



Lubricators

For grease and oil lubrication

Technical Product Information

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. Optimal lubrication 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).

OPTIME lubricators

The smart OPTIME lubricators OPTIME C1 and FAG OPTIME C4 combine all the advantages of automatic lubrication with award-winning condition monitoring technology. Access to warning messages via the OPTIME mobile app or web-based dashboard transforms complexity into simplicity and renders the actual condition transparent at all times. The user-friendly system is instrumental in increasing plant availability and enabling significant cost savings.

Other products

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

Contents

1	Instructions	6
2	System design	7
2.1	CONCEPT1	7
2.2	OPTIME C1, FAG OPTIME C4, CONCEPT2, CONCEPT4 and CONCEPT8.....	7
2.3	Schaeffler Grease App	10
2.4	Schaeffler lubricator selection assistant.....	10
3	Electrochemical lubricators.....	11
3.1	CONCEPT1	11
3.1.1	Technical data.....	14
3.1.2	Type-specific accessories and spare parts.....	15
4	Electromechanical lubricators	23
4.1	CONCEPT2	23
4.1.1	Technical data.....	24
4.1.2	Ordering examples	26
4.1.3	Type-specific accessories and spare parts.....	28
4.2	CONCEPT4	32
4.2.1	Technical data.....	33
4.2.2	Ordering examples	35
4.2.3	Type-specific accessories and spare parts.....	36
4.3	CONCEPT8	39
4.3.1	Technical data.....	40
4.3.2	Ordering examples	42
4.3.3	Type-specific accessories and spare parts.....	44
5	OPTIME lubricators in the OPTIME Ecosystem	48
5.1	OPTIME Ecosystem.....	48
5.1.1	Digital Service	48
5.2	OPTIME C1	50
5.2.1	Technical data.....	51
5.2.2	Type-specific accessories and spare parts.....	52
5.3	FAG OPTIME C4.....	58
5.3.1	Technical data.....	59
5.3.2	Ordering examples	61
5.3.3	Type-specific accessories and spare parts.....	62
6	Power supply.....	66
7	Demo cases	68
8	Lubricant feed lines, fittings.....	69
8.1	Connection adapter for direct hose connection to the lubricator	70
8.2	Tubing and hose lines.....	70
8.3	Fittings	71
8.3.1	Connectors	71
8.3.2	Screw-in connectors.....	73
8.3.3	Screw fittings for high-pressure hoses.....	75
8.3.4	Screw-in connecting pieces.....	76
8.3.5	Screw-in reducing nipples.....	76

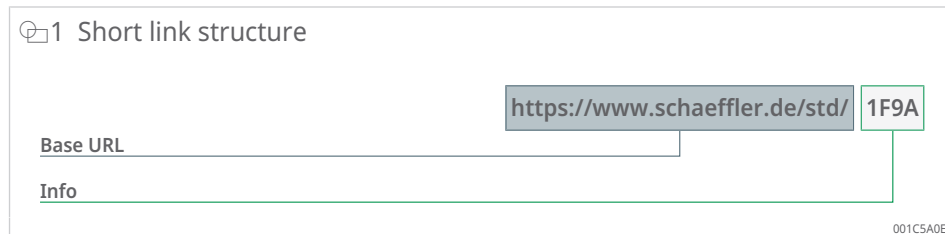
8.3.6	Oil non-return valves	77
8.4	Sub-distributors	78
8.4.1	Splitters.....	78
8.4.2	Progressive distributors	79
8.5	Tools	82
8.5.1	Tube/hose cutter for lubricant lines	82
8.5.2	Filling fitting for lubricant lines	83
9	Lubricant application	84
9.1	Brushes	84
9.2	Lubrication gears.....	85
9.2.1	Spur-toothed.....	86
9.2.2	Helical-toothed, left-hand	87
9.2.3	Helical-toothed, right-hand.....	88
9.3	Chain lubrication pinions.....	89
9.3.1	Simplex	90
9.3.2	Duplex.....	91
9.4	Lubrication rollers	92
10	Manual lubrication tools.....	93
10.1	Lever grease guns	93
10.1.1	ARCA-GREASE-GUN	93
10.1.2	ARCA-FILL-GUN-N.....	94
10.1.3	Ordering examples	95
10.1.4	Type-specific accessories and spare parts	95
10.2	Drum pumps	97
10.2.1	Pneumatic drum pump	98
10.2.2	Manual drum pump	100
10.2.3	Type-specific accessories and spare parts	102
11	Cartridges and containers.....	105
11.1	Filled cartridges	105
11.1.1	CONCEPT1, OPTIME C1.....	105
11.1.2	CONCEPT2	106
11.1.3	CONCEPT4.....	107
11.1.4	CONCEPT8	108
11.1.5	FAG OPTIME C4.....	109
11.2	Unfilled cartridges and accessories	110
11.3	Unfilled oil tank.....	111
11.4	Selection of Arcanol grease cartridges.....	111
11.5	Selection of Arcanol container sizes	112

1 Instructions

Retrieve product information online

Further information on a product is available by clicking on the embedded link or by inserting the info text together with the base URL into your browser.

1 Short link structure



Further information

medias | Product catalogue |
medias.schaeffler.com

2 System design

2.1 CONCEPT1

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

Only the plastic tube ARCALUB-C1.HOSE-8X6-PA12-5M with a 6 mm inside diameter and an 8 mm outside diameter may be used.

1 Maximum lubricant line length $L_{\max}$

Lubricator	Lubricant	$L_{\max}$ m
CONCEPT1	Grease	0,5
CONCEPT1	Oil	2

2.2 OPTIME C1, FAG OPTIME C4, CONCEPT2, CONCEPT4 and CONCEPT8

When designing the lubrication system for the OPTIME C1, FAG OPTIME C4, CONCEPT2, CONCEPT4 and CONCEPT8 lubricators, the maximum lubricant line length must be calculated.

2.2.1 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:

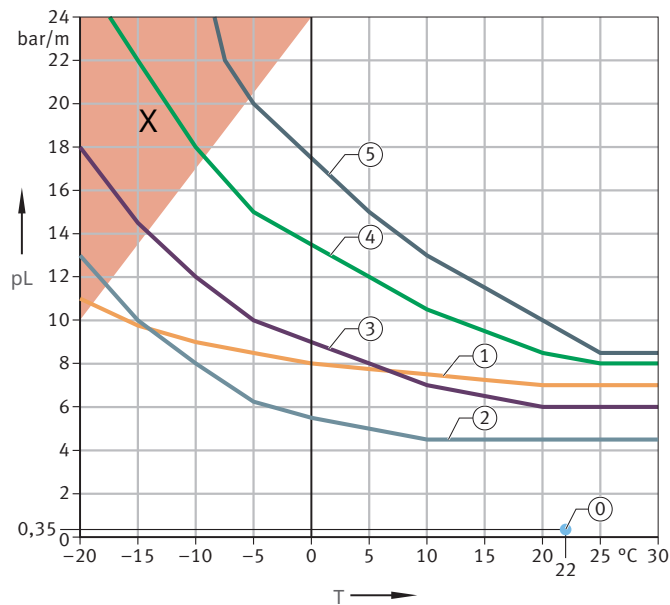
$L_{\max} = \frac{p_{\max}}{p_L} \cdot K_S \cdot K_P$		
K_S	–	Correction factor for inside diameter of lubricant line
K_P	–	Correction factor for pause time between pump strokes
$L_{\max}$	m	Maximum lubricant line length
$p_{\max}$	bar	Maximum delivery pressure of the lubricator
p_L	bar/m	Pressure loss in lubricant line

2 Maximum delivery pressure $p_{\max}$

Lubricator	Power supply	$p_{\max}$ bar
OPTIME C1	Battery	10
FAG OPTIME C4	DC 24 V	70
CONCEPT2	Battery	30
CONCEPT2	DC 24 V	50
CONCEPT4	DC 24 V	70
CONCEPT8	DC 24 V	70

The pressure loss p_L in the lubricant line is dependent on the grease group used (0 to 5). The pressure loss increases as the temperature T of the lubricant decreases. Technical advice must be sought from Schaeffler if the lubricant exceeds a certain temperature.

2 Pressure loss p_L in lubricant line



001A8FE8

pL	Pressure loss	T	Grease temperature
X	Technical advice necessary		

3 Arcanol grease groups

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 ➤9|.

4 Correction factor K_S

Inside diameter of lubricant line mm	K_S
6	1,3
5	1
4	0,65
2,5 ²⁾	0,35

²⁾ Diameter only permissible for grease group 0.

5 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 lubrication 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 electro-mechanical CONCEPT devices.
- Lubricant line length > 30 m 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

! Calculation of the lubricant line length is currently only validated for an operating temperature of $+22$ °C.

Design example for $L_{\max}$ with grease lubrication

6 Initial data

Initial data	CONCEPT8 (DC 24 V)
Lubricant	Arcanol MULTITOP (grease group 3)
Grease temperature	$+20$ °C
Inside diameter of hose	5 mm
Pause time between 2 pump strokes	5 h

7 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

2.2.2 Lubricant line length for oil lubrication

For oil lubrication with lubricators OPTIME C1, FAG OPTIME C4, CONCEPT2, CONCEPT4 and CONCEPT8, the following applies for the maximum lubricant line length $L_{\max}$:

8 Maximum lubricant line length $L_{\max}$

Lubricator	Lubricant	$L_{\max}$ m
OPTIME C1	Oil	5
FAG OPTIME C4	Oil	100
CONCEPT2	Oil	100
CONCEPT4	Oil	100
CONCEPT8	Oil	100

2.3 Schaeffler Grease App

Drawing on its expertise in rolling bearings and tribology, Schaeffler offers a digital assistant which can be used to determine lubrication parameters.

The calculation takes into account different cage designs and cage geometries and determines the free volume in the rolling bearing, thus allowing the relevant lubricant parameters to be precisely determined.

Schaeffler customers can use the Grease App to calculate specific values for the grease lubrication of rolling bearings:

- initial quantity of grease required for the rolling bearing
- relubrication intervals
- relubrication quantities
- recommendation of suitable Arcanol lubricants and associated properties
- cartridge setting recommendations for the CONCEPT1 lubricator



medias | Engineering Apps |
Schaeffler GreaseApp |
<https://www.schaeffler.de/std/2044>

2.4 Schaeffler lubricator selection assistant

With the Schaeffler lubricator selection assistant, the ideal lubricator for a given application can be identified by answering just a few simple questions. Once the most suitable lubricator has been determined, the individually required accessories and appropriate lubricant cartridges can be selected in the next step.

The lubricator selection assistant is integrated into Schaeffler medias, giving medias Business users the added advantage of being able to view their customer-specific price and product availability directly after logging in. An order can be placed directly once the products have been added to the shopping basket.



medias | Engineering Tool |
Lubricator Selection Assistant |
<https://www.schaeffler.de/std/220B>

3 Electrochemical lubricators

3.1 CONCEPT1

The CONCEPT1 lubricators to protection class IP68, which are certified for use in potentially explosive environments, offer a cost-effective and versatile solution for supplying equipment with grease or oil.

The lubricant is dispensed using gas pressure generated by the integrated electrochemical drive unit. An external power supply is not required.

The lubricators are available filled with selected Arcanol lubricants or unfilled.

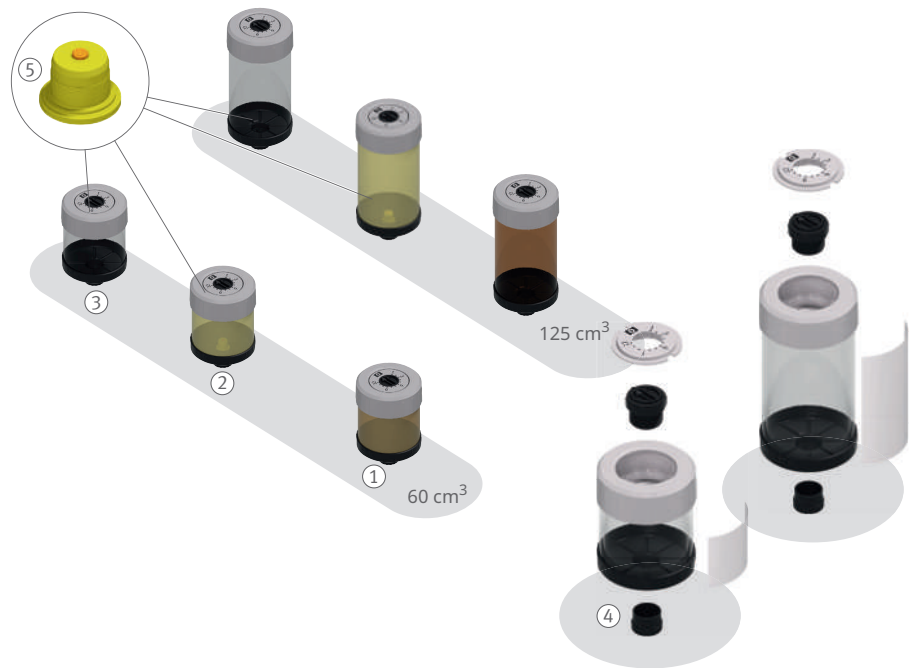
As each lubricator can be filled multiple times, the CONCEPT1 is particularly sustainable. Only the drive unit must be replaced when refilling.

3 CONCEPT1 (filled)



The lubricator may be filled up to 3 times in total. The correct functioning of the lubricator cannot be ensured if further filling operations are carried out.

4 CONCEPT1 variants



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1	Prefilled with Arcanol grease including drive unit and closing plug [► 105]	2	Prefilled with Arcanol oil including drive unit and closing plug [► 105]
3	Unfilled including drive unit and closing plug [► 13]	4	Drive unit kit consisting of drive unit, scale, closing plug and label [► 13]
5	Oil non-return valve plug [► 13]		

9 CONCEPT1, prefilled with Arcanol grease

No.	Lubricant	V cm³	Ordering number	Ordering designation	Info
1	Arcanol FOOD2	60	095249290-0000	ARCALUB-C1-60-FOOD2	2080
	Arcanol LOAD220		095249273-0000	ARCALUB-C1-60-LOAD220	2081
	Arcanol LOAD400		095249249-0000	ARCALUB-C1-60-LOAD400	2082
	Arcanol MULTI2		095249230-0000	ARCALUB-C1-60-MULTI2	2083
	Arcanol MULTITOP		095249222-0000	ARCALUB-C1-60-MULTITOP	2084
	Arcanol TEMP110		095249214-0000	ARCALUB-C1-60-TEMP110	2085
	Arcanol FOOD2	125	095248897-0000	ARCALUB-C1-125-FOOD2	2086
	Arcanol LOAD150		095731784-0000	ARCALUB-C1-125-LOAD150	2087
	Arcanol LOAD220		095248870-0000	ARCALUB-C1-125-LOAD220	2088
	Arcanol LOAD400		095248854-0000	ARCALUB-C1-125-LOAD400	2089
	Arcanol LOAD460		095248838-0000	ARCALUB-C1-125-LOAD460	208A
	Arcanol MULTI2		095248820-0000	ARCALUB-C1-125-MULTI2	208B
	Arcanol MULTITOP		095248811-0000	ARCALUB-C1-125-MULTITOP	208C
	Arcanol TEMP110		095248200-0000	ARCALUB-C1-125-TEMP110	208D

10 CONCEPT1, prefilled with Arcanol oil

No.	Lubricant	V	Ordering number	Ordering designation	Info
		cm ³			
2	Arcanol CHAIN-OIL	60	096040432-0000	ARCALUB-C1-60-CHAIN-OIL	208E
	Arcanol CHAIN-OIL	125	095248900-0000	ARCALUB-C1-125-CHAIN-OIL	208F
	Arcanol FOOD-OIL		095248889-0000	ARCALUB-C1-125-FOOD-OIL	2090



When using an unfilled CONCEPT1 with oil, the oil check valve plug must be ordered separately ►13 | 12.

11 CONCEPT1, unfilled, for grease and oil

No.	Lubricant	V	Ordering number	Ordering designation	Info
		cm ³			
3	–	60	095166050-0000	ARCALUB-C1-60-REFILLABLE	2091
	–	125	095166076-0000	ARCALUB-C1-125-REFILLABLE	2092

Filling accessories are available for the filling operation ►22 | 3.1.2.2.

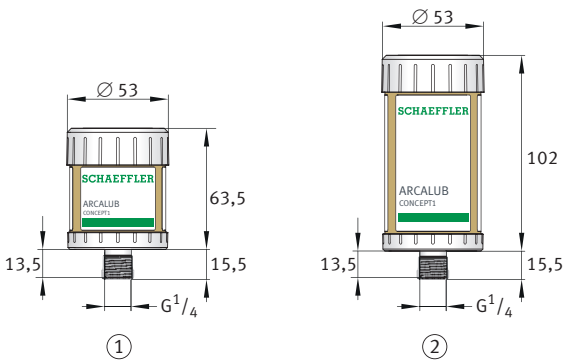
Before using customer-specific lubricants, please arrange for Schaeffler to check their suitability.

12 Drive unit kit and direct accessories, for grease and oil

No.	Lubricant	V	Ordering number	Ordering designation	Info
		cm ³			
4	–	60	095287523-0000	ARCALUB-C1.DRYCELL-KIT-60	2093
	–	125	095287540-0000	ARCALUB-C1.DRYCELL-KIT-125	2094
5	–	–	095286780-0000	ARCALUB-C1.PLUG-OIL-VALVE	2095

3.1.1 Technical data

5 CONCEPT1 dimensions in mm



0018B5AB

1	ARCALUB-C1-60	2	ARCALUB-C1-125
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13 Technical data

Feature		Value
Dimensions	60 cm ³	80 mm × 52 mm × 52 mm
	125 cm ³	120 mm × 52 mm × 52 mm
Mass (unfilled)	60 cm ³	≈ 65 g
	125 cm ³	≈ 80 g
Mass (filled)	60 cm ³	≈ 115 g
	125 cm ³	≈ 190 g
Installation position		As required
Housing material		PET
Protection class		IP68
Explosion protection classification Tested according to ATEX Product Directive 2014/34/EU	Certificate	DEKRA 20ATEX0032X IECEX DEK 21.0038X
		II 1G Ex ia IIC T6 G
		II 1D Ex ia IIIC T ₂₀₀ 80°C Da
		I M1 Ex ia I Ma
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
Dispensing time (steplessly adjustable)		1 month ... 12 months
Functional principle		Gas drive
Operating pressure		≤ 5 bar
Number of outlets		1
Threaded connector		G 1/4"
Number of lubrication points		1, branching not permitted
Operating temperature		−20 °C ... +55 °C (ambient)
Storage	Location	Protect from sunlight, store in a dry place.
	Temperature	+20 °C ±5 °C
	Humidity	≤ 65 %
Further information: medias		1FA5



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, Schaeffler recommends that customers contact Schaeffler for an alignment of their explosion protection requirements with the features of lubricator CONCEPT1.

3.1.2 Type-specific accessories and spare parts

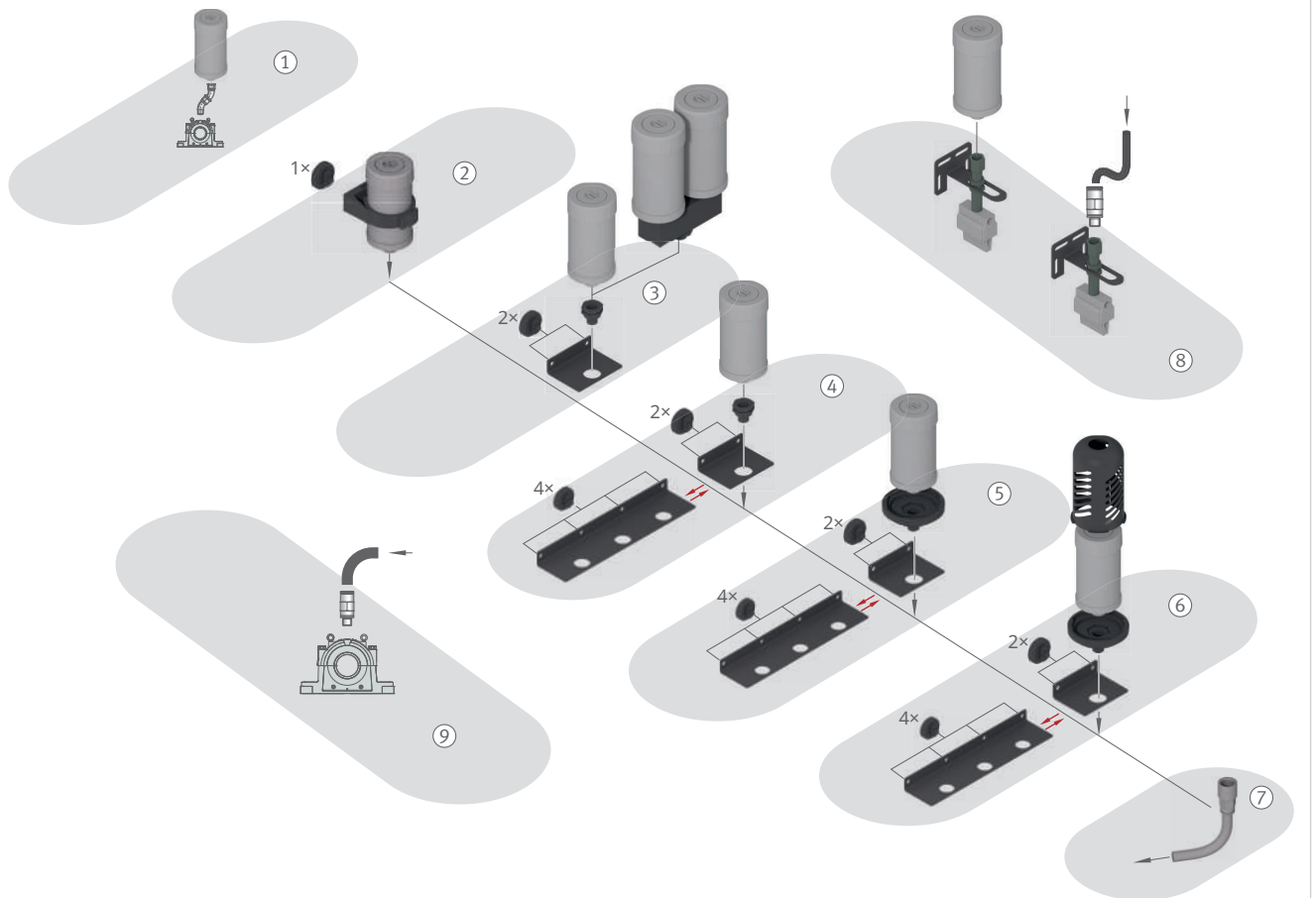
3.1.2.1 Device holders

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

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

3

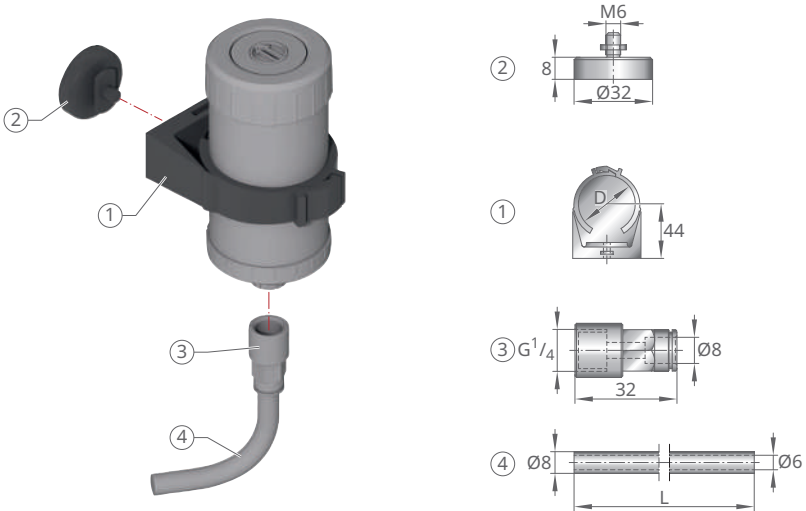
6 Variants for using device holders and accessories for CONCEPT1



001BD0D5

1	Direct mounting at lubrication point [► 76]	2	Clamping bracket with magnetic foot [► 16]
3	Mounting bracket with magnetic foot, optional twin adapter [► 17]	4	Mounting bracket with magnetic foot and fixing nipple [► 18]
5	Mounting bracket with magnetic foot and mounting support [► 19]	6	Mounting bracket with magnetic foot, mounting support and protective cover [► 20]
7	Screw-in connector on lubricant line [► 73]	8	Special solution for brush lubrication [► 21]
9	Screw-in connector on lubrication points [► 73]		

