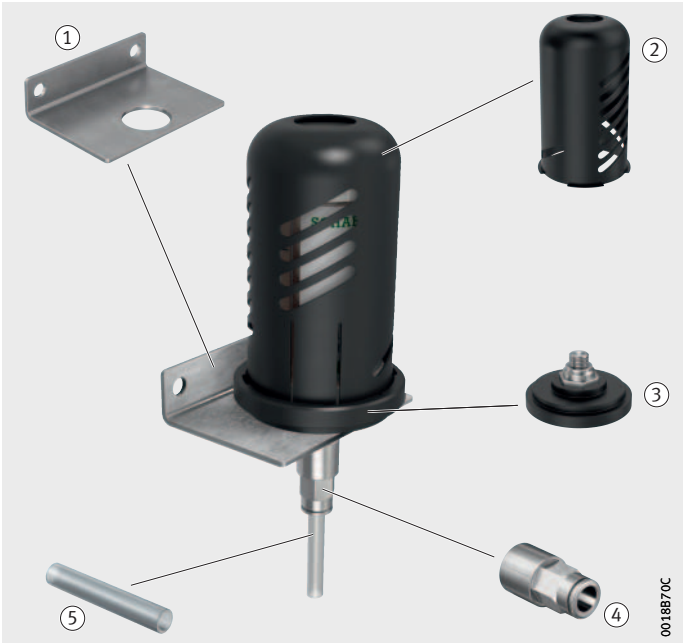
① Reducing nipple

Figure 5
Lubrication of a rolling bearing in the bearing housing



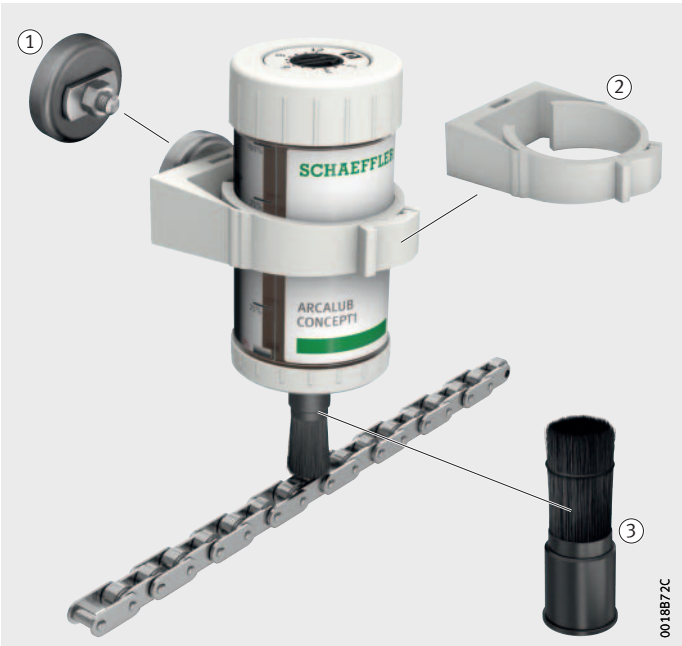
① Fixing bracket
② Protective cover
③ Mounting support
④ Hose connector part with internal thread, see page 29
⑤ Hose

Figure 6
Mounting using fixing bracket and protective cover



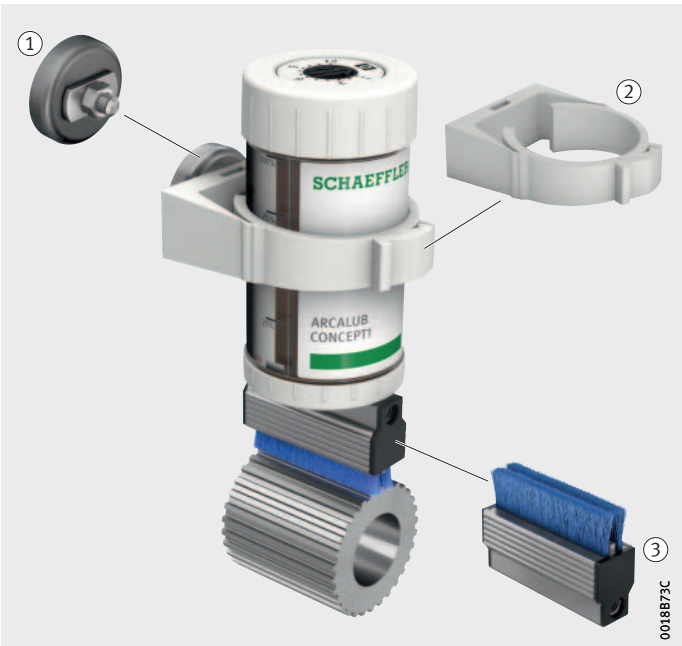
- ① Magnetic foot
- ② Retaining clamp
- ③ Brush, round

Figure 7
Lubrication of a chain



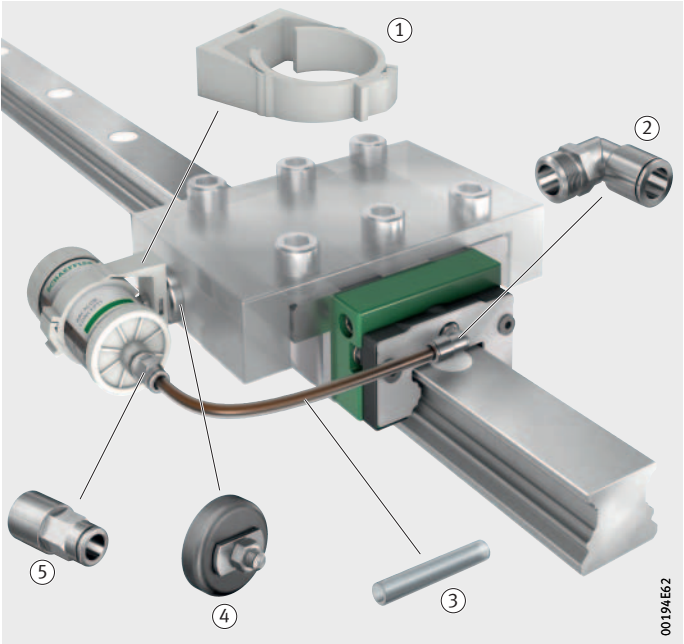
- ① Magnetic foot
- ② Retaining clamp
- ③ Brush for the food industry

Figure 8
Lubrication of a gear tooth set



① Retaining clamp
② Hose connector part with external thread, see page 84 and page 86
③ Hose
④ Magnetic foot
⑤ Hose connector part with internal thread, see page 29

Figure 9
Lubrication of a linear guidance system



Accessories and spare parts

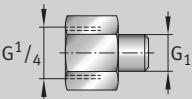
Reducing nipples

Reducing nipples are required in order to be able to use the lubricators at lubrication points with different threaded connectors.

At one end, the reducing nipples have an internal thread $G^{1/4}$, into which the lubricator is screwed. At the other end of the reducing nipples is an external thread, that is selected according to the threaded connector of the application and screw mounted accordingly.



Type overview Reducing nipples

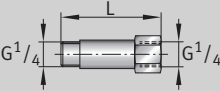
  0018B60C		
Thread	Ordering number	Ordering designation
G_1		
$G^{1/8}$	095285792-0000-10	ARCALUB-C1.NIPPLE-G1/8-G1/4
$G^{1/4}$	095285784-0000-10	ARCALUB-C1.NIPPLE-G1/4-G1/4
$G^{3/8}$	095285806-0000-10	ARCALUB-C1.NIPPLE-G3/8-G1/4
M6	095286071-0000-10	ARCALUB-C1.NIPPLE-M6-G1/4
M8	095286080-0000-10	ARCALUB-C1.NIPPLE-M8-G1/4
M8×1	095301585-0000-10	ARCALUB-C1.NIPPLE-M8X1-G1/4
M10	095286101-0000-10	ARCALUB-C1.NIPPLE-M10-G1/4
M10×1	095286721-0000-10	ARCALUB-C1.NIPPLE-M10X1-G1/4
M12	095286730-0000-10	ARCALUB-C1.NIPPLE-M12-G1/4
M12×1,5	095286748-0000-10	ARCALUB-C1.NIPPLE-M12X1,5-G1/4
UNF1/4	095286756-0000-10	ARCALUB-C1.NIPPLE-UNF1/4-G1/4

10 pieces per packaging unit.

Extensions

Extensions are screwed into place between the lubricator and the lubrication point if a direct connection is not possible due to the adjacent construction.

Type overview Extensions

  0018B61C		
Length	Ordering number	Ordering designation
L		
mm		
35	095285725-0000-10	ARCALUB-C1.EXTEND-35MM-G1/4
50	095285733-0000-10	ARCALUB-C1.EXTEND-50MM-G1/4

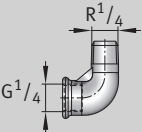
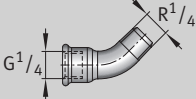
10 pieces per packaging unit.

Accessories and spare parts

Connecting pieces

Connecting pieces are screwed into place between the lubricator and the lubrication point if a direct connection is not possible due to the adjacent construction.

Type overview Connecting pieces

A B 			
Type	Angle °	Ordering number	Ordering designation
A	45	095285393-0000-10	ARCALUB-C1.CONNECT-45-G1/4-IA
B	90	095285407-0000-10	ARCALUB-C1.CONNECT-90-G1/4-IA

10 pieces per packaging unit.

Hoses

Examples of applications in which hoses can be used to connect the lubricator and lubrication points:

- The lubrication point is exposed to strong vibrations.
- The lubrication point is behind a barrier.
- The lubricator cannot be mounted directly at the lubrication point due to excessive temperatures.

The maximum length of the lubricant line when using CONCEPT1 is 0,5 m.

Before initial operation of the lubricator, the hose must be completely filled with the same lubricant that is contained in the lubricator.

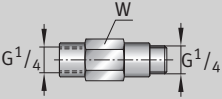
Type overview Hose

Hose made of PA12, unfilled, transparent, operating temperature = -40 °C to +90 °C, minimum bending radius = 50 mm			
			
Cross-section mm	Length L m	Ordering number	Ordering designation
8×6	5	095285750-0000-10	ARCALUB-C1.HOSE-8X6-PA12-5M

Check valves

Check valves are used with oil lubrication to prevent the filled lubricant lines from leaking.

Type overview
Check valve

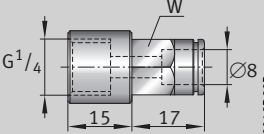
Only suitable for oil		
		
Width across flats W mm	Ordering number	Ordering designation
17	095287515-0000-10	ARCALUB-C1.CONNECT-OIL-VALVE-G1/4

Hose connector parts

In order to be able to connect a hose to a CONCEPT1 lubricator, a hose connector part with internal thread $G1/4$ is screwed onto the lubricator.

The hose connector part can be used in conjunction with a device holder, see page 31.

Type overview
Hose connector part

Push-fit hose, hose insertion depth 10 mm, hose diameter 8 mm, flat sealing over sealing ring		
		
Width across flats W mm	Ordering number	Ordering designation
13	095287051-0000-10	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G

10 pieces per packaging unit.

Further hose connector parts for
CONCEPT1

With external thread:

- straight, see table, page 84
 - ARCALUB-X.TUBEFIT-G1/8-SAT188G
 - ARCALUB-X.TUBEFIT-G1/4-SAT148G
- angled, see table, page 86:
 - ARCALUB-X.TUBEFIT-G1/8-SAT188W
 - ARCALUB-X.TUBEFIT-G1/4-SAT148W.

The hose connector parts with external thread are intended for connection to the lubrication point.



Accessories and spare parts

Device holders

The device holders facilitate the mounting of the lubricator CONCEPT1.

The retaining clamp can either be screwed directly onto a machine or located using the magnetic foot. Where strong vibrations occur at the mounting position, use of the mounting support is recommended as an aid. The fixing bracket is used in conjunction with the mounting support.

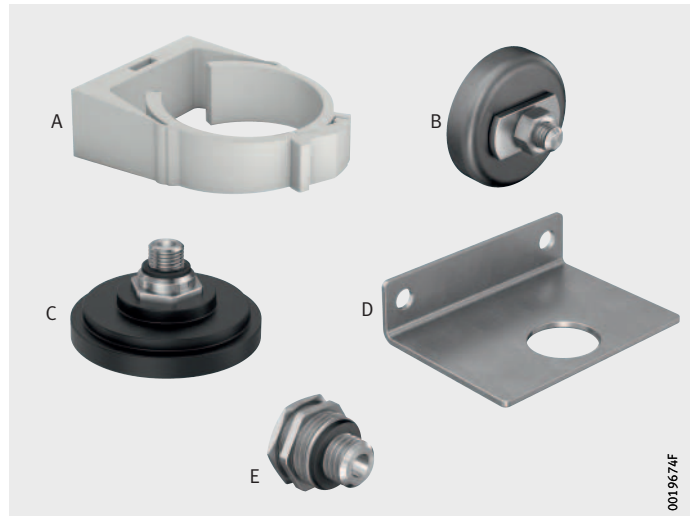
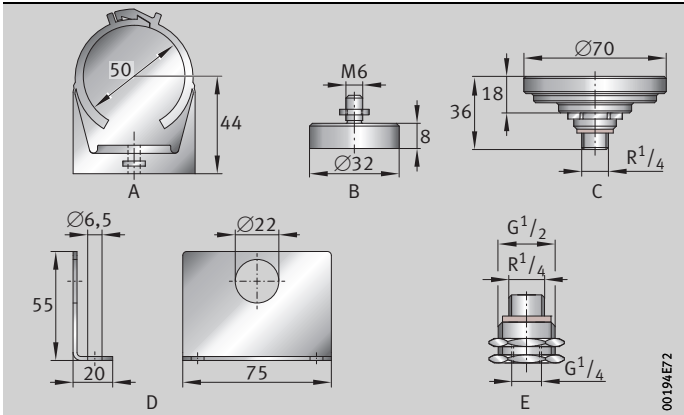


Figure 1
Device holders

Type overview
Device holders



Type	Ordering number	Ordering designation
A Retaining clamp for CONCEPT1	095285377-0000-10 ¹⁾	ARCALUB-C1.CLAMP
B Magnetic foot for retaining clamp	095285385-0000-10 ²⁾	ARCALUB-C1.CLAMP-MAGNET
C Mounting support for CONCEPT1	095285768-0000-10 ²⁾	ARCALUB-C1.MOUNT-SUPPORT-R1/4
D Fixing bracket for CONCEPT1	095285741-0000-10 ³⁾	ARCALUB-C1.FIXING-ANGLE
E Fixing nipple	096691620-0000-10 ¹⁾	ARCALUB-C1.FIXINGSCREW-G1/2-R1/4

- 1) 3 pieces per packaging unit.
2) 1 piece per packaging unit.
3) 5 pieces per packaging unit.

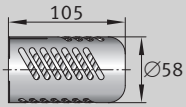


Accessories and spare parts

Protective accessories

To protect the lubricator from falling parts or shocks, a protective cover can be fitted on the mounting support.

Type overview Protective accessories



0018B65C

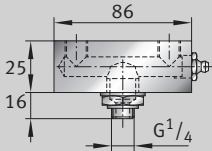
Type	Ordering number	Ordering designation
Protective cover for lubricator	095285717-0000-10	ARCALUB-C1.COVER

2-way adapter

With 2-way adapters, the capacity of two lubricators can be combined at one lubrication point. As a result, either twice the lubricant quantity can be dispensed per unit of time or the dispensing time can be doubled.

The adapter must be prefilled with the same lubricant contained in the connected lubricators, via the lubrication nipple on the side of the adapter, before initial operation.

Type overview 2-way adapter



0018D883

Type	Ordering number	Ordering designation
2-way adapter	095285326-0000-10	ARCALUB-C1.ADAPTER-TWIN

Brushes

Brushes are used for the continuous lubrication of gear teeth, drive chains and conveyor chains. They are available in various sizes and thus cover a wide range of different applications.

The type B brushes are suitable for use in the food industry. A felt insert is located between the two rows of bristles, which ensures that the lubricating oil is evenly distributed over the entire width of the brush.

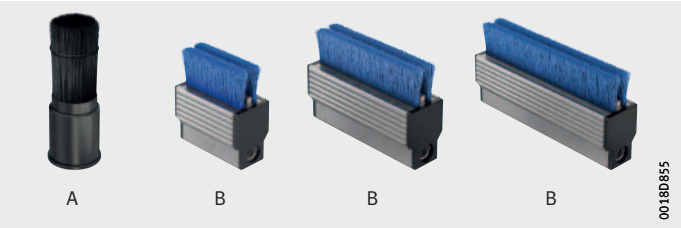


Figure 2
Brushes

Type overview Brushes

Type	Brush	Length L mm	Ordering number	Ordering designation
A	Round	–	095285334-0000-10	ARCALUB-C1.BRUSH-25MM-G1/4-G
B	For the food industry	40	095285342-0000-10	ARCALUB-C1.BRUSH-40MM-G1/4-G
		70	095285350-0000-10	ARCALUB-C1.BRUSH-70MM-G1/4-G
		100	095285369-0000-10	ARCALUB-C1.BRUSH-100MM-G1/4-G



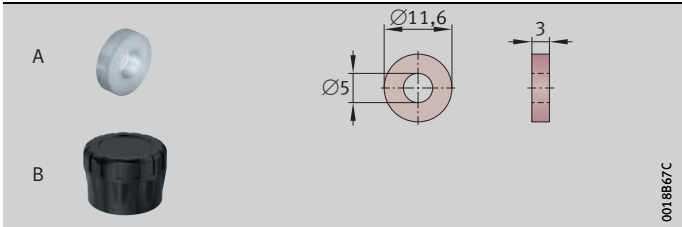
Accessories and spare parts

Spare parts If sealing rings are absolutely necessary, for example in the case of hose connector parts or brushes, they are already included in the scope of delivery for these components. In the event of wear or loss, sealing rings can then be ordered as spare parts.

In some applications, such as those involving very thin-bodied lubricating greases or high back pressure in the lubricant line, sealing rings may be required when using reducing nipples, extensions or connecting pieces. In these cases, the sealing rings must be ordered separately.

Closing plugs are already included with all lubricators as well as in the refilling kit, see page 21. They can also be ordered as spare parts, so that they are available, for example, if a lubricator that is still usable is dismantled in the interim.

Type overview
Spare parts



Technical drawing of two spare parts, A and B, and their dimensions.

Part A: A circular sealing ring. The outer diameter is $\varnothing 11,6$ and the inner diameter is $\varnothing 5$.

Part B: A cylindrical closing plug. The height is 3.

The drawing is labeled 0018867C.

Type		Ordering number	Ordering designation
A	Sealing ring (plastic)	095286802-0000-10	ARCALUB-C1.SEAL
B	Closing plug (plastic)	095287043-0000-10	ARCALUB-C1.SEAL-CAP

10 pieces per packaging unit.



Demo case, starter kit

Demo case



Figure 1
Demo case for
CONCEPT1

The demo case is particularly suitable for the External Sales function. It contains both sizes of the lubricator CONCEPT1 and an extensive selection of accessories. It can be used to explain the design and function of a lubrication system to the customer and to give an impression of the high quality design of all components.

Type overview Demo case

Type	Ordering number	Ordering designation
Demo case CONCEPT1	095287558-0000-10	DEMO-ARCALUB-C1-SET

Scope of delivery
Demo case CONCEPT1

- lubricator ARCALUB-C1-60-REFILLABLE and ARCALUB-C1-125-REFILLABLE
- scale
- drive unit
- protective cover
- 2-way adapter
- mounting support
- pedestal for presenting the lubricator
- retaining clamp
- magnetic foot for retaining clamp
- adjustable wrench
- fixing bracket
- brush, round
- brush for the food industry, 70 mm
- sealing ring (2 pieces)
- closing plug (2 pieces)
- check plug valve (2 pieces)
- hose piece, transparent, diameter = 8 mm
- hose connector part with internal thread $G^{1/4}$, straight
- hose connector part with external thread ($1 \times G^{1/8}$, $1 \times G^{1/4}$), straight
- hose connector part with external thread $G^{1/4}$, angled
- connection nipple $G^{3/8}$
- connecting piece $G^{1/4}$ ($1 \times 45^\circ$, $1 \times 90^\circ$)
- check valve
- extension $G^{1/4}$ (1×35 mm, 1×50 mm)
- lubrication nipple $R^{1/4}$
- refill nipple for drum pump ($1 \times R^{1/4}$, $1 \times R^{3/8}$)
- refill nipple $G^{1/4}$ for grease gun
- reducing nipple on bracket (10 pieces with various thread sizes).



Demo case, starter kit

Starter kit

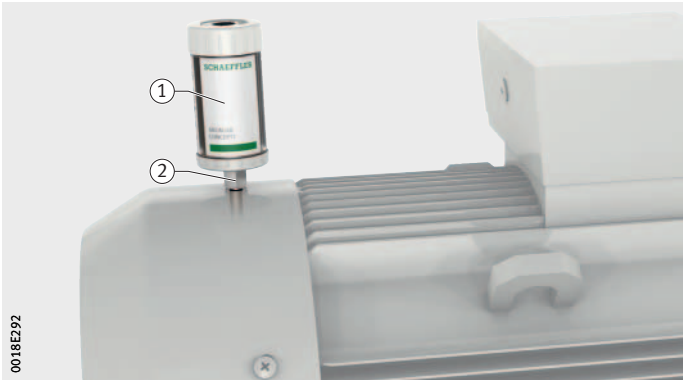
The starter kit contains all the components required to run the CONCEPT1 in test mode. The lubricator included in the kit is filled with a high-quality multi-purpose grease. The lubricator can be connected directly to a G¹/₄ thread or to a G¹/₈ thread using the reducing nipple supplied.

Each starter kit contains:

- 1×lubricator ARCALUB-C1-125-MULTITOP
- 1×reducing nipple ARCALUB-C1.NIPPLE-G1/8-G1/4.

- ① ARCALUB-C1-125-MULTITOP
- ② ARCALUB-C1.NIPPLE-G1/8-G1/4

Figure 2
Starter kit for
CONCEPT1



Type overview Starter kit

Type	Ordering number	Ordering designation
Starter kit MULTITOP, 125 cm ³	095463860-0000-10	ARCALUB-C1-KIT001



Electromechanical lubricators

CONCEPT2

CONCEPT4

CONCEPT8

Cartridges

Voltage supply, device holders

Splitters, progressive distributors

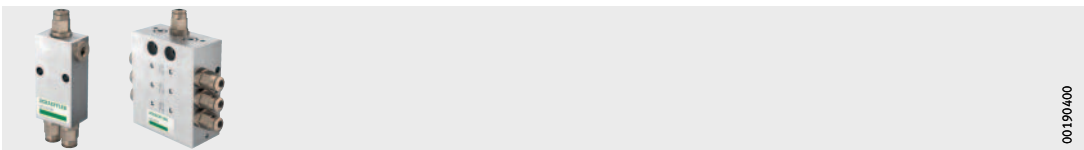
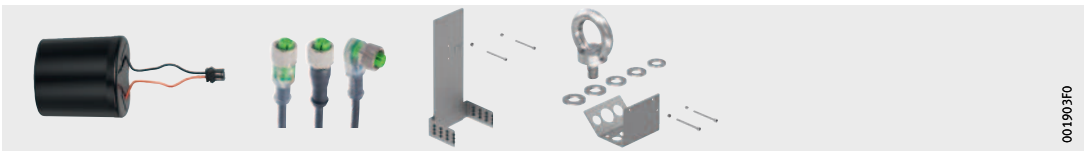
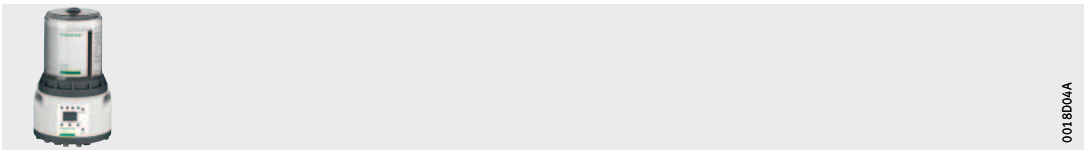
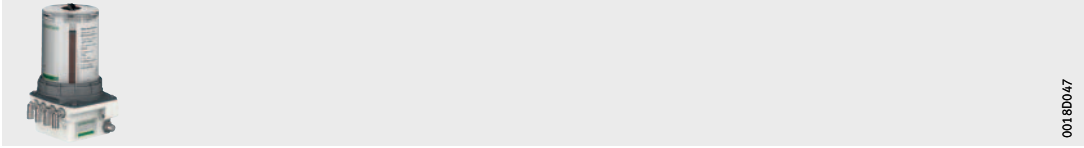
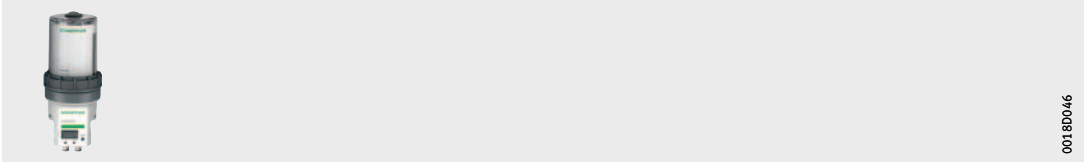
Fittings, Y pieces, check valves

Hoses, hose cutters

Demo case, kits

Electromechanical lubricators

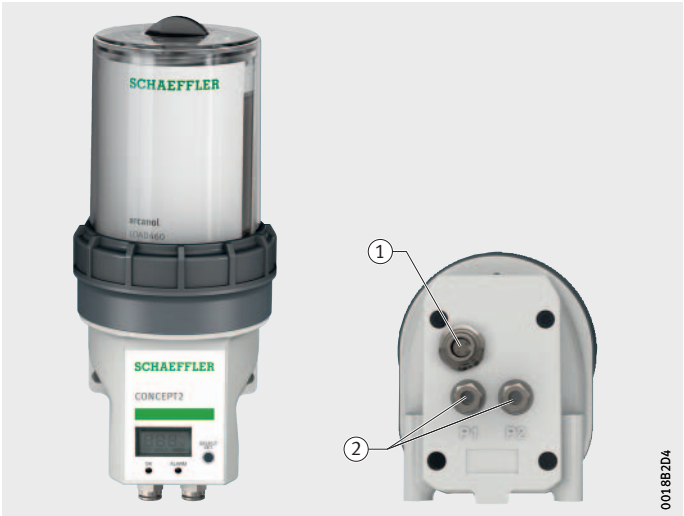
CONCEPT2	42
These lubricators to protection class IP54 offer, with their two pump bodies, a high degree of flexibility for the supply of grease or oil as a lubricant.	
CONCEPT4	48
These lubricators to protection class IP54 offer, with their two pump bodies, a high degree of flexibility for the supply of grease as a lubricant.	
CONCEPT8	54
These lubricators to protection class IP65 offer, with their two or four pump bodies, a high degree of flexibility for the supply of grease or oil as a lubricant.	
Cartridges	60
Cartridges are available filled with Arcanol lubricants, filled with customer-specific grease and unfilled.	
Voltage supply, device holders	70
The lubrication systems can be supplied with voltage via a battery (CONCEPT2 only) or via a connection cable with plug. Device holders facilitate the mounting of the equipment.	
Splitters, progressive distributors	75
Splitters and progressive distributors offer the possibility of branching a pump outlet.	
Fittings, Y pieces, check valves	80
For the connection of lubricant lines to the lubricator or the lubrication point, there is an extensive range of fittings available.	
Hoses, hose cutters	88
A reliable supply of lubricant can be achieved by means of various hose diameters in graduated lengths as well as special hose cutters.	
Demo case, kits	90
Demo case (CONCEPT2, CONCEPT8), complete packages for electric motors (CONCEPT2), seal kits (CONCEPT8) and cover kits (CONCEPT2, CONCEPT4, CONCEPT8).	



CONCEPT2

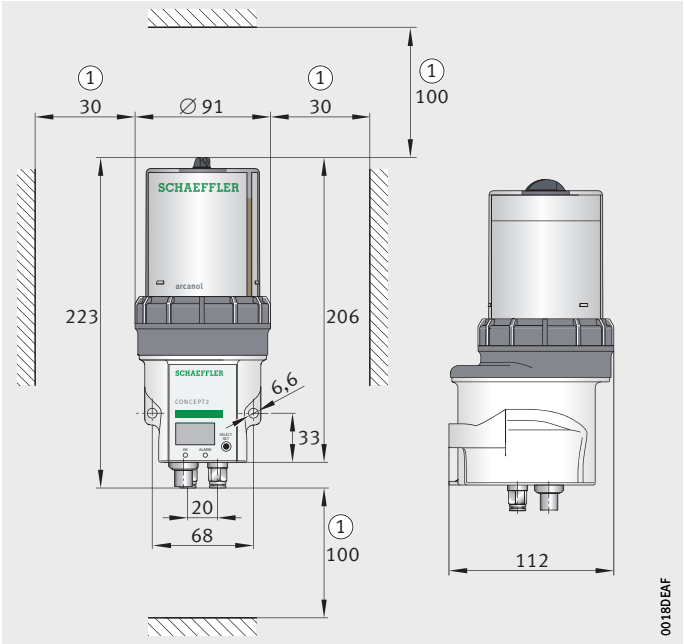
- ① Multi-function interface for voltage supply and I/O communication
- ② Outlets of piston pumps P1 and P2

Figure 1
CONCEPT2-...-24VDC
with multi-function interface



- ① Minimum distances necessary for the mounting and dismounting of the cartridge and hose connectors

Figure 2
Dimensions and
minimum distances



Advantages of the lubricator CONCEPT2

- automatic lubricator for grease and oil (Arcanol range; other lubricants by agreement)
- easy to use and intuitive programming via LCD display in control panel
- flexible:
filled cartridges containing Arcanol lubricants from Schaeffler or unfilled cartridges for customers to fill with their own greases
- sustainable:
the cartridges can be filled up to three times and are kind to the environment
- cost-effective:
good price/performance ratio compared with other lubricators of the same device class
- two independently controllable special piston pumps (integrated back pressure monitoring) facilitate long lubrication lines
- lubrication intervals can either be controlled internally via an integrated timer or externally via PLC
- voltage supply either via battery or mains connection (DC 24 V)
- output of error messages via display, status LED and multi-function interface.



Further information

Brochures:

- ICB CONCEPT2, The lubrication system that gets straight to the point
<https://www.schaeffler.de/std/1F5D>
- FCE Rolling Bearing Lubrication Made Easy (CONCEPT2 EKIT)
<https://www.schaeffler.de/std/1F5A>
- FBS Systematic Lubrication, Intelligent solutions for your systems engineering
<https://www.schaeffler.de/std/1F5C>

User manuals:

- BA 39 CONCEPT2
<https://www.schaeffler.de/std/1F60>
- BA 40 CONCEPT2 (DC 24 V)
<https://www.schaeffler.de/std/1F61>

Reference sheet:

- GTS 0132 Automatic Lubrication of Belt Conveyor Systems in Brown Coal Opencast Mining
<https://www.schaeffler.de/std/1F65>



CONCEPT2

Type overview
CONCEPT2

With battery, for grease lubrication with hose diameter 6 mm			
Pump body	Outlets	Ordering number	Ordering designation
Quantity	Quantity		
2	2	086872931-0000-10	ARCALUB-C2-2P

Type overview
CONCEPT2-2P-24VDC

With connector for DC 24 V, for grease lubrication with hose diameter 6 mm			
Pump body	Outlets	Ordering number	Ordering designation
Quantity	Quantity		
2	2	086873105-0000-10	ARCALUB-C2-2P-24VDC

Type overview
CONCEPT2-2P-OIL-24VDC

With connector for DC 24 V, for oil lubrication with hose diameter 6 mm			
Pump body	Outlets	Ordering number	Ordering designation
Quantity	Quantity		
2	2	092246265-0000-10	ARCALUB-C2-2P-OIL-24VDC

Features of the device variants

Feature		ARCALUB-C2-		
		2P	2P-24VDC	2P-24VDC-OIL
Pump control	Internally by timer	●	●	●
	Externally via PLC	–	●	●
Grease (replaceable cartridge, 250 cm ³)		●	●	–
Oil (built-in oil reservoir, 300 cm ³)		–	–	●
Internal voltage supply, DC 3 V (battery)		●	–	–
External voltage supply, DC 24 V (multi-function interface)		–	●	●

Technical data
CONCEPT2
CONCEPT2-...-24VDC
CONCEPT2-...-OIL-24VDC

Feature		Value
Dimensions		91 mm×223 mm×112 mm
Mass (without cartridge)		≈ 1 kg
Mounting position		Vertical
Protection class		IP54
Housing material		Polyamide
Lubricant volume	Grease cartridge	250 cm ³
	Oil	280 cm ³
Lubricant	Grease	Grease up to NLGI 2 ¹⁾
	Oil	> 68 cSt
Functional principle		Piston pump
Operating pressure	DC 24 V	50 bar +7,5/-5 bar
	Battery	30 bar +4,5/-3 bar
Metering volume per outlet with one delivery stroke		0,16 cm ³ 0/-0,008 cm ³
Guaranteed number of lubrication cycles per outlet		50 000 (corresponding to approx. 7 500 cm ³ of lubricant)
Number of outlets		2
Outside diameter of the lubricant line		6 mm
Number of lubrication points		Depending on hose connector: ■ ≤ 2 (direct) ■ ≤ 4 (with splitters) ■ > 4 (with progressive distributors)²⁾
Connection		PA hose
Operating temperature		-20 °C up to +70 °C
Operating voltage		DC 24 V +4,8/-4,8 V (stabilised) via cable
		3-V lithium-metal battery
Connection plug for multi-function interface		M12×1, 4 pin (only for DC 24 V)
Current consumption	DC 24 V	I _{max} ≤ 250 mA
Control of the lubrication intervals		Integrated time control by timer, 25 minutes to 925 minutes
		External time control via multi-function interface (PLC)
Error output via display (error message with error code)		Empty, original cartridge missing, pump body motor too slow, internal electrical defect, back pressure too high
Status information via the multi-function interface		Empty, collective error, signal for successfully completed lubrication cycle

- 1) Arcanol greases up NLGI 2
(taking into account the maximum lubricant line length).
Other greases up to NLGI 2
(with experimental determination of maximum lubricant line length).
No solid particles (except PTFE).
- 2) Technical clarification necessary.



CONCEPT2

Ordering example

When ordering, the components must be selected according to the application. The ordering designation and ordering number must always be stated.

Example

CONCEPT2 (battery version), grease cartridge with Arcanol MULTITOP, hose 10 m, 2 lubrication points with internal thread M8.

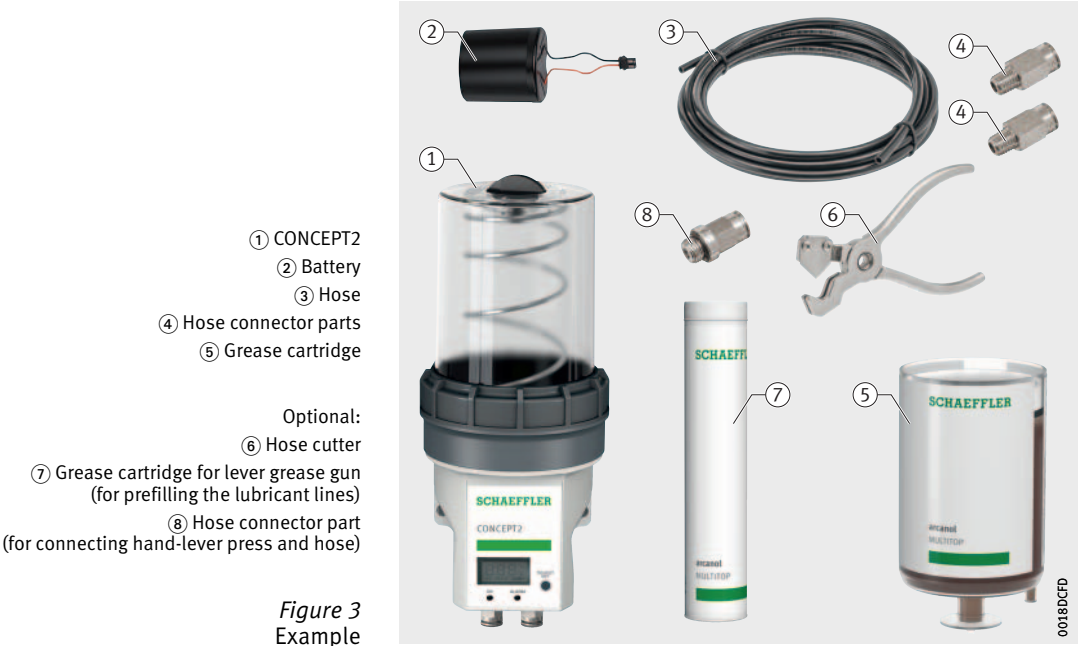


Figure 3
Example

Example Ordering

Item	Ordering		
	Quantity	Ordering number	Ordering designation
①	1	086872931-0000-10	ARCALUB-C2-2P
②	1	087314762-0000-10	ARCALUB-C2.BATTERY
③	1	076691497-0000-10	ARCALUB-X.HOSE-PA12-10M
④	2	079567428-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT086G
⑤	1	087328810-0000-10	ARCALUB-C2.LC250-MULTITOP
⑥	1	083788620-0000-10	ARCALUB-X.HOSE-CUTTOOL
⑦	1	019144016-0000-10	ARCANOL-MULTITOP-400G
⑧	1	084465905-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT186G



CONCEPT4

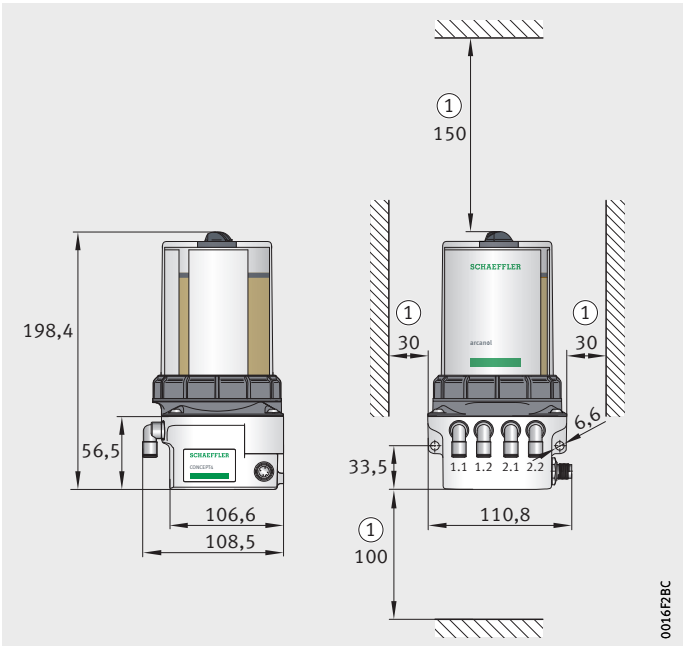
- ① Multi-function interface for voltage supply and I/O interface
- ② Outlets of piston pumps P1 to P2

Figure 1
CONCEPT4
with multi-function interface



- ① Minimum distances necessary for the mounting and dismounting of the cartridge and hose connectors

Figure 2
Dimensions and
minimum distances



Advantages of the lubricator CONCEPT4

- automatic lubricator for grease and oil (Arcanol range; other lubricants by agreement)
- flexible:
filled cartridges containing Arcanol lubricants from Schaeffler or unfilled cartridges for customers to fill with their own greases
- sustainable:
the cartridges can be filled up to three times and are kind to the environment
- cost-effective:
good price/performance ratio compared with other lubricators of the same device class
- two independently controllable special piston pumps (integrated back pressure monitoring) facilitate long lubrication lines
- control of the lubrication intervals via PLC
- output of error messages via multi-function interface.



The lubricator has no operating and display unit that could be used for programming and status display. As a result, it must always be integrated into an external controller (PLC) for operation.

Further information

Brochures:

- ICC CONCEPT4, The lubrication system that gets straight to the point
<https://www.schaeffler.de/std/1F7B>
- FBS Systematic Lubrication, Intelligent solutions for your systems engineering
<https://www.schaeffler.de/std/1F5C>

User manuals:

- BA 67 CONCEPT4
<https://www.schaeffler.de/std/1F6B>



CONCEPT4

Type overview
CONCEPT4

With connector for DC 24 V, for grease lubrication with hose diameter 8 mm			
Pump body	Outlets	Ordering number	Ordering designation
Quantity	Quantity		
2	4	094901589-0000-10	ARCALUB-C4-2P-24VDC

Technical data
CONCEPT4

Feature	Value
Dimensions	108,5 mm×198,4 mm×110,8 mm
Mass (without grease cartridge)	≈ 1,3 kg
Mounting position	Vertical
Protection class	IP54
Housing material	Die-cast zinc, PA66-GF30, POM
Lubricant volume (grease cartridge)	400 cm ³
Lubricant medium	Grease up to NLGI 2 ¹⁾
Functional principle	Piston pump
Operating pressure	70 bar +7/-10,5 bar
Metering volume per outlet with one delivery stroke	0,16 cm ³ 0/-0,008 cm ³
Guaranteed number of lubrication cycles per outlet	65 000 (corresponding to approx. 9 750 cm ³ of lubricant)
Number of outlets	4
Outside diameter of the lubricant line	8 mm
Number of lubrication points	Depending on the connection for the lubricant lines: ■ ≤ 4 (direct) ■ ≤ 8 (with splitters) ■ > 12 (with progressive distributors)²⁾
Connection	PA hose
Operating temperature	-15 °C up to +60 °C
Operating voltage (stabilised)	DC 24 V +4,8/-4,8 V
Connection plug for multi-function interface	M12×1, 4 pin
Current consumption DC 24 V	I _{max} ≤ 350 mA
Control of the lubrication intervals	External time control via multi-function interface (PLC)
Status information via the multi-function interface	Advance fill level warning, empty, collective error, signal for successfully completed lubrication cycle

- ¹⁾ Arcanol-greases up NLGI 3
(taking into account the maximum lubricant line length).
Other greases up to NLGI 2
(with experimental determination of maximum lubricant line length).
No solid particles (except PTFE).
- ²⁾ Technical clarification necessary.



CONCEPT4

Ordering example

When ordering, the components must be selected according to the application. The ordering designation and ordering number must always be stated.

Example

CONCEPT4, grease cartridge with Arcanol MULTITOP, hose 50 m, 4 lubrication points with internal thread M8.

- ① CONCEPT4

② Connection cable with plug

③ Hose

④ Hose connector parts

⑤ Grease cartridge
- Optional:

⑥ Hose cutter

⑦ Grease cartridge for lever grease gun
(for prefilling the lubricant lines)

⑧ Hose connector part
(for connecting hand-lever press and hose)

Figure 3
Example



Example Ordering

Item	Ordering		
	Quantity	Ordering number	Ordering designation
①	1	094901589-0000-10	ARCALUB-C4-2P-24VDC
②	1	075378361-0000-10	ARCALUB-X.CABLE-M12-10M
③	1	083788603-0000-10	ARCALUB-X.HOSE-PA66-50M
④	4	083654216-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT088G
⑤	1	095056777-0000-10	ARCALUB-C4.LC400-MULTITOP
⑥	1	083788620-0000-10	ARCALUB-X.HOSE-CUTTOOL
⑦	1	019144016-0000-10	ARCANOL-MULTITOP-400G
⑧	1	083654534-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT188G



CONCEPT8

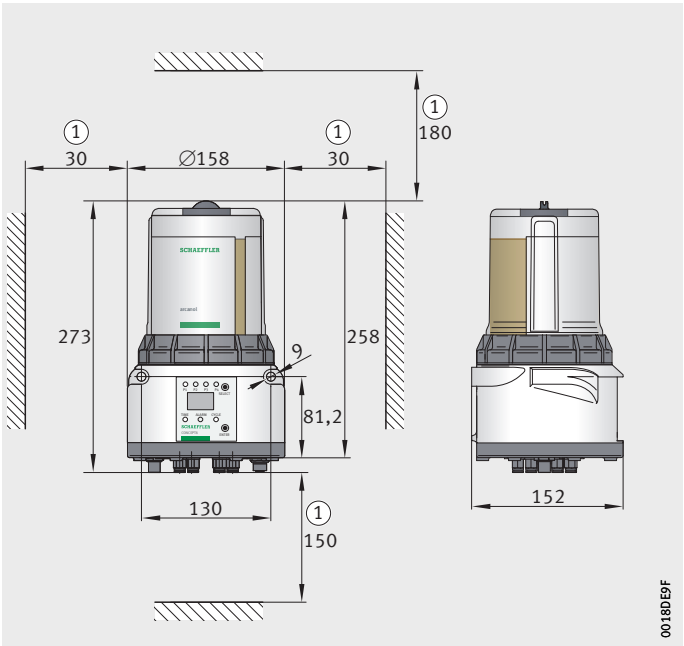
- ① Multi-function interface for voltage supply and I/O interface
- ② Outlets of piston pumps P1 to P4

Figure 1
CONCEPT8
with multi-function interface



- ① Minimum distances necessary for the mounting and dismounting of the cartridge and hose connectors

Figure 2
Dimensions and
minimum distances



Advantages of the lubricator CONCEPT8

- automatic lubricator for grease and oil (Arcanol range; other lubricants by agreement)
- easy to use and intuitive programming via LCD display in control panel
- flexible:
filled cartridges containing Arcanol lubricants from Schaeffler or unfilled cartridges for customers to fill with their own greases
- sustainable:
the cartridges can be filled up to three times and are kind to the environment
- cost-effective:
good price/performance ratio compared with other lubricators of the same device class
- up to four independently controllable special piston pumps (dual piston body with integrated back pressure monitoring) facilitate long lubrication lines
- lubrication intervals can either be controlled internally via an integrated timer or externally via PLC
- output of error messages via display, status LED and multi-function interface.



Further information

Brochures:

- ICD CONCEPT8, The lubrication system that gets straight to the point
<https://www.schaeffler.de/std/1F7C>
- FBS Systematic Lubrication, Intelligent solutions for your systems engineering
<https://www.schaeffler.de/std/1F5C>

User manuals:

- BA 36 CONCEPT8
<https://www.schaeffler.de/std/1F5E>
- BA 37 CONCEPT8-OIL
<https://www.schaeffler.de/std/1F5F>

Reference sheet:

- GTS 0113 Automatic Lubrication of Belt Conveyor Systems in Brown Coal Opencast Mining
<https://www.schaeffler.de/std/1F62>
- GTS 0115 Automatic Lubrication of a Wide Belt Sanding Machine in a Hardwood Saw Mill
<https://www.schaeffler.de/std/1F63>
- GTS 0113 Automatic Lubrication of a Large-Size Fan
<https://www.schaeffler.de/std/1F64>

CONCEPT8

Type overview CONCEPT8

With connector for DC 24 V, for grease lubrication with hose diameter 8 mm			
Pump body Quantity	Outlets Quantity	Ordering number	Ordering designation
2	4 ¹⁾	082249156-0000-10	ARCALUB-C8-2P
4	8 ¹⁾	082266646-0000-10	ARCALUB-C8-4P

¹⁾ Adjustment by deactivation of pump bodies and by combination or splitting of outlets.

Type overview CONCEPT8-...-OIL

With connector for DC 24 V, for oil lubrication with hose diameter 6 mm			
Pump body Quantity	Outlets Quantity	Ordering number	Ordering designation
2	4 ¹⁾	083786910-0000-10	ARCALUB-C8-2P-OIL
4	8 ¹⁾	083787062-0000-10	ARCALUB-C8-4P-OIL

¹⁾ Adjustment by deactivation of pump bodies and by combination or splitting of outlets.

Technical data
CONCEPT8
CONCEPT8-...OIL

Feature		Value
Dimensions		158 mm×273 mm×152 mm
Mass (without cartridge)		≈ 3 kg
Mounting position		Vertical
Protection class		IP65
Housing material		Aluminium (powder coated), polyamide
Lubricant volume	Grease cartridge	800 cm ³
	Oil	1 000 cm ³
Lubricant	Grease	Grease up to NLGI 2 ¹⁾
	Oil	> 68 cSt
Functional principle		Piston pump
Operating pressure		70 bar +7/-10,5 bar
Metering volume per outlet with one delivery stroke		0,16 cm ³ 0/-0,008 cm ³
Guaranteed number of lubrication cycles per outlet		65 000 (corresponding to approx. 9 750 cm ³ of lubricant)
Number of outlets		max. 8
Outside diameter of the lubricant line	Grease	8 mm
	Oil	6 mm
Number of lubrication points		Depending on hose connector: ■ ≤ 8 (direct) ■ ≤ 16 (with splitters) ■ > 16 (with progressive distributors)²⁾
Connection		PA hose
Operating temperature		-20 °C up to +70 °C
Operating voltage (stabilised)		DC 24 V +4,8/-4,8 V
Connection plug for multi-function interface		M12×1, 4 pin
Current consumption	DC 24 V	I _{max} ≤ 350 mA
Control of the lubrication intervals		Integrated time control by timer, 1 hour to 240 hours
		External time control via multi-function interface (PLC)
Error output via display (error message with error code)		Empty, original cartridge missing, pump body motor too slow, internal electrical defect, back pressure too high
Status information via the multi-function interface		Collective error, signal for successfully completed lubrication cycle

- ¹⁾ Arcanol greases up NLGI 3
(taking into account the maximum lubricant line length).
Other greases up to NLGI 2
(with experimental determination of maximum lubricant line length).
No solid particles (except PTFE).
- ²⁾ Technical clarification necessary.



CONCEPT8

Ordering example

When ordering, the components must be selected according to the application. The ordering designation and ordering number must always be stated.

Example

CONCEPT8, grease cartridge with Arcanol MULTITOP, hose 50 m, 8 lubrication points with internal thread M8.

- ① CONCEPT8

② Connection cable with plug

③ Hose

④ Hose connector parts

⑤ Grease cartridge
- Optional:

⑥ Hose cutter

⑦ Grease cartridge for lever grease gun (for prefilling the lubricant lines)

⑧ Hose connector part (for connecting hand-lever press and hose)

Figure 3
Example



Example Ordering

Item	Ordering		
	Quantity	Ordering number	Ordering designation
①	1	082266646-0000-10	ARCALUB-C8-4P
②	1	075378361-0000-10	ARCALUB-X.CABLE-M12-10M
③	1	083788603-0000-10	ARCALUB-X.HOSE-PA66-50M
④	8	083654216-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT088G
⑤	1	082631492-0000-10	ARCALUB-C8.LC800-MULTITOP
⑥	1	083788620-0000-10	ARCALUB-X.HOSE-CUTTOOL
⑦	1	019144016-0000-10	ARCANOL-MULTITOP-400G
⑧	1	083654534-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT188G



Cartridges

Cartridges,
filled with Arcanol grease
Grease cartridges
for CONCEPT2

The grease cartridges for the lubricator CONCEPT2 have a grease volume of 250 cm³, *Figure 1*.



Figure 1
Grease cartridge
for CONCEPT2

Type overview
Standard grease cartridges
250 cm³

Grease	Ordering number	Ordering designation
Arcanol CLEAN-M	087334194-0000-10	ARCALUB-C2.LC250-CLEAN-M
Arcanol Food2	087334020-0000-10	ARCALUB-C2.LC250-FOOD2
Arcanol LOAD150	087329077-0000-10	ARCALUB-C2.LC250-LOAD150
Arcanol LOAD220	087329115-0000-10	ARCALUB-C2.LC250-LOAD220
Arcanol LOAD400	087329131-0000-10	ARCALUB-C2.LC250-LOAD400
Arcanol LOAD460	087329140-0000-10	ARCALUB-C2.LC250-LOAD460
Arcanol LOAD1000	087329280-0000-10	ARCALUB-C2.LC250-LOAD1000
Arcanol MULTI2	087328038-0000-10	ARCALUB-C2.LC250-MULTI2
Arcanol MULTITOP	087328810-0000-10	ARCALUB-C2.LC250-MULTITOP
Arcanol MOTION2	087334216-0000-10	ARCALUB-C2.LC250-MOTION2
Arcanol SEMIFLUID	095195831-0000-10	ARCALUB-C2.LC250-SEMIFLUID
Arcanol SPEED2,6	087334046-0000-10	ARCALUB-C2.LC250-SPEED2,6
Arcanol TEMP90	087329816-0000-10	ARCALUB-C2.LC250-TEMP90
Arcanol TEMP110	087329840-0000-10	ARCALUB-C2.LC250-TEMP110
Arcanol TEMP120	087329980-0000-10	ARCALUB-C2.LC250-TEMP120
Arcanol TEMP200	087329999-0000-10	ARCALUB-C2.LC250-TEMP200

Further information

Technical Product Information:

- TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>

Datasheet:

- FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>

**Grease cartridges
for CONCEPT4**

The grease cartridges for the lubricator CONCEPT4 have a grease volume of 400 cm³, *Figure 2*.



Figure 2
Grease cartridge
for CONCEPT4

**Type overview
Standard grease cartridges
400 cm³**

Grease	Ordering number	Ordering designation
Arcanol CLEAN-M	095058125-0000-10	ARCALUB-C4.LC400-CLEAN-M
Arcanol EM-L038	095058141-0000-10	ARCALUB-C4.LC400-EM-L038
Arcanol Food2	095058117-0000-10	ARCALUB-C4.LC400-FOOD2
Arcanol LOAD150	095056785-0000-10	ARCALUB-C4.LC400-LOAD150
Arcanol LOAD220	095056793-0000-10	ARCALUB-C4.LC400-LOAD220
Arcanol LOAD400	095056807-0000-10	ARCALUB-C4.LC400-LOAD400
Arcanol LOAD460	095058010-0000-10	ARCALUB-C4.LC400-LOAD460
Arcanol LOAD1000	095058028-0000-10	ARCALUB-C4.LC400-LOAD1000
Arcanol MULTI2	095056769-0000-10	ARCALUB-C4.LC400-MULTI2
Arcanol MULTI3	095056750-0000-10	ARCALUB-C4.LC400-MULTI3
Arcanol MULTITOP	095056777-0000-10	ARCALUB-C4.LC400-MULTITOP
Arcanol MOTION2	095058133-0000-10	ARCALUB-C4.LC400-MOTION2
Arcanol SEMIFLUID	095195823-0000-10	ARCALUB-C4.LC400-SEMIFLUID
Arcanol SPEED2,6	095058087-0000-10	ARCALUB-C4.LC400-SPEED2,6
Arcanol TEMP90	095058044-0000-10	ARCALUB-C4.LC400-TEMP90
Arcanol TEMP110	095058052-0000-10	ARCALUB-C4.LC400-TEMP110
Arcanol TEMP120	095058060-0000-10	ARCALUB-C4.LC400-TEMP120
Arcanol TEMP200	095058079-0000-10	ARCALUB-C4.LC400-TEMP200
Arcanol Vib3	095058095-0000-10	ARCALUB-C4.LC400-VIB3

Further information

- Technical Product Information:
- TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>
- Datasheet:
- FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>

Cartridges

Grease cartridges for CONCEPT8

The grease cartridges for the lubricator CONCEPT8 have a grease volume of 800 cm³, *Figure 3*.



Figure 3
Grease cartridge for CONCEPT8

Type overview Standard grease cartridges 800 cm³

Grease	Ordering number	Ordering designation
Arcanol CLEAN-M	083549129-0000-10	ARCALUB-C8.LC800-CLEAN-M
Arcanol FOOD2	083549064-0000-10	ARCALUB-C8.LC800-FOOD2
Arcanol LOAD150	083532439-0000-10	ARCALUB-C8.LC800-LOAD150
Arcanol LOAD220	083533583-0000-10	ARCALUB-C8.LC800-LOAD220
Arcanol LOAD400	083533761-0000-10	ARCALUB-C8.LC800-LOAD400
Arcanol LOAD460	083533818-0000-10	ARCALUB-C8.LC800-LOAD460
Arcanol LOAD1000	083548343-0000-10	ARCALUB-C8.LC800-LOAD1000
Arcanol MULTI2	083532412-0000-10	ARCALUB-C8.LC800-MULTI2
Arcanol MULTI2	083548289-0000-10	ARCALUB-C8.LC800-MULTI3
Arcanol MULTITOP	082631492-0000-10	ARCALUB-C8.LC800-MULTITOP
Arcanol SEMIFLUID	095195815-0000-10	ARCALUB-C8.LC800-SEMIFLUID
Arcanol SPEED2,6	083548629-0000-10	ARCALUB-C8.LC800-SPEED2,6
Arcanol TEMP90	083533630-0000-10	ARCALUB-C8.LC800-TEMP90
Arcanol TEMP110	083548580-0000-10	ARCALUB-C8.LC800-TEMP110
Arcanol TEMP120	083548599-0000-10	ARCALUB-C8.LC800-TEMP120
Arcanol TEMP200	083548602-0000-10	ARCALUB-C8.LC800-TEMP200
Arcanol VIB3	083549099-0000-10	ARCALUB-C8.LC800-VIB3

Further information

Technical Product Information:

- TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>

Datasheet:

- FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>

Cartridges, filled with customer-specific grease

The filling of grease cartridges for lubricators CONCEPT2, CONCEPT4 and CONCEPT8 with customer-specific greases is possible by agreement. This is subject to successful compatibility testing by Schaeffler.

- Labelling:

① Basic label
 ② Position for identification label
 ③ Customer-specific logo
 ④ Customer-specific article text

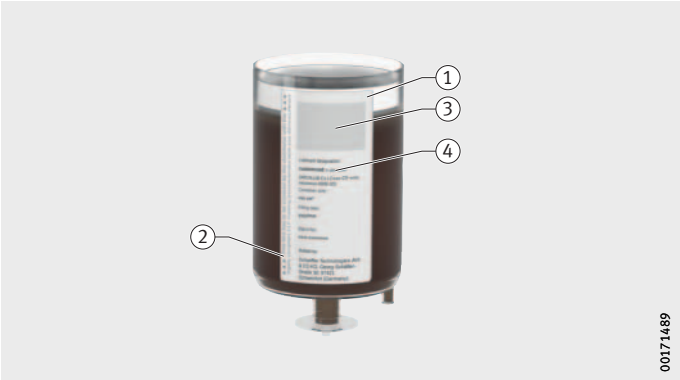
Figure 4
Customer-specific grease cartridges
(example CONCEPT2)

Order quantity

A fixed order quantity is specified according to the device-specific design of the grease cartridges.