7 Clamping bracket with magnetic foot



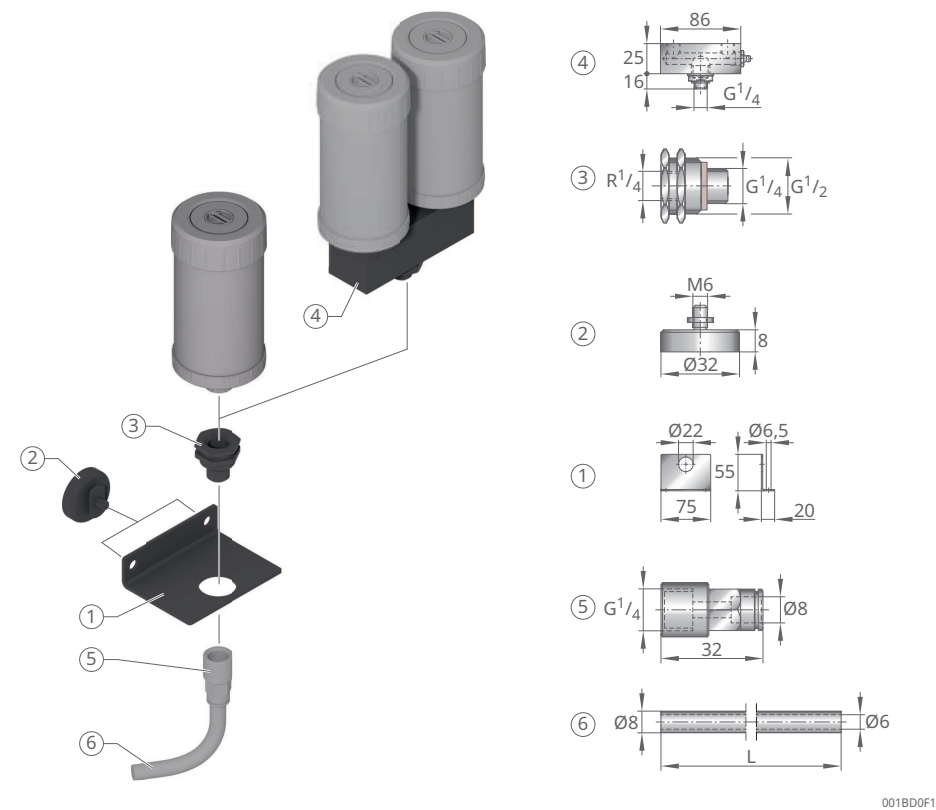
001BD085

14 Ordering example: Clamping bracket with magnetic foot

No.	Qty	Ordering number	Ordering designation	Info
1	1	095285377-0000	ARCALUB-C1.CLAMP	2096
2	1	095285385-0000	ARCALUB-C1.CLAMP-MAGNET	2097
3	1	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
4 ¹⁾	1	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

¹⁾ optional

8 Mounting bracket with magnetic foot and optional twin adapter

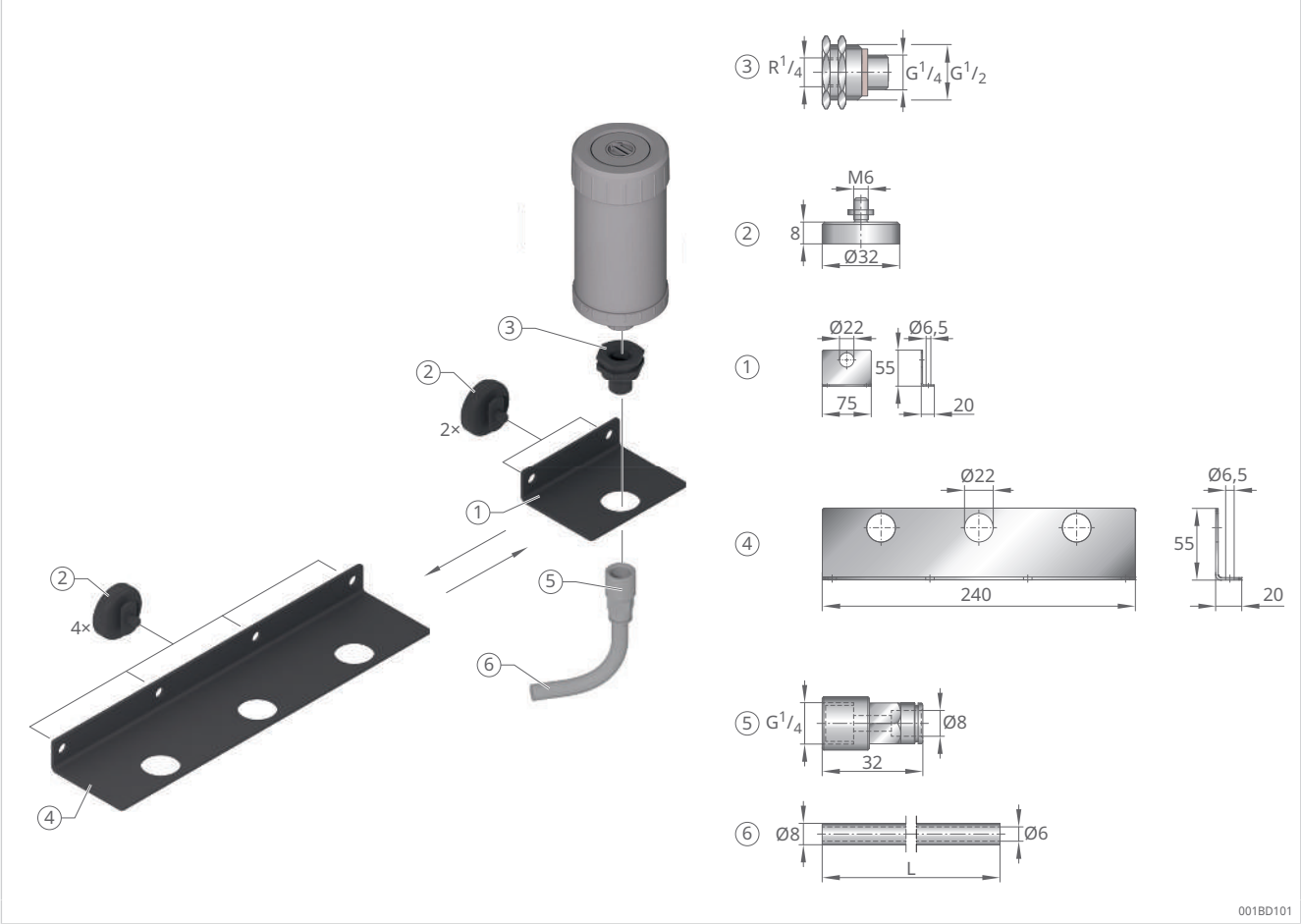


15 Ordering example: Mounting bracket with magnetic foot and optional twin adapter

No.	Qty	Ordering number	Ordering designation	Info
1	1	095285741-0000	ARCALUB-C1.FIXING-ANGLE	209A
2	2	095285385-0000	ARCALUB-C1.CLAMP-MAGNET	2097
3	1	096691620-0000	ARCALUB-C1.FIXINGSREW-G1/2-R1/4	209B
4 ²⁾	1	095285326-0000	ARCALUB-C1.ADAPTER-TWIN	209C
5	1	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
6	1	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

2) optional

9 Mounting bracket with magnetic foot and fixing screw



001BD101

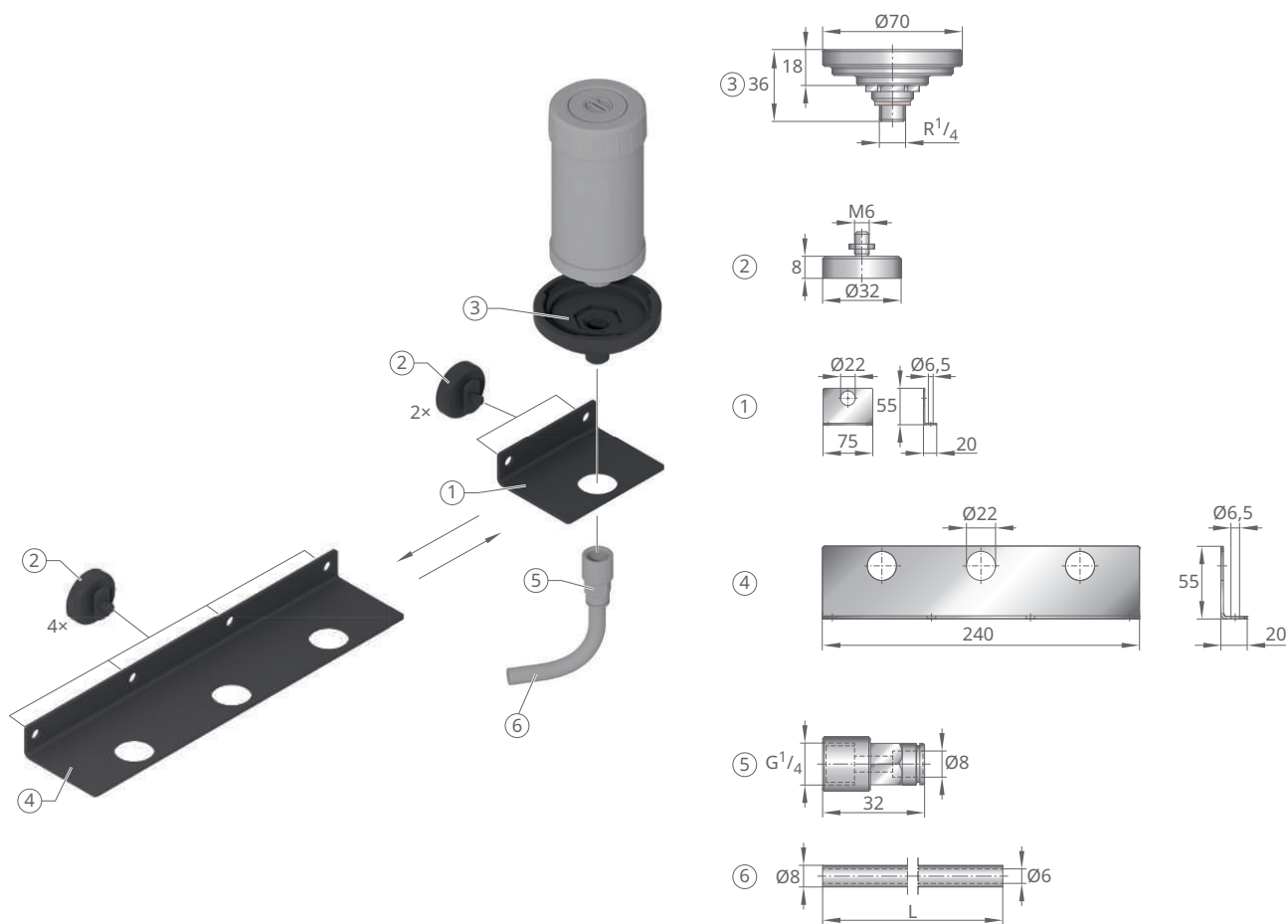
16 Ordering example: Mounting bracket with magnetic foot and fixing screw

No.	Qty	Ordering number	Ordering designation	Info
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 ³⁾	1 ⁴⁾	097881317-0000	ARCALUB-C1.FIXING-ANGLE-TRI	209D
5 ³⁾	1	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
6 ³⁾	1	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

³⁾ optional

⁴⁾ quantities of other items must be adjusted accordingly

10 Mounting bracket with magnetic foot and mounting support



001BD111

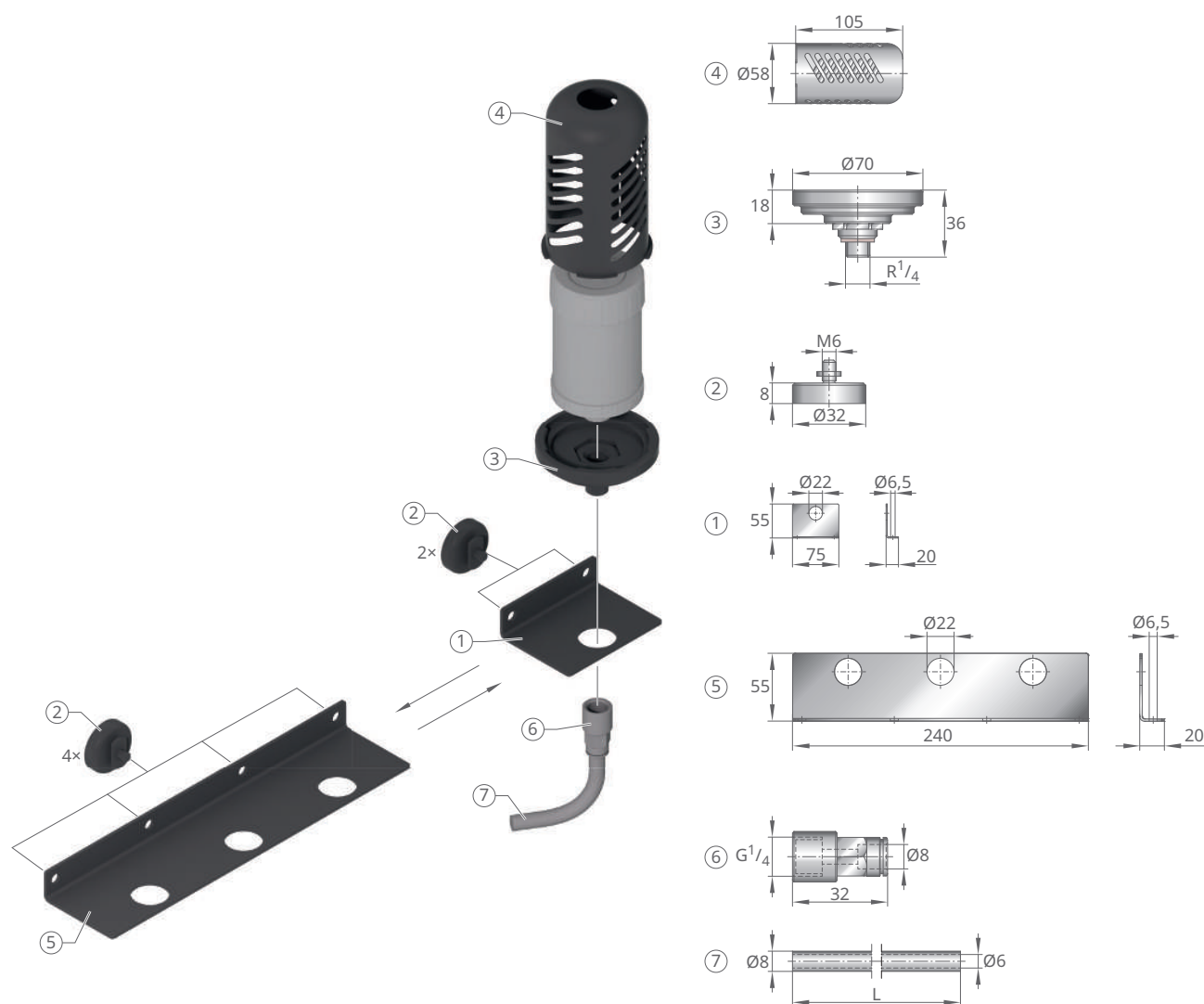
17 Ordering example: Mounting bracket with magnetic foot and mounting support

No.	Qty	Ordering number	Ordering designation	Info
1	1	095285741-0000	ARCALUB-C1.FIXING-ANGLE	209A
2	2	095285385-0000	ARCALUB-C1.CLAMP-MAGNET	2097
3	1	095285768-0000	ARCALUB-C1.MOUNT-SUPPORT-R1/4	209E
4 ⁵⁾	1 ⁶⁾	097881317-0000	ARCALUB-C1.FIXING-ANGLE-TRI	209D
5 ⁵⁾	1 ⁶⁾	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
6 ⁵⁾	1 ⁶⁾	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

⁵⁾ optional

⁶⁾ quantities of other items must be adjusted accordingly

11 Mounting bracket with magnetic foot, mounting support and protective cover



001BD121

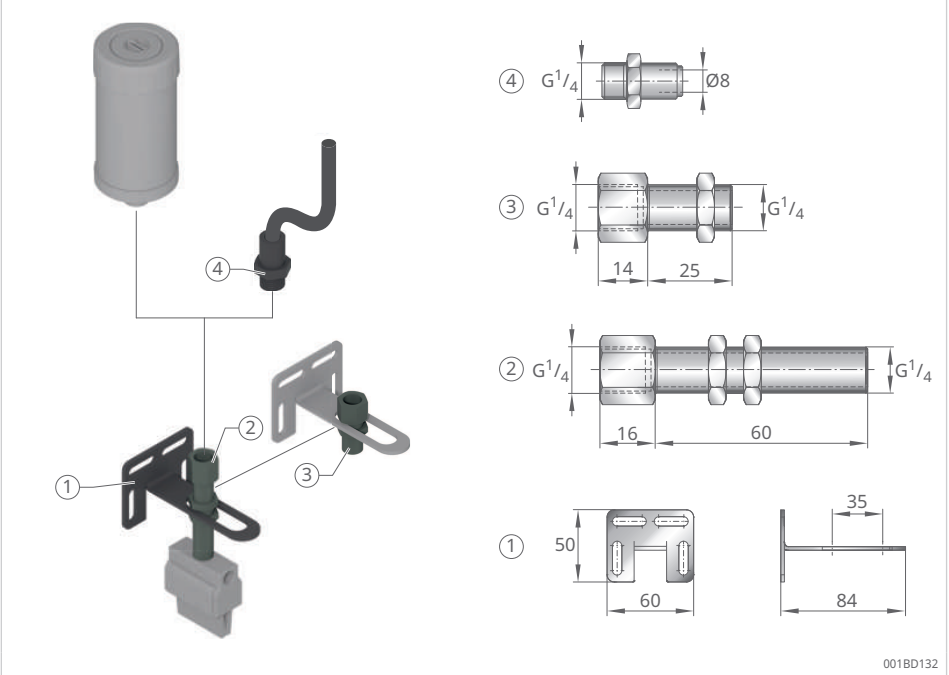
18 Ordering example: Mounting bracket with magnetic foot, mounting support and protective cover

No.	Qty	Ordering number	Ordering designation	Info
1	1	095285741-0000	ARCALUB-C1.FIXING-ANGLE	209A
2	2	095285385-0000	ARCALUB-C1.CLAMP-MAGNET	2097
3	1	095285768-0000	ARCALUB-C1.MOUNT-SUPPORT-R1/4	209E
4	1	095285717-0000	ARCALUB-C1.COVER	209F
5 ⁷⁾	1 ⁸⁾	097881317-0000	ARCALUB-C1.FIXING-ANGLE-TRI	209D
6 ⁷⁾	1	095287051-0000	ARCALUB-C1.TUBEFIT-G1/4I-SAT148G	2098
7 ⁷⁾	1	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	2099

⁷⁾ optional

⁸⁾ quantities of other items must be adjusted accordingly

12 Special solution for brush lubrication



19 Ordering example: Special solution for brush lubrication

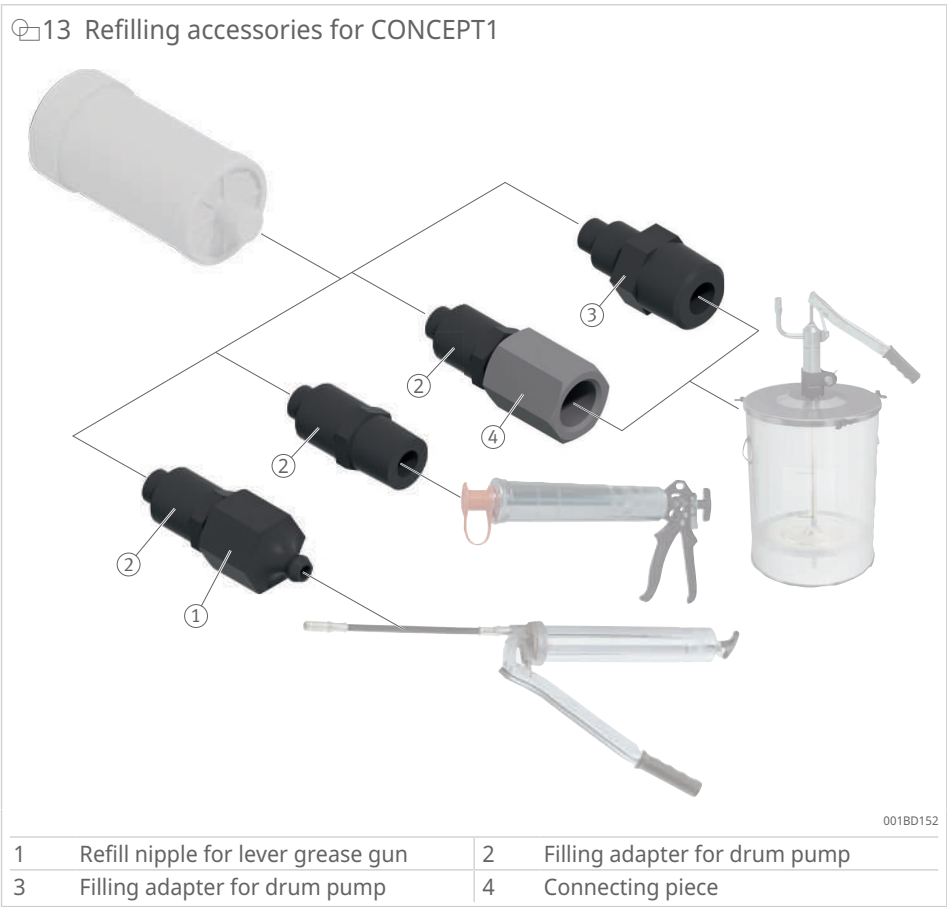
No.	Qty	Ordering number	Ordering designation	Info
1	1	097880906-0000	ARCALUB-C1.FIXING-ANGLE-LONG	20A0
2	1	097880892-0000	ARCALUB-C1.CONNECT-60-G1/4-IA	20A1
3	1	097880884-0000	ARCALUB-C1.CONNECT-25-G1/4-IA	20A2
4 ⁹⁾	1	083654607-0000	ARCALUB-X.TUBEFIT-G1/4-SAT148G	20A3

⁹⁾ optional

3.1.2.2 Refilling

The CONCEPT1 lubricators are suitable for refilling, irrespective of whether they were purchased as prefilled or unfilled versions.

13 Refilling accessories for CONCEPT1



20 Refilling accessories for CONCEPT1

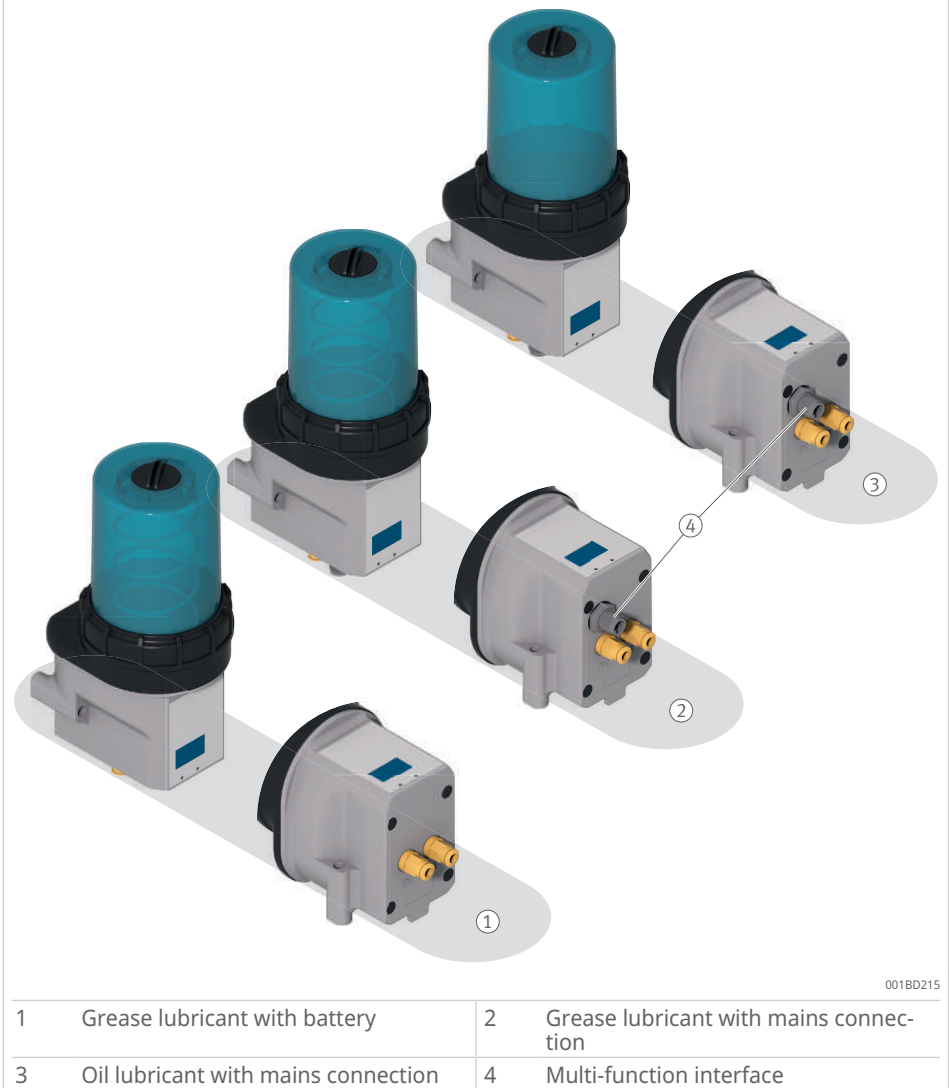
No.	Ordering number	Ordering designation	Info
1	095248170-0000	ARCALUB-C1.NIPPLE-REFILL-G1/4	20A4
2	095248161-0000	ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4	20A5
3	095248137-0000	ARCALUB-C1.NIPPLE-REFILL-GREASE-R3/8	20A6
4	095291598-0000	ARCALUB-C1.CONNECT-G1/4	20A7

4 Electromechanical lubricators

4.1 CONCEPT2

These lubricators to protection class IP54 offer, with their 2 outlets, a high degree of flexibility for the supply of grease or oil as a lubricant.