Grease cartridges per packaging unit

Grease cartridge for	Number of grease cartridges per packaging unit
CONCEPT2	20
CONCEPT4	12
CONCEPT8	6



Cartridges

Labelling	Each grease cartridge is furnished with a basic label and, if subject to an identification requirement, with an additional identification label.
Basic label	Schaeffler is responsible for the basic label. The basic label is created by Schaeffler and stuck to the cartridge. The basic label contains information about the lubricant, the filling quantity and the filling date. The customer has the option of providing his own logo and lubricant designation so that Schaeffler can also print this information on the basic label. Schaeffler is named as the filler on the basic label. The distributor is the customer who instructs Schaeffler to supply and fill the grease cartridges.
Identification label	The customer is responsible for the identification label. The identification label is designed and printed by the customer and made available to Schaeffler. Schaeffler sticks the identification label to the cartridge and additionally to the outer packaging of each cartridge. The customer must therefore provide duplicate copies of the identification label (2 identification labels for each ordered cartridge). An identification label is only required if an identification requirement exists in accordance with directive (EC) no. 1272/2008 of the European Union. This directive also contains the specific regulations governing identification. The maximum size of the identification label for the cartridges of lubricators CONCEPT2, CONCEPT4 and CONCEPT8 is 92 mm×134 mm. The label is usually designed as a booklet label.

Ordering procedure	The ordering of customer-specific grease cartridges is carried out in 3 phases.
Phase 1	The customer sends the following documents to Schaeffler with the enquiry: ■ technical datasheet of the grease ■ safety datasheet of the grease. E-mail to: ■ lubrication@schaeffler.com
Phase 2	Schaeffler checks, on the basis of the datasheets provided: ■ whether the grease is suitable for use in the CONCEPT lubricators ■ whether an identification requirement exists in accordance with directive (EC) no. 1272/2008. If the grease is suitable for the lubricators, Schaeffler prepares a quotation. If an identification requirement exists, the quotation will contain information on the required provision of the identification label.
Phase 3	The customer places the order and provides the grease quantity required for filling, as well as the identification labels if required. The grease must be provided in the original container (5 kg, 10 kg, 25 kg, 50 kg or 180 kg), stating the batch number and filling date. When the grease is received, Schaeffler fills the cartridges, sticks the labels to them and delivers the cartridges to the customer. Any grease quantities remaining after the order has been carried out cannot be stored by Schaeffler and will be disposed of. Delivery address: ■ Schaeffler Technologies AG & Co. KG Bau 50 – Monteur Georg-Schäfer-Straße 30 97421 Schweinfurt Germany.



Cartridges

Cartridges, unfilled

Unfilled grease cartridges can be filled by the actual customer. This permits the additional flexible use of lubricators for customer-specific lubricants.

- CONCEPT2
- ① Refillable cartridge

② Closing plug

③ Filling adapter
- CONCEPT4
- ④ Refillable cartridge

⑤ Closing plug

⑥ Filling adapter
- CONCEPT8
- ⑦ Refillable cartridge

⑧ Closing plug

⑨ Filling adapter

Figure 5
Refillable grease cartridges



Type overview Refillable grease cartridges

Type		Ordering number	Ordering designation
Cartridge for	CONCEPT2 with 250 cm ³	095028803-0000-10	ARCALUB-C2.LC250-REFILLABLE
	CONCEPT4 with 400 cm ³	095058036-0000-10	ARCALUB-C4.LC400-REFILLABLE
	CONCEPT8 with 800 cm ³	095028790-0000-10	ARCALUB-C8.LC800-REFILLABLE

The refillable cartridges are supplied with a closing plug.
The closing plugs can be reordered.

Type overview Closing plugs

Type		Ordering number	Ordering designation
Closing plugs for	CONCEPT2	095179879-0000-10	ARCALUB-C2.LC250-SEAL-CAP
	CONCEPT4	095179887-0000-10	ARCALUB-C4.LC400-SEAL-CAP
	CONCEPT8	095179895-0000-10	ARCALUB-C8.LC800-SEAL-CAP

10 pieces per packaging unit.

The refillable cartridges can be filled directly from a drum pump using special filling adapters. The filling adapters have an internal thread G¹/₄.

Type overview
Filling adapters

Type	Ordering number	Ordering designation
Filling adapter for CONCEPT2	095179909-0000-10	ARCALUB-C2.LC250-RF-ADAPTER
CONCEPT4	095180818-0000-10	ARCALUB-C4.LC400-RF-ADAPTER
CONCEPT8	095180826-0000-10	ARCALUB-C8.LC800-RF-ADAPTER

Lubricating greases

Requirements for the lubricating greases:

- maximum consistency class NLGI 2
- no solid particles (except PTFE).

The maximum lubricant line length must be determined by the actual customer. This is dependent on the selected lubricating grease and other parameters, see page 8.



If the requirements for the lubricating greases are not observed, the manufacturer’s guarantees covering the refillable cartridges and the lubricators will be invalidated.

A maximum of 3 filling operations per cartridge is possible. If further filling operations are carried out, the possibility of damage to the cartridge, in the form of wear for example, cannot be ruled out.



Cartridges

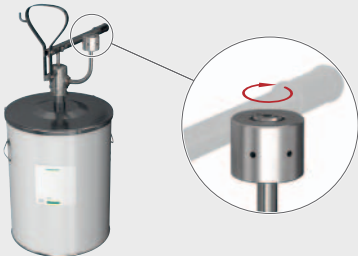
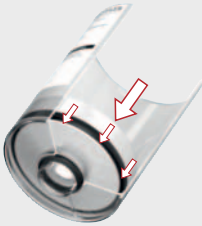
- Filling the cartridges

We recommend using a manual drum pump to fill the cartridges, see page 122.
- !

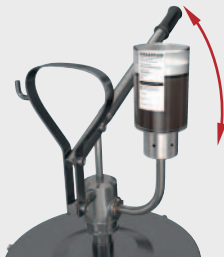
Destruction of the cartridge due to excess pressure when filling. When the end stop is reached, terminate the filling process immediately and do not increase the pressure further.
- !

Risk of insufficient lubricant supply if air is still present in the cartridge. Remove any air cushions after filling by tilting the follower piston.

Filling process

Work steps	
Screw on the filling adapter	 00172165
Remove the closing plug	 001721D1
Press the follower piston down	 001721EF
Push the cartridge on as far as the stop and hold	 00172166

Filling process
(continued)

Work steps	
Fill with lubricant	 00172169
Terminate the filling process when the follower piston reaches the end stop	 0017216B
Attach the closing plug	 001721E0
Remove the air cushion under the follower piston	 001721C2
Write on the label	 001721FE

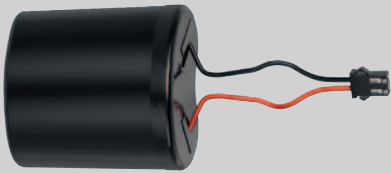


Voltage supply, device holders

Voltage supply

Type overview

Battery

Only for CONCEPT2		
		
Type	Ordering number	Ordering designation
Battery pack DC 3 V	087314762-0000-10	ARCALUB-C2.BATTERY

Energy supply by a battery is only possible in the case of CONCEPT2.

Type overview

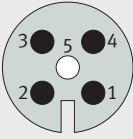
Connection cables with plug

For CONCEPT2, CONCEPT4 and CONCEPT8, Cable with 4 ends (4×0,34 mm ²), PUR, outside diameter 5 mm, for available voltage supply DC 24 V, I/O communication possible			
			
Type	Designation	Ordering number	Ordering designation
A	Plug Cable: L = 10 m	075378361-0000-10	ARCALUB-X.CABLE-M12-10M
B	Plug (LED) Cable: L = 5 m	083788964-0000-10	ARCALUB-X.CABLE-M12X1-5M-LED-S
	Plug (LED) Cable: L = 10 m	083788980-0000-10	ARCALUB-X.CABLE-M12X1-10M-LED-S
C	Plug (LED) Cable: L = 5 m	075592240-0000-10	ARCALUB-X.CABLE-M12-5M-LED
	Plug (LED) Cable: L = 10 m	077879805-0000-10	ARCALUB-X.CABLE-M12-10M-LED

LED signal indication

Signal colour of LED	Description
Green	Voltage supply DC 24 V present
White	Incoming signal; initiation of lubricant dispensing by external controller
Yellow	Outgoing signal; feedback of completed lubricant dispensing to external controller

Technical data
Plugs: Type A, B and C

Feature		Value
Operating voltage		DC 24 V +6/−6 V
Operating current per contact		max. 4 A
Connection socket		For type A, B and C: - thread M12×1 4 pin - A coding - self-retaining (recommended tightening torque 0,6 Nm) For type B and C: - with integrated green, white and yellow LED
	Socket 1	Voltage supply (DC 24 V)
	Socket 2	Activation of the pump by PLC (DC 24 V)
	Socket 3	Ground (GND)
	Socket 4	Output signal (DC 24 V) Return signalling to PLC
	Socket 5	Not assigned
Protection class		IP67 (in inserted and screw-mounted state)
Temperature range	Fixed	−30 °C up to +80 °C
	Moving	−5 °C up to +80 °C
Number of ends, end cross-section		4×0,34 mm ² (AWG 22)
Length of free ends at connection end		20 mm
Drag chain values		2 million
Outside diameter		approx. 5,2 mm
Bending radius	Fixed	10×outside diameter
	Moving	15×outside diameter
Approvals		UL/CSA
Materials	Outer sheath	PUR/PVC, Shore hardness: 85±5
	Wire end insulation	PVC



Voltage supply, device holders

Figure 1
Connection scheme
Plug type A

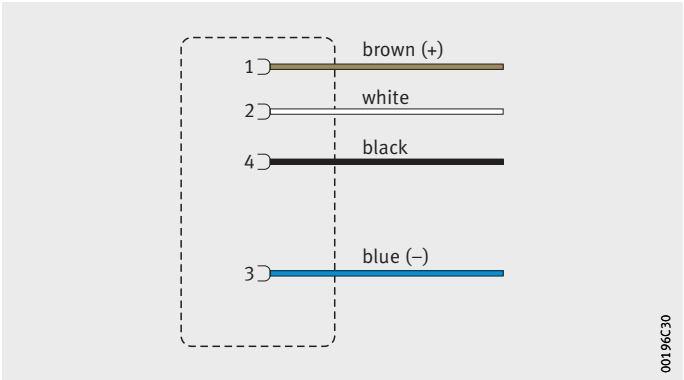
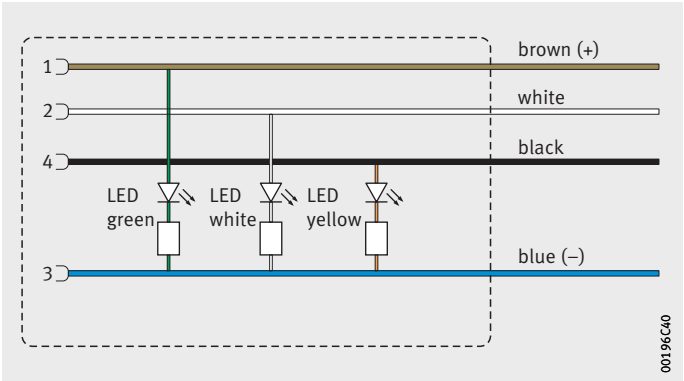


Figure 2
Connection scheme
Plug type B and C

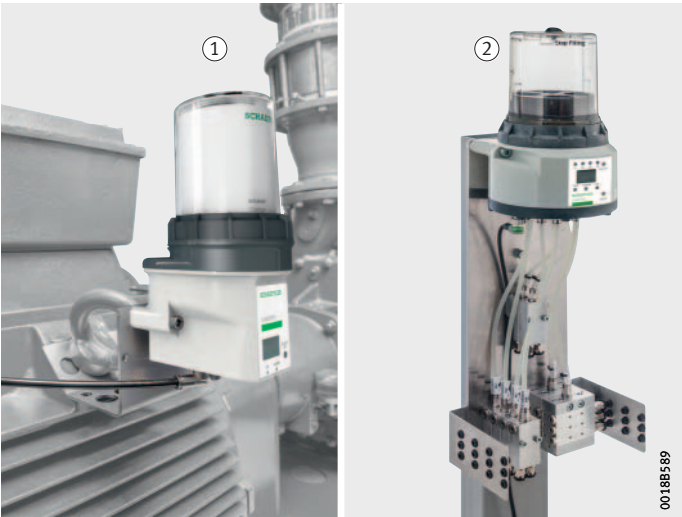


Device holders

The device holders facilitate the mounting of the lubricators CONCEPT2 and CONCEPT8 directly on the equipment to be lubricated or in its vicinity.

Device holder for:
① CONCEPT2
② CONCEPT8

Figure 3
Application examples of
device holders



Scope of delivery
Device holder for CONCEPT2

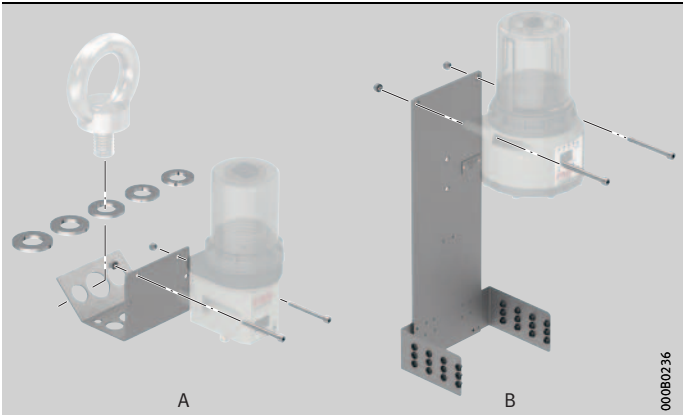
- Device holder for CONCEPT2, with mounting material:
- universal locating bracket made from high grade steel
 - 5 support washers in different dimensions, for locating the mounting bracket, for example by means of an eye bolt on a electric motor
 - 2 socket head screws M6×50 with a retaining nut, for locating the lubricator on the universal locating bracket.

Scope of delivery
Device holder for CONCEPT8

- Device holder for CONCEPT8, for the additional location of splitters and progressive distributors, with mounting material:
- mounting baseplate made from high grade steel, including all holes
 - 2 brackets made from high grade steel for the fixing of lubricant lines, including hose grommets
 - 2 socket head screws M8×80 with a retaining nut, for locating the lubricator on the device holder.

Voltage supply, device holders

Type overview
Device holders



Type			Ordering number	Ordering designation
A	Device holder for	CONCEPT2	092435726-0000-10	ARCALUB-C2.HOLDER-KIT
B		CONCEPT8	093204094-0000-10	ARCALUB-C8.HOLDER-KIT

Splitters, progressive distributors

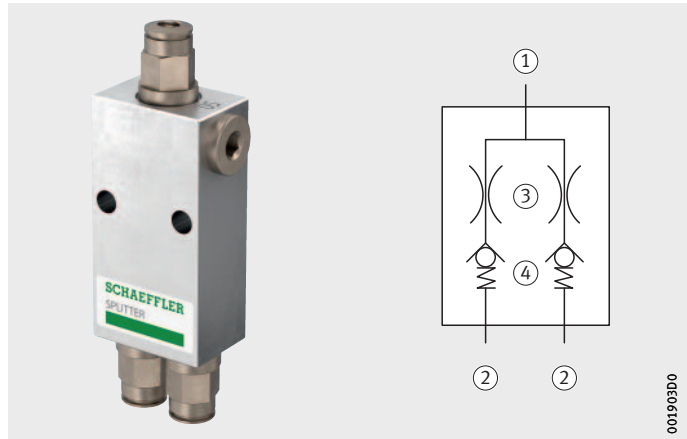
Splitters

Splitters are used to achieve the distribution in uniform volumes of a delivery volume to 2 outlets.

For this purpose, splitters are fitted with chokes that create a pressure differential of approx. 10 bar between the inlet and outlet for the lubricant. Each outlet is provided with a check valve in order to prevent overflow of the lubricant from one outlet to the other, *Figure 1*.

- ① Inlet
- ② Outlet
- ③ Chokes
- ④ Check valves

Figure 1
Splitter
with hydraulic schematic



Characteristics

- the supply of lubricant to the connected lubrication points is subject to the following:
 - identical lubricant
 - identical lubricant quantity
 - identical lubrication interval
- requirement for lubricant lines at the inlet:
 - maximum lubricant line length to pump: 300 mm
- requirements for lubricant lines at the outlet:
 - approximately equal lubricant line lengths ($\pm 10\%$ difference)
 - identical line cross-sections
- operating temperature: +10 °C to +60 °C
- lubricant:
 - oils
 - greases up to NLGI 2 (no solid content).



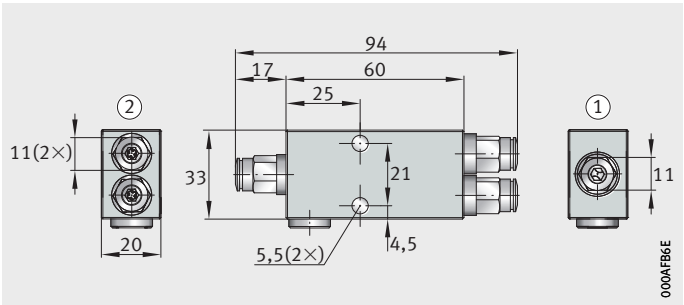
Cascading, in other words the combination of splitters, is not permissible.



Splitters, progressive distributors

- ① Inlet
- ② Outlets

Figure 2
Dimensions



Technical data Splitters

Feature		Value
Operating pressure	required	Up to 10 bar
	max.	100 bar
Metering accuracy with correct operation		±10%
Material	Housing	Aluminium
	Hose connector parts	Brass, nickel-plated

Type overview Splitters

Medium	Hose diameter mm	Hose insertion depth mm	Ordering number	Ordering designation
Grease	6	16	081307497-0000-10	ARCALUB-X.SPLITTER-2X-STRAIGHT-GREASE
Oil	6	16	074969218-0000-10	ARCALUB-X.SPLITTER-2X-STRAIGHT-OIL

Scope of delivery

The splitter is supplied with 3 connection fittings with a thread M10×1 for the hose connection diameter D = 6 mm. For the connection of hoses of D = 8 mm, the corresponding connection fittings must be ordered separately.

Progressive distributors

In progressive distributors, the lubricant is distributed by the follower piston control of the individual distributor discs consecutively to the lubrication points. Each of the 3 outlets is additionally provided with a check valve in order to prevent overflow of the lubricant from one outlet to another.



Figure 3
Progressive distributors

Characteristics

- the supply of lubricant to the connected lubrication points is subject to the following:
 - identical lubricant
 - identical lubricant quantity
 - identical lubrication interval
- requirement for lubricant lines at the inlet:
 - maximum lubricant line length to pump: 300 mm
- requirements for lubricant lines at the outlet:
 - identical line cross-sections
- operating temperature: +10 °C to +60 °C
- lubricant:
 - oils
 - greases up to NLGI 2 (no solid content).



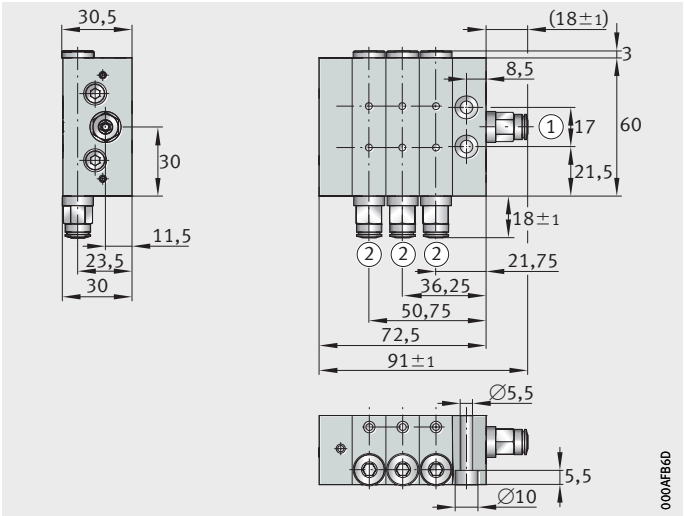
Cascading, in other words the combination of progressive distributors, is not permissible.

The use of progressive distributors is only permissible after technical approval of the complete lubrication concept by Schaeffler.

Splitters, progressive distributors

- ① Inlet
- ② Outlet

Figure 4
Dimensions



Technical data
Progressive distributors

Feature	Value
Operating pressure required	Up to 10 bar
max.	100 bar
Metering accuracy with correct operation	±10%
Material	Housing
Hose connector parts	Aluminium
	Brass, nickel-plated

Type overview
Progressive distributors

Type	Metering volume cm ³	Hose insertion depth mm	Ordering number	Ordering designation
TS3-25	0,025	16	093204060-0000-10	ARCALUB-X.PROGDIV-3X-RIGHT-0.05CCM

Scope of delivery

The progressive distributor is supplied with 4 connection fittings with a thread M10×1 for the hose connection diameter D = 6 mm. For the connection of hoses of D = 8 mm, the corresponding connection fittings must be ordered separately.

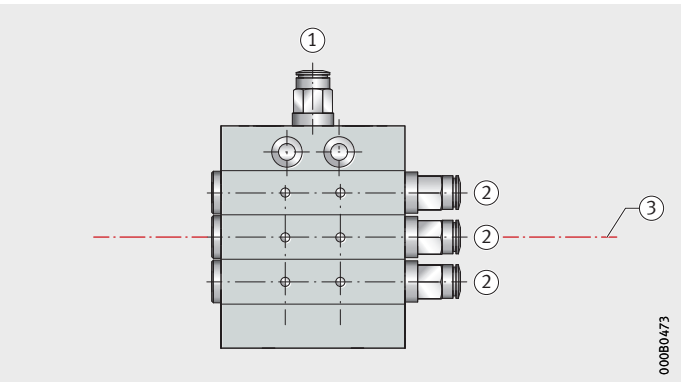
Mounting regulations

For correct function of progressive distributors, the following rules must be observed in mounting:

- The progressive distributor may only be mounted on a flat surface. Otherwise, stresses can lead to jamming of the control pistons.
- In all applications with oil lubrication, the progressive distributor must be mounted such that the control pistons are in a horizontal position, *Figure 5*. Otherwise, gap losses and the influence of gravity can lead to descent of the control pistons.

- ① Inlet
- ② Outlet
- ⑧ Horizontal position of control pistons

Figure 5
Alignment of the progressive distributor in mounting

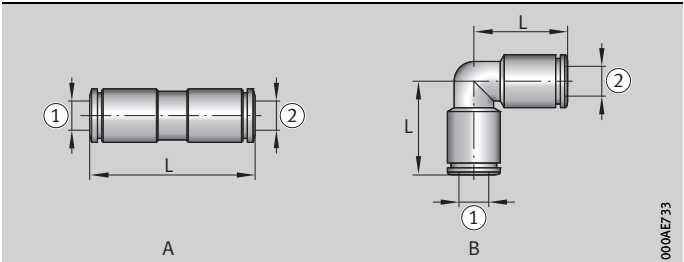
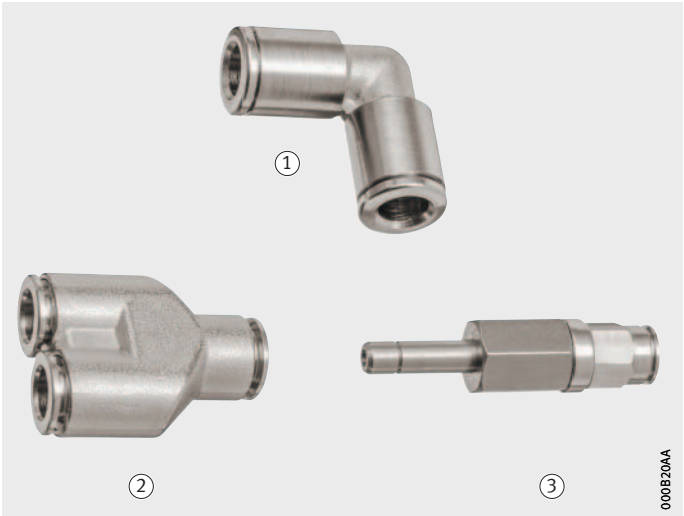


Fittings, Y pieces, check valves

- ① Hose connector
- ② Y piece
- ③ Check valve

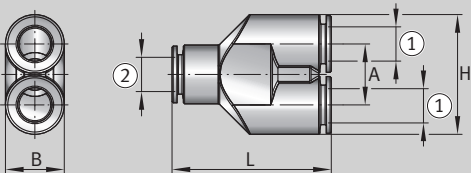
Figure 1
Hose connector,
Y piece and check valve

Type overview
Hose connectors



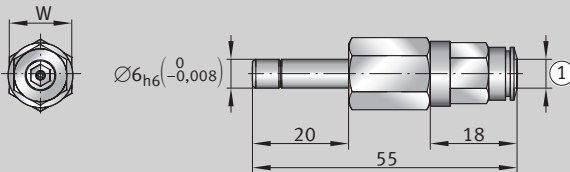
Type	Hose diameter		Hose insertion depth		Length L mm	Ordering number	Ordering designation
	① mm	② mm	① mm	② mm			
A	4	4	15	15	32	095770887-0000-10	ARCALUB-X.CONNECT-4-4
	6	4	16	15	33	093040717-0000-10	ARCALUB-X.CONNECT-6-4
	6	6	16	16	34	083867112-0000-10	ARCALUB-X.CONNECT-6-6
	8	6	18	16	39,5	083867279-0000-10	ARCALUB-X.CONNECT-8-6
	8	8	18	18	38	083867309-0000-10	ARCALUB-X.CONNECT-8-8
B	4	4	15	15	18	095770895-0000-10	ARCALUB-X.CONNECT-4-4-W
	6	6	16	16	19,5	088902250-0000-10	ARCALUB-X.CONNECT-6-6-W
	8	8	18	18	25	094927723-0000-10	ARCALUB-X.TUBEFIT-CONNECT-8-8-W

Type overview
Y pieces

										000AE734
Hose diameter		Hose insertion depth		Dimensions				Ordering number	Ordering designation	
①	②	①	②	L	A	H	B			
mm	mm	mm	mm	mm	mm	mm	mm			
6	6	16	16	35	12,5	24,5	12	076693180-0000-10	ARCALUB-X.TUBEFIT-Y-D6	
8	8	18	18	38	14,5	28,5	14	083654640-0000-10	ARCALUB-X.TUBEFIT-Y-D8	



Type overview
Check valve

Only suitable for oil					
					
Hose diameter	Hose insertion depth	Width across flats	Ordering number		Ordering designation
①	①	W			
mm	mm	mm			
6	16	13	092927122-0000-10		ARCALUB-X.OIL-VALVE-SAT106G

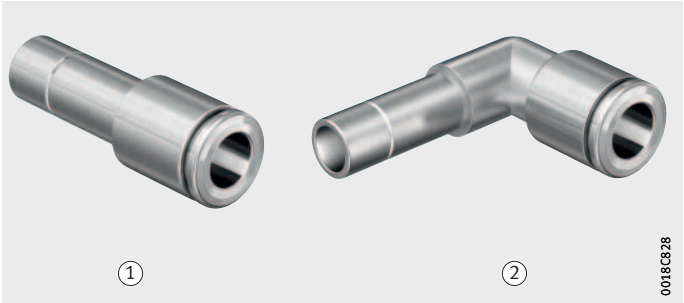


Fittings, Y pieces, check valves

- ① Straight
- ② Angled

Figure 2
Connection adapters

Type overview
Connection adapters



A

B

0018C338

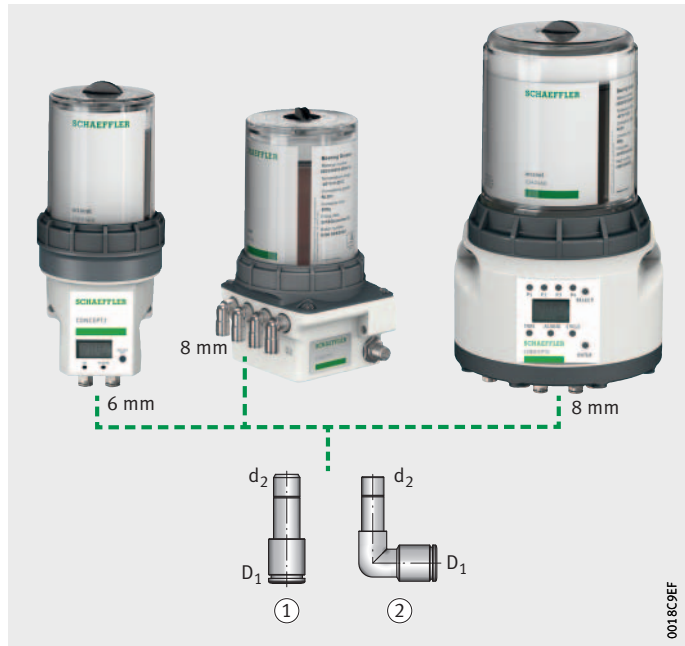
Type	Diameter		Hose insertion depth (D ₁) mm	Length		Ordering number	Ordering designation
	D ₁ mm	d ₂ mm		L ₁ mm	L ₂ mm		
A	6	8	16	34	–	094487979-0000-10	ARCALUB-X.TUBEFIT-SAT8A6I
	4	8	15	32	–	095777970-0000-10	ARCALUB-X.TUBEFIT-SAT-8A-4I
	4	6	15	31	–	095777962-0000-10	ARCALUB-X.TUBEFIT-SAT-6A-4I
B	6	6	16	20	27	095058150-0000-10	ARCALUB-X.TUBEFIT-SAT-6A-6I-W
	8	8	18	25	31	095058168-0000-10	ARCALUB-X.TUBEFIT-SAT-8A-8I-W

The outside diameter d_2 of the connection adapter is inserted into the outlet of the lubricator up to the end stop.