14 CONCEPT2 device variants

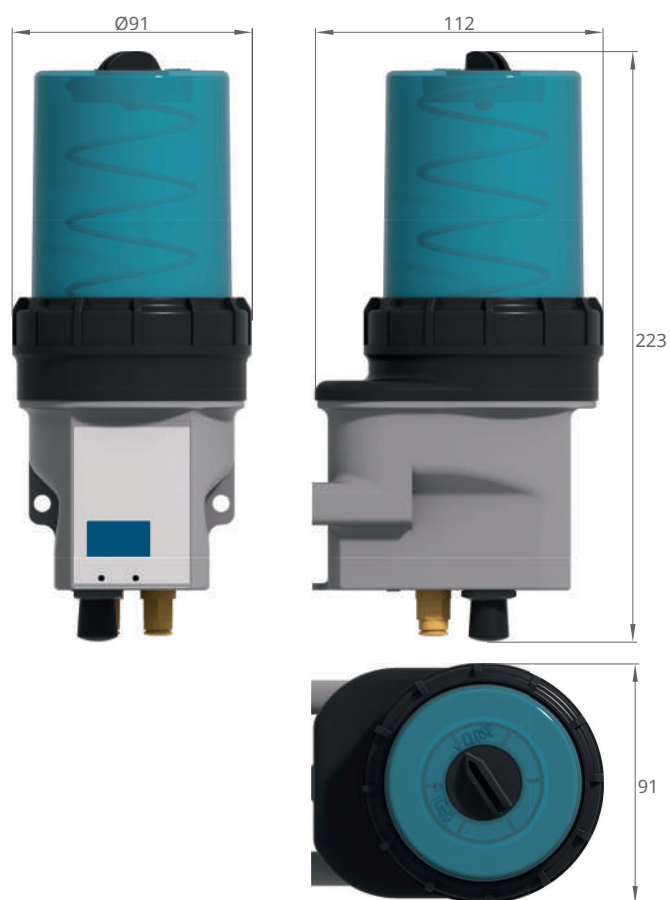


21 Device variants

Lubricant	Power supply	Number of outlets	Ordering number	Ordering designation	Info
Grease	Battery	2	086872931-0000	ARCALUB-C2-2P	20A9
	DC 24 V	2	086873105-0000	ARCALUB-C2-2P-24VDC	20AA
Oil	DC 24 V	2	092246265-0000	ARCALUB-C2-2P-OIL-24VDC	20AB

4.1.1 Technical data

15 CONCEPT2 dimensions



001BD162

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

22 Technical data

Feature		Value
Dimensions		91 mm × 223 mm × 112 mm
Mass (without cartridge)		≈ 1 kg
Installation position		Vertical
Housing material		Polyamide
Protection class		IP54
Lubricant delivery		Piston pump
Metering volume per outlet for 1 delivery stroke		0,16 cm ³ 0/-0,008 cm ³
Number of pump bodies		2
Number of outlets (individually controllable)		2
Number of lubrication points	direct	≤ 2
	with splitters	≤ 4
	with progressive distributors ¹⁾	> 4
Connection		PA tube
Operating temperature		-20 °C ... +70 °C
Grease lubricant	Cartridges	250 cm ³
	Lubricant class	≤ NLGI 2 ²⁾
	Outside diameter of the lubricant line	6 mm
Oil lubricant	Volume	280 cm ³
	Lubricant	> 68 cSt
	Outside diameter of the lubricant line	6 mm
Battery power supply	Operating pressure	30 bar +4,5/-3 bar
	Operating voltage	3 V lithium-metal battery
Mains power supply	Operating pressure	50 bar +7,5/-5 bar
	Operating voltage	DC 24 V (±1,2 V) stabilised via cable
	Multi-function interface	Power supply, I/O interface
	Connector	M12×1, 4-pin
	Current consumption	I _{max} ≤ 250 mA
	Status information	Empty, collective error, signal for successfully completed lubrication cycle
Controlling the lubrication intervals		Integrated time control by timer: 25 min ... 925 min
		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
Further information: medias		1FA5

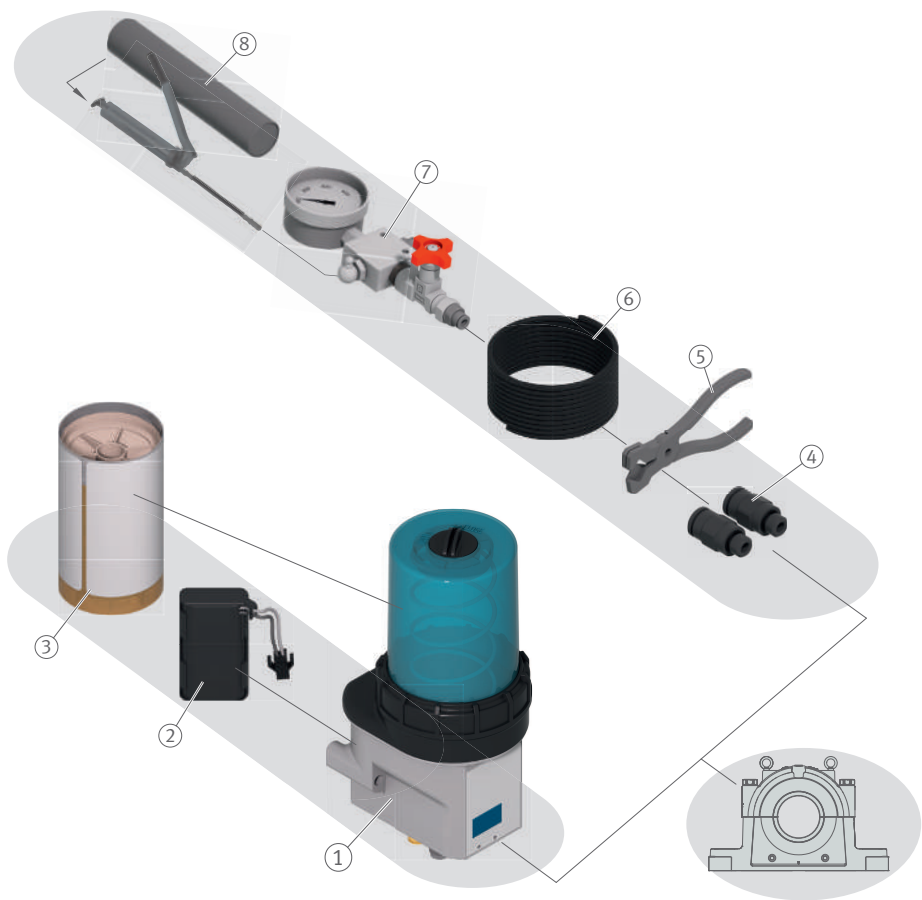
¹⁾ technical clarification required

²⁾ Arcanol greases up to NLGI 2, 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.

4.1.2 Ordering examples

4

16 Ordering example: CONCEPT2 grease with battery



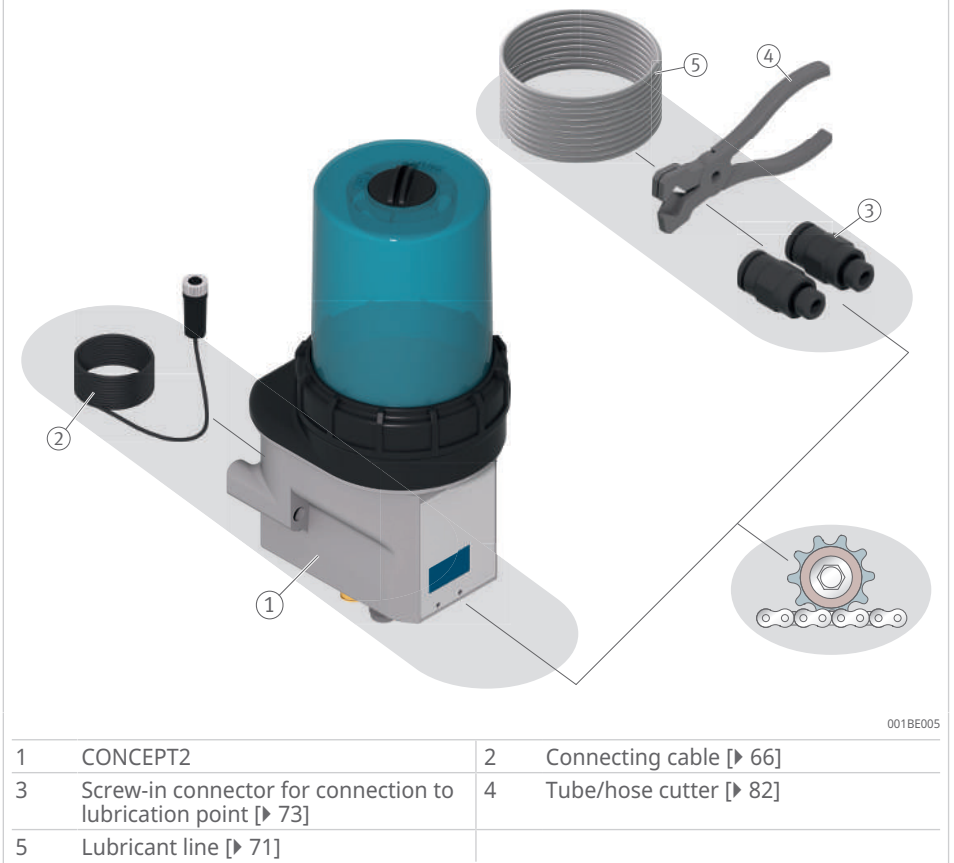
001BDFE5

1	CONCEPT2	2	Battery pack [► 29]
3	Grease cartridge 250 cm ³ [► 106]	4	Screw-in connector for attachment to lubrication point [► 73]
5	Tube/hose cutter [► 82]	6	Lubricant line [► 71]
7	Filling fitting [► 83]	8	Grease cartridge for lever grease gun [► 111]

23 Ordering example: CONCEPT2 grease with battery

No.	Qty	Ordering number	Ordering designation	Info
1	1	086872931-0000	ARCALUB-C2-2P	20A9
2	1	087314762-0000	ARCALUB-C2.BATTERY	20AC
3	1	087328810-0000	ARCALUB-C2.LC250-MULTITOP	20BB
4	2	079567428-0000	ARCALUB-X.TUBEFIT-M8X1-SAT086G	21B5
5	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
6	1	076691497-0000	ARCALUB-X.HOSE-PA12-10M	21A2
7	1	301470731-0000	ARCALUB-X.ARMATUR-FIL-6/4-KIT	21ED
8	1	019144016-0000	ARCANOL-MULTITOP-400G	205D

17 Ordering example: CONCEPT2 oil with mains connection

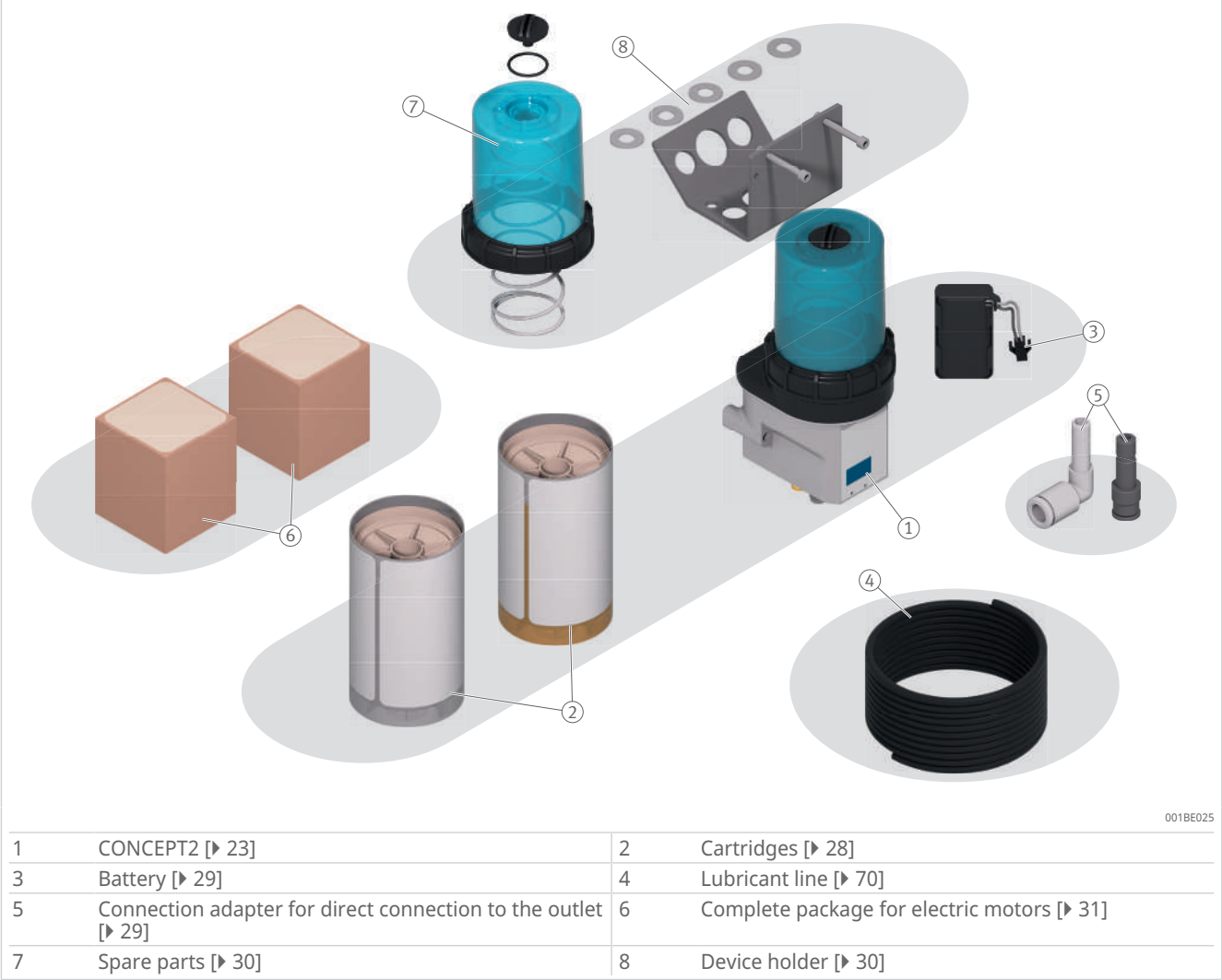


24 Ordering example: CONCEPT2 oil with mains connection

No.	Qty	Ordering number	Ordering designation	Info
1	1	092246265-0000	ARCALUB-C2-2P-OIL-24VDC	20AB
2	1	075378361-0000	ARCALUB-X.CABLE-M12-10M	21F2
3	2	079567428-0000	ARCALUB-X.TUBEFIT-M8X1-SAT086G	21B5
4	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
5	1	083788441-0000	ARCALUB-X.HOSE-PA12-CLEAR-10M	219E

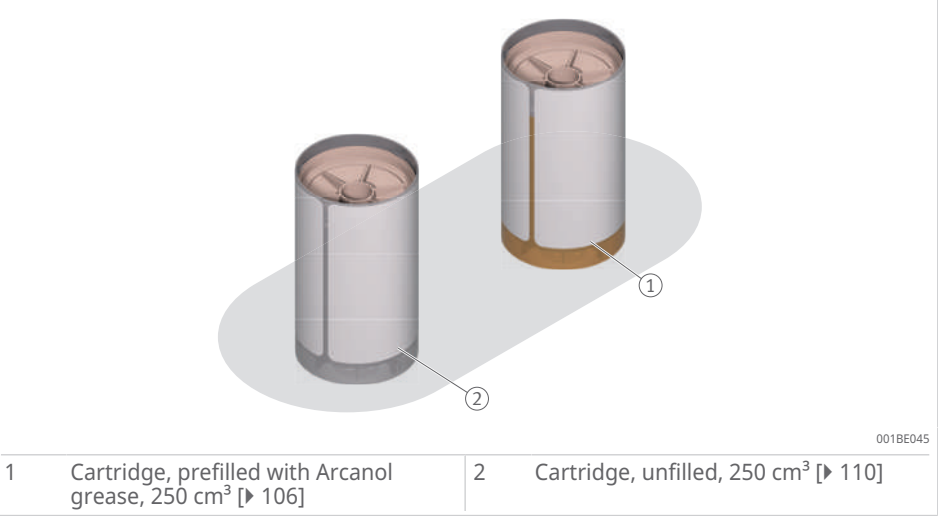
4.1.3 Type-specific accessories and spare parts

18 Accessories and spare parts for CONCEPT2

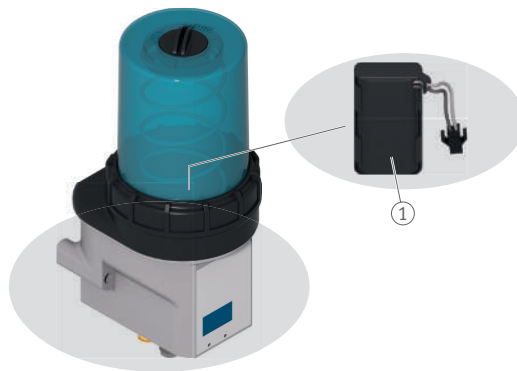


4.1.3.1 Required cartridges

19 Required cartridge for grease lubrication



4.1.3.2 Battery

 20 Battery for CONCEPT2 with grease


001BE065

1	Battery
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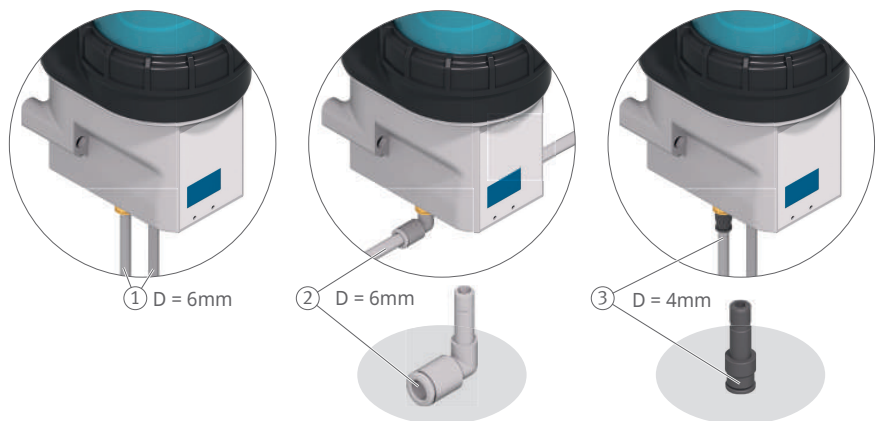
One battery is required per cartridge discharge.

 25 Battery for CONCEPT2 with grease

No.	Ordering number	Ordering designation	Info
1	087314762-0000	ARCALUB-C2.BATTERY	20AC

4.1.3.3 Connection adapter for direct connection to the outlet

The connection adapter is inserted into the outlet of the lubricator with the outside diameter pushed in up to the end stop. The lubricant line is then inserted into the inside diameter of the connection adapter.

 21 Connection adapter for direct connection to the outlet on the CONCEPT2


001BE085

1	Direct hose connection for hose diameter D = 6 mm	2	Angled connection adapter for hose diameter D = 6 mm
3	Straight connection adapter for hose diameter D = 4 mm		

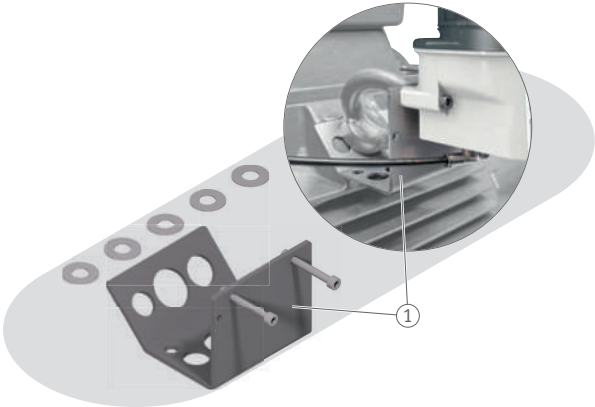
 26 Connection adapter for direct connection to the outlet

No.	Ordering number	Ordering designation	Info
2	095058150-0000	ARCALUB-X.TUBEFIT-SAT-6A-6I-W	20AD
3	095777962-0000	ARCALUB-X.TUBEFIT-SAT-6A-4I	20AE

4.1.3.4 Device holders

The device holder enables direct mounting on the motor using an eye bolt.

22 Device holder for CONCEPT2



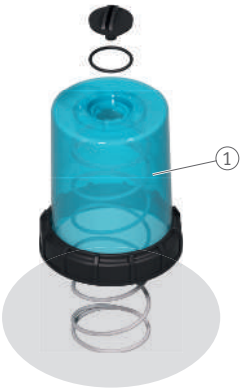
1 Device holder

001BE0A5

27 Device holder			
No.	Ordering number	Ordering designation	Info
1	092435726-0000	ARCALUB-C2.HOLDER-KIT	20B0

4.1.3.5 Spare parts

23 CONCEPT2 spare parts



1 Cover set

001BE0C5

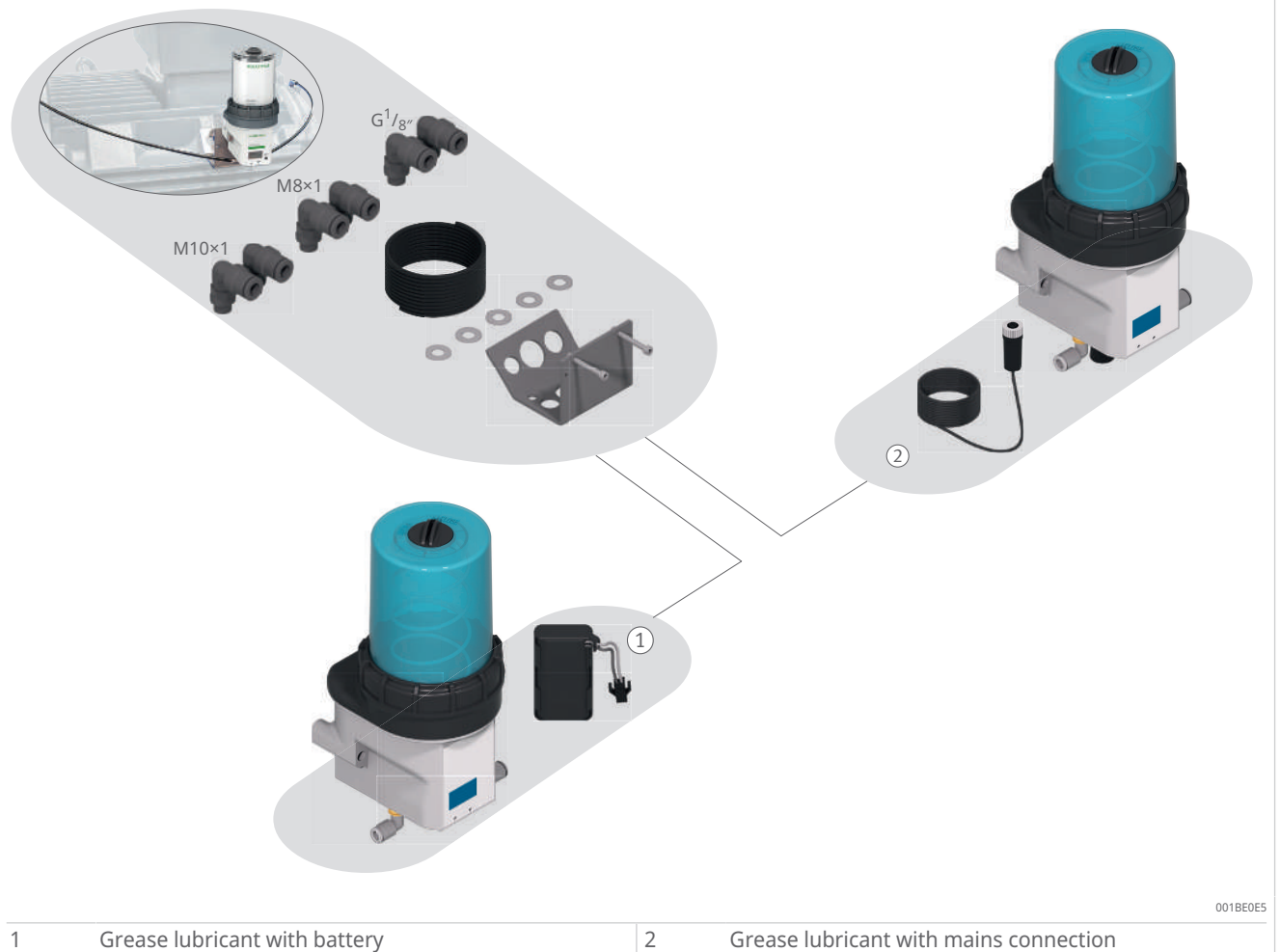
28 Spare parts			
No.	Ordering number	Ordering designation	Info
1	092860915-0000	ARCALUB-C2.COVER-KIT	20AF

4.1.3.6 Complete packages for electric motors

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

4

24 Complete packages for electric motors EKIT



1 Grease lubricant with battery

2 Grease lubricant with mains connection

29 Complete packages for electric motors EKIT

No.	Ordering number	Ordering designation	Info
1	092662269-0000	ARCALUB-C2-2P-EKIT	20B1
2	092662277-0000	ARCALUB-C2-2P-24VDC-EKIT	20B2

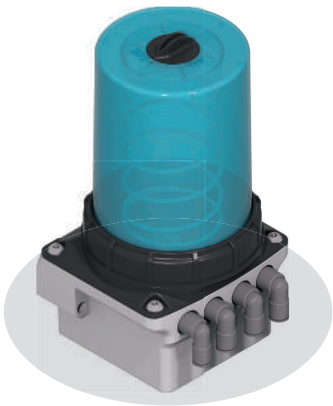


Cartridges must be ordered separately.

4.2 CONCEPT4

These lubricators to protection class IP54 offer, with their 2 pump bodies, a high degree of flexibility for the supply of grease as a lubricant.

25 CONCEPT4



001BE0F5

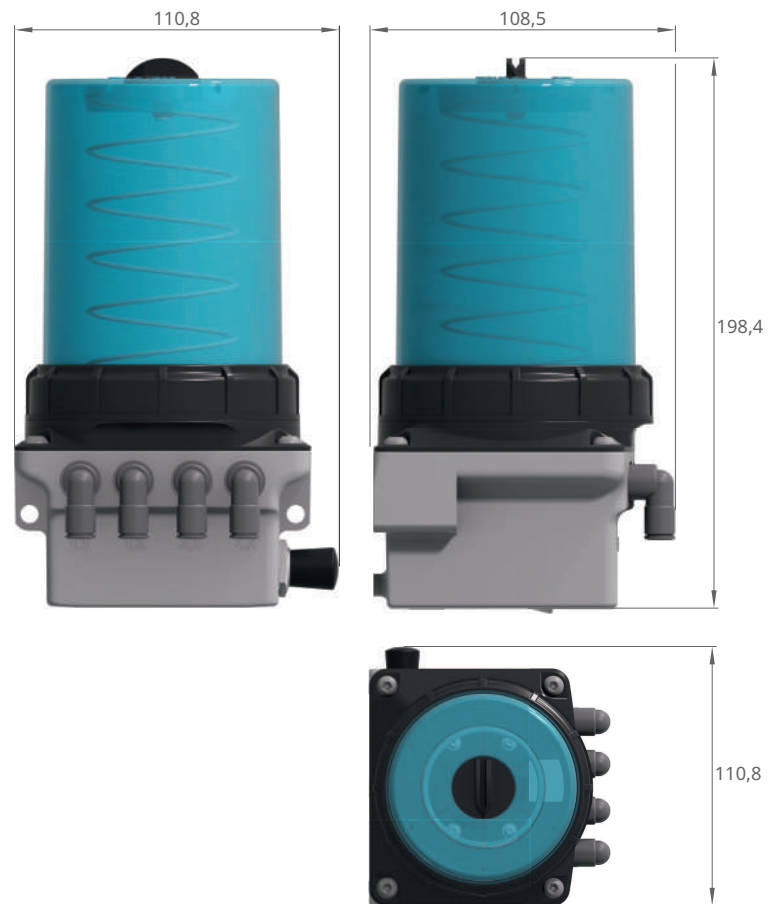
30 Device variants

Lubricant	Power supply	Number of outlets	Ordering number	Ordering designation	Info
Grease	DC 24 V	4	094901589-0000	ARCALUB-C4-2P-24VDC	20C7

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

4.2.1 Technical data

26 CONCEPT4 dimensions



001BD172



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

31 Technical data

Feature		Value
Dimensions		108,5 mm × 198,4 mm × 110,8 mm
Mass (without cartridge)		≈ 1,3 kg
Installation position		Vertical
Housing material		Die-cast zinc, PA66-GF30, POM
Protection class		IP54
Lubricant delivery		Piston pump
Metering volume per outlet for 1 delivery stroke		0,16 cm ³ 0/-0,008 cm ³
Number of pump bodies		2
Number of outlets (individually controllable in groups of 2)		4
Number of lubrication points	direct	≤ 4
	with splitters	≤ 8
	with progressive distributors ¹⁾	> 12
Connection		PA tube
Operating temperature		-15 °C ... +60 °C
Grease lubricant	Cartridges	400 cm ³
	Lubricant class	≤ NLGI 2 ²⁾
	Outside diameter of the lubricant line	8 mm
Mains power supply	Operating pressure	70 bar +7,5/-5 bar
	Operating voltage	DC 24 V (±1,2 V) stabilised via cable
	Multi-function interface	Power supply, I/O interface
	Connector	M12×1, 4-pin
	Current consumption	I _{max} ≤ 250 mA
	Status information	Advance fill level warning, empty, collective error, signal for successfully completed lubrication cycle
Controlling the lubrication intervals		External time control via multi-function interface (PLC)
Further information: medias		1FA5 

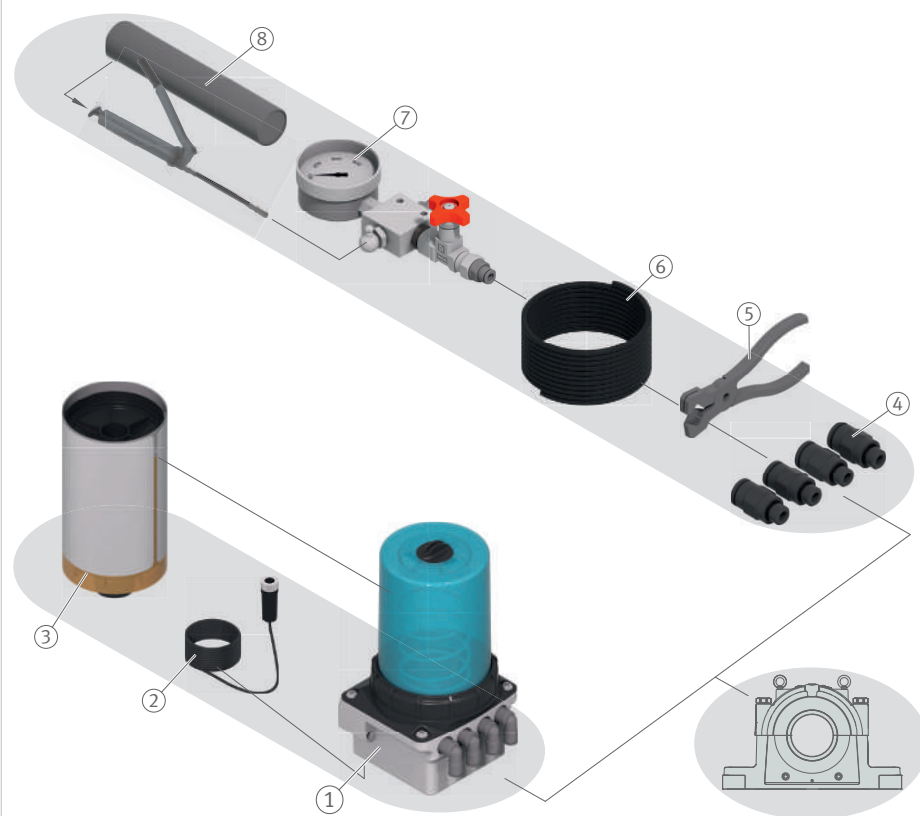
¹⁾ technical clarification required

²⁾ 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; when using third party greases, the suitability of the pump system within the applicable limit temperatures must be verified by the customer.

4.2.2 Ordering examples

27 Ordering example



001BE115

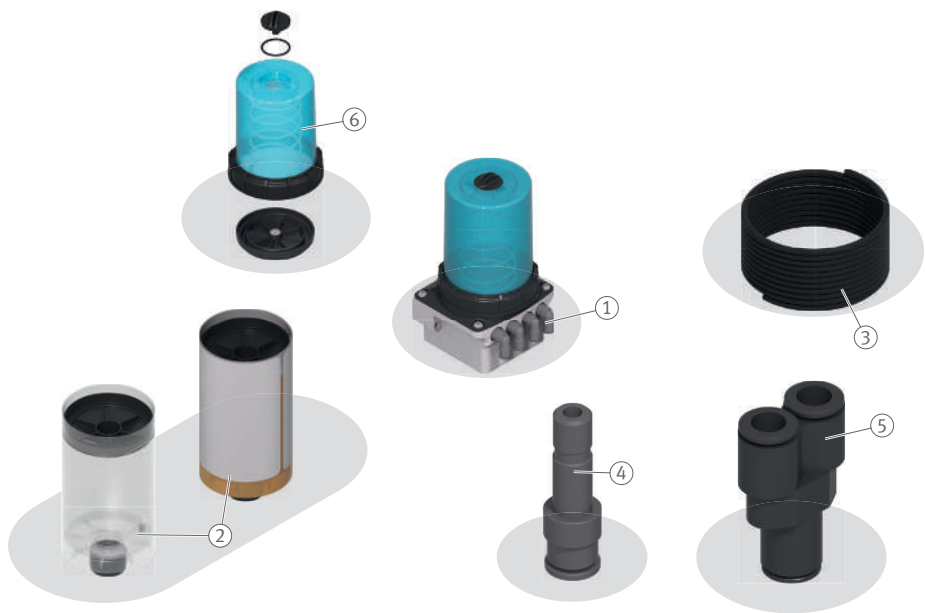
1	CONCEPT4	2	Connecting cable [► 66]
3	Grease cartridge 400 cm³ [► 107]	4	Screw-in connector for connection to lubrication point [► 73]
5	Tube/hose cutter [► 82]	6	Lubricant line [► 71]
7	Filling fitting [► 83]	8	Grease cartridge for lever grease gun [► 111]

32 Ordering example: CONCEPT4

No.	Qty	Ordering number	Ordering designation	Info
1	1	094901589-0000	ARCALUB-C4-2P-24VDC	20C7
2	1	075378361-0000	ARCALUB-X.CABLE-M12-10M	21F2
3	1	095056777-0000	ARCALUB-C4.LC400-MULTITOP	20D6
4	4	083654216-0000	ARCALUB-X.TUBEFIT-M8X1-SAT088G	21B9
5	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
6	1	083788603-0000	ARCALUB-X.HOSE-PA66-50M	21A6
7	1	301470731-0000	ARCALUB-X.ARMATUR-FIL-6/4-KIT	21ED
8	1	019144016-0000	ARCANOL-MULTITOP-400G	205D

4.2.3 Type-specific accessories and spare parts

28 Accessories and spare parts for CONCEPT4



001BE136

1	CONCEPT4 [► 32]	2	Cartridges [► 107]
3	Lubricant line [► 70]	4	Connection adapter for direct connection to the outlet [► 37]
5	Y-piece for combining 2 outlets [► 38]	6	Spare parts [► 38]

4.2.3.1 Required cartridges

29 Required cartridge for grease lubrication



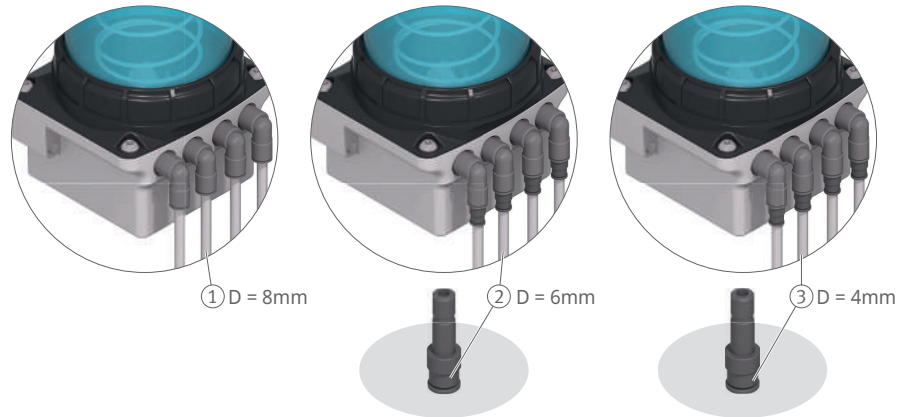
001BE146

1	Cartridge, prefilled with Arcanol grease, 400 cm ³ [► 107]	2	Cartridge, unfilled, 400 cm ³ [► 110]
---	---	---	--

4.2.3.2 Connection adapter for direct connection to the outlet

The connection adapter is inserted into the outlet of the lubricator with the outside diameter pushed in up to the end stop. The lubricant line is then inserted into the inside diameter of the connection adapter.

 30 Connection adapter for direct connection to the outlet on the CONCEPT4



001BE1B6

1	Direct hose connection for hose diameter D = 8 mm	2	Straight connection adapter for hose diameter D = 6 mm
3	Straight connection adapter for hose diameter D = 4 mm		

 33 Connection adapter for direct connection to the outlet

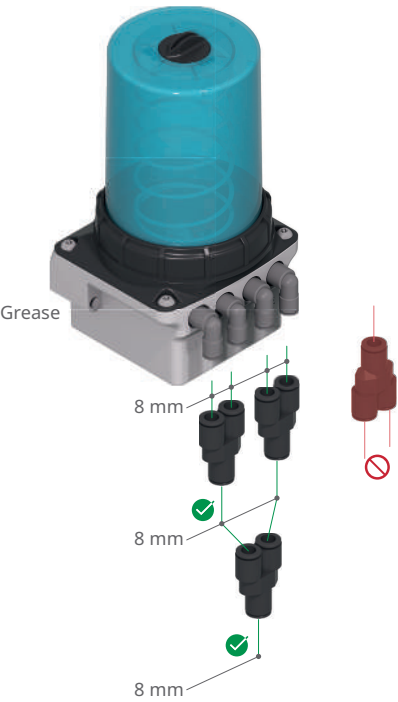
No.	Ordering number	Ordering designation	Info
2	094487979-0000	ARCALUB-X.TUBEFIT-SAT8A6I	20C8
3	095777970-0000	ARCALUB-X.TUBEFIT-SAT-8A-4I	20C9

4.2.3.3 Y-pieces

Y-pieces are used to combine 2 lubricant lines into one. Use as a sub-distributor is not permitted.

The housing material is nickel-plated brass, and the sealing material is NBR.

31 Y-pieces for CONCEPT4



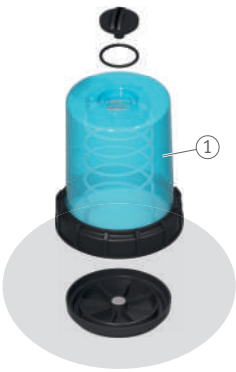
001BE156

34 Y-pieces

D mm	Ordering number	Ordering designation	Info
8	083654640-0000	ARCALUB-X.TUBEFIT-Y-D8	20CA

4.2.3.4 Spare parts

32 CONCEPT4 spare parts



001BE176

1 Cover set

35 Spare parts

No.	Ordering number	Ordering designation	Info
1	095111930-0000	ARCALUB-C4.COVER-KIT	20CB

4.3 CONCEPT8

These lubricators to protection class IP65, featuring 4 or 8 lubricant outlets, offer high flexibility for lubricant supply with grease or oil.

33 CONCEPT8 device variants



001BE196

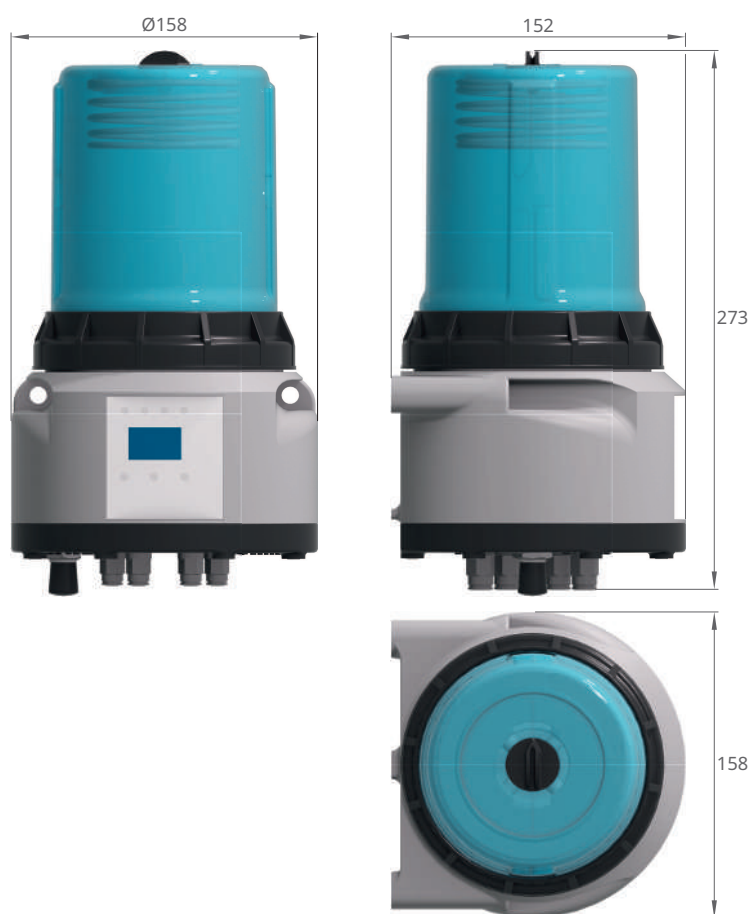
1	Grease lubricant	2	Oil lubricant
3	Version with 4 outlets	4	Version with 8 outlets

36 Device variants

Lubricant	Power supply	Number of outlets	Ordering number	Ordering designation	Info
Grease	DC 24 V	4	082249156-0000	ARCALUB-C8-2P	20E2
	DC 24 V	8	082266646-0000	ARCALUB-C8-4P	20E3
Oil	DC 24 V	4	083786910-0000	ARCALUB-C8-2P-OIL	20E4
	DC 24 V	8	083787062-0000	ARCALUB-C8-4P-OIL	20E5

4.3.1 Technical data

34 CONCEPT8 dimensions



001BD184



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

37 Technical data

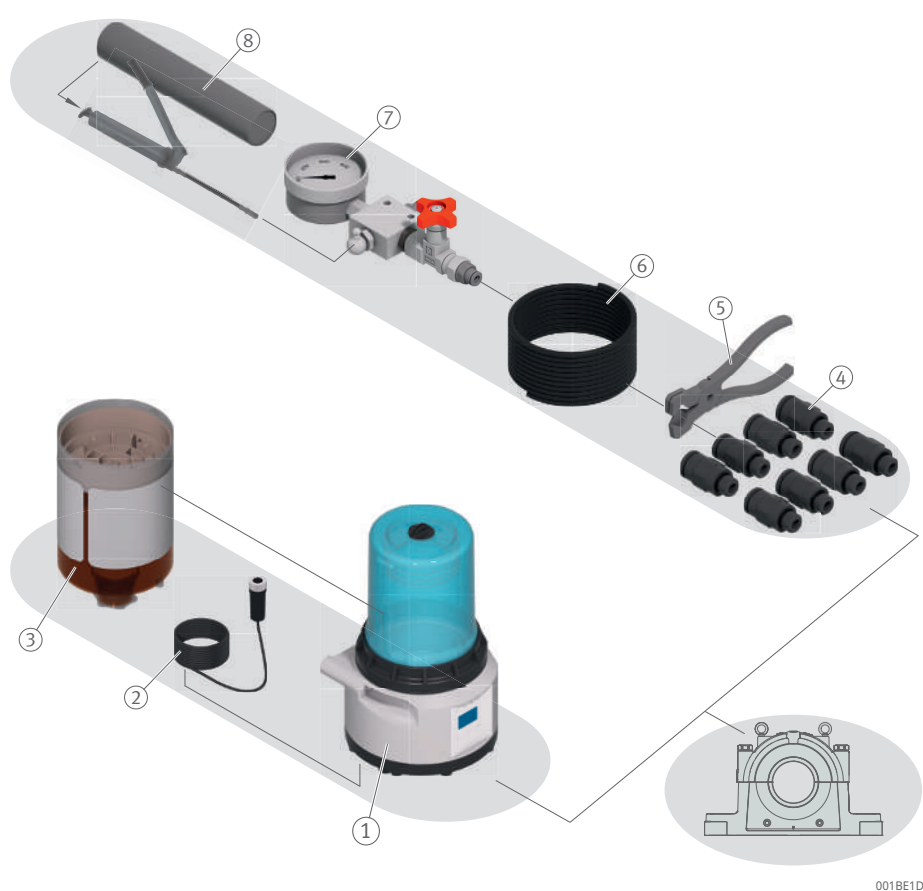
Feature		Value
Dimensions		158 mm × 273 mm × 152 mm
Mass (without cartridge)		≈ 3 kg
Installation position		Vertical
Housing material		Aluminium (powder-coated), polyamide
Protection class		IP65
Lubricant delivery		Piston pump
Metering volume per outlet for 1 delivery stroke		0,16 cm ³ 0/-0,008 cm ³
Number of outlets (individually controllable in groups of 2)		4 or 8
Number of lubrication points	direct	≤ 8
	with splitters	≤ 16
	with progressive distributors ¹⁾	> 16
Connection		PA tube
Operating temperature		-20 °C ... +70 °C
Grease lubricant	Cartridges	800 cm ³
	Lubricant class	≤ NLGI 2 ²⁾
	Outside diameter of the lubricant line	8 mm
Oil lubricant	Volume	1000 cm ³
	Lubricant	> 68 cSt
	Outside diameter of the lubricant line	6 mm
Mains power supply	Operating pressure	70 bar +7,5/-5 bar
	Operating voltage	DC 24 V (±1,2 V) stabilised via cable
	Multi-function interface	Power supply, I/O interface
	Connector	M12×1, 4-pin
	Current consumption	I _{max} ≤ 250 mA
	Status information	Collective error, signal for successfully completed lubrication cycle
Controlling the lubrication intervals		Integrated time control by timer: 1 h ... 240 h 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
Further information: medias		1FA5 

¹⁾ technical clarification required

²⁾ Arcanol greases up to NLGI 2, 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.