The lubricant line is inserted into the inside diameter D_1 of the connection adapter.

- ① Type A (straight)
- ② Type B (angled)

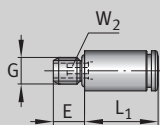
Figure 3
Using the connection adapters



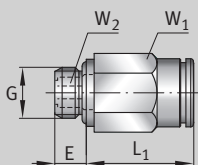
Fittings, Y pieces, check valves

Type overview
Hose connector parts
Type A, B, C

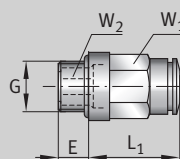
Hose, push fit			
   A B C 000B12C6			
Thread	Hose diameter	Ordering number	Ordering designation
G	mm		
M3×0,8	4	093041390-0000-10	ARCALUB-X.TUBEFIT-M3-SAT034G-S
M6×1		095777636-0000-10	ARCALUB-X.TUBEFIT-M6-SAT064G
M10×1 (tapered)		095777911-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT104G
M5×0,8	6	077937490-0000-10	ARCALUB-X.TUBEFIT-M5-SAT056G
M6×1		075527472-0000-10	ARCALUB-X.TUBEFIT-M6-SAT066G
M8×1		079567428-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT086G
M10×1		075527626-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT106G
G1/8		084465905-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT186G
G1/4		079567606-0000-10	ARCALUB-X.TUBEFIT-G1/4-SAT146G
M8×1	8	083654216-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT088G
M10×1		083654356-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT108G
G1/8		083654534-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT188G
G1/4		083654607-0000-10	ARCALUB-X.TUBEFIT-G1/4-SAT148G



A



B



C

000AE738

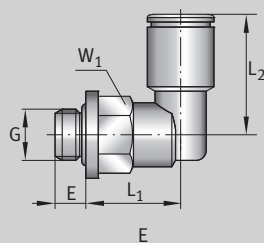
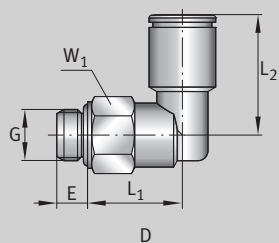
Type	Seal	Width across flats W ₁ mm	Hexagon socket nominal dimension W ₂ mm	Length		Thread length E mm	Hose insertion depth mm
				L ₁ mm	L ₂ mm		
A	Flat sealing over O ring	–	1,5	16,5	–	5	15
A	Flat sealing over O ring	–	2,5	16,5	–	7	15
B	Metallic sealing over thread	–	2,5	14,5	–	8	14
A	Flat sealing over O ring	–	2,5	18,5	–	4	16
A	Flat sealing over O ring	–	2,5	18,5	–	4	16
B	Metallic sealing over thread	11	4	25,5	–	4	16
B	Metallic sealing over thread	11	4	25,5	–	8	16
C	Flat sealing over O ring	11	4	18	–	5,5	16
C	Flat sealing over O ring	11	4	15,5	–	7	16
B	Flat sealing over O ring	11	4	20,5	–	7	18
B	Flat sealing over O ring	13	5	20,5	–	6	18
B	Flat sealing over O ring	13	5	20,5	–	6	18
C	Flat sealing over O ring	13	6	16,5	–	7	18



Fittings, Y pieces, check valves

Type overview
Hose connector parts
Type D, E

Hose, push fit			
 			
		D	E
000B12C7			
Thread	Hose diameter	Ordering number	Ordering designation
G	mm		
M6×1	4	095777644-0000-10	ARCALUB-X.TUBEFIT-M6-SAT064W
M10×1		095777954-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT104W
M5×0,8	6	079567401-0000-10	ARCALUB-X.TUBEFIT-M5-SAT056W
M6×1		075676621-0000-10	ARCALUB-X.TUBEFIT-M6-SAT066W
M8×1		079567584-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT086W
M10×1		076968553-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT106W
G1/8		084465964-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT186W
G1/4		079567622-0000-10	ARCALUB-X.TUBEFIT-G1/4-SAT146W
M8×1	8	083654275-0000-10	ARCALUB-X.TUBEFIT-M8X1-SAT088W
M10×1		083654402-0000-10	ARCALUB-X.TUBEFIT-M10X1-SAT108W
G1/8		083654577-0000-10	ARCALUB-X.TUBEFIT-G1/8-SAT188W
G1/4		083654623-0000-10	ARCALUB-X.TUBEFIT-G1/4-SAT148W



000AE73A

Type	Seal	Width across flats W ₁ mm	Hexagon socket nominal dimension W ₂ mm	Length		Thread length E mm	Hose insertion depth mm
				L ₁ mm	L ₂ mm		
D	Flat sealing over O ring	9	–	11	18	5	12
D	Flat sealing over O ring	13	–	18,5	20	6	12
D	Flat sealing over O ring	9	–	11	20,5	4	15
D	Flat sealing over O ring	9	–	10,5	21,5	5	16
D	Metallic sealing over thread	9	–	11	21	7	16
D	Flat sealing over O ring	13	–	14	22	6	16
D	Flat sealing over O ring	13	–	14	21	5,5	16
E	Flat sealing over O ring	13	–	16	21	6,5	16
D	Flat sealing over O ring	13	–	14,5	23,5	6	18
D	Flat sealing over O ring	13	–	18,5	23,5	6	18
D	Flat sealing over O ring	13	–	14,5	23,5	5,5	18
E	Flat sealing over O ring	13	–	16,5	23,5	8	18



Hoses, hose cutters

Hoses



Figure 1
Hoses
for oil and grease lubrication

Dimensions and materials

Operating temperature = -20 °C to +80 °C Compressive strength with linear temperature dependence between +20 °C (90 bar) and +80 °C (35 bar)		
		
Diameter D1×D2 mm	Minimum bending radius R _{min} mm	Material
4×2,5	40	PA12
6×3	40	PA12
6×4	35	PA12
8×5	45	PA6.6

Type overview Hoses for grease lubrication

Suitable for drag chain use, unfilled, black			
Cross-section mm	Length L m	Ordering number	Ordering designation
4×2,5	5	093041241-0000-10	ARCALUB-X.HOSE-4X2,5-PA12-5M
	10	093041195-0000-10	ARCALUB-X.HOSE-4X2,5-PA12-10M
	50	095775854-0000-10	ARCALUB-X.HOSE-4X2,5-PA12-50M
6×4	5	076691217-0000-10	ARCALUB-X.HOSE-PA12-5M
	10	076691497-0000-10	ARCALUB-X.HOSE-PA12-10M
	50	085842109-0000-10	ARCALUB-X.HOSE-PA12-50M
8×5	5	083788573-0000-10	ARCALUB-X.HOSE-PA66-5M
	10	083788581-0000-10	ARCALUB-X.HOSE-PA66-10M
	50	083788603-0000-10	ARCALUB-X.HOSE-PA66-50M

Note Prefilling of the hoses by means of a lever grease gun, see page 118, is recommended. The use of standard grease containers, see table, page 120, gives savings in time and cost compared to filling with the lubricators CONCEPT2 and CONCEPT8.

Type overview
Hoses for oil lubrication

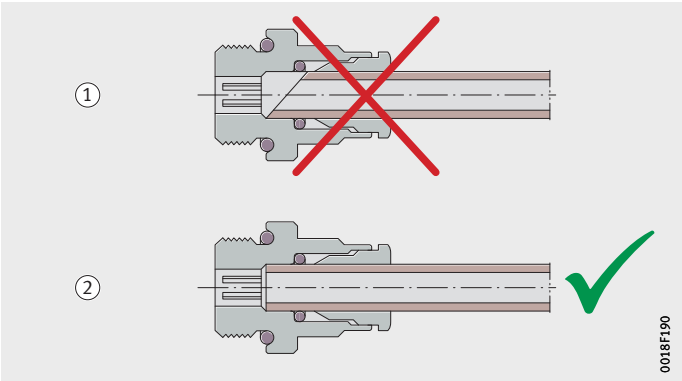
Suitable for drag chain use, unfilled, transparent			
Cross-section mm	Length L m	Ordering number	Ordering designation
6×3	5	075526336-0000-10	ARCALUB-X.HOSE-PA12-CLEAR-5M
	10	083788441-0000-10	ARCALUB-X.HOSE-PA12-CLEAR-10M
	25	075527251-0000-10	ARCALUB-X.HOSE-PA12-CLEAR-25M
	1 000	092515851-0000-10	ARCALUB-X.HOSE-PA12-CLEAR-1000M

Hose cutters

The use of a special hose cutter ensures secure and pressure-tight connection of the lubricant line, *Figure 2*.

Type overview
Hose cutter

			
Type	Ordering number	Ordering designation	
Hose cutter	083788620-0000-10	ARCALUB-X.HOSE-CUTTOOL	



- ① Without hose cutter
- ② With hose cutter

Figure 2
Secure connection
by means of hose cutter



Demo case, kits

Demo case The demo cases are particularly suitable for the External Sales function. Each case contains the essential components of a lubrication system. It can be used to explain the design and function of a lubrication system to the customer and to give an impression of the high quality design of all components.

Demo case for:
① CONCEPT2
② CONCEPT8



Figure 1
Demo case

- Scope of delivery
Demo case CONCEPT2

- lubricator CONCEPT2-2P-24VDC (angled connector)
 - sample lubricant cartridge for grease lubrication
 - lubrication gear
 - chain lubrication pinion
 - mains power pack
 - retaining bracket, including support washers
 - box of hose connector parts for lubricant line of diameter = 6 mm
 - USB card containing installation and user manual.

- Scope of delivery
Demo case CONCEPT8

- lubricator CONCEPT8-4P
 - sample lubricant cartridge for grease lubrication
 - lubrication gear
 - chain lubrication pinion
 - mains power pack
 - retaining bracket, including support washers
 - box of hose connector parts for lubricant line of diameter = 8 mm
 - USB card containing installation and user manual.

Type overview
Demo case

Type	Ordering number	Ordering designation
Demo case for CONCEPT2	089395433-0000-10	DEMO-ARCALUB-C2-SET
CONCEPT8	084224878-0000-10	DEMO-ARCALUB-C8-SET



Demo case, kits

Complete packages for electric motors

The complete package EKIT allows the rapid refitting of electric motors to the lubricator CONCEPT2. In addition to the lubricator, it contains all the accessories required for mounting and installation. It thus facilitates simple conversion to fully automatic relubrication.



Figure 2
Mounting example
CONCEPT2 EKIT

The voltage supply for lubricator CONCEPT2 is either provided by battery or externally (DC 24 V, with mains connection cable).

Scope of delivery

The complete package EKIT comprises:

- lubricator CONCEPT2 (angled connector)
- battery (for CONCEPT2 with battery operation)
- mains connection cable, straight plug, no LED, cable length 10 m (for CONCEPT2 with mains connection)
- hose of outside diameter = 6 mm, length = 3 m
- device holder ARCALUB-C2.HOLDER-KIT, see page 73.
The universal locating bracket, when fixed by means of the eye bolt on an electric motor, can be mounted in a 45° or 90° position
- hose connector parts of angled design, for interchange with existing lubrication nipples:
 - 2 pieces with thread M10×1
 - 2 pieces with thread M8×1
 - 2 pieces with thread G¹/₈.

Type overview Complete packages

Type	Ordering number	Ordering designation
CONCEPT2 EKIT (battery)	092662269-0000-10	ARCALUB-C2-2P-EKIT
CONCEPT2 EKIT (mains DC 24 V)	092662277-0000-10	ARCALUB-C2-2P-24VDC-EKIT

Note

Grease cartridges must be ordered separately, see page 60.

Seal kit for CONCEPT8

- The seal kit includes:
- axial housing seal
 - grub screw M3×4
 - O ring 37,5×3 as inlay seal (FKM).

The seal kit is solely intended for replacing the seals in the automatic lubricators CONCEPT8, *Figure 3*.

- ① Axial housing seal
- ② Grub screw M3×4
- ③ O ring 37,5 × 3

Figure 3
Installation position of
the components of the seal kit for
CONCEPT8



Type overview
Seal kit for CONCEPT8

Type	Ordering number	Ordering designation
Seal kit for CONCEPT8	094977291-0000-10	ARCALUB-C8.SEAL-KIT

Demo case, kits

Cover kits

- Each cover kit includes:
- upper housing section
 - collar ring
 - action pin
 - O ring
 - spring
 - pressure plate (for CONCEPT4 only).



Figure 4
Cover kit

Type overview Cover kits

Type	Ordering number	Ordering designation
Cover kit for CONCEPT2	092860915-0000-10	ARCALUB-C2.COVER-KIT
CONCEPT4	095111930-0000-10	ARCALUB-C4.COVER-KIT
CONCEPT8	095111948-0000-10	ARCALUB-C8.COVER-KIT



Accessories for lubricant application

Lubrication gears
Chain lubrication pinions
Lubrication rollers



Accessories for lubricant application

Lubrication gears		98
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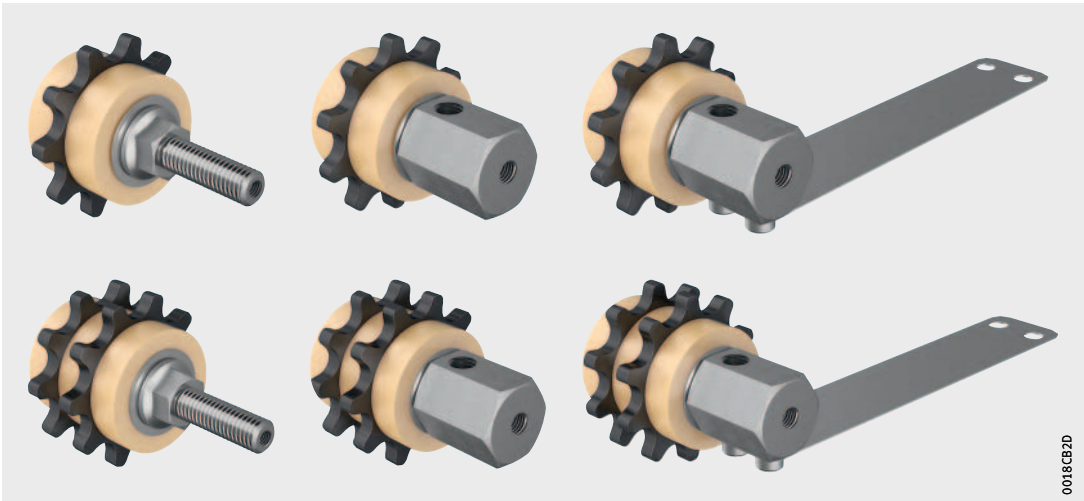
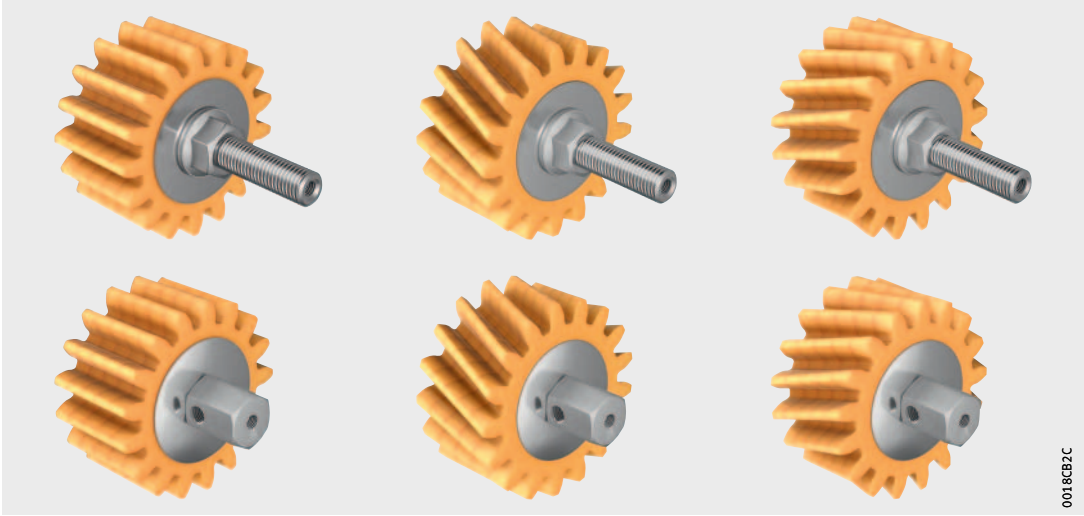
When lubricating gear wheels, lubrication gears ensure precise and economical metering of lubricant (oils, greases up to NLGI 2).

Chain lubrication pinions		106
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When lubricating chains, chain lubrication pinions ensure precise and economical metering of chain oil.

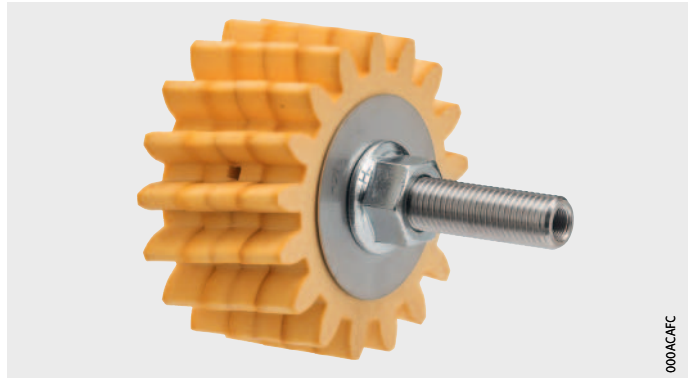
Lubrication rollers		112
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When lubricating raceways, for example on roller chains, lubrication rollers ensure precise and economical metering of lubricant.



Lubrication gears

Figure 1
Lubrication gear,
helical teeth with lubrication hole



Lubrication gears are used for the automatic and continuous relubrication of tooth sets.

The lubrication gear is brought into contact with the tooth set to be lubricated, normally a drive pinion or toothed rack. It transfers the lubricant to the tooth set in contact. There is no transmission of force or torque.

The use of open cell PU foam as a material for lubrication gears ensures optimum supply of lubricant to the tooth set for very long periods. The material used stores the lubricant and dispenses it again in very small metering quantities. This prevents both over-lubrication and lubricant starvation.

Characteristics

- lubrication gear made from open cell PU foam
- operating temperature: $-30\text{ }^{\circ}\text{C}$ to $+140\text{ }^{\circ}\text{C}$
- maximum permissible circumferential speed at the outside diameter of the lubrication gear: 5 m/s
- segmented construction
- little installation work required
- lubricant:
 - oils up to $30\,000\text{ mm}^2/\text{s}$ ($+40\text{ }^{\circ}\text{C}$)
 - greases up to NLGI 3 (no solid content).

Note! In selection, it must be decided on the basis of design perspectives whether the lubrication gear is to be arranged on the tooth set of a toothed rack or of a drive pinion.

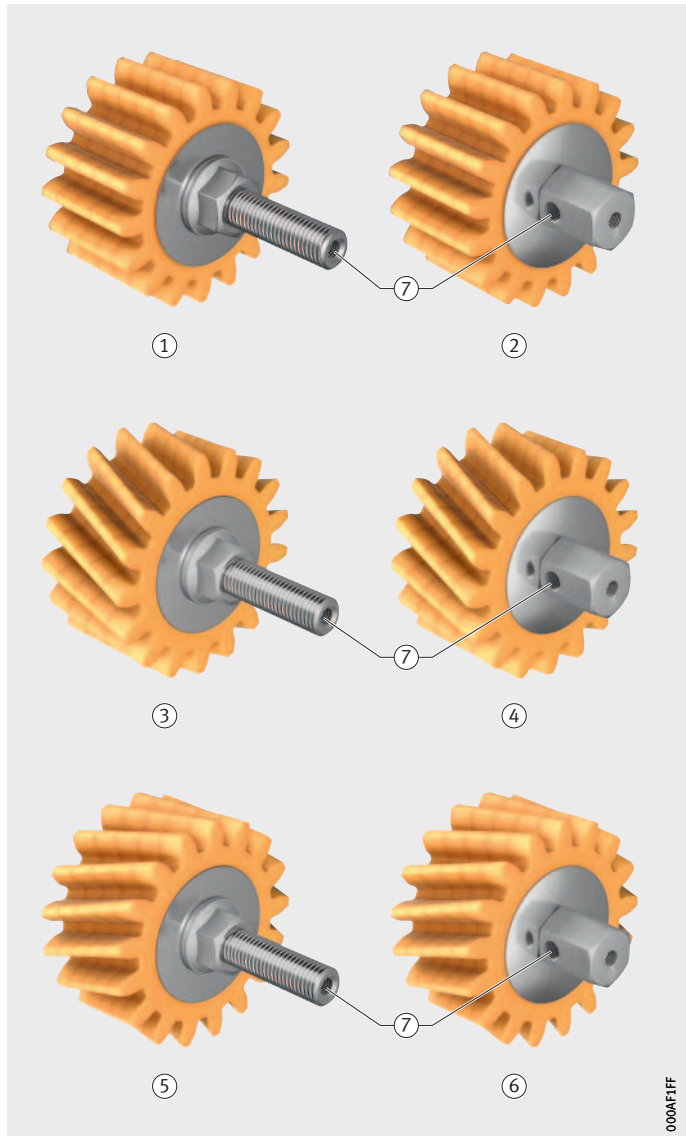
It should preferably be mounted on a drive pinion, since lubricant distribution is better in this case than with mounting on a toothed rack.

The lubrication gears must be prefilled with suitable lubricant before initial operation.

Note! At very high circumferential velocities of $> 2\text{ m/s}$, we recommend that the customer fits a cover to give protection against grease thrown off by centrifugal force.

- Straight teeth with:
- ① Axial lubricant feed
 - ② Radial lubricant feed
- Right hand helical teeth with:
- ③ Axial lubricant feed
 - ④ Radial lubricant feed
- Left hand helical teeth with:
- ⑤ Axial lubricant feed
 - ⑥ Radial lubricant feed
- ⑦ Connector for lubricant feed

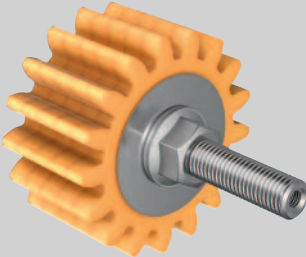
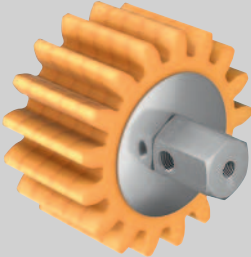
Figure 2
Designs of lubrication gears



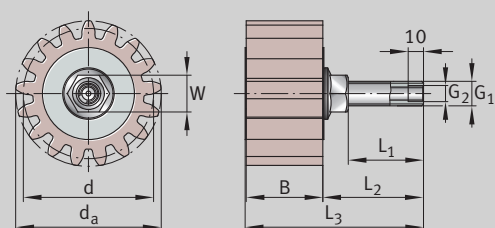
In all versions, integrated grooves ensure that the lubricant is transported from the hollow axle to the gear tooth surface.

Lubrication gears

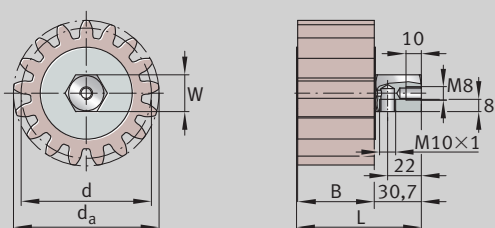
Type overview
Lubrication gears,
straight teeth

Lubricant feed, axial		Lubricant feed, radial
		
A		B
Type	Ordering number	Ordering designation
A	093283016-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-G-G
	093283032-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-G-G
	093283059-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-G-G
	093283075-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-G-G
	093283091-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-G-G
	093283113-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-G-G
	093283130-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-G-G
B	093283156-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-G-G
	093283024-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-G-W
	093283040-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-G-W
	093283067-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-G-W
	093283083-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-G-W
	093283105-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-G-W
	093283121-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-G-W
	093283148-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-G-W
	093283164-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-G-W

000B275F



A



B

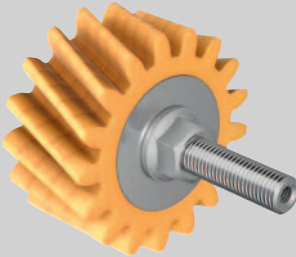
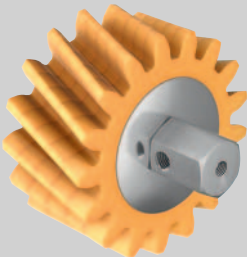
0002768

Modulus mm	Teeth Quantity	Pitch circle diameter d mm	Dimensions							Thread		Width across flats W mm	Helix angle °
			d _a mm	B mm	L mm	L ₁ mm	L ₂ mm	L ₃ mm	G ₁	G ₂			
1,5	24	36	39	15	–	34	44,7	60,4	M10	M6	15	0	
2	17	34	38	20	–	32	42,5	63,2	M10	M6	15	0	
3	17	51	57	30	–	30	40,5	71,2	M10	M6	15	0	
4	17	68	76	40	–	30	40,5	81,2	M10	M6	15	0	
5	17	85	95	50	–	49	65,7	116,4	M16	M10×1	24	0	
6	17	102	114	60	–	49	75,7	126,4	M16	M10×1	24	0	
8	17	136	152	80	–	49	95,7	146,4	M16	M10×1	24	0	
10	17	170	190	100	–	49	115,7	166,4	M16	M10×1	24	0	
1,5	24	36	39	15	46,4	–	–	–	–	–	–	0	
2	17	34	38	20	51,4	–	–	–	–	–	–	0	
3	17	51	57	30	61,4	–	–	–	–	–	–	0	
4	17	68	76	40	71,4	–	–	–	–	–	–	0	
5	17	85	95	50	81,4	–	–	–	–	–	–	0	
6	17	102	114	60	91,4	–	–	–	–	–	–	0	
8	17	136	152	80	111	–	–	–	–	–	–	0	
10	17	170	190	100	131	–	–	–	–	–	–	0	

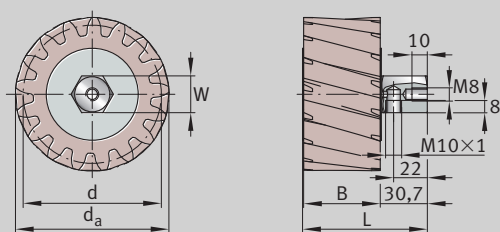
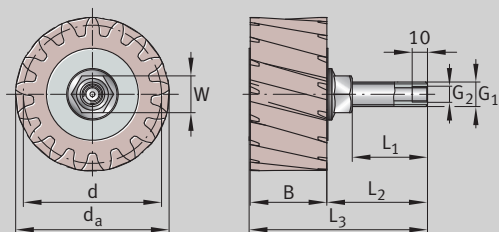


Lubrication gears

Type overview
Lubrication gears,
right hand helical teeth

Lubricant feed, axial		Lubricant feed, radial
		
A		B
Type	Ordering number	Ordering designation
A	093283172-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SR-G
	093283199-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SR-G
	093283210-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SR-G
	093283237-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SR-G
	093283253-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SR-G
	093283270-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SR-G
	093283296-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SR-G
B	093283318-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SR-G
	093283180-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SR-W
	093283202-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SR-W
	093283229-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SR-W
	093283245-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SR-W
	093283261-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SR-W
	093283288-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SR-W
	093283300-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SR-W
	093283326-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SR-W

000B2771



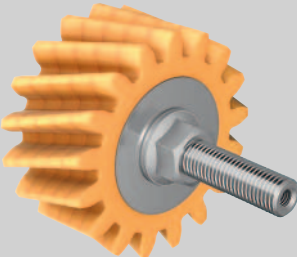
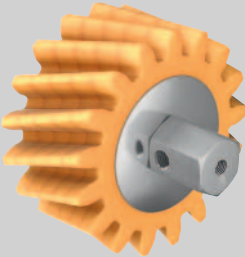
000327/A

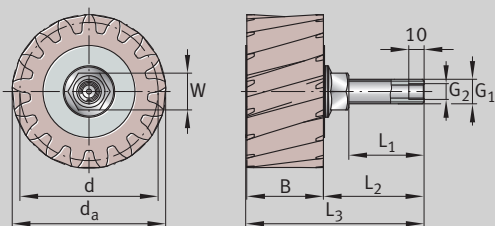
Modulus mm	Teeth Quantity	Pitch circle diameter d mm	Dimensions						Thread		Width across flats W mm	Helix angle °
			d _a mm	B mm	L mm	L ₁ mm	L ₂ mm	L ₃ mm	G ₁	G ₂		
1,5	24	38,2	41,2	15	–	34	44,7	60,4	M10	M6	15	19,53
2	17	36,08	40,1	20	–	32	42,5	63,2	M10	M6	15	19,53
3	17	54,11	60,1	30	–	30	40,5	71,2	M10	M6	15	19,53
4	17	72,15	80,2	40	–	30	40,5	81,2	M10	M6	15	19,53
5	17	90,19	100,2	50	–	49	65,7	116,4	M16	M10×1	24	19,53
6	17	108,23	120,2	60	–	49	75,7	126,4	M16	M10×1	24	19,53
8	17	144,3	160,3	80	–	49	95,7	146,4	M16	M10×1	24	19,53
10	17	180,38	200,4	100	–	49	115,7	166,4	M16	M10×1	24	19,53
1,5	24	38,2	41,2	15	46,4	–	–	–	–	–	–	19,53
2	17	36,08	40,1	20	51,4	–	–	–	–	–	–	19,53
3	17	54,11	60,1	30	61,4	–	–	–	–	–	–	19,53
4	17	72,15	80,2	40	71,4	–	–	–	–	–	–	19,53
5	17	90,19	100,2	50	81,4	–	–	–	–	–	–	19,53
6	17	108,23	120,2	60	91,4	–	–	–	–	–	–	19,53
8	17	144,3	160,3	80	111	–	–	–	–	–	–	19,53
10	17	180,38	200,4	100	131	–	–	–	–	–	–	19,53