4.3.2 Ordering examples

35 Ordering example: CONCEPT8 grease



1	CONCEPT8	2	Connecting cable [► 66]
3	Grease cartridge 800 cm³ [► 108]	4	Screw-in connector for connection to lubrication point [► 73]
5	Tube/hose cutter [► 82]	6	Lubricant line [► 71]
7	Filling fitting [► 83]	8	Grease cartridge for lever grease gun [► 111]

38 Ordering example: CONCEPT8 grease

No.	Qty	Ordering number	Ordering designation	Info
1	1	082266646-0000	ARCALUB-C8-4P	20E3
2	1	075378361-0000	ARCALUB-X.CABLE-M12-10M	21F2
3	1	082631492-0000	ARCALUB-C8.LC800-MULTITOP	20F3
4	8	083654216-0000	ARCALUB-X.TUBEFIT-M8X1-SAT088G	21B9
5	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
6	1	083788603-0000	ARCALUB-X.HOSE-PA66-50M	21A6
7	1	301470731-0000	ARCALUB-X.ARMATUR-FIL-6/4-KIT	21ED
8	1	019144016-0000	ARCANOL-MULTITOP-400G	205D

36 Ordering example: CONCEPT8 oil

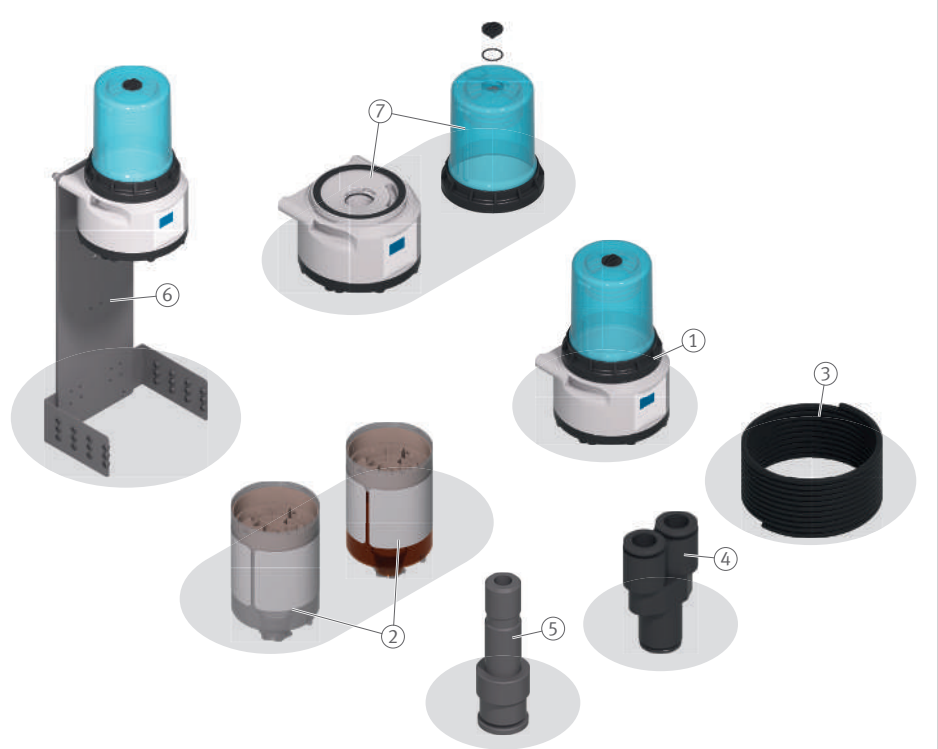


39 Ordering example: CONCEPT8 oil

No.	Qty	Ordering number	Ordering designation	Info
1	1	083786910-0000	ARCALUB-C8-2P-OIL	20E4
2	1	075378361-0000	ARCALUB-X.CABLE-M12-10M	21F2
3	4	083654216-0000	ARCALUB-X.TUBEFIT-M8X1-SAT088G	21B9
4	1	083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC
5	1	075527251-0000	ARCALUB-X.HOSE-PA12-CLEAR-25M	219F

4.3.3 Type-specific accessories and spare parts

37 Accessories and spare parts for CONCEPT8

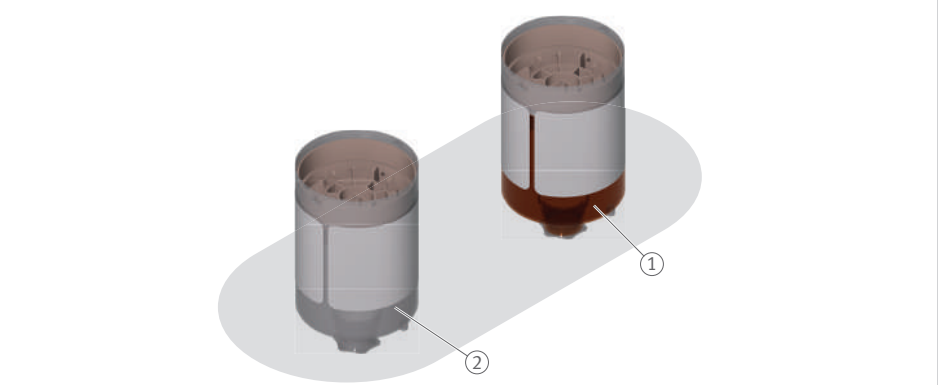


0018E216

1	CONCEPT8 [► 39]	2	Cartridges [► 108]
3	Lubricant line [► 70]	4	Y-piece for combining 2 outlets [► 46]
5	Connection adapter for direct connection to the outlet [► 45]	6	Device holder [► 47]
7	Spare parts [► 47]		

4.3.3.1 Required cartridges

38 Required cartridge for grease lubrication



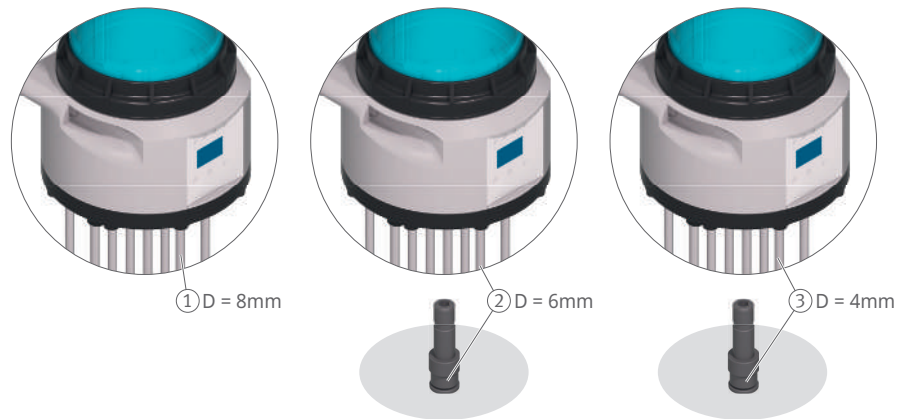
0018E226

1	Cartridge, prefilled with Arcanol grease, 800 cm ³ [► 108]	2	Cartridge, unfilled, 800 cm ³ [► 110]
---	---	---	--

4.3.3.2 Connection adapter for direct connection to the outlet

The connection adapter is inserted into the outlet of the lubricator with the outside diameter pushed in up to the end stop. The lubricant line is then inserted into the inside diameter of the connection adapter.

39 Connection adapter for direct connection to the outlet on the CONCEPT8



001BE9B5

1	Direct hose connection for hose diameter D = 8 mm	2	Straight connection adapter for hose diameter D = 6 mm
3	Straight connection adapter for hose diameter D = 4 mm		

40 Connection adapter for direct connection to the outlet

No.	Ordering number	Ordering designation	Info
2	094487979-0000	ARCALUB-X.TUBEFIT-SAT8A6I	20C8
3	095777970-0000	ARCALUB-X.TUBEFIT-SAT-8A-4I	20C9

4.3.3.3 Y-pieces

Y-pieces are used to combine 2 lubricant lines into one. Use as a sub-distributor is not permitted.

The housing material is nickel-plated brass, and the sealing material is NBR.

40 Y-pieces for CONCEPT8



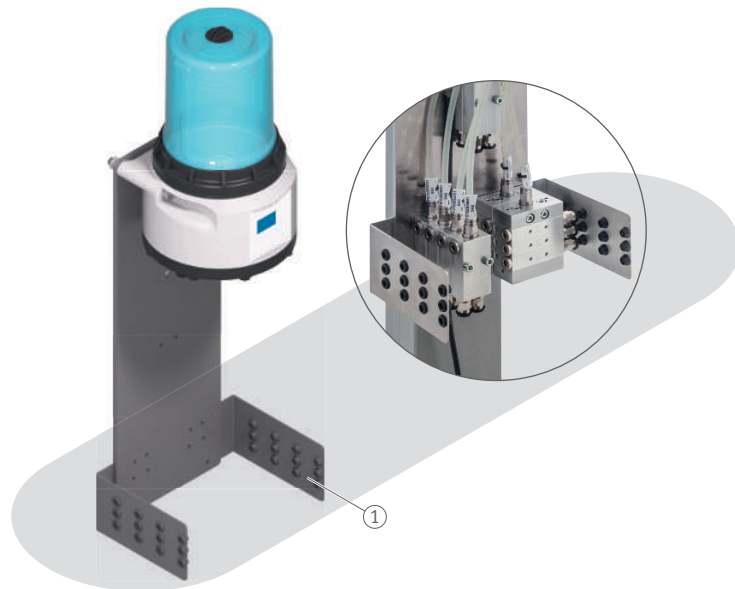
41 Y-pieces

D mm	Ordering number	Ordering designation	Info
6	076693180-0000	ARCALUB-X.TUBEFIT-Y-D6	20E6
8	083654640-0000	ARCALUB-X.TUBEFIT-Y-D8	20CA

4.3.3.4 Device holder

The device holder ensures that all components are mounted in a compact and orderly manner when used with splitters and progressive distributors.

41 Device holder for CONCEPT8



001BE2B6

1 Device holder

42 Device holder

No.	Ordering number	Ordering designation	Info
1	093204094-0000	ARCALUB-C8.HOLDER-KIT	20E7

4.3.3.5 Spare parts

42 CONCEPT8 spare parts



001BE2D6

1 Seal set

2 Cover set

43 Spare parts

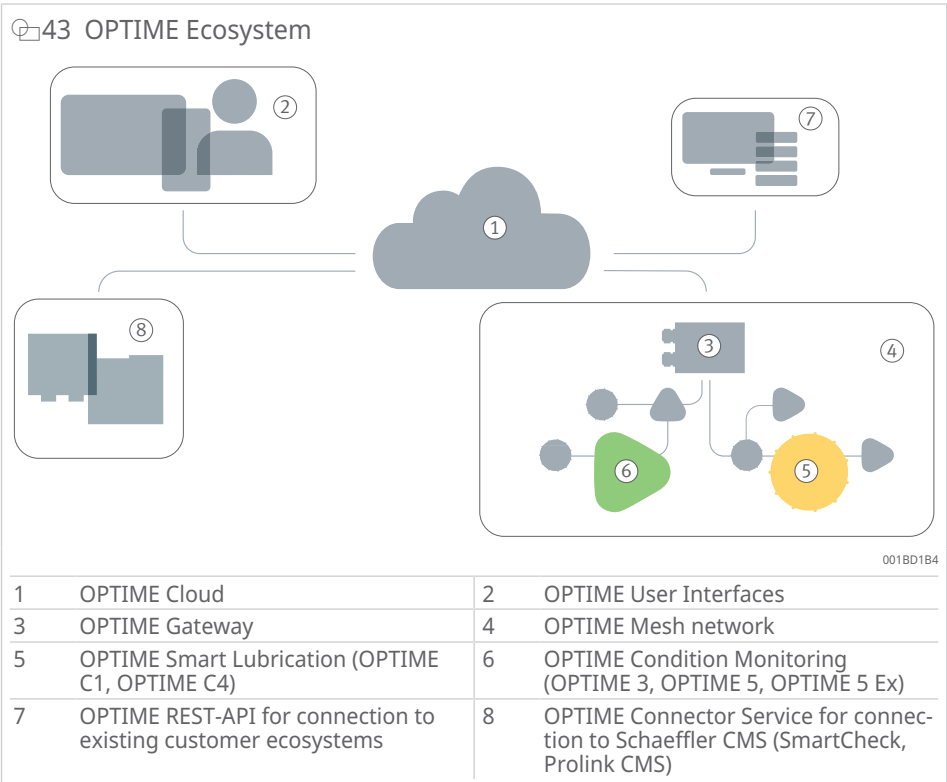
No.	Ordering number	Ordering designation	Info
1	094977291-0000	ARCALUB-C8.SEAL-KIT	20E8
2	095111948-0000	ARCALUB-C8.COVER-KIT	20E9

5 OPTIME lubricators in the OPTIME Ecosystem

5.1 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.



5.1.1 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.

5.1.1.1 Mandatory service components

44 OPTIME Ecosystem, mandatory service components

Type	Ordering number	Ordering designation	Info
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

5.1.1.2 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.

5.1.1.3 Extended services for condition monitoring

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.

Digital Service Connector

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

5.2 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.

001BD1D4

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		

45 Device variants

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

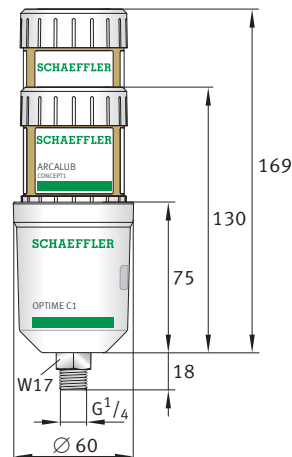
- ¹⁾

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

5.2.1 Technical data

45 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.

46 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 sunlight, store in a dry place.
	Temperature	+20 °C ±5 °C
	Humidity	≤ 65 %
Further information: medias		1FA5

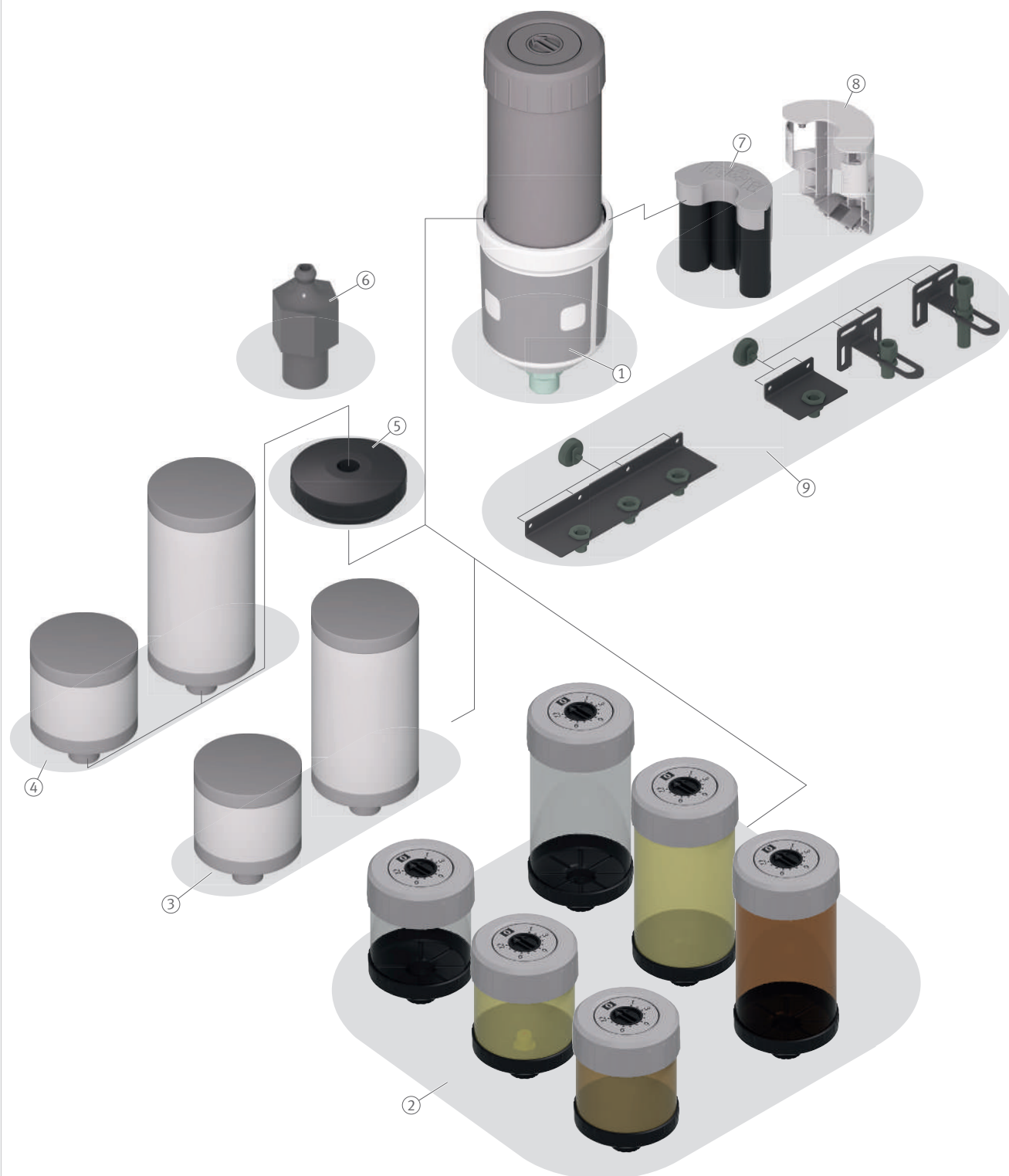
Certifications



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>.

5.2.2 Type-specific accessories and spare parts

46 Spare parts and accessories for OPTIME C1



001BE3AA

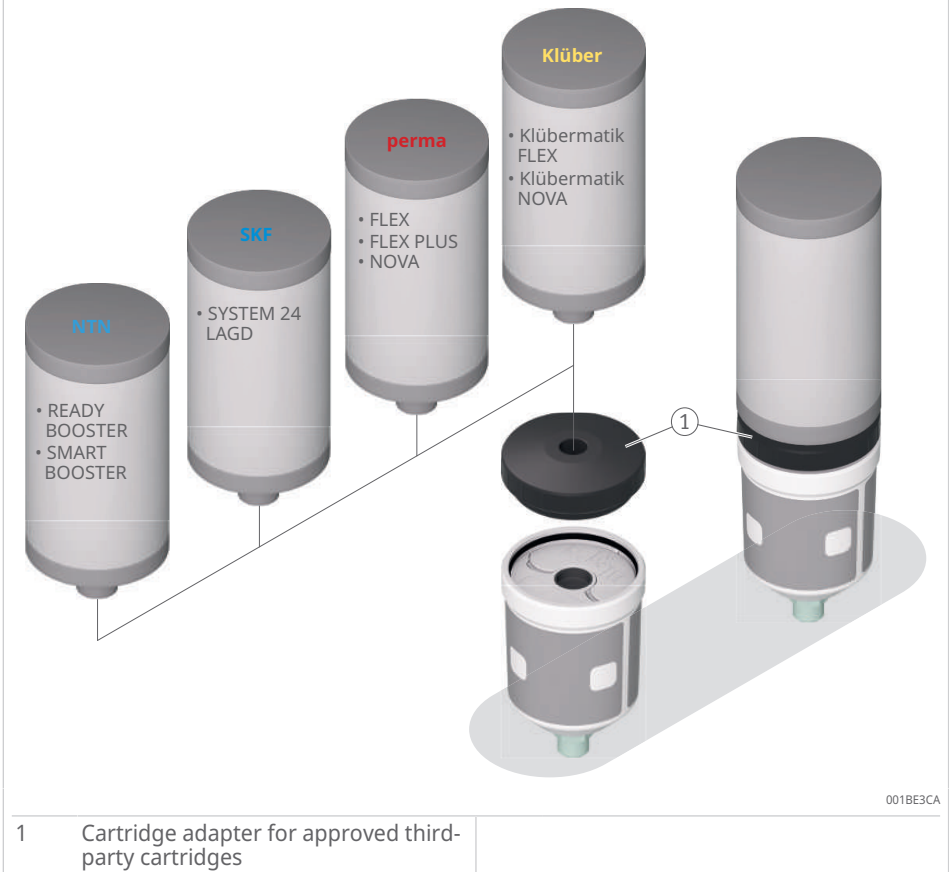
1	OPTIME C1 [► 50]	2	CONCEPT1 lubricant cartridge [► 105]
3	Approved third-party cartridge for direct installation [► 53]	4	Approved third-party cartridge using cartridge adapter [► 53]
5	Cartridge adapter [► 53]	6	Filling nipple for initial filling [► 57]
7	Battery pack [► 57]	8	Battery holder [► 57]
9	Device holder [► 54]		

5.2.2.1 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.

47 Cartridge adapter



47 Cartridge adapter

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

48 Approved third-party cartridges (60 cm³, 125 cm³)

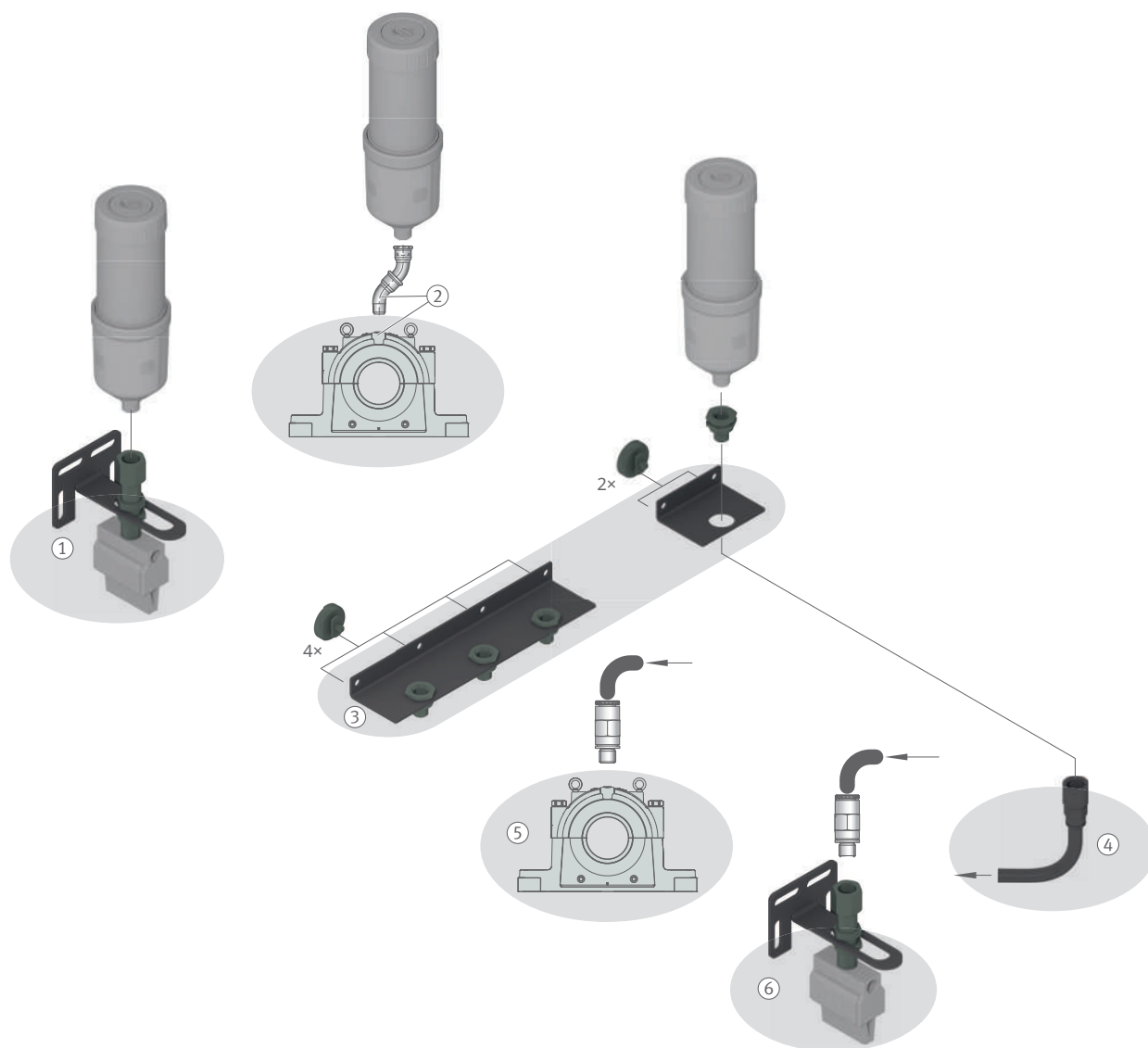
Cartridge provider	Product designation	Cartridge adapter required
perma	FLEX, FLEX PLUS, NOVA	✓
SKF	SKF SYSTEM 24 LAGD	✓
NTN	READY BOOSTER, SMART BOOSTER	✓
Klüber	Klübermatik FLEX, Klübermatik NOVA	✓
simatec	simalube (including 250 cm ³)	–

5.2.2.2 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.

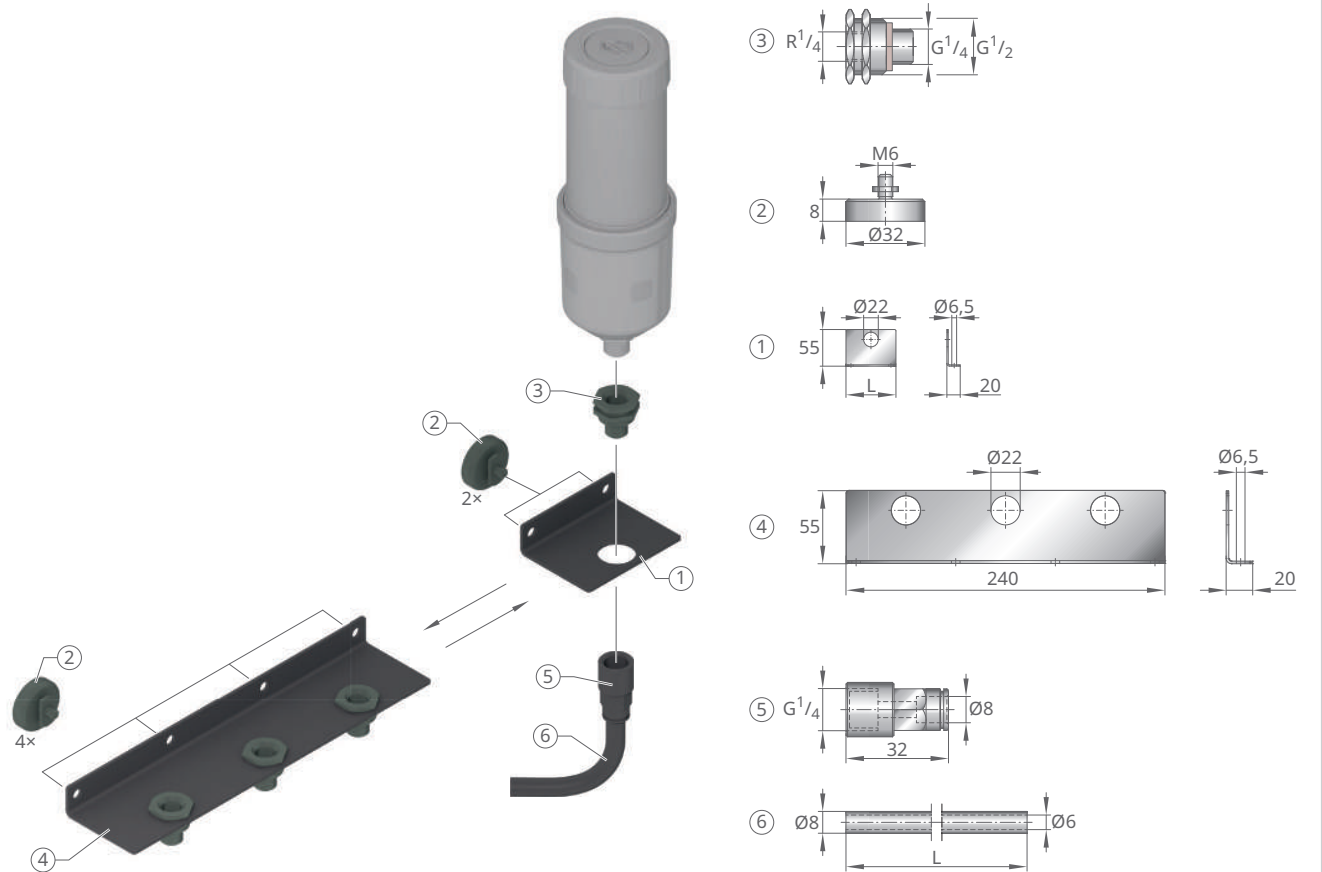
48 Mounting options with device holder for OPTIME C1



001BE3EA

1	Mounting bracket with bulkhead fitting for direct mounting to allow fine adjustment of brush position [► 56]	2	Direct mounting of the lubricator, no device holder required
3	Mounting bracket (1-way / 3-way) with magnetic foot and fixing nipple [► 55]	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 [► 56]

49 Mounting bracket and magnetic foot



001BE3FA

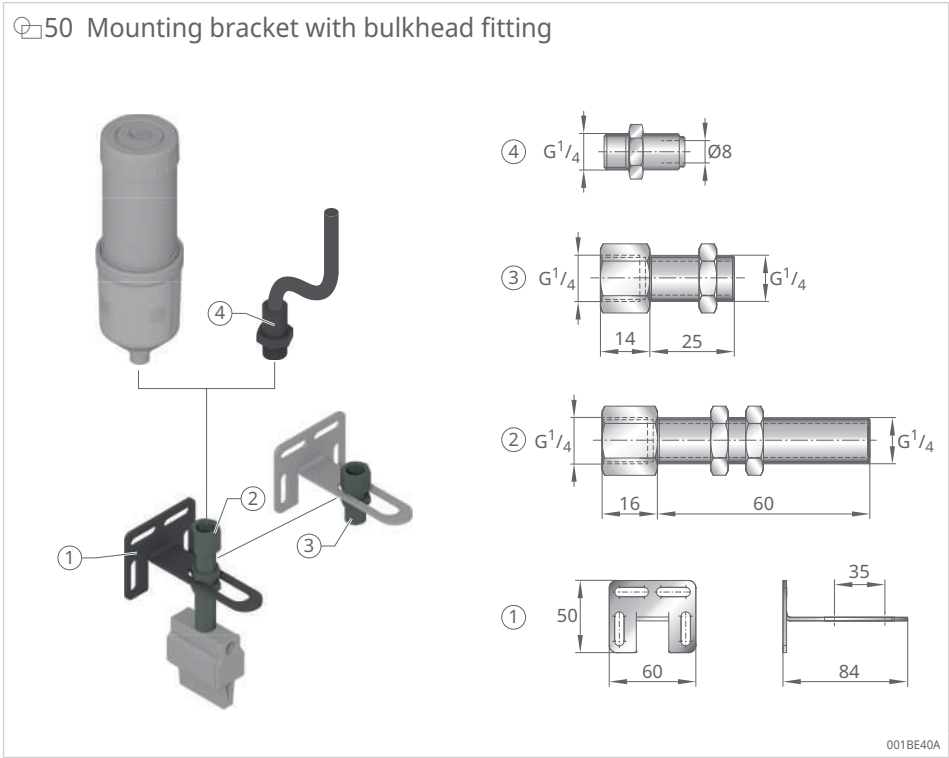
49 Ordering example: Mounting bracket and magnetic foot

No.	Qty	Ordering number	Ordering designation	Info
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

50 Mounting bracket with bulkhead fitting



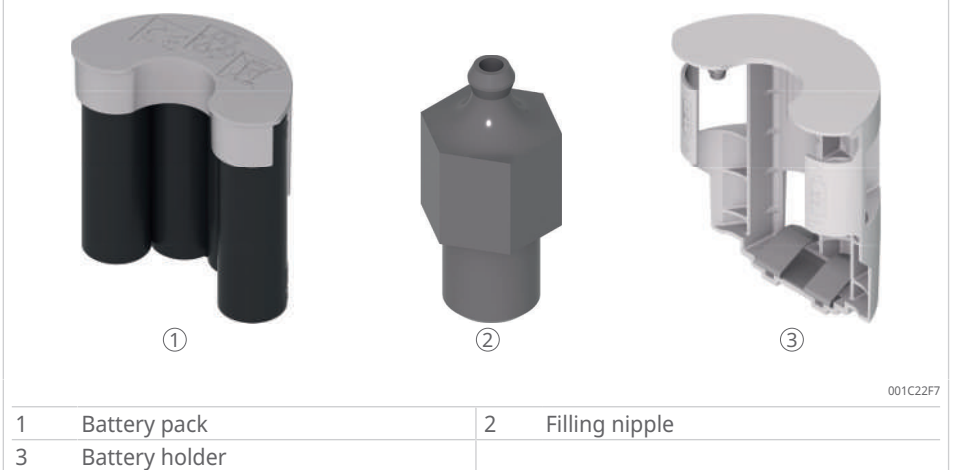
50 Ordering example: Mounting bracket and bulkhead fitting

No.	Qty	Ordering number	Ordering designation	Info
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

5.2.2.3 Spare parts

51 Spare parts for OPTIME C1



51 Battery pack, battery holder and filling nipple

Description	Ordering number	Ordering designation	Info
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	21F5

Power for the lubricator is provided by the OPTIME-LW-C1.BATTERY **battery pack**.

Optional: The OPTIME-LW-C1.ADAPTER-BATTERY **battery holder** may be used instead of the battery pack. This is available as an accessory. The battery holder may only be fitted with suitable batteries (battery cells) approved by Schaeffler.

52 Approved battery types

Manufacturer	Battery type	Size	Nominal voltage
Duracell	Optimum	LR6 (AA Mignon)	1,5 V
Energizer	Max Plus		
GP Batteries	Super Alkaline		
Maxell	Super Alkaline		
Nanfu	Excell Plus, Excell Ultra		
Panasonic	Evolta, Evolta Neo		
Philips	Premium Alkaline, Ultra Alkaline		
Varta	Alkaline INDUSTRIAL PRO, Longlife Max Power		



The user is responsible for any failures or device malfunctions caused by unsuitable or non-approved battery cells. The use of non-approved battery cells will render the warranty invalid.

5.3 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.



53 Device variants

Type	Ordering number	Ordering designation	Info
FAG OPTIME C4 Region 1	301741603-0000	OPTIME-LW-C4-R1	2107
FAG OPTIME C4 Region 2	305843222-0000	OPTIME-LW-C4-R2	220C
FAG OPTIME C4 Region 3	305888820-0000	OPTIME-LW-C4-R3	220F

 Detailed information on country approvals can be obtained clicking on the embedded link.

5.3.1 Technical data

53 FAG OPTIME C4 dimensions



001C2307



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

54 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		0,12 cm ³ +0,012/-0,012 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		1FA5

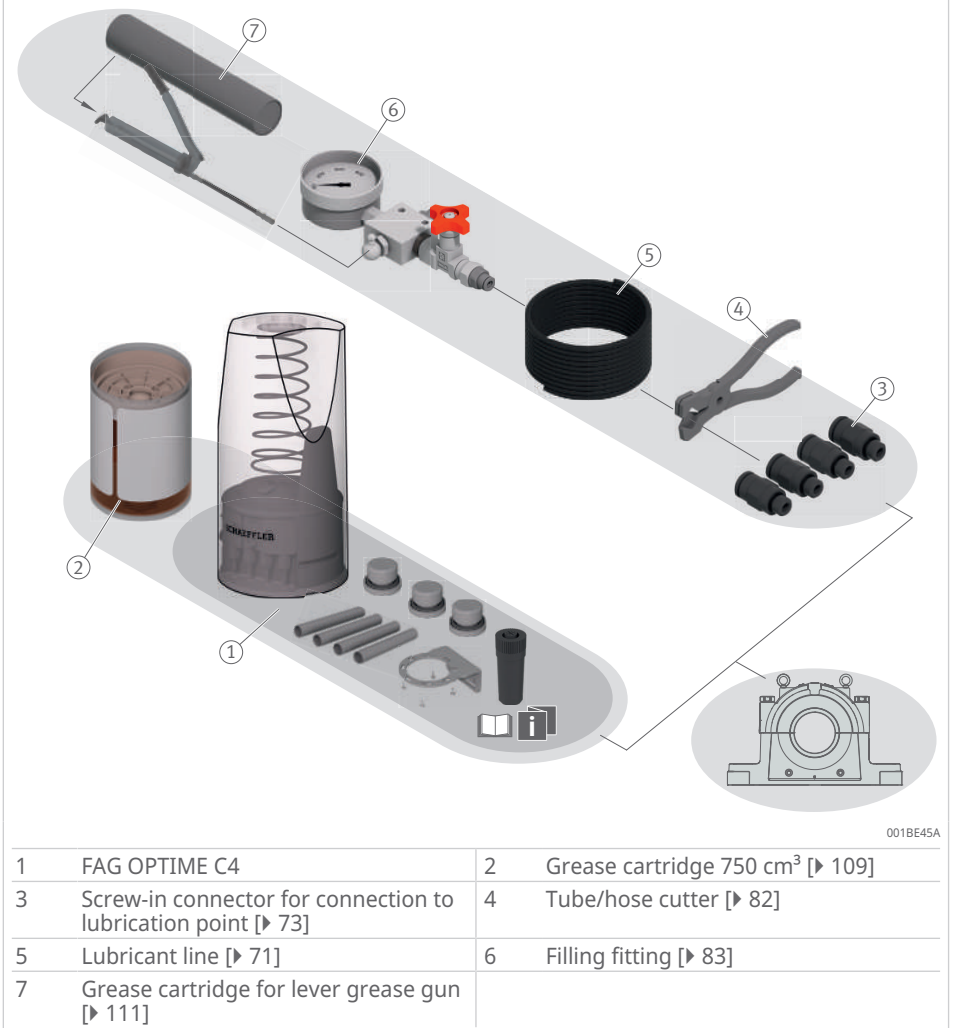
- ¹⁾ Arcanol greases up to NLGI 3, taking into account the maximum lubricant line length.
 Other greases up to NLGI 2, with experimental determination of the maximum lubricant line length.
 No solid particles, except PTFE; when using third party greases, the suitability of the pump system within the applicable limit temperatures must be verified by the customer.

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/202D>.

5.3.2 Ordering examples

 54 FAG OPTIME C4 with grease lubrication, DC 24 V

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

No.	Qty	Ordering number	Ordering designation	Info
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

5.3.3 Type-specific accessories and spare parts

55 Accessories and spare parts for FAG OPTIME C4



001C2327

1	FAG OPTIME C4 [► 58]	2	Grease cartridges and oil tank [► 62]
3	Optional adapter for connecting lubricant lines D=4 mm [► 64]	4	Lubricant line [► 70]
5	Optional use of high-pressure hoses [► 63]	6	Spare parts [► 65]

5.3.3.1 Required cartridges

56 Required cartridges and oil tanks



001C2347

1	Cartridge, prefilled with Arcanol grease, 400 cm ³ and 750 cm ³ [► 109]	2	Cartridge, unfilled, 750 cm ³ [► 110]
3	Oil tank, unfilled, 850 cm ³ [► 111]		

5.3.3.2 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.

57 Use of high-pressure hoses



1 Tube nozzle with claw groove for direct connection of high-pressure hoses [► 69]

2 Transition hose kit for connection to existing rigid pipework

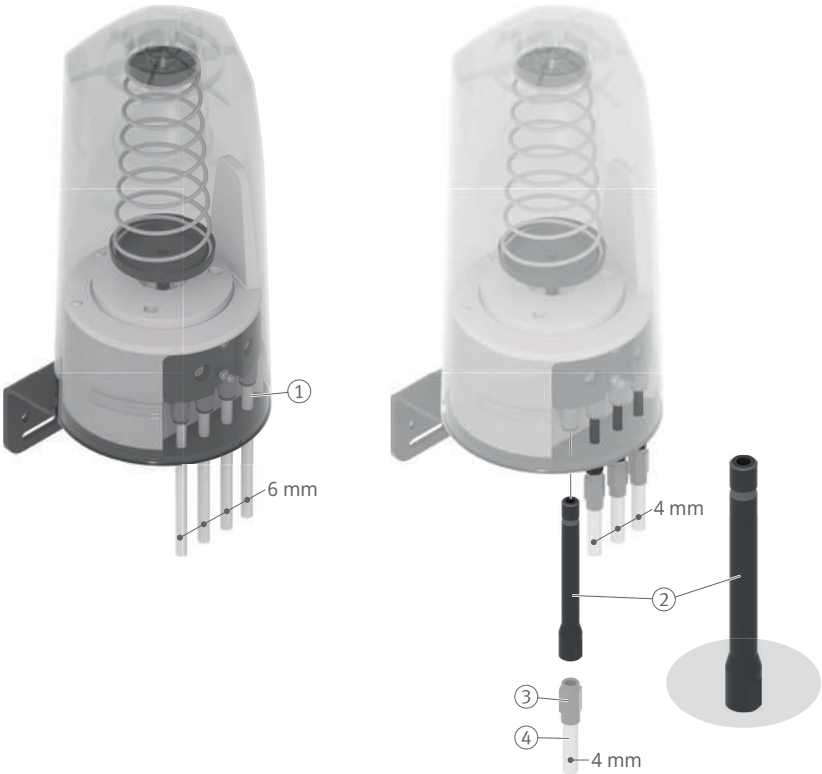
56 Optional use of high-pressure hoses

No.	Ordering number	Ordering designation	Info
1	301809640-0000	OPTIME-LW-C4.STUD-TUBE-6-82MM-CG	210B
2	301809658-0000	OPTIME-LW-C4.TUBE-FLEX-6-600MM-KIT	210C

5.3.3.3 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.

58 Connection adapter for lubricant lines D = 4 mm



001C2388

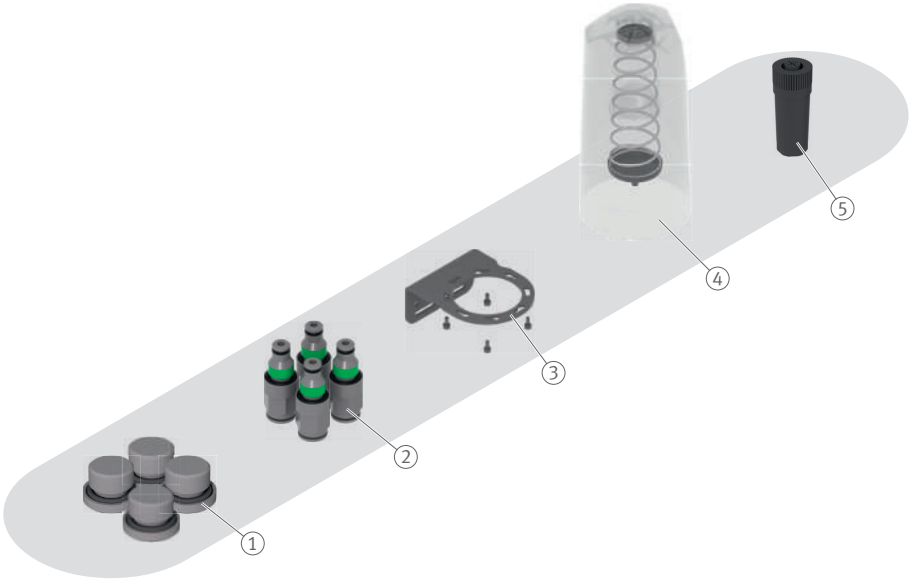
1	Direct hose connection for hose diameter D = 6 mm	2	Screw-in connector with claw groove, M6 internal thread
3	Screw-in connector with M6 external thread	4	Lubricant line with hose diameter D = 4 mm [► 70]

57 Connection adapter for lubricant lines D = 4 mm

No.	Ordering number	Ordering designation	Info
2	302014446-0000	OPTIME-LW-C4.FIT-RED-6-M6-S-MP	210D
3	301470723-0000	ARCALUB-X.TUBEFIT-4-M6X1-S-MP	21C8

5.3.3.4 Spare parts

59 Spare parts



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		

001C23A8

58 Spare parts

No.	Ordering number	Ordering designation	Info
1	301471070-0000	OPTIME-LW-C4.PLUG-OUT	210F
2	301471088-0000	OPTIME-LW-C4.FIT-OUT-6-S-MP	210E
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

6 Power supply

The CONCEPT4, CONCEPT8 and FAG OPTIME C4 lubricators require an external power supply. The CONCEPT2 lubricators can be operated either with an external power supply or with batteries.

Various connector types and cable lengths are available for the external power supply.

60

Power supply DC 24 V

Diagram illustrating the power supply options for the CONCEPT2, CONCEPT4, CONCEPT8, and OPTIME C4 lubricators. The diagram shows the lubricators and various connector types (1-5) used for external power supply.

1	Angled connector plug with connecting cable and status LED	2	Straight connector plug with connecting cable and status LED
3	Straight connector plug with connecting cable	4	Straight connector plug without connecting cable
5	Straight connector plug with workshop power supply unit and country-specific adapters		

001C23C4

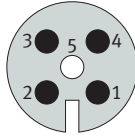
59 External power supply with connector plug M12×1

No.	Length	Ordering number	Ordering designation	Info
	m			
1	5	075592240-0000	ARCALUB-X.CABLE-M12-5M-LED	21EE
	10	077879805-0000	ARCALUB-X.CABLE-M12-10M-LED	21EF
2	5	083788964-0000	ARCALUB-X.CABLE-M12X1-5M-LED-S	21F0
	10	083788980-0000	ARCALUB-X.CABLE-M12X1-10M-LED-S	21F1
3	10	075378361-0000	ARCALUB-X.CABLE-M12-10M	21F2
4	–	301471096-0000	OPTIME-LW-C4.CONNECT-24V-M12-4PIN	2113
5	1,5	302424695-0000	OPTIME-LW-C4.PSUPPLY-WORKSHOP	2130

The workshop power supply unit does not meet the requirements for permanent industrial power supply.

60 Technical data, connector plug

Feature		Value
Operating voltage		DC 24 V +6/-6 V
Operating current per contact		max. 4 A
Temperature range		-30 °C ... +80 °C
Connection socket		- Thread M12×1, self-retaining (recommended tightening torque 0,6 Nm) 4-pin (A coding)
Protection class		IP67 (in inserted and screw-mounted state)
Status indicator integrated LED	Green	Applied supply voltage DC 24 V
	White	Incoming signal Initiation of lubricant dispensing from external controller
	Yellow	Outgoing signal Confirmation of completed lubricant dispensing to external controller



61 Technical data, integrated cable

Feature		Value
Temperature range	Fixed	-30 °C ... +80 °C
	Moving	-5 °C ... +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		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

62 Technical data, cable for connector plug without connection cable

Feature	Value
Number of ends, end cross-section	4×0,25 mm ² ... 4×0,52 mm ² (AWG 24 - 20)
Cable diameter	6,0 mm ... 8,3 mm



The cables used must comply with the regulations of the specific application.

7 Demo cases

The demo cases are particularly suitable for the Technical 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.

61 Demo cases



001C2418

1	CONCEPT1, OPTIME C1	2	CONCEPT2
3	CONCEPT8	4	FAG OPTIME C4

63 Demo cases

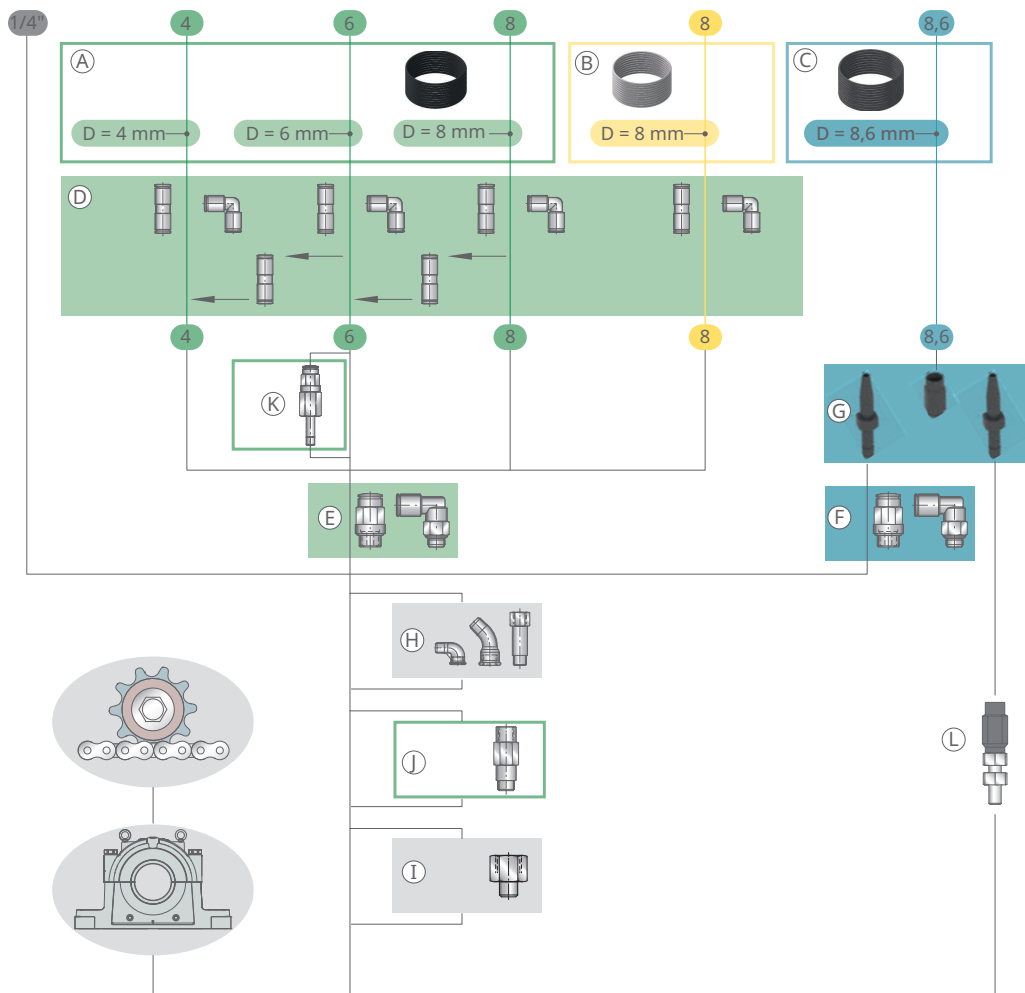
Lubricator	Ordering number	Ordering designation	Info
CONCEPT1, OPTIME C1	095287558-0000	DEMO-ARCALUB-C1-SET	1FC8
CONCEPT2	089395433-0000	DEMO-ARCALUB-C2-SET	1FC9
CONCEPT8	084224878-0000	DEMO-ARCALUB-C8-SET	1FCA
FAG OPTIME C4	303292903-0000	DEMO-OPTIME-C4-SET	220E

8 Lubricant feed lines, fittings

64 Connection adapter for direct connection to the outlet

Interface for additional lubricant lines					
	►15 3.1.2	-	-	-	-
	-	►29 4.1.3.3	►37 4.2.3.2	►45 4.3.3.2	►64 5.3.3.3
	-	►29 4.1.3.3	►37 4.2.3.2	►45 4.3.3.2	►64 5.3.3.3
	-	-	►37 4.2.3.2	►45 4.3.3.2	
	►15 3.1.2	-	-	-	-
	-	-	-	-	►64 5.3.3.3

62 Variants for additional lubricant lines



001C414D

A	Plastic tube 80 bar, Product group A [► 71]	B	Plastic tube 60 bar, Product group B [► 71]
C	High-pressure hose 250 bar, Product group C [► 71]	D	Connectors, Product group D [► 72]
E	Screw-in connectors, Product group E [► 73]	F	Screw-in connectors. Product group F [► 74]
G	Screw fittings, Product group G [► 75]	H	Screw-in connecting pieces, Product group H [► 76]
I	Screw-in reducing nipples, Product group I [► 76]	J	Screw-in oil non-return valve, Product group J [► 77]
K	Push-in oil non-return valve, Product group K [► 77]	L	Customer-supplied cutting ring fitting

Schaeffler offers a wide range of lubricant lines along with suitable connection options for lubricators. Lubricant lines can be designed as tubing or hoses.

! The pressure resistance (burst pressure) of the overall system is limited by the individual pressure resistance of the lubricant lines and fittings.

8.1 Connection adapter for direct hose connection to the lubricator

Direct connection of a lubricant line to the outlet of a lubricator is possible for a specific hose diameter. To switch to a smaller hose diameter or to enable an angled hose connection, the use of a connection adapter is required. A variety of connection adapters are available for each lubricator.

8.2 Tubing and hose lines

Tubing and hose lines are important connecting elements in the lubrication system. They provide a reliable and durable solution for lubricant supply, from low-pressure systems to high-pressure systems.

63 Tubing and hose lines



001C40F4

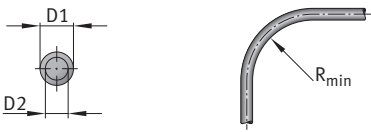
A	Plastic tube, max. 80 bar	B	Plastic tube, max. 60 bar
C	High-pressure hose, max. 250 bar		

The plastic tubes are made of PA12 or PA6.6 and conform to DIN 73378.

High-pressure hoses are particularly resistant due to their multilayer construction and are therefore well suited for harsh environmental conditions. The inner tube of the high-pressure hose is made of PA6. Polyester braid is used as the reinforcement layer. The outer layer is made of polyurethane and bonds with the intermediate layer to provide additional stability.

! The maximum permissible lubricant line length must be calculated in accordance with the system design for the respective lubricator ➤7|2.

64 Hose dimensions



000AF957

! The minimum bending radius R_{min} must be observed.