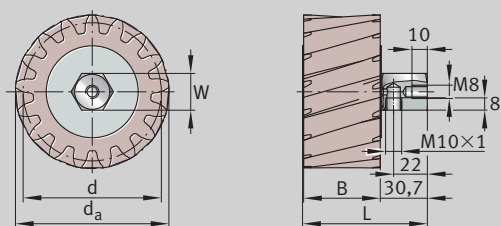
Lubrication gears

Type overview
Lubrication gears,
left hand helical teeth

Lubricant feed, axial		Lubricant feed, radial
		
A		B
Type	Ordering number	Ordering designation
A	093283334-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SL-G
	093283350-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SL-G
	093283377-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SL-G
	093283393-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SL-G
	093283415-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SL-G
	093283431-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SL-G
	093283458-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SL-G
B	093283474-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SL-G
	093283342-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SL-W
	093283369-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SL-W
	093283385-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SL-W
	093283407-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SL-W
	093283423-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SL-W
	093283440-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SL-W
	093283466-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SL-W
	093283482-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SL-W



A



B

000B278C

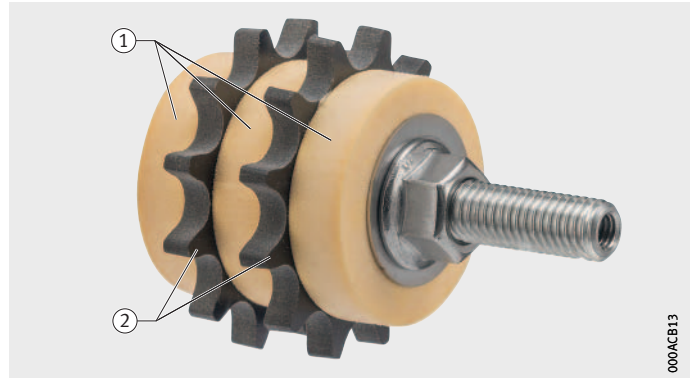
Modulus mm	Teeth Quantity	Pitch circle diameter d mm	Dimensions							Thread		Width across flats W mm	Helix angle °
			d _a mm	B mm	L mm	L ₁ mm	L ₂ mm	L ₃ mm	G ₁	G ₂			
1,5	24	38,2	41,2	15	–	34	44,7	60,4	M10	M6	15	19,53	
2	17	36,08	40,1	20	–	32	42,5	63,2	M10	M6	15	19,53	
3	17	54,11	60,1	30	–	30	40,5	71,2	M10	M6	15	19,53	
4	17	72,15	80,2	40	–	30	40,5	81,2	M10	M6	15	19,53	
5	17	90,19	100,2	50	–	49	65,7	116,4	M16	M10×1	24	19,53	
6	17	108,23	120,2	60	–	49	75,7	126,4	M16	M10×1	24	19,53	
8	17	144,3	160,3	80	–	49	95,7	146,4	M16	M10×1	24	19,53	
10	17	180,38	200,4	100	–	49	115,7	166,4	M16	M10×1	24	19,53	
1,5	24	38,2	41,2	15	46,4	–	–	–	–	–	–	19,53	
2	17	36,08	40,1	20	51,4	–	–	–	–	–	–	19,53	
3	17	54,11	60,1	30	61,4	–	–	–	–	–	–	19,53	
4	17	72,15	80,2	40	71,4	–	–	–	–	–	–	19,53	
5	17	90,19	100,2	50	81,4	–	–	–	–	–	–	19,53	
6	17	108,23	120,2	60	91,4	–	–	–	–	–	–	19,53	
8	17	144,3	160,3	80	111	–	–	–	–	–	–	19,53	
10	17	180,38	200,4	100	131	–	–	–	–	–	–	19,53	



Chain lubrication pinions

- ① Rollers made from PU foam
② Chain pinion

Figure 1
Chain lubrication pinion
in duplex design



Chain lubrication pinions are used to supply chains with chain oil according to requirements and fully automatically.

The rollers are made from open cell PU foam and transfer very small quantities of oil to the highest points on the chain links. From there, the oil reaches the spaces between the links and thus the decisive lubrication points between the pins and sleeves. There is no coating of other surfaces of the chain with oil, which is unnecessary and even damaging.

The chain pinions, made from a special plastic, transmit the force necessary to drive the rollers. Despite the non-uniform surface of the chain links, very quiet running of the chain lubrication pinion can be achieved even at very high speeds.

The contact force of the PU rollers responsible for lubricant transfer to the chain is automatically adjusted to the optimum value since the chain rollers are always at the base of the pinion. This prevents wear of the PU rollers. There is no slippage between the PU rollers and the chain surface.

Characteristics

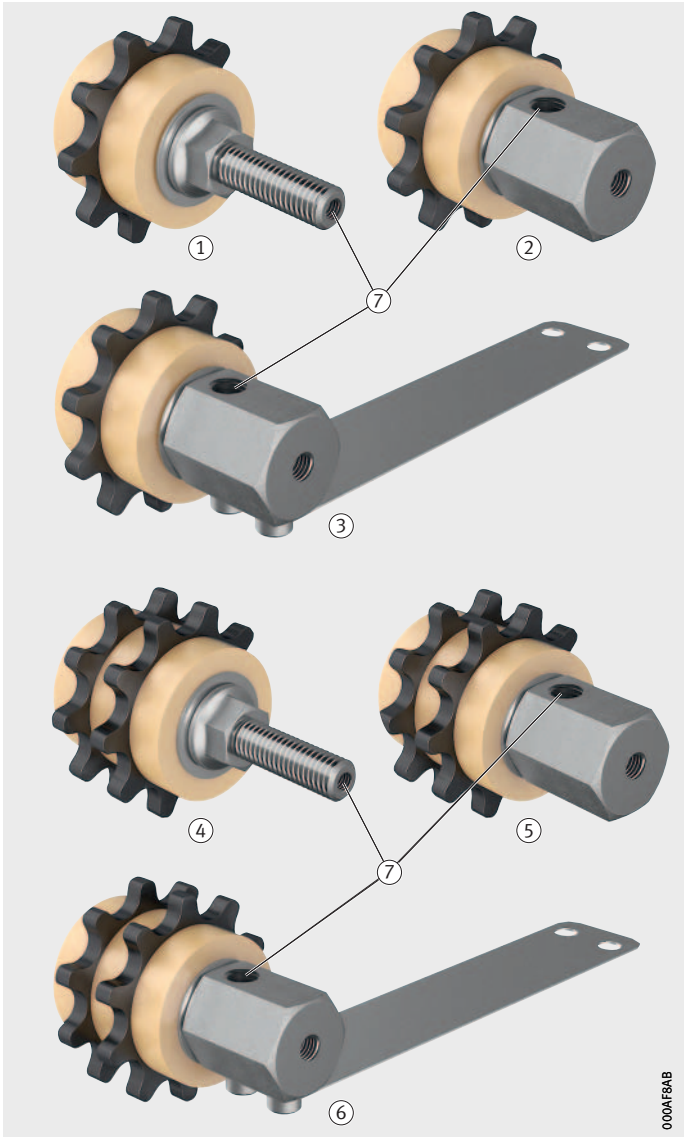
- chain pinion made from plastic
- lubricant application by means of rollers made from open cell PU foam
- operating temperature: 0 °C to +60 °C
- maximum permissible circumferential speed at the outside diameter of the chain pinion: 7 m/s
- lubricant: oil.

Note!

At very high chain speeds of approx. 2,5 m/s or more, we recommend that the customer fits a cover to give protection against oil flown off by centrifugal force.

- Simplex design with:
- ① Axial lubricant feed
 - ② Radial lubricant feed
 - ③ Radial lubricant feed and spring plate
- Duplex design with:
- ④ Axial lubricant feed
 - ⑤ Radial lubricant feed
 - ⑥ Radial lubricant feed and spring plate
- ⑦ Connector for lubricant feed

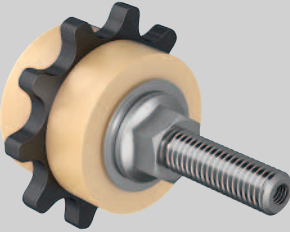
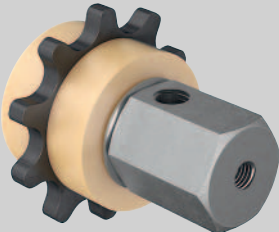
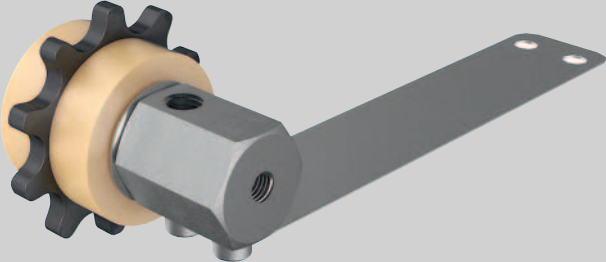
Figure 2
Designs
 of chain lubrication pinions



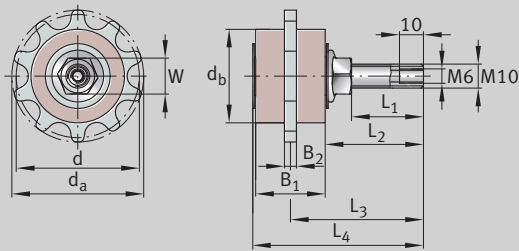
000AF8AB

Chain lubrication pinions

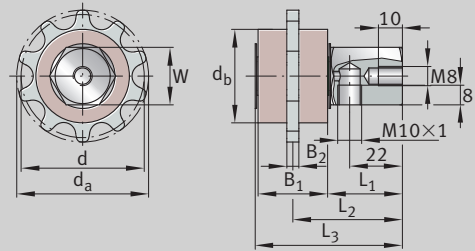
Type overview
Chain lubrication pinions
in simplex design

Lubricant feed, axial		Lubricant feed, radial
		
A		B
		000B2795
Lubricant feed, radial, with spring plate		
		
C		
000AF830		
Type	Ordering number	Ordering designation
A	093283490-0000-10	ARCALUB-X.CHAIN-PINION-08AB1-Z12-G
	093283547-0000-10	ARCALUB-X.CHAIN-PINION-10AB1-Z10-G
	093283601-0000-10	ARCALUB-X.CHAIN-PINION-12B1-Z8-G
	093283652-0000-10	ARCALUB-X.CHAIN-PINION-16B1-Z8-G
B	093283504-0000-10	ARCALUB-X.CHAIN-PINION-08AB1-Z12-W
	093283555-0000-10	ARCALUB-X.CHAIN-PINION-10AB1-Z10-W
	093283610-0000-10	ARCALUB-X.CHAIN-PINION-12B1-Z8-W
	093283660-0000-10	ARCALUB-X.CHAIN-PINION-16B1-Z8-W
C	093283512-0000-10	ARCALUB-X.CHAIN-PINION-08AB1-Z12-WF
	093283563-0000-10	ARCALUB-X.CHAIN-PINION-10AB1-Z10-WF
	093283679-0000-10	ARCALUB-X.CHAIN-PINION-16B1-Z8-WF

1) A DIN 8188
(American design, ANSI: American National Standards Institute)
B DIN 8187
(European design, British Standard)

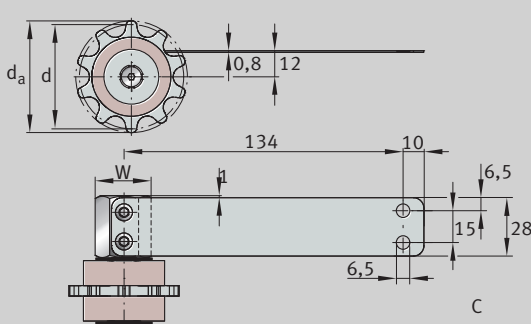


A



B

000B279E



C

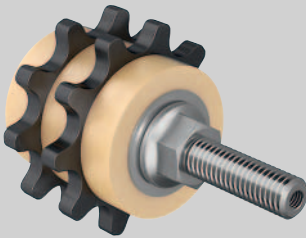
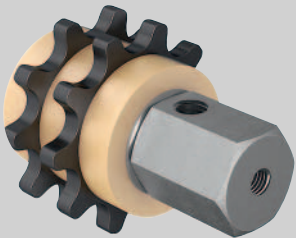
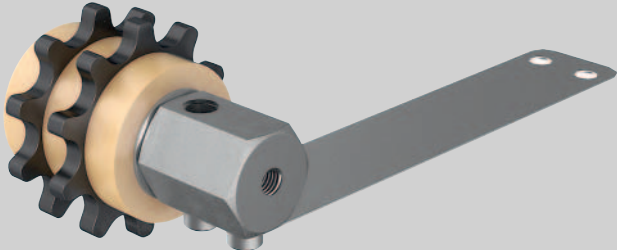
000AEAAA

	Chain type according to ISO 606 ¹⁾	Teeth Quantity	Pitch circle diameter d mm	Dimensions								Width across flats
				d _a mm	d _b mm	B ₁ mm	B ₂ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	W mm
	08 A/B-1	12	49,07	53	39	29	5	30	41	55,5	71,2	15
	10 A/B-1	10	51,37	55	39	29	5	30	41	55,5	71,2	15
	12 B-1	8	49,78	55	36	29	5	30	41	55,5	71,2	15
	16 B-1	8	66,37	75	48	40	10	30	40,5	40	81,2	15
	08 A/B-1	12	49,07	53	39	29	5	31,2	45,7	61,4	–	24
	10 A/B-1	10	51,37	55	39	29	5	31,2	45,7	61,4	–	24
	12 B-1	8	49,78	55	36	29	5	31,2	45,7	61,4	–	24
	16 B-1	8	66,37	75	48	40	10	30,7	50,7	71,4	–	24
	08 A/B-1	12	49,07	53	39	29	5	31,2	45,7	61,4	–	24
	10 A/B-1	10	51,37	55	39	29	5	31,2	45,7	61,4	–	24
	16 B-1	8	66,37	75	48	40	10	30,7	50,7	71,4	–	24

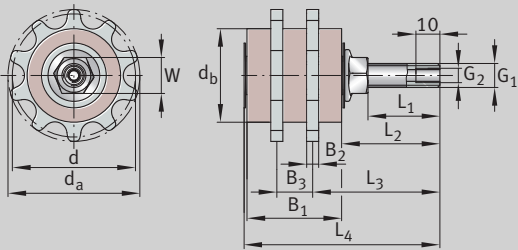


Chain lubrication pinions

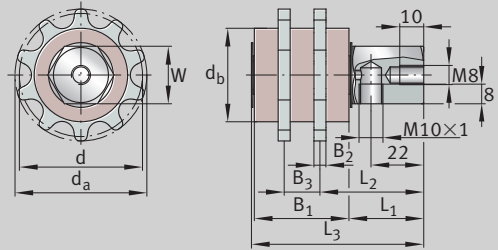
Type overview
Chain lubrication pinions
in duplex design

Lubricant feed, axial		Lubricant feed, radial
		
A		B
		000B27A7
Lubricant feed, radial, with spring plate		
		
C		
000AF85A		
Type	Ordering number	Ordering designation
A	093283520-0000-10	ARCALUB-X.CHAIN-PINION-08AB2-Z12-G
	093283571-0000-10	ARCALUB-X.CHAIN-PINION-10AB2-Z10-G
	093283628-0000-10	ARCALUB-X.CHAIN-PINION-12B2-Z8-G
	093283687-0000-10	ARCALUB-X.CHAIN-PINION-16B2-Z8-G
B	093283539-0000-10	ARCALUB-X.CHAIN-PINION-08AB2-Z12-W
	093283580-0000-10	ARCALUB-X.CHAIN-PINION-10AB2-Z10-W
	093283636-0000-10	ARCALUB-X.CHAIN-PINION-12B2-Z8-W
	093283695-0000-10	ARCALUB-X.CHAIN-PINION-16B2-Z8-W
C	093283598-0000-10	ARCALUB-X.CHAIN-PINION-10AB2-Z10-WF
	093283644-0000-10	ARCALUB-X.CHAIN-PINION-12B2-Z8-WF
	093283709-0000-10	ARCALUB-X.CHAIN-PINION-16B2-Z8-WF

1) A DIN 8188
(American design, ANSI: American National Standards Institute)
B DIN 8187
(European design, British Standard)

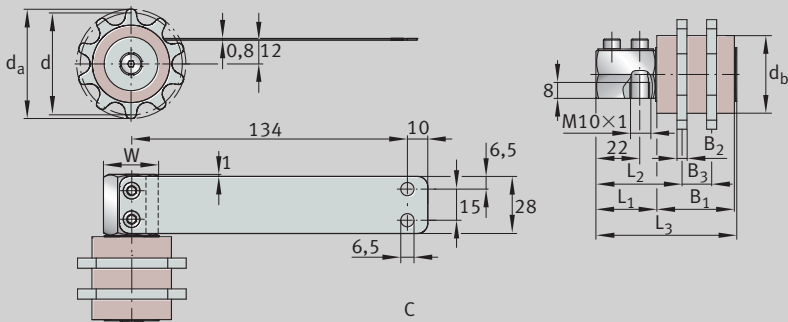


A



B

000B2780



C

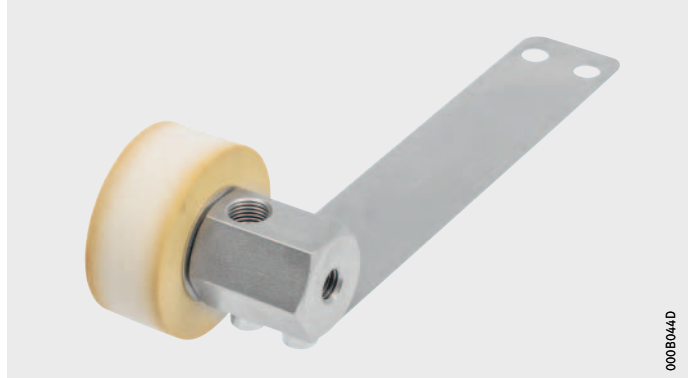
000AF35B

	Chain type according to ISO 606 ¹⁾	Teeth Quantity	Pitch circle diameter d mm	Dimensions									Thread		Width across flats W mm
				d _a mm	d _b mm	B ₁ mm	B ₂ mm	B ₃ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	G ₁	G ₂	
	08 A/B-2	12	49,07	53	39	29	5	15	30	41	55,5	71,2	M10	M6	15
	10 A/B-2	10	51,37	55	39	29	5	15	30	41	55,5	71,2	M10	M6	15
	12 B-2	8	49,78	55	36	29	5	15	30	41	55,5	71,2	M10	M6	15
	16 B-2	8	66,37	75	48	40	10	30	30	40,5	40	81,2	M16	M10×1	15
	08 A/B-2	12	49,07	53	39	29	5	15	31,2	45,7	61,4	–	–	–	24
	10 A/B-2	10	51,37	55	39	29	5	15	31,2	45,7	61,4	–	–	–	24
	12 B-2	8	49,78	55	36	29	5	15	31,2	45,7	61,4	–	–	–	24
	16 B-2	8	66,37	75	48	40	10	30	30,7	50,7	71,4	–	–	–	24
	10 A/B-2	12	49,07	53	39	29	5	15	31,2	45,7	61,4	–	–	–	24
	12 B-2	10	51,37	55	39	29	5	15	31,2	45,7	61,4	–	–	–	24
	16 B-2	8	66,37	75	48	40	10	30	30,7	50,7	71,4	–	–	–	24



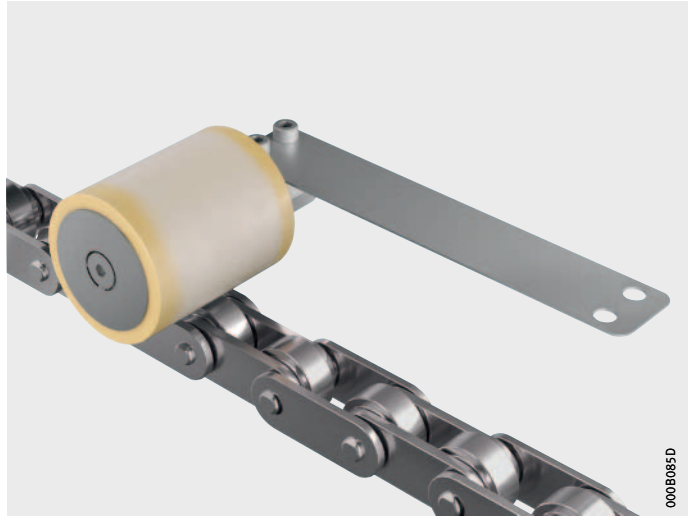
Lubrication rollers

Figure 1
Lubrication roller



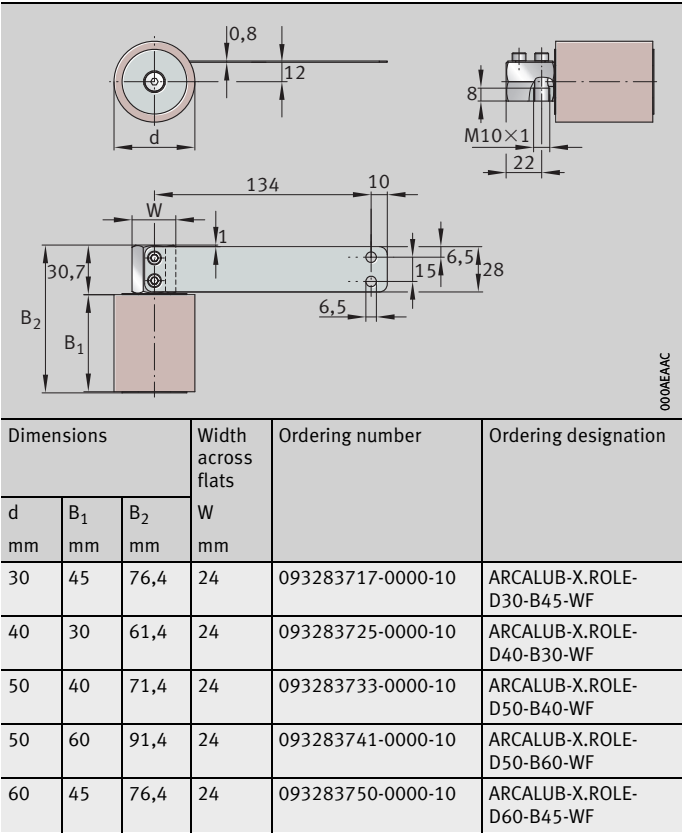
In lubrication rollers, lubricant is applied by means of rollers made from open cell PU foam. All designs are fitted with a spring plate, *Figure 1*.

Figure 2
Lubrication of a roller chain by means of a lubrication roller



Lubrication rollers are used for the lubrication of raceways, for example on roller chains, *Figure 2*.

Type overview
Lubrication rollers





Manual lubrication tools

Lever grease gun

Drum pumps

Grease pistols

Transport aids



Manual lubrication tools

Lever grease gun 118

The lever grease gun is suitable for high lubrication pressures. The proven TWIN-LOCK system protects the lever grease gun against abrasion during continuous operation and prevents the risk of quasi-lubrication to machines and equipment.

Drum pumps 122

Manual and pneumatic drum pumps are suitable for delivering large quantities of grease under high pressure over long distances. However, they can also be used to fill the CONCEPT lubricators and associated cartridges.

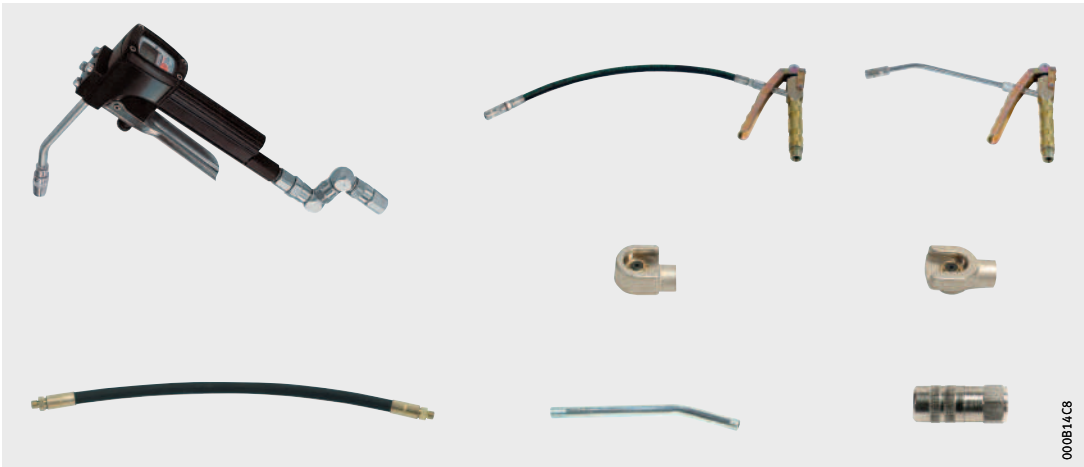
When directly inserted in the original container, they facilitate economical use (less time required and optimal emptying). At the same time, they reduce the risk of lubricant contamination.

Grease pistols 130

The range of grease pistols extends from simple grease pistols to volumetric metering pistols with digital flow rate measurement.

Transport aids 132

Carry grips and trolleys allow the mobile use of drum pumps at any location. Trolleys are available in different designs and for different container sizes.



Lever grease gun



Figure 1
Lever grease gun
ARCA-GREASE-GUN

The lever grease gun ARCA-GREASE-GUN can be used to achieve high lubrication pressures without issue.

The proven TWIN-LOCK system protects the piston guide of the lever grease gun against wear-induced abrasion during continuous operation and thus prevents the risk of quasi-lubrication to machines and equipment.

The EVER-FLOW system ensures that the lever grease gun functions correctly even with highly viscous grease and very low temperatures. Due to the vacuum created during the pumping operation, even tough biological grease can be delivered easily.

Technical data

Feature		Value
Fill quantity	Grease cartridge	400 g (up to NLGI 3)
	Loose grease	500 cm ³ (up to NLGI 3)
Operating pressure		400 bar
Delivery rate		≈ 1,9 cm ³ /Stroke length
Pressure pipe	Material	Steel, zinc-coated
	Diameter	56 mm
	Length	296 mm
Threaded connector		G1/8

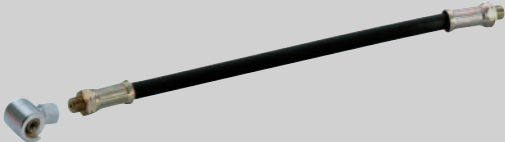
Type overview
Lever grease gun

Type	Ordering number	Ordering designation
Lever grease gun	039064115-0000-10	ARCA-GREASE-GUN

Type overview
Hose with plug-in coupling

Hose including 4 jaw nozzle for taper type lubrication nipples to DIN 71412, threaded connector R ¹ / ₈ (both sides)			
			
000E48E2			
Type	Length L mm	Ordering number	Ordering designation
Hose	300	039064123-0000-10	ARCA-GREASE-GUN.HOSE

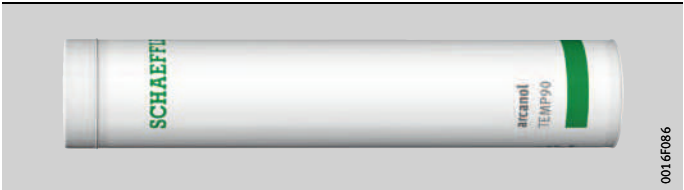
Type overview
Hose with slide coupling

Hose including slide coupling, for button head lubrication nipples to DIN 3404-16, threaded connector R ¹ / ₈ (both sides)			
			
000AE28F			
Type	Length L mm	Ordering number	Ordering designation
Hose	300	039697010-0000-10	ARCA-GREASE-GUN.HOOK-ON-HOSE



Lever grease gun

Type overview Arcanol grease cartridges



Type	Ordering number	Ordering designation
400 g cartridge containing		
Arcanol CLEAN-M	069429111-0000-10	ARCANOL-CLEAN-M-400G
Arcanol FOOD2	019143648-0000-10	ARCANOL-FOOD2-400G
Arcanol LOAD150	055358152-0000-10	ARCANOL-LOAD150-400G
Arcanol LOAD220	064741028-0000-10	ARCANOL-LOAD220-400G
Arcanol LOAD400	019143818-0000-11	ARCANOL-LOAD400-400G
Arcanol LOAD460	065825144-0000-10	ARCANOL-LOAD460-400G
Arcanol MULTI2	019143893-0000-11	ARCANOL-MULTI2-400G
Arcanol MULTI3	016727355-0000-11	ARCANOL-MULTI3-400G
Arcanol MULTITOP	019144016-0000-11	ARCANOL-MULTITOP-400G
Arcanol SEMIFLUID	096322918-0000-10	ARCANOL-SEMIFLUID-380G
Arcanol SPEED2,6	062447610-0000-10	ARCANOL-SPEED2,6-400G
Arcanol TEMP90	019144172-0000-10	ARCANOL-TEMP90-400G
Arcanol TEMP110	019144075-0000-10	ARCANOL-TEMP110-400G
Arcanol VIB3	055289568-0000-10	ARCANOL-VIB3-400G

Further information

Technical Product Information:

- TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>

Datasheet:

- FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>



Drum pumps

- ① Pneumatic drum pump
ARCA-PUMP-BARREL-180-S
- ② Metering pistol grease gun
- ③ High pressure hose
- ④ Manual drum pump
ARCA-PUMP-BARREL-50-MANUAL
- ⑤ Refill nipple
- ⑥ Connecting piece
- ⑦ Dust cover
- ⑧ Follower piston

Figure 1
Combination of drum pumps with
grease containers and accessories
(examples)



Manual and pneumatic drum pumps are suitable for delivering large quantities of grease under high pressure over long distances. However, they can also be used to fill the CONCEPT lubricators and associated cartridges.