65 Tubing and hose lines, max. 80 bar: Product group A

D ₁	D ₂	L	Material	R _{min}	Burst pressure at 70 °C ¹⁾	Ordering number	Ordering designation	Info
mm	mm	m		mm	bar			
4	2,5	5	PA12HL, black	40	96	093041241-0000	ARCALUB-X.HOSE-4X2,5-PA12-5M	219A
		10				093041195-0000	ARCALUB-X.HOSE-4X2,5-PA12-10M	219B
		50				095775854-0000	ARCALUB-X.HOSE-4X2,5-PA12-50M	219C
6	3	5	PA12H, transparent	20	138	075526336-0000	ARCALUB-X.HOSE-PA12-CLEAR-5M	219D
		10				083788441-0000	ARCALUB-X.HOSE-PA12-CLEAR-10M	219E
		25				075527251-0000	ARCALUB-X.HOSE-PA12-CLEAR-25M	219F
		1000				092515851-0000	ARCALUB-X.HOSE-PA12-CLEAR-1000M	21A0
6	4	5	PA12HL, black	35	82	076691217-0000	ARCALUB-X.HOSE-PA12-5M	21A1
		10				076691497-0000	ARCALUB-X.HOSE-PA12-10M	21A2
		50				085842109-0000	ARCALUB-X.HOSE-PA12-50M	21A3
8	5	5	PA6.6, black	45	103	083788573-0000	ARCALUB-X.HOSE-PA66-5M	21A4
		10				083788581-0000	ARCALUB-X.HOSE-PA66-10M	21A5
		50				083788603-0000	ARCALUB-X.HOSE-PA66-50M	21A6

¹⁾ Permissible operating temperature -20 °C to +80 °C

66 Tubing and hose lines, max. 60 bar: Product group B

D ₁	D ₂	L	Material	R _{min}	Burst pressure at 70 °C ²⁾	Ordering number	Ordering designation	Info
mm	mm	m		mm	bar			
8	6	5	PA12H, transparent	50	60	095285750-0000	ARCALUB-C1.HOSE-8X6-PA12-5M	21A7

²⁾ Permissible operating temperature -40 °C to +90 °C

67 High-pressure hoses, max. 250 bar: Product group C

D ₁	D ₂	L	Material	R _{min}	Burst pressure at 70 °C ³⁾	Ordering number	Ordering designation	Info
mm	mm	m		mm	bar			
8,6	4,1	25	PA6, PES, PU, black	60	250	301751056-0000	ARCALUB-X.TUBE-8.6/4.1-HP-25M	21A8

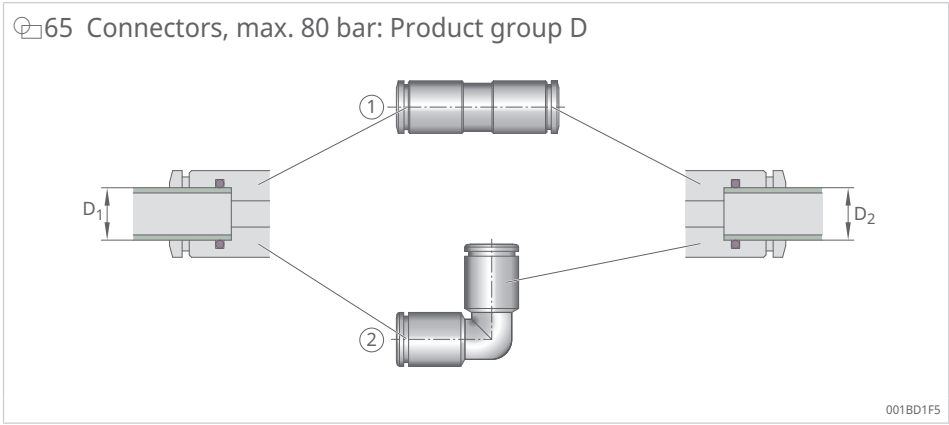
³⁾ Permissible operating temperature -40 °C to +100 °C

8.3 Fittings

8.3.1 Connectors

Connectors with different inlet and outlet diameters allow a change in tube dimension and in direction.

65 Connectors, max. 80 bar: Product group D



8

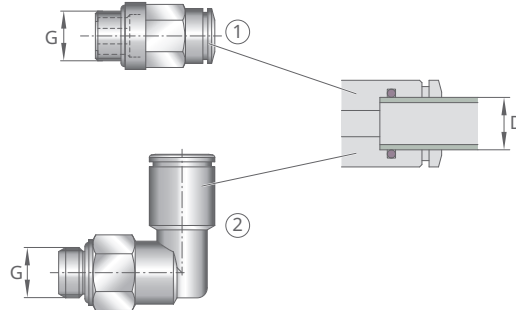
68 Connectors, max. 80 bar: Product group D

No.	D ₁ mm	D ₂ mm	Ordering num- ber	Ordering designation	Info
1	4	4	095770887-0000	ARCALUB-X.CONNECT-4-4	21A9
	6	4	093040717-0000	ARCALUB-X.CONNECT-6-4	21AA
	6	6	083867112-0000	ARCALUB-X.CONNECT-6-6	21AB
	8	6	083867279-0000	ARCALUB-X.CONNECT-8-6	21AC
	8	8	083867309-0000	ARCALUB-X.CONNECT-8-8	21AD
2	4	4	095770895-0000	ARCALUB-X.CONNECT-4-4-W	21AE
	6	6	088902250-0000	ARCALUB-X.CONNECT-6-6-W	21AF

8.3.2 Screw-in connectors

Screw-in connectors with different inlet threads and outlet diameters allow a change in tube dimension and in direction.

66 Screw-in connectors, max. 80 bar: Product group E

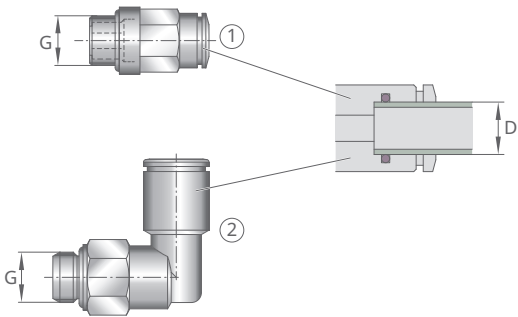


001BE2E6

69 Screw-in connectors, max. 80 bar: Product group E

No.	D	G	Ordering number	Ordering designation	Info
	mm	-			
1	4	M3×0,5	093041390-0000	ARCALUB-X.TUBEFIT-M3-SAT034G-S	21B0
		M6×1	095777636-0000	ARCALUB-X.TUBEFIT-M6-SAT064G	21B1
		M10×1	095777911-0000	ARCALUB-X.TUBEFIT-M10X1-SAT104G	21B2
	6	M5×0,8	077937490-0000	ARCALUB-X.TUBEFIT-M5-SAT056G	21B3
		M6×1	075527472-0000	ARCALUB-X.TUBEFIT-M6-SAT066G	21B4
		M8×1	079567428-0000	ARCALUB-X.TUBEFIT-M8X1-SAT086G	21B5
		M10×1	075527626-0000	ARCALUB-X.TUBEFIT-M10X1-SAT106G	21B6
		G 1/8"	084465905-0000	ARCALUB-X.TUBEFIT-G1/8-SAT186G	21B7
		G 1/4"	079567606-0000	ARCALUB-X.TUBEFIT-G1/4-SAT146G	21B8
	8	M8×1	083654216-0000	ARCALUB-X.TUBEFIT-M8X1-SAT088G	21B9
		M10×1	083654356-0000	ARCALUB-X.TUBEFIT-M10X1-SAT108G	21F4
		G 1/8"	083654534-0000	ARCALUB-X.TUBEFIT-G1/8-SAT188G	21BA
2	4	M6×1	095777644-0000	ARCALUB-X.TUBEFIT-M6-SAT064W	21BC
		M10×1	095777954-0000	ARCALUB-X.TUBEFIT-M10X1-SAT104W	21BD
	6	M5×0,8	079567401-0000	ARCALUB-X.TUBEFIT-M5-SAT056W	21BE
		M6×1	075676621-0000	ARCALUB-X.TUBEFIT-M6-SAT066W	21BF
		M8×1	079567584-0000	ARCALUB-X.TUBEFIT-M8X1-SAT086W	21C0
		M10×1	076968553-0000	ARCALUB-X.TUBEFIT-M10X1-SAT106W	21C1
		G 1/8"	084465964-0000	ARCALUB-X.TUBEFIT-G1/8-SAT186W	21C2
		G 1/4"	079567622-0000	ARCALUB-X.TUBEFIT-G1/4-SAT146W	21C3
	8	M8×1	083654275-0000	ARCALUB-X.TUBEFIT-M8X1-SAT088W	21C4
		M10×1	083654402-0000	ARCALUB-X.TUBEFIT-M10X1-SAT108W	21C5
		G 1/8"	083654577-0000	ARCALUB-X.TUBEFIT-G1/8-SAT188W	21C6
		G 1/4"	083654623-0000	ARCALUB-X.TUBEFIT-G1/4-SAT148W	21C7

67 Screw-in connectors for high-pressure hoses, max. 150 bar: Product group F



001BE2E6

70 Screw-in connectors for high-pressure hoses, max. 150 bar: Product group F

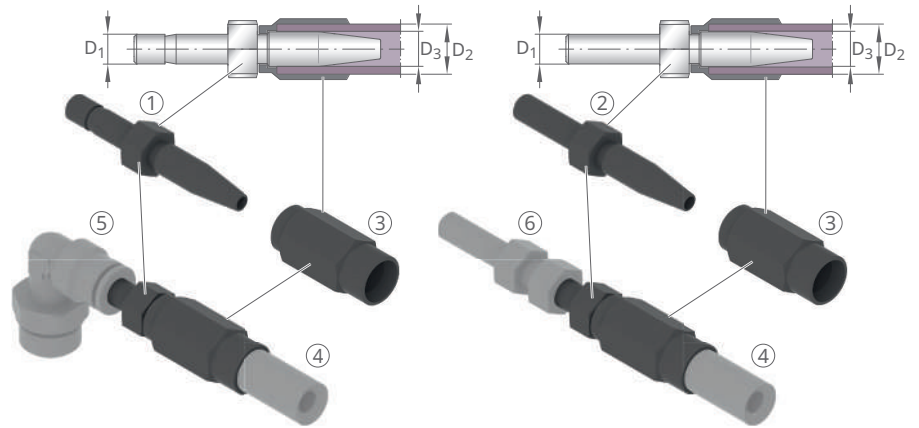
No.	D mm	G -	Ordering num- ber	Ordering designation	Info
1	4	M6×1	301470723-0000	ARCALUB-X.TUBEFIT-4-M6X1-S-MP	21C8
	6	M6×1	301470740-0000	ARCALUB-X.TUBEFIT-6-M6X1-S-MP	21C9
		M8×1	301470766-0000	ARCALUB-X.TUBEFIT-6-M8X1-S-MP	21CA
		M10×1	301470464-0000	ARCALUB-X.TUBEFIT-6-M10X1-S-MP	21CB
		G 1/8"	301470782-0000	ARCALUB-X.TUBEFIT-6-G1/8-S-MP	21CC
		G 1/4"	301470480-0000	ARCALUB-X.TUBEFIT-6-G1/4-S-MP	21CD
2	4	M6×1	301741573-0000	ARCALUB-X.TUBEFIT-4-M6X1-A-MP	21CE
	6	M10×1	301470510-0000	ARCALUB-X.TUBEFIT-4-M10X1-A-MP	21CF
		M6×1	301470758-0000	ARCALUB-X.TUBEFIT-6-M6X1-A-MP	21D0
		M8×1	301470774-0000	ARCALUB-X.TUBEFIT-6-M8X1-A-MP	21D1
		M10×1	301470472-0000	ARCALUB-X.TUBEFIT-6-M10X1-A-MP	21D2
		G 1/8"	301470790-0000	ARCALUB-X.TUBEFIT-6-G1/8-A-MP	21D3
		G 1/4"	301470499-0000	ARCALUB-X.TUBEFIT-6-G1/4-A-MP	21D4

8.3.3 Screw fittings for high-pressure hoses

Screw fittings allow the connection of high-pressure hoses with screw-in connectors or a cutting ring fitting.

The screw fittings consist of a screw sleeve and a tube nozzle. The tube nozzle can be designed with or without a claw groove.

68 Screw fittings for high-pressure hoses, product group G



001C40FD

1	Tube nozzle with claw groove	2	Tube nozzle without claw groove
3	Screw sleeve	4	High-pressure hose [► 71]
5	Screw-in connector up to 150 bar [► 74]	6	Customer-supplied pipework with cutting ring fitting

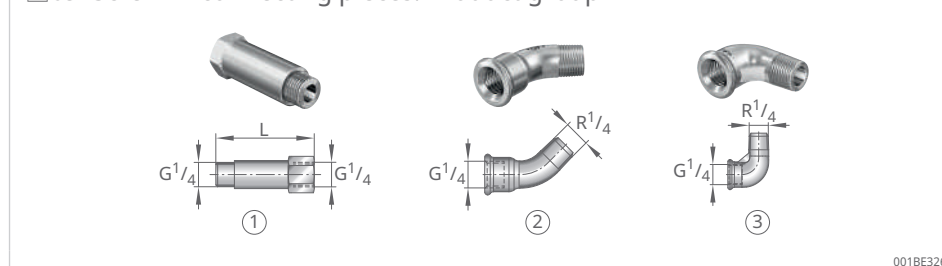
71 Screw fittings for high-pressure hoses, max. 250 bar: Product group G

No.	D ₁ mm	D ₂ mm	D ₃ mm	Ordering number	Ordering designation	Info
1	6	8,6	4,1	305501100-0000	ARCALUB-X.STUD-TUBE-6-CG-53MM	21D5
2	6	8,6	4,1	301470456-0000	ARCALUB-X.STUD-TUBE-6-51MM	21D6
3	–	8,6	4,1	301470804-0000	ARCALUB-X.SCREW-SLEEVE-8.6/4.1	21D7

8.3.4 Screw-in connecting pieces

Screw-in connecting pieces are screwed into place between the lubricator and the lubrication point when direct connection is not possible due to the adjacent construction.

69 Screw-in connecting pieces: Product group H



0018E326

72 Screw-in connecting pieces: Product group H

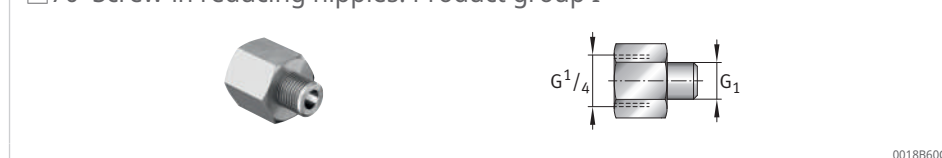
No.	Angle °	L mm	Ordering number	Ordering designation	Info
1	–	35	095285725-0000	ARCALUB-C1.EXTEND-35MM-G1/4	21D8
	–	50	095285733-0000	ARCALUB-C1.EXTEND-50MM-G1/4	21D9
2	45	10	095285393-0000	ARCALUB-C1.CONNECT-45-G1/4-IA	21DA
3	90	10	095285407-0000	ARCALUB-C1.CONNECT-90-G1/4-IA	21DB

8.3.5 Screw-in reducing nipples

Screw-in 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 $G \frac{1}{4}$ ", 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 with this accordingly.

70 Screw-in reducing nipples: Product group I



0018B60C

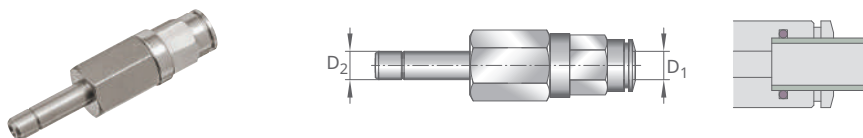
73 Screw-in reducing nipples: Product group I

G ₁	Ordering number	Ordering designation	Info
G $\frac{1}{8}$ "	095285792-0000	ARCALUB-C1.NIPPLE-G1/8-G1/4	21DC
G $\frac{1}{4}$ "	095285784-0000	ARCALUB-C1.NIPPLE-G1/4-G1/4	21DD
G $\frac{3}{8}$ "	095285806-0000	ARCALUB-C1.NIPPLE-G3/8-G1/4	21DE
M6	095286071-0000	ARCALUB-C1.NIPPLE-M6-G1/4	21DF
M8	095286080-0000	ARCALUB-C1.NIPPLE-M8-G1/4	21E0
M8×1	095301585-0000	ARCALUB-C1.NIPPLE-M8X1-G1/4	21E1
M10	095286101-0000	ARCALUB-C1.NIPPLE-M10-G1/4	21E2
M10×1	095286721-0000	ARCALUB-C1.NIPPLE-M10X1-G1/4	21E3
M12	095286730-0000	ARCALUB-C1.NIPPLE-M12-G1/4	21E4
M12×1,5	095286748-0000	ARCALUB-C1.NIPPLE-M12X1,5-G1/4	21E5
UNF $\frac{1}{4}$	095286756-0000	ARCALUB-C1.NIPPLE-UNF1/4-G1/4	21E6

8.3.6 Oil non-return valves

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

 71 Push-in oil non-return valve: Product group K



001BE336

 74 Push-in oil non-return valve: Product group K

D ₁ mm	D ₂ mm	Ordering number	Ordering designation	Info
6	6	092927122-0000	ARCALUB-X.OIL-VALVE-SAT106G	21E7

 72 Screw-in oil non-return valve: Product group J



001C3EB4

 75 Screw-in oil non-return valve: Product group J

Ordering number	Ordering designation	Info
095287515-0000	ARCALUB-C1.CONNECT-OIL-VALVE-G1/4	21E8

8.4 Sub-distributors

8.4.1 Splitters

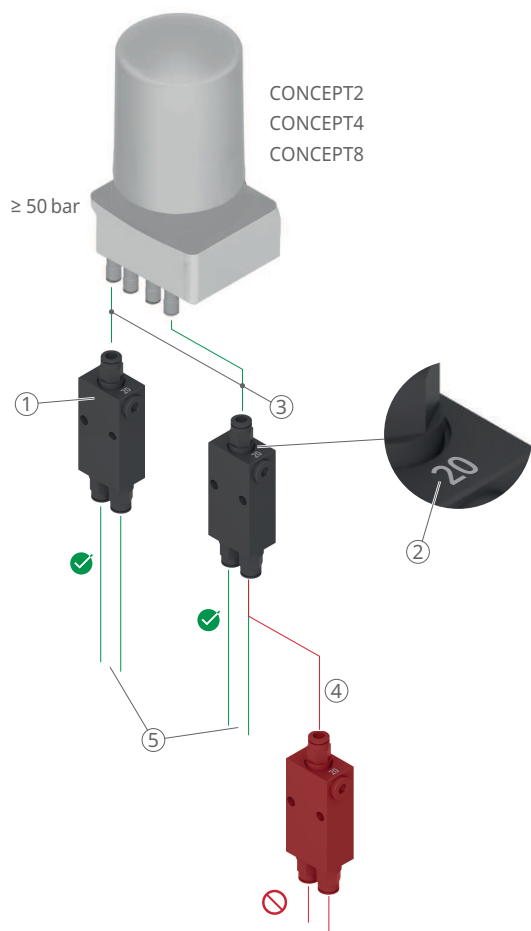
Splitters distribute a delivery volume to 2 outlets in uniform volumes.

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.

The choke gap size is dependent on the lubricant. The size of the gap is identifiable from the engraving at the splitter inlet:

- Grease: 20 corresponds to a choke gap size of 0,20 mm
- Oil: 0,5 corresponds to a choke gap size of 0,005 mm

73 Splitter with hydraulic schematic



001C4127

1	Splitters	2	Choke gap engraving
3	max. length 0,3m	4	Cascading not permitted
5	Identical line cross-sections, max. length difference of the outgoing lubricant lines		

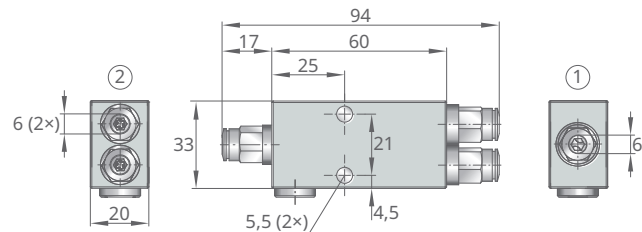
76 Splitters

Type	Ordering number	Ordering designation	Info
Grease	081307497-0000	ARCALUB-X.SPLITTER-2X-STRAIGHT-GREASE	21E9
Oil	074969218-0000	ARCALUB-X.SPLITTER-2X-STRAIGHT-OIL	21EA



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

74 Dimensions



001BE346

1 Inlet 2 Outlets

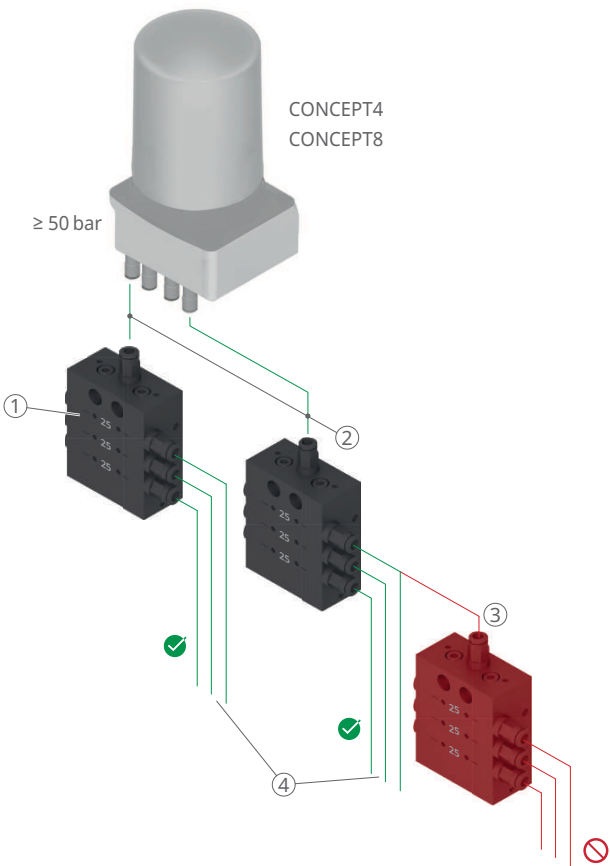
77 Technical data

Feature		Value
Operating pressure	required	> 18 bar
	max.	100 bar
Operating temperature	min.	+10 °C
	max.	+80 °C
NLGI grade grease (no solid content)	min.	000
	max.	2
Oil viscosity	min.	68 cSt
	max.	150 cSt
Metering accuracy with correct operation		±10 %
Housing material		Aluminium
Installed screw-in connector ➤73 69		ARCALUB-X.TUBEFIT-G1/8-SAT186G

8.4.2 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.

75 Progressive distributor



001C4135

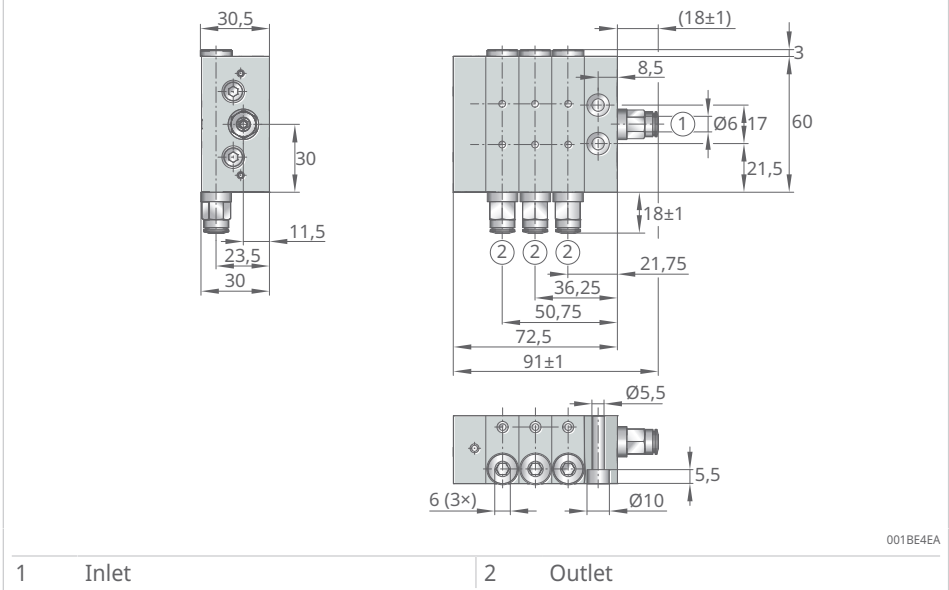
1	Progressive distributor	2	max. length 0,3m
3	Cascading not permitted	4	Identical line cross-sections, max. length difference of the outgoing lubricant lines

78 Progressive distributor

Type	Ordering number	Ordering designation	Info
Grease, oil	093204060-0000	ARCALUB-X.PROGDIV-3X-RIGHT-0.05CCM	21EB

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

76 Dimensions



79 Technical data

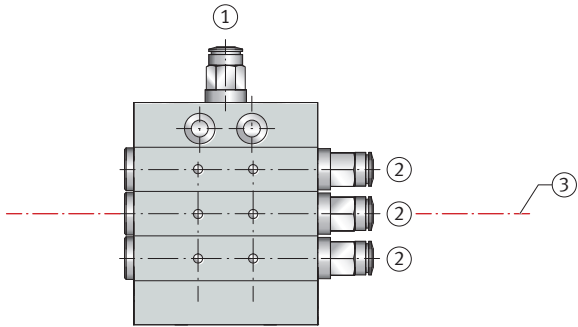
Feature		Value
Operating pressure	required	> 10 bar
	max.	100 bar
Operating temperature	min.	+20 °C
	max.	+70 °C
NLGI grade grease (no solid content)	min.	000
	max.	2
Oil viscosity	min.	68 cSt
Metering volume per cycle/outlet		0,025 cm ³
Metering accuracy with correct operation		±10 %
Housing material		Aluminium
Installed screw-in connector ➤73 69		ARCALUB-X.TUBEFIT-G1/8-SAT186G

Mounting regulations

For proper functioning, the progressive distributor must only be mounted on a flat surface; otherwise stresses may cause the control pistons to jam.