When directly inserted in the original container, they facilitate economical use (less time required and optimal emptying). At the same time, they reduce the risk of lubricant contamination.

Pneumatic drum pumps

The pneumatic drum pump ARCA-PUMP-BARREL...-S is suitable for use in hobbocks with a fill quantity of 25 kg or 50 kg as well as for drums with 180 kg.

In the workshop, it can be used for:

- the filling of rolling bearings
- the greasing of gearboxes
- all applications that must be filled repeatedly with different grease quantities.

The pneumatic drum pump can be fitted either with a simple hand valve or with a metering pistol grease gun, see page 130.

Manual drum pumps

The manual drum pump ARCA-PUMP-BARREL-...-MANUAL is suitable for use in hobboscks with a fill quantity of 25 kg or 50 kg.

It is a cost-effective alternative to the pneumatic drum pump that can be used anywhere and is also used in particular for filling the lubricator CONCEPT1 and the cartridges from CONCEPT2, CONCEPT4 and CONCEPT8.

Refill nipples, see page 22, and a suitable connecting piece, see page 126, are available for connecting the lubricator CONCEPT1. Filling adapters, see page 67, are available for connecting the cartridges of CONCEPT2, CONCEPT4 and CONCEPT8.

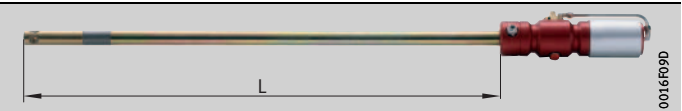
Drum pumps Technical data

Feature		Drum pump	
		pneumatic	manual
Connectors	Compressed air inlet	G ¹ / ₄ (internal thread)	–
	Grease outlet	G ¹ / ₄ (external thread)	
Suction pipe	Diameter	30 mm	
	Length	480 mm, 750 mm, 950 mm	480 mm, 750 mm
Operating pressure (at 6 bar pneumatic supply pressure)		4,2 bar	–
Pneumatic supply pressure	min.	3,5 bar	–
	max.	8,5 bar	–
Pressure ratio		70:1	–
Delivery rate		1 100 cm ³ /min	42 g/Stroke length
Maximum air consumption		150 l/min	–
Maximum consistency class		NLGI 2	NLGI 3
Grease temperature (NLGI 2)	min.	+10 °C	
	max.	+40 °C	
Sound pressure level		76 dB	–
Mass		5,46 kg, 6,37 kg, 7,1 kg	3,5 kg, 4,5 kg



Drum pumps

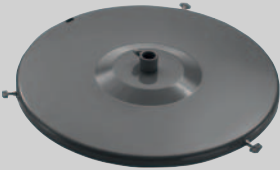
Type overview Pneumatic drum pumps

 001669D			
Suitable container	Length L	Ordering number	Ordering designation
kg	mm		
25	480	065139470-0000-10	ARCA-PUMP-BARREL-25-S
50	750	065139542-0000-10	ARCA-PUMP-BARREL-50-S
180	950	065139550-0000-10	ARCA-PUMP-BARREL-180-S

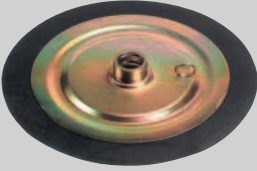
Type overview Manual drum pumps

Manual drum pump including fill nozzle (90°)			
 0018D417			
Suitable container	Length L	Ordering number	Ordering designation
kg	mm		
25	480	095214038-0000-10	ARCA-PUMP-BARREL-25-MANUAL
50	750	095214054-0000-10	ARCA-PUMP-BARREL-50-MANUAL

Type overview
Dust cover

Dust cover made from steel, powder coated, suction pipe diameter = 30 mm				
				
Suitable container kg	Container outside diameter mm		Ordering number	Ordering designation
	min.	max.		
25	300	350	065348524-0000-10	ARCA-PUMP-BARREL-25-S.LID
50	370	420	065349849-0000-10	ARCA-PUMP-BARREL-50-S.LID
180	550	600	065350863-0000-10	ARCA-PUMP-BARREL-180-S.LID

Type overview
Follower pistons

Follower pistons made from steel, zinc-coated, with rubber seal lip, suction pipe diameter = 30 mm				
				
Suitable container kg	Container outside diameter mm		Ordering number	Ordering designation
	min.	max.		
25	300	330	065349687-0000-10	ARCA-PUMP-BARREL-25-S.FP
50	360	400	065350685-0000-10	ARCA-PUMP-BARREL-50-S.FP
180	540	580	065351592-0000-10	ARCA-PUMP-BARREL-180-S.FP

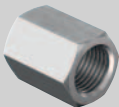
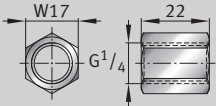


Drum pumps

Type overview High pressure hoses

Nominal pressure = 400 bar, burst pressure = 1 600 bar, connectors G ¹ / ₄ (1×internal thread, 1×external thread)		
 0018F159		
Length L m	Ordering number	Ordering designation
2	065352270-0000-10	ARCA-PUMP-BARREL.HOSE-2M
3	065352432-0000-10	ARCA-PUMP-BARREL.HOSE-3M
5	065352866-0000-10	ARCA-PUMP-BARREL.HOSE-5M
10	065353153-0000-10	ARCA-PUMP-BARREL.HOSE-10M

Type overview Connecting piece

Connecting piece, for connecting the refill nipple ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4 to the filling nozzle of the drum pump		
  0018D865		
Thread	Ordering number	Ordering designation
G ¹ / ₄	095291598-0000-10	ARCALUB-C1.CONNECT-G1/4

10 pieces per packaging unit.

Type overview
Arcanol hobbocks
25 kg



0018DD26

Type	Ordering number	Ordering designation
Hobbock (25 kg) containing		
Arcanol Food2	019143630-0000-10	ARCANOL-FOOD2-25KG#K
Arcanol LOAD220	019143761-0000-10	ARCANOL-LOAD220-25KG#K
Arcanol LOAD400	019143800-0000-11	ARCANOL-LOAD400-25KG#K
Arcanol LOAD460	065827066-0000-10	ARCANOL-LOAD460-25KG#S
Arcanol MOTION2	080267009-0000-10	ARCANOL-MOTION2-25KG#S
Arcanol MULTI2	019143885-0000-10	ARCANOL-MULTI2-25KG#K
Arcanol MULTITOP	019144008-0000-11	ARCANOL-MULTITOP-25KG#K
Arcanol TEMP120	019144105-0000-10	ARCANOL-TEMP120-25KG#K

Type overview
Arcanol hobbocks
50 kg



0018DD27

Type	Ordering number	Ordering designation
Hobbock (50 kg) containing		
Arcanol LOAD150	059810025-0000-10	ARCANOL-LOAD150-50KG
Arcanol LOAD400	019143826-0000-11	ARCANOL-LOAD400-50KG
Arcanol LOAD460	065827120-0000-10	ARCANOL-LOAD460-50KG
Arcanol MOTION2	080267157-0000-10	ARCANOL-MOTION2-50KG
Arcanol TEMP110	038705478-0000-10	ARCANOL-TEMP110-50KG

Further information

Technical Product Information:
■ TPI 168 Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F66>

Datasheet:
■ FAS Arcanol Rolling Bearing Greases
<https://www.schaeffler.de/std/1F67>



Drum pumps

Ordering examples

When ordering, the components must be selected according to the application and the size of the grease container. The ordering designation and ordering number must always be stated.

Example 1 Hobcock containing 25 kg, distance to lubrication point max. 5 m, hobcock must be moved to different locations, lubricant quantity must be metered.

- ① Drum pump
- ② Dust cover
- ③ Follower piston
- ④ High pressure hose
- ⑤ Metering pistol grease gun
- ⑥ Trolley

Figure 2
Example 1



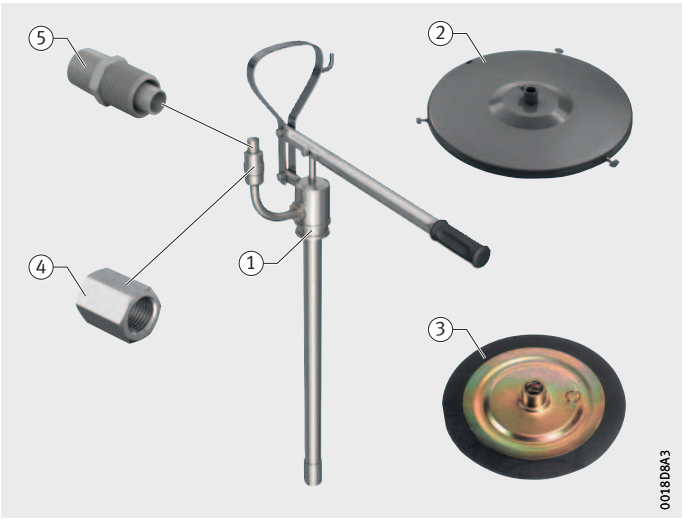
Ordering

Item	Ordering		
	Quantity	Ordering number	Ordering designation
①	1	065139470-0000-10	ARCA-PUMP-BARREL-25-S
②	1	065348524-0000-10	ARCA-PUMP-BARREL-25-S.LID
③	1	065349687-0000-10	ARCA-PUMP-BARREL-25-S.FP
④	1	065352866-0000-10	ARCA-PUMP-BARREL.HOSE-5M
⑤	1	065353269-0000-10	ARCA-PUMP-BARREL.GUN-METER
⑥	1	077464036-0000-10	ARCA-PUMP-BARREL-25-S.TROLLEY

Example 2 Hobbock containing 50 kg, manual filling of cartridges of lubricator CONCEPT1, hobbock is stationary in the room.

- ① Drum pump
- ② Dust cover
- ③ Follower piston
- ④ Connecting piece
- ⑤ Refill nipple

Figure 3
Example 2



Ordering

Item	Ordering		
	Quan- tity	Ordering number	Ordering designation
①	1	095214054-0000-10	ARCA-PUMP-BARREL-50-MANUAL
②	1	065349849-0000-10	ARCA-PUMP-BARREL-50-S.LID
③	1	065350685-0000-10	ARCA-PUMP-BARREL-50-S.FP
④	1	095291598-0000-10	ARCALUB-C1.CONNECT-G1/4
⑤	1	095248161-0000-10	ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4

Grease pistols

Type overview Metering pistol grease gun with digital flow rate measurement

Z type swivel joint G¹/₄, nozzle tube of length = 150 mm, 4 jaw nozzle, threaded connector M10×1 (for hose or nozzle tube)



Type	Ordering number	Ordering designation
Metering pistol grease gun	065353269-0000-10	ARCA-PUMP-BARREL.GUN-METER

Technical data Metering pistol grease gun

Feature	Value
Operating pressure	≤ 550 bar
Delivery rate	≤ 2,5 kg/min
Counting accuracy	± 3%

The metering pistol grease gun with digital flow rate measurement allows precise grease feed into bearing positions and gearboxes. The counter displays the grease quantity with an accuracy of 0,1 g and up to a maximum of 999 g per measurement operation.

The grease quantity is measured by volume. Before starting volume application, metering pistol grease guns must be set once with the aid of a precision balance.

Type overview Grease pistols without flow rate measurement

Axial swivel joint G¹/₄, 4 jaw nozzle, threaded connector M10×1 (for hose or nozzle tube)



Type	Hose length mm	Ordering number	Ordering designation
A	400	065353617-0000-10	ARCA-PUMP-BARREL.GUN-H
B	150	065353323-0000-10	ARCA-PUMP-BARREL.GUN-P

Type overview
Accessories for grease pistols

Suitable for all grease pistols

C

D

E

F

G

000AE56A

Type	Ordering number	Ordering designation
C Hose	077464478-0000-10	ARCA-PUMP-BARREL-S.GUN-HOSE
D Nozzle tube	077464648-0000-10	ARCA-PUMP-BARREL-S.GUN-PIPE
E 4 jaw nozzle	077465130-0000-10	ARCA-PUMP-BARREL-S.FIT-4-JAWS
F Slide coupling	077590465-0000-10	ARCA-PUMP-BARREL-S.FIT-HEX16
G Slide coupling	077590600-0000-10	ARCA-PUMP-BARREL-S.FIT-HEX16P

Technical data
Accessories for grease pistols
Type C, D, E

Feature	Type		
	C	D	E
	Hose	Nozzle tube	4 jaw nozzle
Thread	Both sides M10×1, external thread	Both sides M10×1, external thread	M10×1, Internal thread
Length	400 mm	150 mm	–
Suitable lubrication nipple	–	–	Taper type lubrication nipple

Technical data
Accessories for grease pistols
Type F, G

Feature	Type	
	F	G
	Slide coupling	Slide coupling
Design	For pulling	For insertion
Thread	M10×1, Internal thread	M10×1, Internal thread
Suitable lubrication nipple	Button head lubrication nipple, head diameter = 16 mm	Button head lubrication nipple, head diameter = 16 mm



Transport aids

Type overview Transport aids

		
A	B	C
0016f303		
Type	Ordering number	Ordering designation
A Carry grip for drum pumps	065353803-0000-10	ARCA-PUMP-BARREL-S.HANDLE
B Trolley for containers	077464036-0000-10	ARCA-PUMP-BARREL-25-S.TROLLEY
C Trolley for drums	074444239-0000-10	ARCA-PUMP-BARREL-50-S.TROLLEY

Technical data Transport aids

Feature	Type		
	A	B	C
Transport of	Drum pumps	Containers ¹⁾	Drums ²⁾
Material	Steel, zinc-coated	Steel, powder coated	Steel, powder coated
Dimensions mm	430×190×65	480×500-680×980	545×640×910
Mass kg	0,6	5,9	13,7
Rollers	–	2 pieces, Ø 150 mm	2 pieces, Ø 150 mm
Swivel castors	–	–	2 pieces, Ø 60 mm

- 1) Suitable for containers with a mass of 20 kg to 60 kg.
2) Suitable for drums with a diameter up to 410 mm and a mass of 50 kg to 60 kg.



Article list

Electrochemical lubricators		
Ordering designation	Ordering number	Page
With drive unit, prefilled for grease lubrication		
ARCALUB-C1-60-FOOD2	095249290-0000-10	18
ARCALUB-C1-60-LOAD220	095249273-0000-10	18
ARCALUB-C1-60-LOAD400	095249249-0000-10	18
ARCALUB-C1-60-MULTI2	095249230-0000-10	18
ARCALUB-C1-60-MULTITOP	095249222-0000-10	18
ARCALUB-C1-60-TEMP110	095249214-0000-10	18
ARCALUB-C1-125-FOOD2	095248897-0000-10	18
ARCALUB-C1-125-LOAD150	095731784-0000-10	18
ARCALUB-C1-125-LOAD220	095248870-0000-10	18
ARCALUB-C1-125-LOAD400	095248854-0000-10	18
ARCALUB-C1-125-LOAD460	095248838-0000-10	18
ARCALUB-C1-125-MULTI2	095248820-0000-10	18
ARCALUB-C1-125-MULTITOP	095248811-0000-10	18
ARCALUB-C1-125-TEMP110	095248200-0000-10	18
With drive unit, prefilled for oil lubrication		
ARCALUB-C1-60-CHAIN-OIL	096040432-0000-10	18
ARCALUB-C1-125-CHAIN-OIL	095248900-0000-10	18
ARCALUB-C1-125-FOOD-OIL	095248889-0000-10	18
With drive unit, unfilled		
ARCALUB-C1-60-REFILLABLE	095166050-0000-10	20
ARCALUB-C1-125-REFILLABLE	095166076-0000-10	20
Refilling kits		
ARCALUB-C1.DRYCELL-KIT-60	095287523-0000-10	21
ARCALUB-C1.DRYCELL-KIT-125	095287540-0000-10	21
Filling accessories		
ARCALUB-C1.NIPPLE-REFILL-G1/4	095248170-0000-10	22
ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4	095248161-0000-10	22
ARCALUB-C1.NIPPLE-REFILL-GREASE-R3/8	095248137-0000-10	22
ARCALUB-C1.PLUG-OIL-VALVE	095286780-0000-10	22
Reducing nipples		
ARCALUB-C1.NIPPLE-G1/8-G1/4	095285792-0000-10	27
ARCALUB-C1.NIPPLE-G1/4-G1/4	095285784-0000-10	27
ARCALUB-C1.NIPPLE-G3/8-G1/4	095285806-0000-10	27
ARCALUB-C1.NIPPLE-M6-G1/4	095286071-0000-10	27
ARCALUB-C1.NIPPLE-M8-G1/4	095286080-0000-10	27
ARCALUB-C1.NIPPLE-M8X1-G1/4	095301585-0000-10	27
ARCALUB-C1.NIPPLE-M10-G1/4	095286101-0000-10	27
ARCALUB-C1.NIPPLE-M10X1-G1/4	095286721-0000-10	27
ARCALUB-C1.NIPPLE-M12-G1/4	095286730-0000-10	27
ARCALUB-C1.NIPPLE-M12X1,5-G1/4	095286748-0000-10	27
ARCALUB-C1.NIPPLE-UNF1/4-G1/4	095286756-0000-10	27

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Extensions		
ARCALUB-C1.EXTEND-35MM-G1/4	095285725-0000-10	27
ARCALUB-C1.EXTEND-50MM-G1/4	095285733-0000-10	27
Connecting pieces		
ARCALUB-C1.CONNECT-45-G1/4-IA	095285393-0000-10	28
ARCALUB-C1.CONNECT-90-G1/4-IA	095285407-0000-10	28
Hose		
ARCALUB-C1.HOSE-8X6-PA12-5M	095285750-0000-10	28
Check valve		
ARCALUB-C1.CONNECT-OIL-VALVE-G1/4	095287515-0000-10	29
Hose connector part		
ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	095287051-0000-10	29
Device holders		
ARCALUB-C1.CLAMP	095285377-0000-10	31
ARCALUB-C1.CLAMP-MAGNET	095285385-0000-10	31
ARCALUB-C1.MOUNT-SUPPORT-R1/4	095285768-0000-10	31
ARCALUB-C1.FIXING-ANGLE	095285741-0000-10	31
ARCALUB-C1.FIXINGSCREW-G1/2-R1/4	096691620-0000-10	31
Protective accessories		
ARCALUB-C1.COVER	095285717-0000-10	32
2-way adapter		
ARCALUB-C1.ADAPTER-TWIN	095285326-0000-10	32
Brushes		
ARCALUB-C1.BRUSH-25MM-G1/4-G	095285334-0000-10	33
ARCALUB-C1.BRUSH-40MM-G1/4-G	095285342-0000-10	33
ARCALUB-C1.BRUSH-70MM-G1/4-G	095285350-0000-10	33
ARCALUB-C1.BRUSH-100MM-G1/4-G	095285369-0000-10	33
Spare parts		
ARCALUB-C1.SEAL	095286802-0000-10	34
ARCALUB-C1.SEAL-CAP	095287043-0000-10	34
Demo case		
DEMO-ARCALUB-C1-SET	095287558-0000-10	36
Starter kit		
ARCALUB-C1-KIT001	095463860-0000-10	38



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CONCEPT2		
ARCALUB-C2-2P	086872931-0000-10	44
ARCALUB-C2-2P-24VDC	086873105-0000-10	44
ARCALUB-C2-2P-OIL-24VDC	092246265-0000-10	44
CONCEPT4		
ARCALUB-C4-2P-24VDC	094901589-0000-10	50
CONCEPT8		
ARCALUB-C8-2P	082249156-0000-10	56
ARCALUB-C8-4P	082266646-0000-10	56
ARCALUB-C8-2P-OIL	083786910-0000-10	56
ARCALUB-C8-4P-OIL	083787062-0000-10	56
Cartridges, filled with Arcanol grease		
ARCALUB-C2.LC250-CLEAN-M	087334194-0000-10	60
ARCALUB-C2.LC250-FOOD2	087334020-0000-10	60
ARCALUB-C2.LC250-LOAD150	087329077-0000-10	60
ARCALUB-C2.LC250-LOAD220	087329115-0000-10	60
ARCALUB-C2.LC250-LOAD400	087329131-0000-10	60
ARCALUB-C2.LC250-LOAD460	087329140-0000-10	60
ARCALUB-C2.LC250-LOAD1000	087329280-0000-10	60
ARCALUB-C2.LC250-MULTI2	087328038-0000-10	60
ARCALUB-C2.LC250-MULTITOP	087328810-0000-10	60
ARCALUB-C2.LC250-MOTION2	087334216-0000-10	60
ARCALUB-C2.LC250-SEMIFLUID	095195831-0000-10	60
ARCALUB-C2.LC250-SPEED2,6	087334046-0000-10	60
ARCALUB-C2.LC250-TEMP90	087329816-0000-10	60
ARCALUB-C2.LC250-TEMP110	087329840-0000-10	60
ARCALUB-C2.LC250-TEMP120	087329980-0000-10	60
ARCALUB-C2.LC250-TEMP200	087329999-0000-10	60
ARCALUB-C4.LC400-CLEAN-M	095058125-0000-10	61
ARCALUB-C4.LC400-EM-L038	095058141-0000-10	61
ARCALUB-C4.LC400-FOOD2	095058117-0000-10	61
ARCALUB-C4.LC400-LOAD150	095056785-0000-10	61
ARCALUB-C4.LC400-LOAD220	095056793-0000-10	61
ARCALUB-C4.LC400-LOAD400	095056807-0000-10	61
ARCALUB-C4.LC400-LOAD460	095058010-0000-10	61
ARCALUB-C4.LC400-LOAD1000	095058028-0000-10	61
ARCALUB-C4.LC400-MULTI2	095056769-0000-10	61
ARCALUB-C4.LC400-MULTI3	095056750-0000-10	61
ARCALUB-C4.LC400-MULTITOP	095056777-0000-10	61
ARCALUB-C4.LC400-MOTION2	095058133-0000-10	61
ARCALUB-C4.LC400-SEMIFLUID	095195823-0000-10	61
ARCALUB-C4.LC400-SPEED2,6	095058087-0000-10	61
ARCALUB-C4.LC400-TEMP90	095058044-0000-10	61
ARCALUB-C4.LC400-TEMP110	095058052-0000-10	61
ARCALUB-C4.LC400-TEMP120	095058060-0000-10	61
ARCALUB-C4.LC400-TEMP200	095058079-0000-10	61
ARCALUB-C4.LC400-VIB3	095058095-0000-10	61

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Cartridges, filled with Arcanol grease		
ARCALUB-C8.LC800-CLEAN-M	083549129-0000-10	62
ARCALUB-C8.LC800-FOOD2	083549064-0000-10	62
ARCALUB-C8.LC800-LOAD150	083532439-0000-10	62
ARCALUB-C8.LC800-LOAD220	083533583-0000-10	62
ARCALUB-C8.LC800-LOAD400	083533761-0000-10	62
ARCALUB-C8.LC800-LOAD460	083533818-0000-10	62
ARCALUB-C8.LC800-LOAD1000	083548343-0000-10	62
ARCALUB-C8.LC800-MULTI2	083532412-0000-10	62
ARCALUB-C8.LC800-MULTI3	083548289-0000-10	62
ARCALUB-C8.LC800-MULTITOP	082631492-0000-10	62
ARCALUB-C8.LC800-SEMIFLUID	095195815-0000-10	62
ARCALUB-C8.LC800-SPEED2,6	083548629-0000-10	62
ARCALUB-C8.LC800-TEMP90	083533630-0000-10	62
ARCALUB-C8.LC800-TEMP110	083548580-0000-10	62
ARCALUB-C8.LC800-TEMP120	083548599-0000-10	62
ARCALUB-C8.LC800-TEMP200	083548602-0000-10	62
ARCALUB-C8.LC800-VIB3	083549099-0000-10	62
Refillable grease cartridges		
ARCALUB-C2.LC250-REFILLABLE	095028803-0000-10	66
ARCALUB-C4.LC400-REFILLABLE	095058036-0000-10	66
ARCALUB-C8.LC800-REFILLABLE	095028790-0000-10	66
Closing plugs		
ARCALUB-C2.LC250-SEAL-CAP	095179879-0000-10	66
ARCALUB-C4.LC400-SEAL-CAP	095179887-0000-10	66
ARCALUB-C8.LC800-SEAL-CAP	095179895-0000-10	66
Filling adapters		
ARCALUB-C2.LC250-RF-ADAPTER	095179909-0000-10	67
ARCALUB-C4.LC400-RF-ADAPTER	095180818-0000-10	67
ARCALUB-C8.LC800-RF-ADAPTER	095180826-0000-10	67
Voltage supply		
ARCALUB-C2.BATTERY	087314762-0000-10	70
ARCALUB-X.CABLE-M12-10M	075378361-0000-10	70
ARCALUB-X.CABLE-M12X1-5M-LED-S	083788964-0000-10	70
ARCALUB-X.CABLE-M12X1-10M-LED-S	083788980-0000-10	70
ARCALUB-X.CABLE-M12-5M-LED	075592240-0000-10	70
ARCALUB-X.CABLE-M12-10M-LED	077879805-0000-10	70
Device holders		
ARCALUB-C2.HOLDER-KIT	092435726-0000-10	74
ARCALUB-C8.HOLDER-KIT	093204094-0000-10	74
Splitters, progressive distributors		
ARCALUB-X.SPLITTER-2X-STRAIGHT-GREASE	081307497-0000-10	76
ARCALUB-X.SPLITTER-2X-STRAIGHT-OIL	074969218-0000-10	76
ARCALUB-X.PROGDIV-3X-RIGHT-0.05CCM	093204060-0000-10	78



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Hose connectors		
ARCALUB-X.CONNECT-4-4	095770887-0000-10	80
ARCALUB-X.CONNECT-6-4	093040717-0000-10	80
ARCALUB-X.CONNECT-6-6	083867112-0000-10	80
ARCALUB-X.CONNECT-8-6	083867279-0000-10	80
ARCALUB-X.CONNECT-8-8	083867309-0000-10	80
ARCALUB-X.CONNECT-4-4-W	095770895-0000-10	80
ARCALUB-X.CONNECT-6-6-W	088902250-0000-10	80
ARCALUB-X.TUBEFIT-CONNECT-8-8-W	094927723-0000-10	80
Y pieces		
ARCALUB-X.TUBEFIT-Y-D6	076693180-0000-10	81
ARCALUB-X.TUBEFIT-Y-D8	083654640-0000-10	81
Check valve		
ARCALUB-X.OIL-VALVE-SAT106G	092927122-0000-10	81
Connection adapters		
ARCALUB-X.TUBEFIT-SAT8A6I	094487979-0000-10	82
ARCALUB-X.TUBEFIT-SAT-8A-4I	095777970-0000-10	82
ARCALUB-X.TUBEFIT-SAT-6A-4I	095777962-0000-10	82
ARCALUB-X.TUBEFIT-SAT-6A-6I-W	095058150-0000-10	82
ARCALUB-X.TUBEFIT-SAT-8A-8I-W	095058168-0000-10	82
Hose connector parts		
ARCALUB-X.TUBEFIT-M3-SAT034G-S	093041390-0000-10	84
ARCALUB-X.TUBEFIT-M6-SAT064G	095777636-0000-10	84
ARCALUB-X.TUBEFIT-M10X1-SAT104G	095777911-0000-10	84
ARCALUB-X.TUBEFIT-M5-SAT056G	077937490-0000-10	84
ARCALUB-X.TUBEFIT-M6-SAT066G	075527472-0000-10	84
ARCALUB-X.TUBEFIT-M8X1-SAT086G	079567428-0000-10	84
ARCALUB-X.TUBEFIT-M10X1-SAT106G	075527626-0000-10	84
ARCALUB-X.TUBEFIT-G1/8-SAT186G	084465905-0000-10	84
ARCALUB-X.TUBEFIT-G1/4-SAT146G	079567606-0000-10	84
ARCALUB-X.TUBEFIT-M8X1-SAT088G	083654216-0000-10	84
ARCALUB-X.TUBEFIT-M10X1-SAT108G	083654356-0000-10	84
ARCALUB-X.TUBEFIT-G1/8-SAT188G	083654534-0000-10	84
ARCALUB-X.TUBEFIT-G1/4-SAT148G	083654607-0000-10	84
ARCALUB-X.TUBEFIT-M6-SAT064W	095777644-0000-10	86
ARCALUB-X.TUBEFIT-M10X1-SAT104W	095777954-0000-10	86
ARCALUB-X.TUBEFIT-M5-SAT056W	079567401-0000-10	86
ARCALUB-X.TUBEFIT-M6-SAT066W	075676621-0000-10	86
ARCALUB-X.TUBEFIT-M8X1-SAT086W	079567584-0000-10	86
ARCALUB-X.TUBEFIT-M10X1-SAT106W	076968553-0000-10	86
ARCALUB-X.TUBEFIT-G1/8-SAT186W	084465964-0000-10	86
ARCALUB-X.TUBEFIT-G1/4-SAT146W	079567622-0000-10	86
ARCALUB-X.TUBEFIT-M8X1-SAT088W	083654275-0000-10	86
ARCALUB-X.TUBEFIT-M10X1-SAT108W	083654402-0000-10	86
ARCALUB-X.TUBEFIT-G1/8-SAT188W	083654577-0000-10	86
ARCALUB-X.TUBEFIT-G1/4-SAT148W	083654623-0000-10	86

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Hoses, hose cutters		
ARCALUB-X.HOSE-4X2,5-PA12-5M	093041241-0000-10	88
ARCALUB-X.HOSE-4X2,5-PA12-10M	093041195-0000-10	88
ARCALUB-X.HOSE-4X2,5-PA12-50M	095775854-0000-10	88
ARCALUB-X.HOSE-PA12-5M	076691217-0000-10	88
ARCALUB-X.HOSE-PA12-10M	076691497-0000-10	88
ARCALUB-X.HOSE-PA12-50M	085842109-0000-10	88
ARCALUB-X.HOSE-PA66-5M	083788573-0000-10	88
ARCALUB-X.HOSE-PA66-10M	083788581-0000-10	88
ARCALUB-X.HOSE-PA66-50M	083788603-0000-10	88
ARCALUB-X.HOSE-PA12-CLEAR-5M	075526336-0000-10	89
ARCALUB-X.HOSE-PA12-CLEAR-10M	083788441-0000-10	89
ARCALUB-X.HOSE-PA12-CLEAR-25M	075527251-0000-10	89
ARCALUB-X.HOSE-PA12-CLEAR-1000M	092515851-0000-10	89
ARCALUB-X.HOSE-CUTTOOL	083788620-0000-10	89
Demo cases		
DEMO-ARCALUB-C2-SET	089395433-0000-10	91
DEMO-ARCALUB-C8-SET	084224878-0000-10	91
Complete packages		
ARCALUB-C2-2P-EKIT	092662269-0000-10	92
ARCALUB-C2-2P-24VDC-EKIT	092662277-0000-10	92
Seal kit for CONCEPT8		
ARCALUB-C8.SEAL-KIT	094977291-0000-10	93
Cover kits		
ARCALUB-C2.COVER-KIT	092860915-0000-10	94
ARCALUB-C4.COVER-KIT	095111930-0000-10	94
ARCALUB-C8.COVER-KIT	095111948-0000-10	94



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Lubrication gears		
ARCALUB-X.PINION-MD1,5-Z24-B15-G-G	093283016-0000-10	100
ARCALUB-X.PINION-MD2,0-Z17-B20-G-G	093283032-0000-10	100
ARCALUB-X.PINION-MD3,0-Z17-B30-G-G	093283059-0000-10	100
ARCALUB-X.PINION-MD4,0-Z17-B40-G-G	093283075-0000-10	100
ARCALUB-X.PINION-MD5,0-Z17-B50-G-G	093283091-0000-10	100
ARCALUB-X.PINION-MD6,0-Z17-B60-G-G	093283113-0000-10	100
ARCALUB-X.PINION-MD8,0-Z17-B80-G-G	093283130-0000-10	100
ARCALUB-X.PINION-MD10,0-Z17-B100-G-G	093283156-0000-10	100
ARCALUB-X.PINION-MD1,5-Z24-B15-G-W	093283024-0000-10	100
ARCALUB-X.PINION-MD2,0-Z17-B20-G-W	093283040-0000-10	100
ARCALUB-X.PINION-MD3,0-Z17-B30-G-W	093283067-0000-10	100
ARCALUB-X.PINION-MD4,0-Z17-B40-G-W	093283083-0000-10	100
ARCALUB-X.PINION-MD5,0-Z17-B50-G-W	093283105-0000-10	100
ARCALUB-X.PINION-MD6,0-Z17-B60-G-W	093283121-0000-10	100
ARCALUB-X.PINION-MD8,0-Z17-B80-G-W	093283148-0000-10	100
ARCALUB-X.PINION-MD10,0-Z17-B100-G-W	093283164-0000-10	100
ARCALUB-X.PINION-MD1,5-Z24-B15-SR-G	093283172-0000-10	102
ARCALUB-X.PINION-MD2,0-Z17-B20-SR-G	093283199-0000-10	102
ARCALUB-X.PINION-MD3,0-Z17-B30-SR-G	093283210-0000-10	102
ARCALUB-X.PINION-MD4,0-Z17-B40-SR-G	093283237-0000-10	102
ARCALUB-X.PINION-MD5,0-Z17-B50-SR-G	093283253-0000-10	102
ARCALUB-X.PINION-MD6,0-Z17-B60-SR-G	093283270-0000-10	102
ARCALUB-X.PINION-MD8,0-Z17-B80-SR-G	093283296-0000-10	102
ARCALUB-X.PINION-MD10,0-Z17-B100-SR-G	093283318-0000-10	102
ARCALUB-X.PINION-MD1,5-Z24-B15-SR-W	093283180-0000-10	102
ARCALUB-X.PINION-MD2,0-Z17-B20-SR-W	093283202-0000-10	102
ARCALUB-X.PINION-MD3,0-Z17-B30-SR-W	093283229-0000-10	102
ARCALUB-X.PINION-MD4,0-Z17-B40-SR-W	093283245-0000-10	102
ARCALUB-X.PINION-MD5,0-Z17-B50-SR-W	093283261-0000-10	102
ARCALUB-X.PINION-MD6,0-Z17-B60-SR-W	093283288-0000-10	102
ARCALUB-X.PINION-MD8,0-Z17-B80-SR-W	093283300-0000-10	102
ARCALUB-X.PINION-MD10,0-Z17-B100-SR-W	093283326-0000-10	102

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ARCALUB-X.PINION-MD2,0-Z17-B20-SL-G	093283350-0000-10	104
ARCALUB-X.PINION-MD3,0-Z17-B30-SL-G	093283377-0000-10	104
ARCALUB-X.PINION-MD4,0-Z17-B40-SL-G	093283393-0000-10	104
ARCALUB-X.PINION-MD5,0-Z17-B50-SL-G	093283415-0000-10	104
ARCALUB-X.PINION-MD6,0-Z17-B60-SL-G	093283431-0000-10	104
ARCALUB-X.PINION-MD8,0-Z17-B80-SL-G	093283458-0000-10	104
ARCALUB-X.PINION-MD10,0-Z17-B100-SL-G	093283474-0000-10	104
ARCALUB-X.PINION-MD1,5-Z24-B15-SL-W	093283342-0000-10	104
ARCALUB-X.PINION-MD2,0-Z17-B20-SL-W	093283369-0000-10	104
ARCALUB-X.PINION-MD3,0-Z17-B30-SL-W	093283385-0000-10	104
ARCALUB-X.PINION-MD4,0-Z17-B40-SL-W	093283407-0000-10	104
ARCALUB-X.PINION-MD5,0-Z17-B50-SL-W	093283423-0000-10	104
ARCALUB-X.PINION-MD6,0-Z17-B60-SL-W	093283440-0000-10	104
ARCALUB-X.PINION-MD8,0-Z17-B80-SL-W	093283466-0000-10	104
ARCALUB-X.PINION-MD10,0-Z17-B100-SL-W	093283482-0000-10	104
Chain lubrication pinions		
ARCALUB-X.CHAIN-PINION-08AB1-Z12-G	093283490-0000-10	108
ARCALUB-X.CHAIN-PINION-10AB1-Z10-G	093283547-0000-10	108
ARCALUB-X.CHAIN-PINION-12B1-Z8-G	093283601-0000-10	108
ARCALUB-X.CHAIN-PINION-16B1-Z8-G	093283652-0000-10	108
ARCALUB-X.CHAIN-PINION-08AB1-Z12-W	093283504-0000-10	108
ARCALUB-X.CHAIN-PINION-10AB1-Z10-W	093283555-0000-10	108
ARCALUB-X.CHAIN-PINION-12B1-Z8-W	093283610-0000-10	108
ARCALUB-X.CHAIN-PINION-16B1-Z8-W	093283660-0000-10	108
ARCALUB-X.CHAIN-PINION-08AB1-Z12-WF	093283512-0000-10	108
ARCALUB-X.CHAIN-PINION-10AB1-Z10-WF	093283563-0000-10	108
ARCALUB-X.CHAIN-PINION-16B1-Z8-WF	093283679-0000-10	108
ARCALUB-X.CHAIN-PINION-08AB2-Z12-G	093283520-0000-10	110
ARCALUB-X.CHAIN-PINION-10AB2-Z10-G	093283571-0000-10	110
ARCALUB-X.CHAIN-PINION-12B2-Z8-G	093283628-0000-10	110
ARCALUB-X.CHAIN-PINION-16B2-Z8-G	093283687-0000-10	110
ARCALUB-X.CHAIN-PINION-08AB2-Z12-W	093283539-0000-10	110
ARCALUB-X.CHAIN-PINION-10AB2-Z10-W	093283580-0000-10	110
ARCALUB-X.CHAIN-PINION-12B2-Z8-W	093283636-0000-10	110
ARCALUB-X.CHAIN-PINION-16B2-Z8-W	093283695-0000-10	110
ARCALUB-X.CHAIN-PINION-10AB2-Z10-WF	093283598-0000-10	110
ARCALUB-X.CHAIN-PINION-12B2-Z8-WF	093283644-0000-10	110
ARCALUB-X.CHAIN-PINION-16B2-Z8-WF	093283709-0000-10	110
Lubrication rollers		
ARCALUB-X.ROLE-D30-B45-WF	093283717-0000-10	113
ARCALUB-X.ROLE-D40-B30-WF	093283725-0000-10	113
ARCALUB-X.ROLE-D50-B40-WF	093283733-0000-10	113
ARCALUB-X.ROLE-D50-B60-WF	093283741-0000-10	113
ARCALUB-X.ROLE-D60-B45-WF	093283750-0000-10	113



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Lever grease gun and accessories		
ARCA-GREASE-GUN	039064115-0000-10	119
ARCA-GREASE-GUN.HOSE	039064123-0000-10	119
ARCA-GREASE-GUN.HOOK-ON-HOSE	039697010-0000-10	119
Arcanol grease cartridges		
ARCANOL-CLEAN-M-400G	069429111-0000-10	120
ARCANOL-FOOD2-400G	019143648-0000-10	120
ARCANOL-LOAD150-400G	055358152-0000-10	120
ARCANOL-LOAD220-400G	064741028-0000-10	120
ARCANOL-LOAD400-400G	019143818-0000-11	120
ARCANOL-LOAD460-400G	065825144-0000-10	120
ARCANOL-MULTI2-400G	019143893-0000-11	120
ARCANOL-MULTI3-400G	016727355-0000-11	120
ARCANOL-MULTITOP-400G	019144016-0000-11	120
ARCANOL-SEMIFLUID-380G	096322918-0000-10	120
ARCANOL-SPEED2,6-400G	062447610-0000-10	120
ARCANOL-TEMP90-400G	019144172-0000-10	120
ARCANOL-TEMP110-400G	019144075-0000-10	120
ARCANOL-VIB3-400G	055289568-0000-10	120
Drum pumps and accessories		
ARCA-PUMP-BARREL-25-S	065139470-0000-10	124
ARCA-PUMP-BARREL-50-S	065139542-0000-10	124
ARCA-PUMP-BARREL-180-S	065139550-0000-10	124
ARCA-PUMP-BARREL-25-MANUAL	095214038-0000-10	124
ARCA-PUMP-BARREL-50-MANUAL	095214054-0000-10	124
ARCA-PUMP-BARREL-25-S.LID	065348524-0000-10	125
ARCA-PUMP-BARREL-50-S.LID	065349849-0000-10	125
ARCA-PUMP-BARREL-180-S.LID	065350863-0000-10	125
ARCA-PUMP-BARREL-25-S.FP	065349687-0000-10	125
ARCA-PUMP-BARREL-50-S.FP	065350685-0000-10	125
ARCA-PUMP-BARREL-180-S.FP	065351592-0000-10	125
ARCA-PUMP-BARREL.HOSE-2M	065352270-0000-10	126
ARCA-PUMP-BARREL.HOSE-3M	065352432-0000-10	126
ARCA-PUMP-BARREL.HOSE-5M	065352866-0000-10	126
ARCA-PUMP-BARREL.HOSE-10M	065353153-0000-10	126
ARCALUB-C1.CONNECT-G1/4	095291598-0000-10	126

Manual lubrication tools		
Ordering designation	Ordering number	Page
Arcanol hobbocks		
ARCANOL-FOOD2-25KG#K	019143630-0000-10	127
ARCANOL-LOAD220-25KG#K	019143761-0000-10	127
ARCANOL-LOAD400-25KG#K	019143800-0000-11	127
ARCANOL-LOAD460-25KG#S	065827066-0000-10	127
ARCANOL-MOTION2-25KG#S	080267009-0000-10	127
ARCANOL-MULTI2-25KG#K	019143885-0000-10	127
ARCANOL-MULTITOP-25KG#K	019144008-0000-11	127
ARCANOL-TEMP120-25KG#K	019144105-0000-10	127
ARCANOL-LOAD150-50KG	059810025-0000-10	127
ARCANOL-LOAD400-50KG	019143826-0000-11	127
ARCANOL-LOAD460-50KG	065827120-0000-10	127
ARCANOL-MOTION2-50KG	080267157-0000-10	127
ARCANOL-TEMP110-50KG	038705478-0000-10	127
Grease pistols and accessories		
ARCA-PUMP-BARREL.GUN-METER	065353269-0000-10	130
ARCA-PUMP-BARREL.GUN-H	065353617-0000-10	130
ARCA-PUMP-BARREL.GUN-P	065353323-0000-10	130
ARCA-PUMP-BARREL-S.GUN-HOSE	077464478-0000-10	131
ARCA-PUMP-BARREL-S.GUN-PIPE	077464648-0000-10	131
ARCA-PUMP-BARREL-S.FIT-4-JAWS	077465130-0000-10	131
ARCA-PUMP-BARREL-S.FIT-HEX16	0775904650000-10	131
ARCA-PUMP-BARREL-S.FIT-HEX16P	077590600-0000-10	131
Transport aids		
ARCA-PUMP-BARREL-S.HANDLE	065353803-0000-10	132
ARCA-PUMP-BARREL-25-S.TROLLEY	077464036-0000-10	132
ARCA-PUMP-BARREL-50-S.TROLLEY	074444239-0000-10	132



Customer-specific lubrication gears and chain lubrication pinions

Data required for design

Gear, toothed rack

Modulus M

Number of teeth (gear only)

Tooth set width

mm

Tooth set angle

°

left hand = “-”, straight teeth = “ ”, right hand = “+”

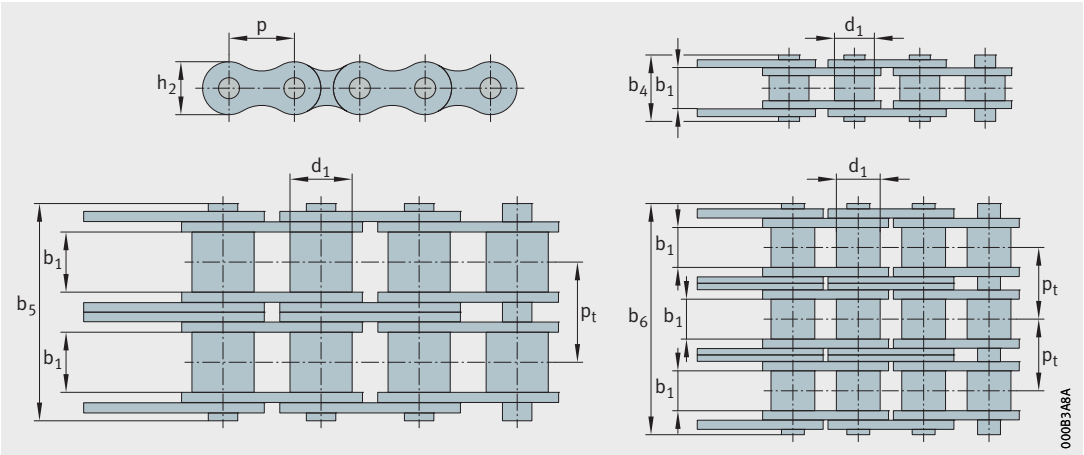
Chain

Type

☐ simplex

☐ duplex

☐ triplex



In the case of chains that do not correspond to ISO 606 (DIN 8188, DIN 8187), the additional following data are required:

Roller width b_1

mm

Pin length b_4, b_5, b_6

mm

Roller diameter d_1

mm

Link height h_2

mm

Pitch p

mm

Transverse pitch p_t

mm

Customer-specific lubrication gears and chain lubrication pinions

Lubricant

Type _____

☐ Grease ☐ Oil

The following documents relating to the lubricant have been added to this checklist (necessary for enquiry):

☐ Technical datasheet ☐ Safety datasheet

Available design envelope (L×W×H)

_____ × _____ × _____ mm

Speed

Circumferential speed (gear) _____ m/s

Linear speed (toothed rack, chain) _____ m/s

Operating temperature

from _____ to _____ °C

Ambient conditions

☐ Contamination ☐ Water ☐ Food industry ☐ Outdoor use

Relubrication

Lubrication device (designation) _____

Lubrication demand _____ g

every _____ hours

Other information



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TPI 252 / 02 / en-GB / DE / 2021-10



Lubricators

For grease and oil lubrication

Technical Product Information

Contents

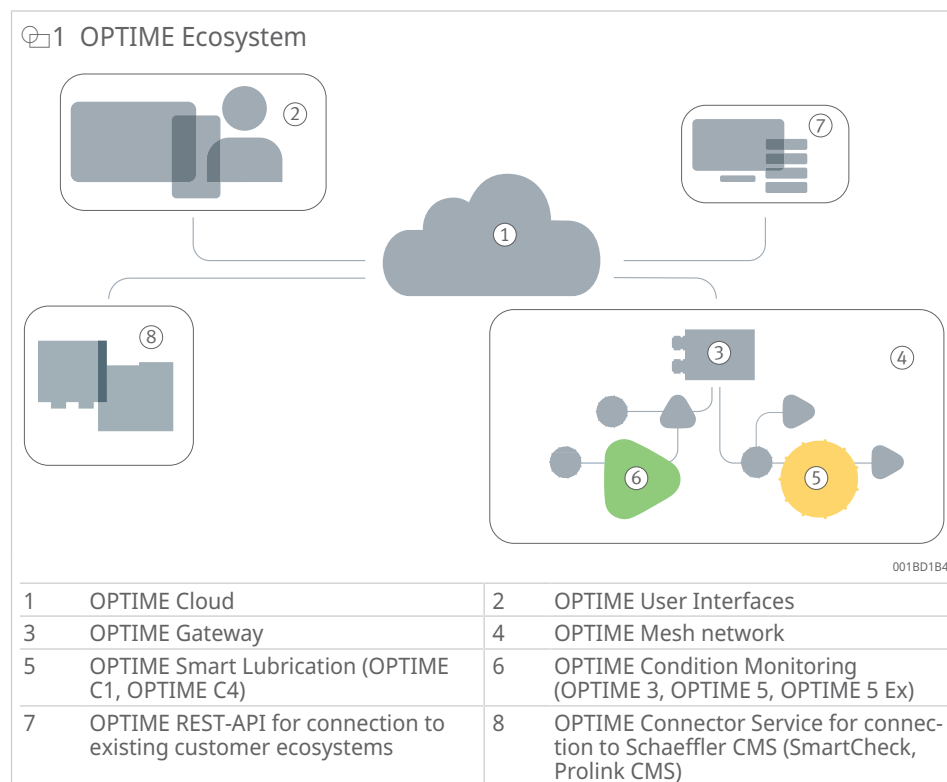
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1.1.1	Digital Service	4
1.2	OPTIME C1	6
1.2.1	Technical data	7
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1.3	FAG OPTIME C4	14
1.3.1	Technical data	15
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1 OPTIME lubricators in the OPTIME Ecosystem

1.1 OPTIME Ecosystem

The OPTIME Ecosystem provides a smart, automated solution for lubrication and condition monitoring across a wide range of machines.

This concept makes condition-based maintenance economical even for subsystems, as it helps to avoid unscheduled downtimes. During the development of the system, particular emphasis was placed on ensuring very simple start-up, easy scalability and a diverse range of potential uses. Every single process step was designed to be as user-friendly as possible.



1.1.1 Digital Service

OPTIME Digital Service is a cloud-based solution accessible via mobile apps and web applications.

Once the service has been subscribed to and the OPTIME Solution hardware components have been purchased, the OPTIME Digital Service is made available to the customer within a dedicated customer area in the Schaeffler Cloud. The OPTIME installation is managed via the mobile app or the OPTIME dashboard. The Digital Service consists of mandatory and optional service components.

1.1.1.1 Mandatory service components

1 OPTIME Ecosystem, mandatory service components

Type	Ordering number	Ordering designation	Code
Digital Service OPTIME C1	096927089-0000	OPTIME-DIGSERV-LUB	20FF ↗
Digital Service FAG OPTIME C4	302824367-0000	OPTIME-DIGSERV-LUB-C4	2100 ↗
Digital Service Tenant	095259724-0000	OPTIME-DIGSERV-BASEFEE	2101 ↗

Digital Service Tenant

- Monthly fee
- Provision and access to a dedicated customer area in the Schaeffler Cloud.
- User access and user management
- Commissioning and activation of actuators and gateways via the OPTIME mobile app.
- Hardware assignment, including creation of systems, machines and corresponding groups.
- Access to mobile apps and web applications

Digital Service Analytics

- Monthly fee
- Vibration-based and automated condition assessment of monitored machines using algorithm-based diagnostics.
- Display of alarms and failure causes.
- Fees apply to active sensors only. A sensor is considered active once the Schaeffler Cloud receives measurement data from it.

1.1.1.2 Optional service components

Digital Service REST API

- Monthly fee
- Access to REST API for the retrieval of data from the Schaeffler Cloud into the customer system.

Digital Service Connector

- Monthly fee
- Connection of Schaeffler measuring devices such as SmartCheck and Pro-Link CMS to the Schaeffler Cloud.

1.2 OPTIME C1

OPTIME C1 is an easy to use and economical solution for automatic single point lubrication. OPTIME C1 represents a further expansion of the OPTIME system developed for the condition monitoring of rolling bearings and integrates the lubricators of series CONCEPT1.

2 OPTIME C1

1	OPTIME C1 with battery pack	2	Filling nipple, user manual
3	Scope of delivery: 10×OPTIME C1 with battery pack, 1×filling nipple, 1×user manual		

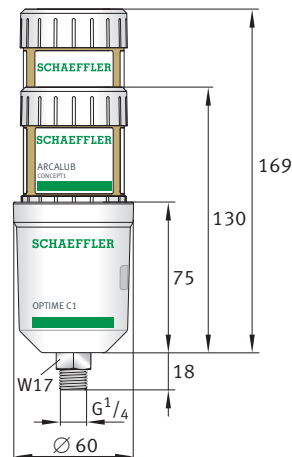
001BD1D4

2 Device variants

Type	Ordering number	Ordering designation	Code
OPTIME C1 Region 1 ¹⁾	300040903-0000	OPTIME-LW-C1-R1	2102
OPTIME C1 Region 3 ²⁾	300042426-0000	OPTIME-LW-C1-R3	2103

- ¹⁾ EU, Israel, Republic of Macedonia, Norway, Saudi Arabia, Switzerland, Turkey, Great Britain, Australia, India, Indonesia, Japan, Malaysia, New Zealand, Philippines, Singapore, Thailand, Vietnam, Canada, Colombia, Peru, USA
- ²⁾ EU, Israel, Republic of Macedonia, Norway, Morocco, Serbia, Saudi Arabia, United Arab Emirates, South Africa, Switzerland, Turkey, Great Britain, Australia, China, India, Indonesia, South Korea, Taiwan, Japan, Malaysia, New Zealand, Philippines, Singapore, Thailand, Vietnam, Canada, Brazil, Colombia, Peru, Mexico, Chile, USA

1.2.1 Technical data

3 OPTIME C1 and lubricator CONCEPT1 (60 cm³ and 125 cm³)

00198AA9

! Adherence to minimum clearances is required for fitting and removing the cartridge and for accessibility to the hose connections.

3 Technical data

Feature		Value
Dimensions		60 mm×93 mm×60 mm
Drive system		Electromechanical
Mass		≈ 0,25 kg
Installation position		As required
Housing material		PET
Threaded connector		G 1/4"
Protection class		IP68 (in conjunction with CONCEPT1)
Metering volume per lubrication interval		≈ 0,5 cm ³
Metering volume per day (dependent on size and setting of CONCEPT1)		0,17 cm ³ ... 8,3 cm ³
Grease lubricant	Volume	60 cm ³ or 125 cm ³
	Lubricant class	≤ NLGI 2
Oil lubricant	Volume	60 cm ³ or 125 cm ³
	Lubricant	> 68 cSt at +40 °C
Battery power supply	Operating pressure	≤ 10 bar
	Operating voltage	6 V, 2,3 Ah
	Operating temperature	-10 °C ... +55 °C
Dispensing time (steplessly adjustable)		1 month ... 12 months
Commissioning		NFC (Near Field Communication)
Wirepas Mesh (ISM band)		2,4 GHz
Line-of-sight range		100 m
Storage	Location	Protect from direct sunlight, store in a dry place.
	Temperature	+20 °C±5 °C
	Humidity	≤ 65 %
Further information: medias		/2019

Certifications

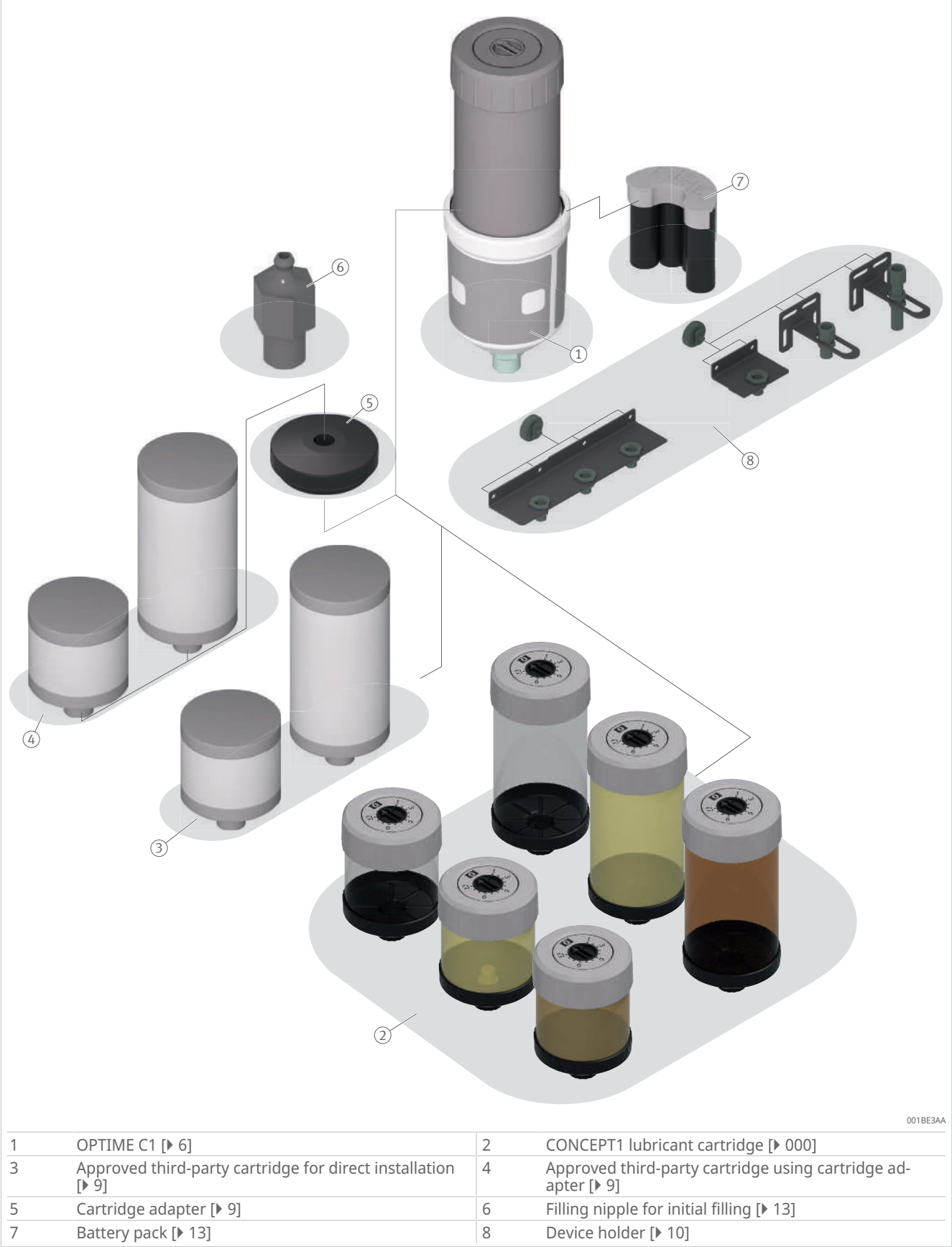


The OPTIME C1 lubricator is certified by law in numerous countries. Detailed certification information can be found online at <https://www.schaeffler.de/std/1FC3>.

1.2.2 Type-specific accessories and spare parts

1

4 Replacement parts and accessories for OPTIME C1



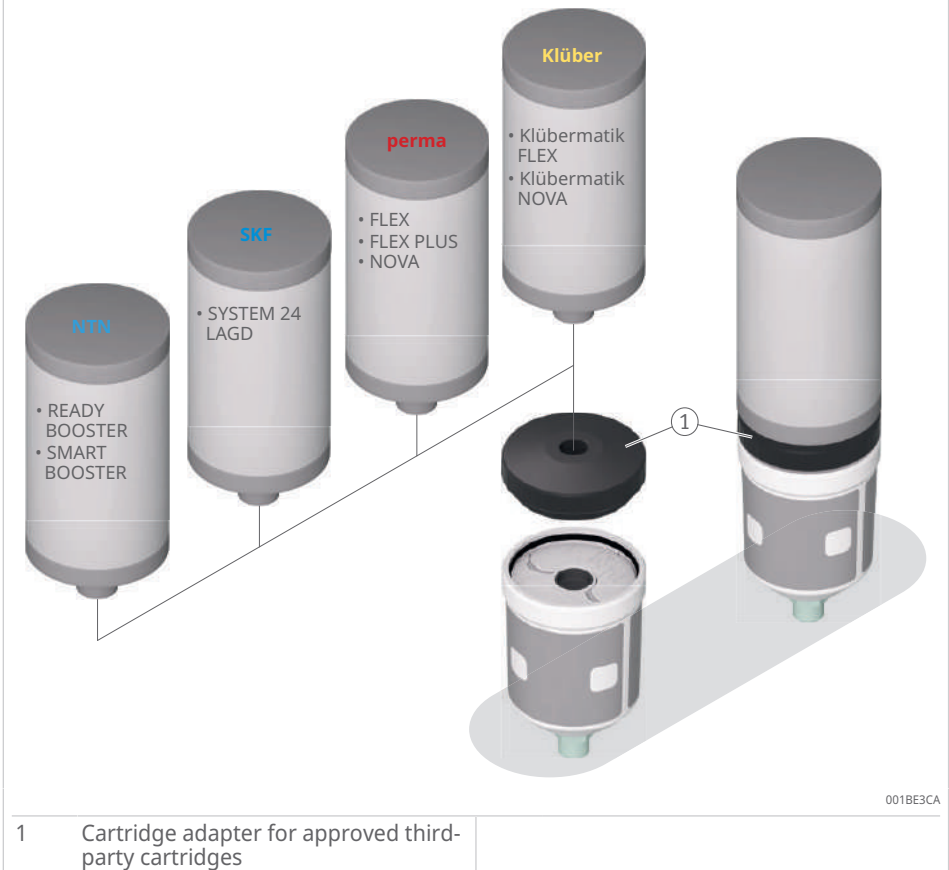
001BE3AA

1.2.2.1 Cartridge adapter for integration of third-party cartridges

Instead of the CONCEPT1 cartridge, approved lubricant cartridges from third-party providers may be used:

- Dimensionally compatible third-party cartridges can be screwed directly into the lubricator. A cartridge adapter is not required for dimensionally compatible third-party cartridges.
- Approved third-party cartridges that are not dimensionally compatible can be used together with the OPTIME-LW-C1.ADAPTER cartridge adapter.
- The approved third-party cartridges feature an R 1/4" threaded connector.

5 Cartridge adapter



4 Cartridge adapter

Description	Ordering number	Ordering designation	Code
Cartridge adapter	301271968-0000	OPTIME-LW-C1.ADAPTER	2104

 5 **Approved third-party cartridges (60 cm³, 125 cm³)**

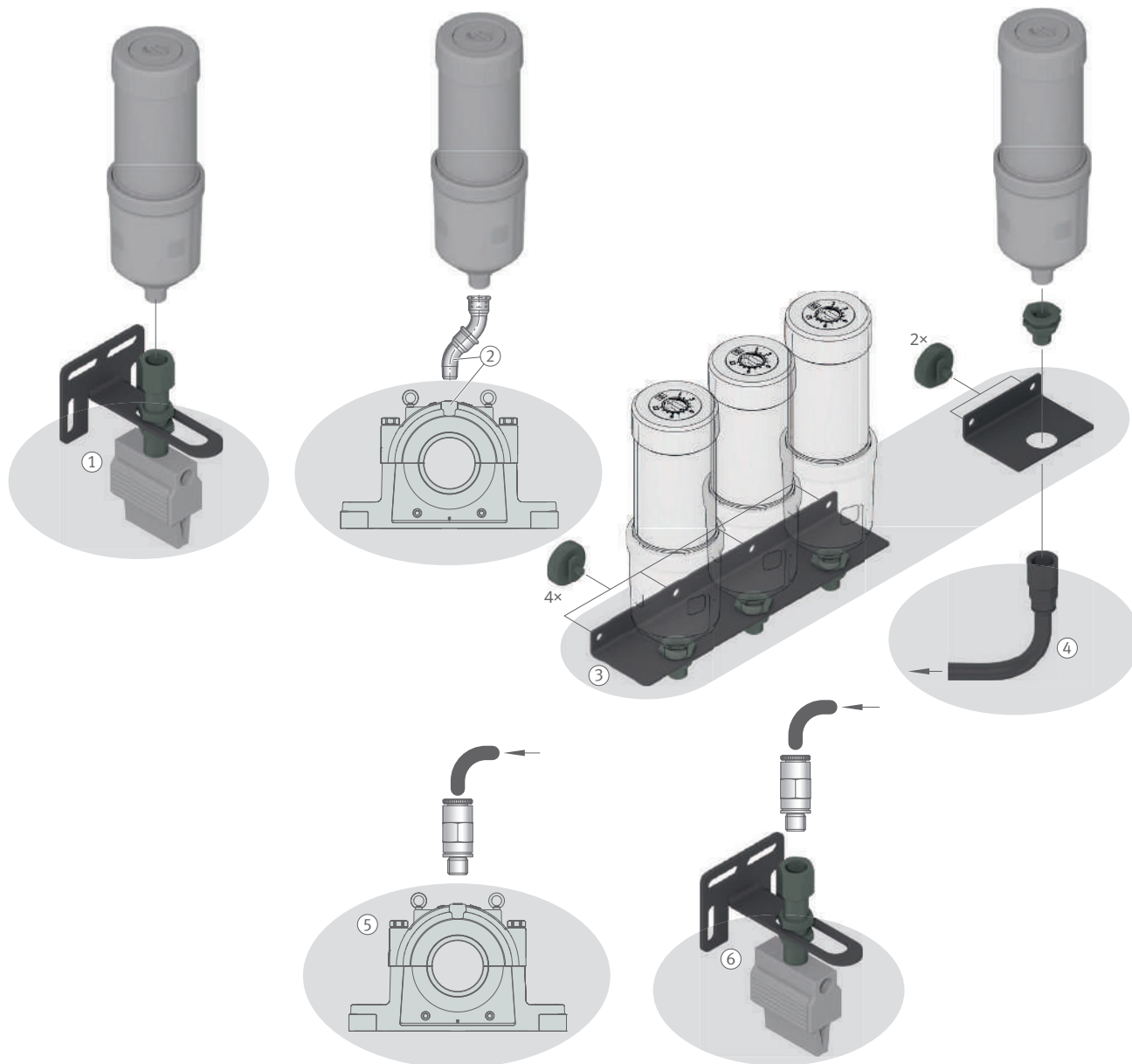
Cartridge provider	Product designation	Cartridge adapter required
perma	FLEX, FLEX PLUS, NOVA	✓
SKF	SKF SYSTEM 24 LAGD	✓
NTN	READY BOOSTER, SMART BOOSTER	✓
Klüber	Klübermatic FLEX, Klübermatic NOVA	✓
simatec	simalube (including 250 cm ³)	–

1.2.2.2 Device holders

The device holders facilitate the mounting of lubricators when they are to be mounted away from the lubrication point using a lubricant line.

The mounting brackets can either be screwed directly in place or attached using magnetic feet.

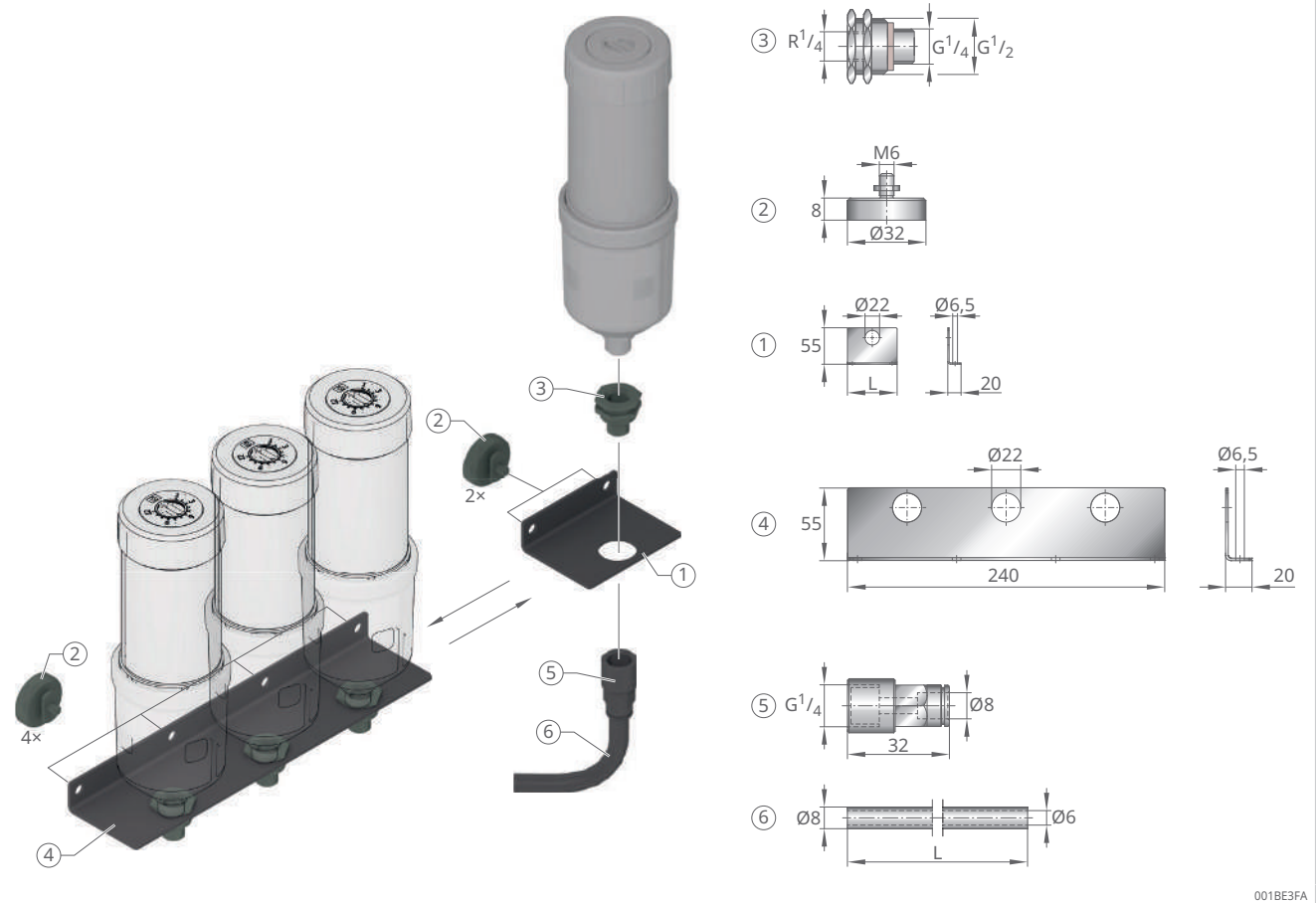
6 Mounting options with device holder for OPTIME C1



001BE3EA

1	Mounting bracket with bulkhead fitting for direct mounting and fine adjustment of brush position [► 12]	2	Direct mounting of the lubricator, no device holder required
3	Mounting bracket (1-way / 3-way) with magnetic foot and mounting nipple [► 11]	4	Screw-in connector for transition to lubricant line
5	Screw-in connector for transition to lubrication point	6	Mounting bracket with bulkhead fitting for fine adjustment of brush position [► 12]

7 Mounting bracket and magnetic foot



001BE3FA

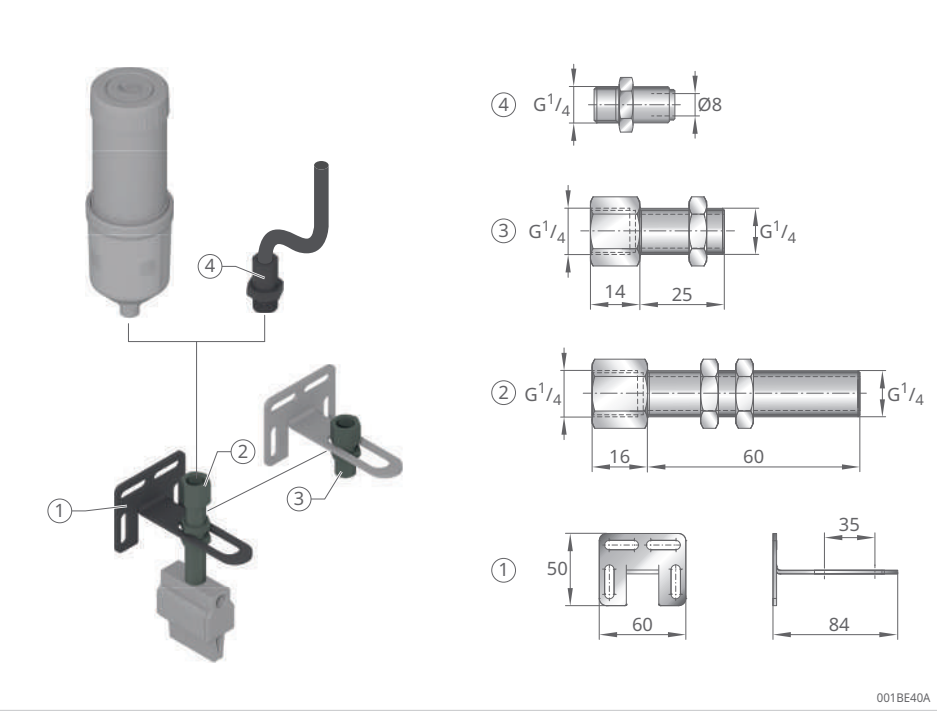
6 Ordering example: Mounting bracket and magnetic foot

Item	Quantity	Ordering number	Ordering designation	Code
1	1	095285741-0000	ARCALUB-C1.FIXING-ANGLE	209A
2	2	095285385-0000	ARCALUB-C1.CLAMP-MAGNET	2097
3	1	096691620-0000	ARCALUB-C1.FIXINGSCREW-G1/2-R1/4	209B
4 ¹⁾	1 ²⁾	097881317-0000	ARCALUB-C1.FIXING-ANGLE-TRI	209D
5 ¹⁾	1	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
6 ¹⁾	1	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

1) optional

2) quantities of other items must be adjusted accordingly

8 Mounting bracket with bulkhead fitting



7 Ordering example: Mounting bracket and bulkhead fitting

Item	Quan- tity	Ordering num- ber	Ordering designation	Code
1	1	097880906-0000	ARCALUB-C1.FIXING-ANGLE-LONG	20A0
2	1	097880892-0000	ARCALUB-C1.CONNECT-60-G1/4-IA	20A1
3	1	097880884-0000	ARCALUB-C1.CONNECT-25-G1/4-IA	20A2
4 ³⁾	1	083654607-0000	ARCALUB-X.TUBEFIT-G1/4-SAT148G	20A3

³⁾ optional

1.2.2.3 Spare parts

9 Spare parts for OPTIME C1



1	Battery pack	2	Filling nipple
3	Battery holder		

8 Battery pack, battery holder and filling nipple

Description	Ordering number	Ordering designation	Code
Battery pack	096687606-0000	OPTIME-LW-C1.BATTERY	2105
Filling nipple	096691611-0000	OPTIME-LW-C1.NIPPLE-PREFILL-R1/4	2106
Battery holder	304665592-0000	OPTIME-LW-C1.ADAPTER-BATTERY#N10	21F5

1.3 FAG OPTIME C4

The multi-point lubricator FAG OPTIME C4 is an important addition to the OPTIME Ecosystem. Many motor-pump and motor-fan applications can now be supplied via a central lubrication system.

The multifunctional design of the base unit permits the use of either a grease cartridge or an oil tank.



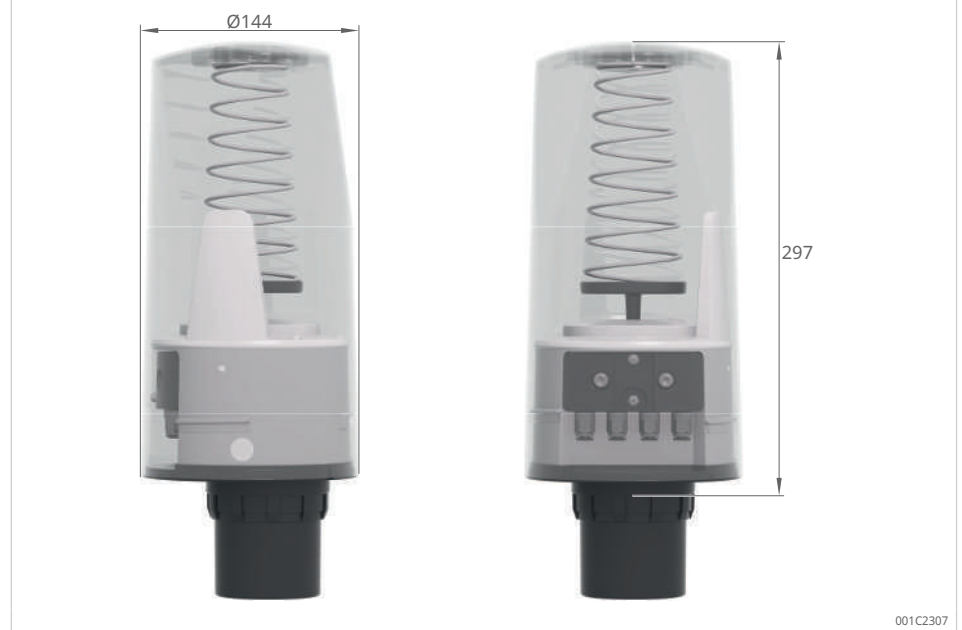
9 Device variants

Type	Ordering number	Ordering designation	Code
FAG OPTIME C4 Region 1	301741603-0000	OPTIME-LW-C4-R1	2107

 Certification information for your sales region can be found at [Schaefflermedias online](#).

1.3.1 Technical data

11 FAG OPTIME C4 dimensions



! Adherence to minimum clearances is required for fitting and removing the cartridge and for accessibility to the hose connections.

10 Technical data

Feature		Value
Dimensions		144 mm×297 mm×144 mm
Drive system		Electromechanical
Mass		≈ 2,4 kg
Installation position		Vertical, max. vertical tilt 5°
Housing material		PA
Protection class		IP66
Lubricant delivery		Piston pump
Operating pressure, max. permissible		70 bar
Metering volume per outlet for 1 delivery stroke		0,13 cm ³ +0,013/-0,013 cm ³
Number of lubrication points		≤ 4
Number of outlets		4
Connection	Type	Push-in fitting
	Connection	PA tubing, metal tubing
	Outside diameter of the lubricant line	4 mm, 6 mm
Grease lubricant	Cartridges	400 cm ³ , 750 cm ³
	Lubricant class	≤ NLGI 2 ¹⁾
Oil lubricant	Volume	850 cm ³
	Lubricant	68 cSt ... 1500 cSt
Mains power supply	Operating voltage	DC 24 V (±1,2 V)
	Connector	Class 2 NEC/NFPA 70
	Current consumption	I _{max} ≤ 400 mA
	Operating temperature	-20 °C ... +70 °C
Communication Wire-pas Mesh	Frequency band	2,4 GHz
	Range, max.	60 m
	Output power, max.	+8 dBm
Communication NFC	Frequency	13,56 MHz
Further information: medias		/2019 

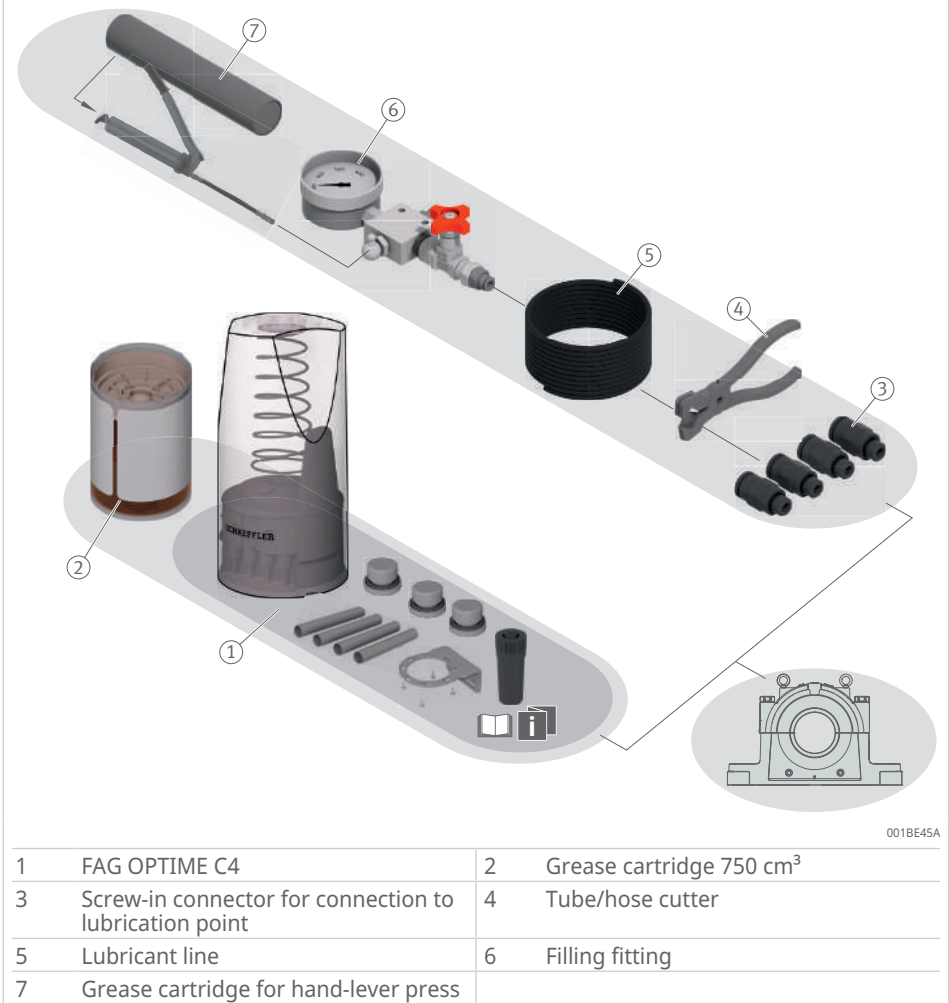
- ¹⁾ Arcanol greases up to NLGI 3 (taking into account the maximum lubricant line length).
 Other greases up to NLGI 2 (with experimental determination of the maximum lubricant line length).
 No solid particles (except PTFE).

Certifications



The FAG OPTIME C4 lubricator is certified by law in numerous countries. Detailed certification information can be found online at <https://www.schaeffler.de/std/1FC3> 

1.3.2 Ordering examples

 12 FAG OPTIME C4 with grease lubrication, DC 24 V

 11 Ordering example: FAG OPTIME C4 with grease lubrication, DC 24 V

Item	Quantity	Ordering number	Ordering designation	Code
1	1	301741603-0000	OPTIME-LW-C4-R1	2107
2	1	301568545-0000	OPTIME-LW-C4.LC750-MULTITOP	2127
3	4	301470766-0000	ARCALUB-X.TUBEFIT-6-M8X1-S-MP	21CA
4	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
5	1	085842109-0000	ARCALUB-X.HOSE-PA12-50M	21A3
6	1	301470731-0000	ARCALUB-X.ARMATUR-FIL-6/4-KIT	21ED
7	1	019144016-0000	ARCANOL-MULTITOP-400G	205D

1.3.3 Type-specific accessories and spare parts

1

13 Accessories and spare parts for FAG OPTIME C4



001C2327

1	FAG OPTIME C4 [► 14]	2	Grease cartridges and oil tank [► 18]
3	Optional use of high-pressure hoses [► 19]	4	Lubricant line [► 000]
5	Optional adapter for connecting lubricant lines D=4 mm [► 20]	6	Spare parts [► 21]

1.3.3.1 Required cartridges

14 Required cartridges and oil tanks



001C2347

1	Cartridge, prefilled with Arcanol grease, 400 cm ³ and 750 cm ³ [► 000]	2	Cartridge, unfilled, 750 cm ³ [► 000]
3	Oil tank, unfilled, 850 cm ³ [► 000]		

1.3.3.2 Use of high-pressure hoses

The tube stud with claw groove, in combination with a threaded sleeve and high-pressure hose, enables the creation of a flexible and robust high-pressure line.

The transition hose kit includes all components required for the flexible, vibration-decoupled connection of the FAG OPTIME C4 to existing metal lines. A 6 mm cutting ring screw connection must be provided by the customer.



1

Tube stud with claw groove for direct connection of high-pressure hoses

2

Transition hose kit for connection to existing rigid piping

001C2367

12 Optional use of high-pressure hoses

Item	Ordering number	Ordering designation	Code
1	301809640-0000	OPTIME-LW-C4.STUD-TUBE-6-82MM-CG	210B
2	301809658-0000	OPTIME-LW-C4.TUBE-FLEX-6-600MM-KIT	210C

1.3.3.3 Connection adapter for direct outlet connection

The screw-in connector with claw groove is inserted into the lubricator outlet up to the end stop using the outside diameter. The lubricant line is then inserted into the inside diameter of the screw-in connector with external thread. The two screw-in connectors are then joined via the thread.

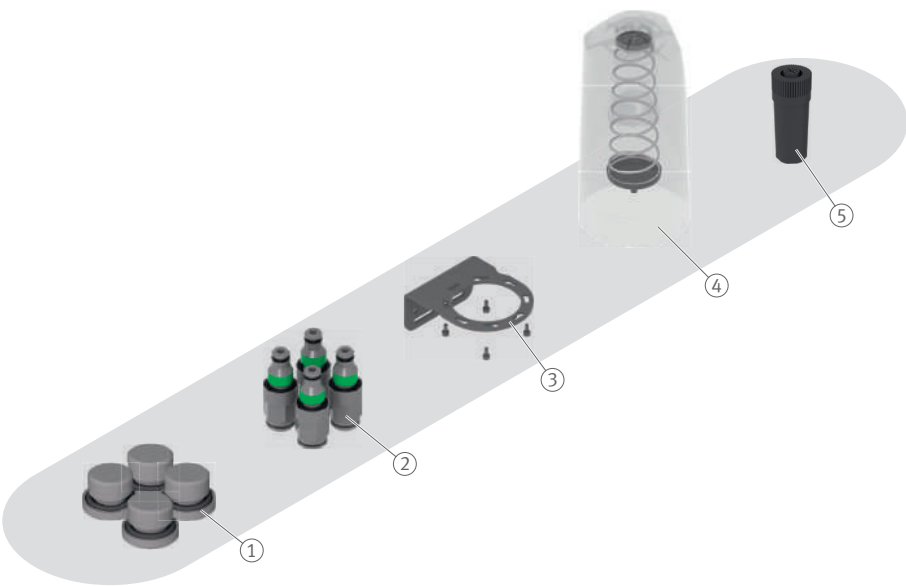


1	Direct hose connection for hose diameter D = 6 mm [► 000]	2	Screw-in connector with claw groove, M6 internal thread
3	Screw-in connector with M6 external thread	4	Lubricant line with hose diameter D = 4 mm [► 000]

13 Connection adapter for lubricant lines D = 4 mm

Item	Ordering number	Ordering designation	Code
2	302014446-0000	OPTIME-LW-C4.FIT-RED-6-M6-S-MP	210D
3	301470723-0000	ARCALUB-X.TUBEFIT-4-M6X1-S-MP	21C8

1.3.3.4 Spare parts



001C23A8

1	Blind plug for connection block	2	Screw-in connector for connection block
3	Mounting bracket including connection screws	4	Cover with cartridge pressure spring
5	M12×1 plug for DC 24 V power supply		

14 Spare parts

Item	Ordering number	Ordering designation	Code
1	301471088-0000	OPTIME-LW-C4.FIT-OUT-6-S-MP	210E
2	301471070-0000	OPTIME-LW-C4.PLUG-OUT	210F
3	301471100-0000	OPTIME-LW-C4.HOLDER-KIT	2110
4	301741735-0000	OPTIME-LW-C4.COVER-KIT	2111
5	301471096-0000	OPTIME-LW-C4.CONNECT-24V-M12-4PIN	2113

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