! In all applications with oil lubrication, the progressive distributor must be mounted such that the control pistons are in a horizontal position. Otherwise, gap losses and the influence of gravity can lead to descent of the control pistons.

77 Alignment of the progressive distributor in mounting



000B0473

1	Inlet	2	Outlet
3	Horizontal position of control pistons		

8.5 Tools

8.5.1 Tube/hose cutter for lubricant lines

The use of a special tube/hose cutter ensures a secure and pressure-tight connection of the lubricant line.

The tool is suitable for cutting both plastic tubes and high-pressure hoses ►70 | 8.2.

78 Tube/hose cutter

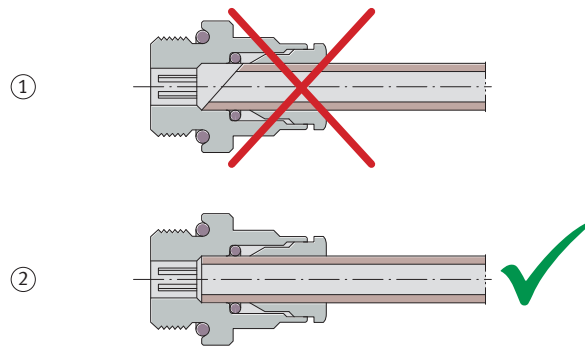


0018F139

80 Tube/hose cutter

Ordering number	Ordering designation	Info
083788620-0000	ARCALUB-X.HOSE-CUTTOOL	21EC ↗

79 Secure connection by means of tube/hose cutter



0018F190

1 Without tube/hose cutter

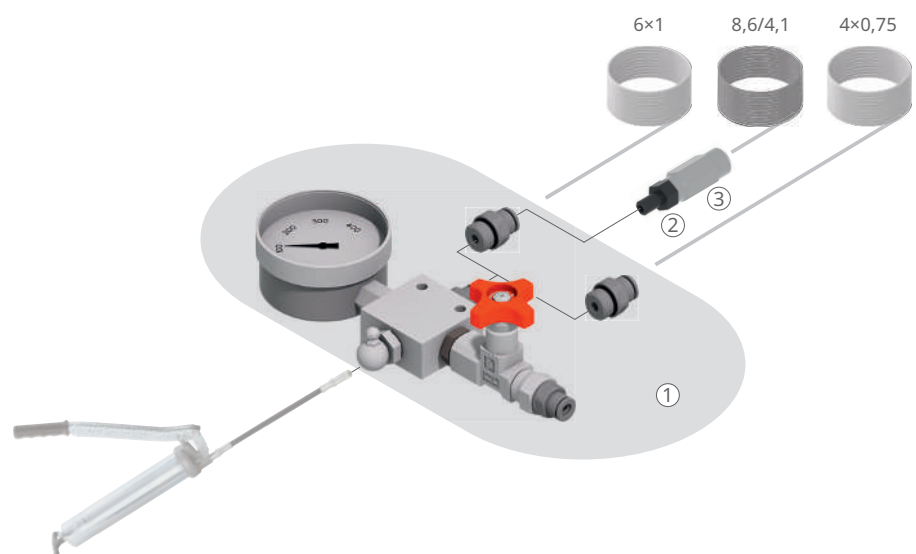
2 With tube/hose cutter

8

8.5.2 Filling fitting for lubricant lines

The filling fitting allows monitoring of the maximum permissible filling pressure of the respective lubricant line. The integrated relief valve enables pressure release after filling and thus allows easy disconnection of the now depressurised lubricant line.

80 Filling fitting for lubricant lines



001C411D

1 Filling fitting with interchangeable screw-in connectors

2 Required tube nozzles for filling high-pressure hoses [► 75]

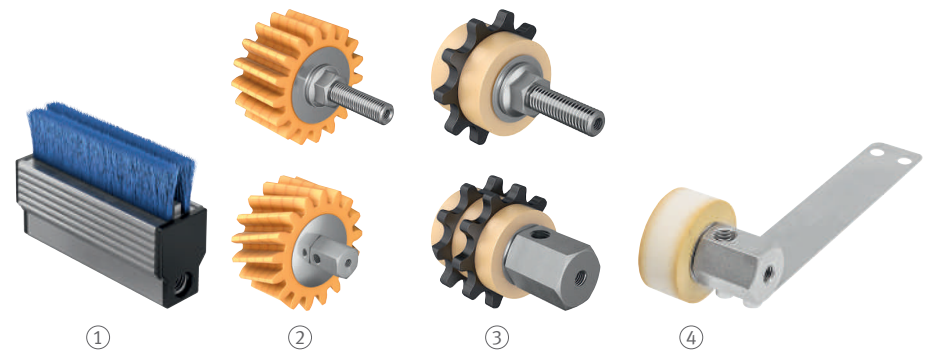
3 Required screw sleeve for filling high-pressure hoses [► 75]

81 Filling fitting for lubricant lines

No.	Ordering number	Ordering designation	Info
1	301470731-0000	ARCALUB-X.ARMATUR-FIL-6/4-KIT	21ED
2	305501100-0000	ARCALUB-X.STUD-TUBE-6-CG-53MM	21D5
3	301470804-0000	ARCALUB-X.SCREW-SLEEVE-8.6/4.1	21D7

9 Lubricant application

81 Lubricant application



001BE53D

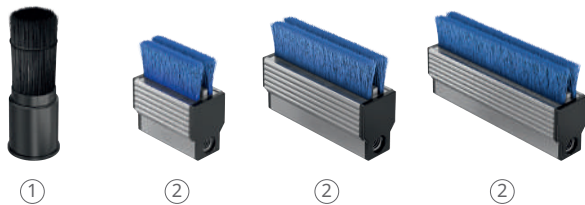
1	Brushes [► 84]	2	Lubrication gears [► 85]
3	Chain lubrication pinions [► 89]	4	Lubrication rollers [► 92]

9.1 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 2 rows of bristles, which ensures that the lubricating oil is evenly distributed over the entire width of the brush.

82 Brushes



001C45E0

1	Round	2	Food-grade
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82 Brushes

No.	Diameter, length mm	Ordering number	Ordering designation	Info
1	25	095285334-0000	ARCALUB-C1.BRUSH-25MM-G1/4-G	214B
2	40	095285342-0000	ARCALUB-C1.BRUSH-40MM-G1/4-G	214C
	70	095285350-0000	ARCALUB-C1.BRUSH-70MM-G1/4-G	214D
	100	095285369-0000	ARCALUB-C1.BRUSH-100MM-G1/4-G	214E

9.2 Lubrication gears

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. The lubrication gear transfers the lubricant to the tooth set in contact. There is no transmission of force or torque.

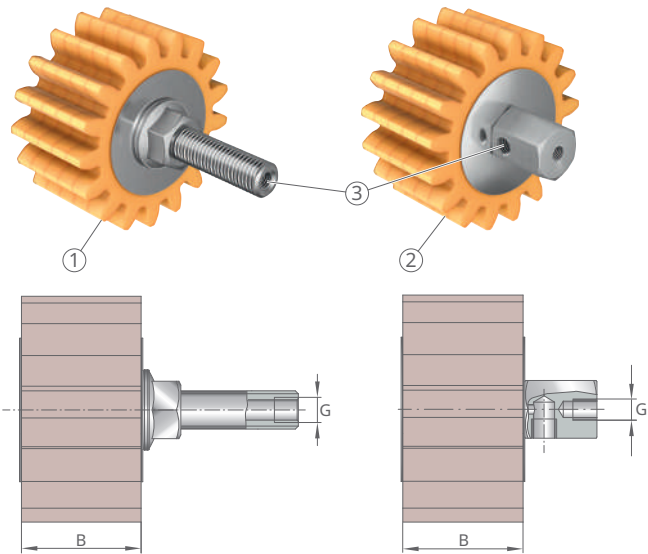
In all versions, integrated grooves ensure that the lubricant is transported from the hollow axle to the gear tooth surface.

 83 Technical data

Feature		Value
Material		PU foam, open-cell
Operating temperature		-30 °C to +140 °C
Circumferential vel- ocity	max.	5 m/s
Grease	Lubricant class	up to NLGI 3
Oil	Viscosity	> 68 cSt
Design variants		Spur-toothed
		Helical-toothed, left-hand
		Helical-toothed, right-hand

9.2.1 Spur-toothed

83 Lubrication gear, spur-toothed



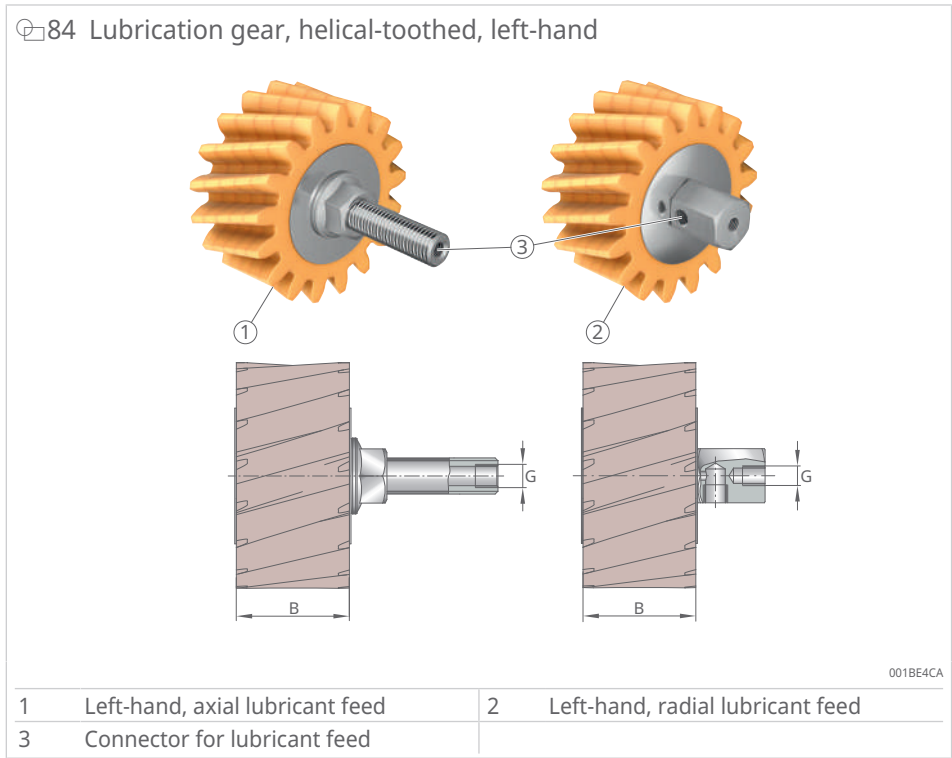
001BE4BA

1	Spur-toothed, axial lubricant feed	2	Spur-toothed, radial lubricant feed
3	Connector for lubricant feed		

84 Lubrication gear, spur-toothed

No.	G	B	Module	Ordering number	Ordering designation	Info
	-	mm	mm			
1	M6	15	1,5	093283016-0000	ARCALUB-X.PINION-MD1,5-Z24-B15-G-G	214F
	M6	20	2	093283032-0000	ARCALUB-X.PINION-MD2,0-Z17-B20-G-G	2150
	M6	30	3	093283059-0000	ARCALUB-X.PINION-MD3,0-Z17-B30-G-G	2151
	M6	40	4	093283075-0000	ARCALUB-X.PINION-MD4,0-Z17-B40-G-G	2152
	M10×1	50	5	093283091-0000	ARCALUB-X.PINION-MD5,0-Z17-B50-G-G	2153
	M10×1	60	6	093283113-0000	ARCALUB-X.PINION-MD6,0-Z17-B60-G-G	2154
	M10×1	80	8	093283130-0000	ARCALUB-X.PINION-MD8,0-Z17-B80-G-G	2155
	M10×1	100	10	093283156-0000	ARCALUB-X.PINION-MD10,0-Z17-B100-G-G	2156
2	M10×1	15	1,5	093283024-0000	ARCALUB-X.PINION-MD1,5-Z24-B15-G-W	2157
	M10×1	20	2	093283040-0000	ARCALUB-X.PINION-MD2,0-Z17-B20-G-W	2158
	M10×1	30	3	093283067-0000	ARCALUB-X.PINION-MD3,0-Z17-B30-G-W	2159
	M10×1	40	4	093283083-0000	ARCALUB-X.PINION-MD4,0-Z17-B40-G-W	215A
	M10×1	50	5	093283105-0000	ARCALUB-X.PINION-MD5,0-Z17-B50-G-W	215B
	M10×1	60	6	093283121-0000	ARCALUB-X.PINION-MD6,0-Z17-B60-G-W	215C
	M10×1	80	8	093283148-0000	ARCALUB-X.PINION-MD8,0-Z17-B80-G-W	215D
	M10×1	100	10	093283164-0000	ARCALUB-X.PINION-MD10,0-Z17-B100-G-W	215E

9.2.2 Helical-toothed, left-hand



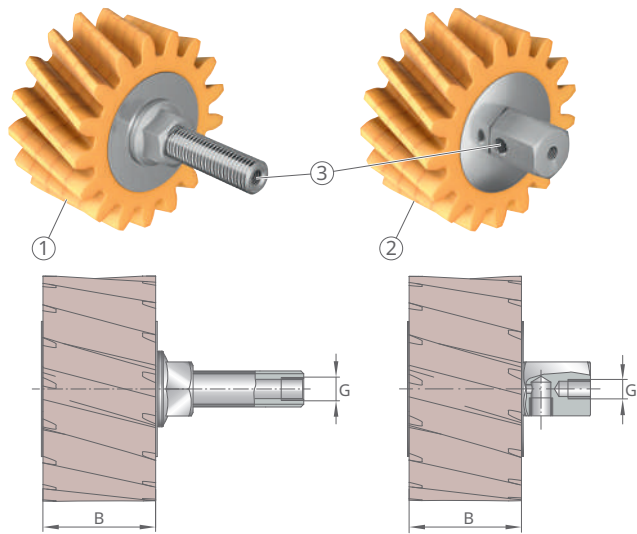
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85 Lubrication gear, helical-toothed, left-hand

No.	G	B	Module	Ordering number	Ordering designation	Info
	-	mm	mm			
1	M6	15	1,5	093283334-0000	ARCALUB-X.PINION-MD1,5-Z24-B15-SL-G	215F
	M6	20	2	093283350-0000	ARCALUB-X.PINION-MD2,0-Z17-B20-SL-G	2160
	M6	30	3	093283377-0000	ARCALUB-X.PINION-MD3,0-Z17-B30-SL-G	2161
	M6	40	4	093283393-0000	ARCALUB-X.PINION-MD4,0-Z17-B40-SL-G	2162
	M10×1	50	5	093283415-0000	ARCALUB-X.PINION-MD5,0-Z17-B50-SL-G	2163
	M10×1	60	6	093283431-0000	ARCALUB-X.PINION-MD6,0-Z17-B60-SL-G	2164
	M10×1	80	8	093283458-0000	ARCALUB-X.PINION-MD8,0-Z17-B80-SL-G	2165
	M10×1	100	10	093283474-0000	ARCALUB-X.PINION-MD10,0-Z17-B100-SL-G	2166
2	M10×1	15	1,5	093283342-0000	ARCALUB-X.PINION-MD1,5-Z24-B15-SL-W	2167
	M10×1	20	2	093283369-0000	ARCALUB-X.PINION-MD2,0-Z17-B20-SL-W	2168
	M10×1	30	3	093283385-0000	ARCALUB-X.PINION-MD3,0-Z17-B30-SL-W	2169
	M10×1	40	4	093283407-0000	ARCALUB-X.PINION-MD4,0-Z17-B40-SL-W	216A
	M10×1	50	5	093283423-0000	ARCALUB-X.PINION-MD5,0-Z17-B50-SL-W	216B
	M10×1	60	6	093283440-0000	ARCALUB-X.PINION-MD6,0-Z17-B60-SL-W	216C
	M10×1	80	8	093283466-0000	ARCALUB-X.PINION-MD8,0-Z17-B80-SL-W	216D
	M10×1	100	10	093283482-0000	ARCALUB-X.PINION-MD10,0-Z17-B100-SL-W	216E

9.2.3 Helical-toothed, right-hand

85 Lubrication gear, helical-toothed, right-hand



001BE4DA

1	Right-hand, axial lubricant feed	2	Right-hand, radial lubricant feed
3	Connector for lubricant feed		

86 Lubrication gear, helical-toothed, right-hand

No.	G	B	Module	Ordering number	Ordering designation	Info
	-	mm	mm			
1	M6	24	1,5	093283172-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SR-G	216F
	M6	17	2	093283199-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SR-G	2170
	M6	17	3	093283210-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SR-G	2171
	M6	17	4	093283237-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SR-G	2172
	M10×1	17	5	093283253-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SR-G	2173
	M10×1	17	6	093283270-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SR-G	2174
	M10×1	17	8	093283296-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SR-G	2175
	M10×1	17	10	093283318-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SR-G	2176
2	M10×1	24	1,5	093283180-0000-10	ARCALUB-X.PINION-MD1,5-Z24-B15-SR-W	2177
	M10×1	17	2	093283202-0000-10	ARCALUB-X.PINION-MD2,0-Z17-B20-SR-W	2178
	M10×1	17	3	093283229-0000-10	ARCALUB-X.PINION-MD3,0-Z17-B30-SR-W	2179
	M10×1	17	4	093283245-0000-10	ARCALUB-X.PINION-MD4,0-Z17-B40-SR-W	217A
	M10×1	17	5	093283261-0000-10	ARCALUB-X.PINION-MD5,0-Z17-B50-SR-W	217B
	M10×1	17	6	093283288-0000-10	ARCALUB-X.PINION-MD6,0-Z17-B60-SR-W	217C
	M10×1	17	8	093283300-0000-10	ARCALUB-X.PINION-MD8,0-Z17-B80-SR-W	217D
	M10×1	17	10	093283326-0000-10	ARCALUB-X.PINION-MD10,0-Z17-B100-SR-W	217E

9.3 Chain lubrication pinions

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

The rollers transfer very small quantities of oil to the highest points on the chain links. From there, the oil penetrates between the links and reaches the critical lubrication points between the pins and sleeves.

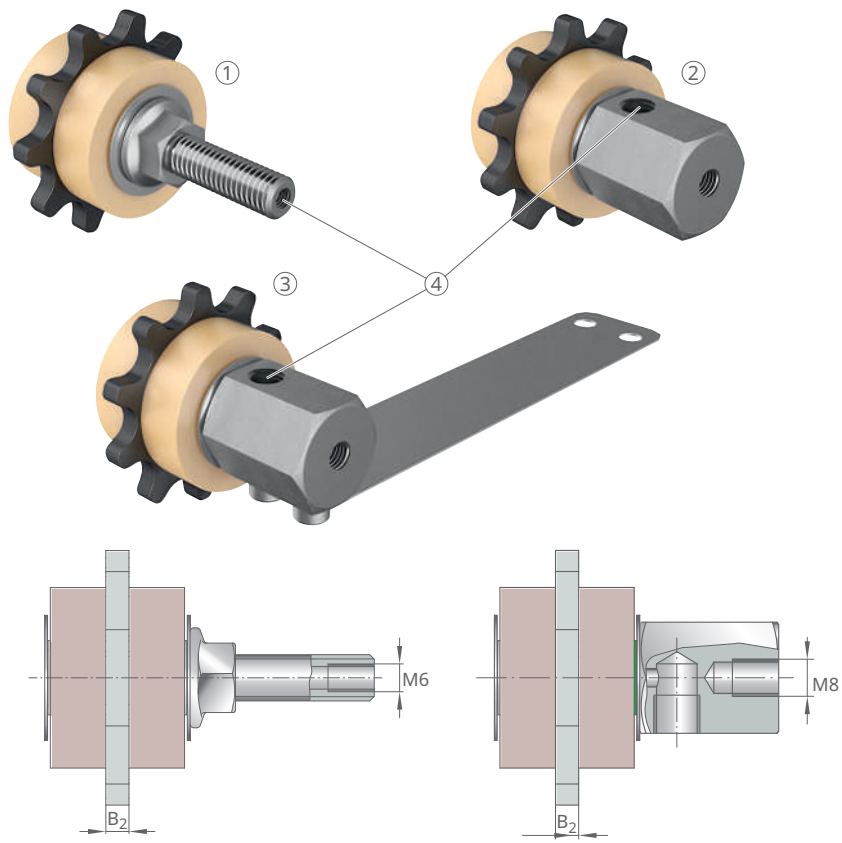
The chain pinions transmit the force required to drive the rollers. Despite the non-uniform surface of the chain links, the chain lubrication pinion can run very smoothly even at high speeds.

 87 Technical data

Feature		Value
Material	Pinion	Plastic
	Roller	PU foam, open-cell
Operating temperature		0 °C to +60 °C
Circumferential velocity	max.	7 m/s
Oil	Viscosity	> 68 cSt
Design variants		Simplex
		Duplex

9.3.1 Simplex

86 Chain lubrication pinions, simplex



0018E47A

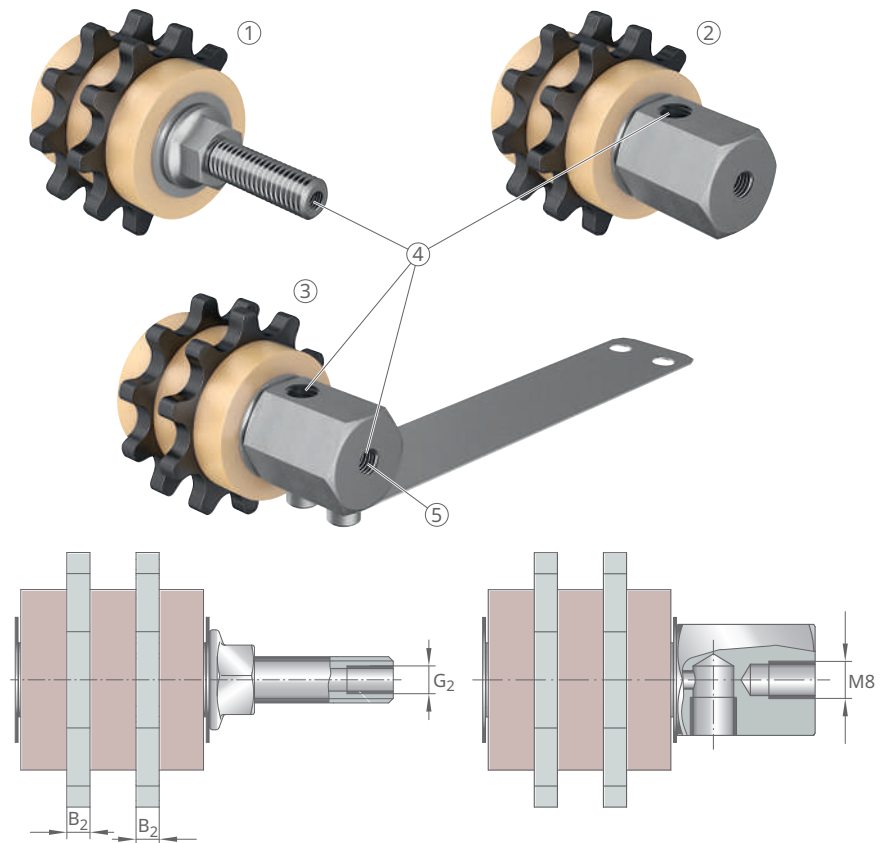
1	Simplex, axial lubricant feed	2	Simplex, radial lubricant feed
3	Simplex, radial lubricant feed and spring plate	4	Connector for lubricant feed

88 Chain lubrication pinions, simplex

No.	Chain type according to ISO 606	Ordering number	Ordering designation	Info
1	08 A/B-1	093283490-0000	ARCALUB-X.CHAIN-PINION-08AB1-Z12-G	217F
	10 A/B-1	093283547-0000	ARCALUB-X.CHAIN-PINION-10AB1-Z10-G	2180
	12 B-1	093283601-0000	ARCALUB-X.CHAIN-PINION-12B1-Z8-G	2181
	16 B-1	093283652-0000	ARCALUB-X.CHAIN-PINION-16B1-Z8-G	2182
2	08 A/B-1	093283504-0000	ARCALUB-X.CHAIN-PINION-08AB1-Z12-W	2183
	10 A/B-1	093283555-0000	ARCALUB-X.CHAIN-PINION-10AB1-Z10-W	2184
	12 B-1	093283610-0000	ARCALUB-X.CHAIN-PINION-12B1-Z8-W	2185
	16 B-1	093283660-0000	ARCALUB-X.CHAIN-PINION-16B1-Z8-W	2186
3	08 A/B-1	093283512-0000	ARCALUB-X.CHAIN-PINION-08AB1-Z12-WF	2187
	10 A/B-1	093283563-0000	ARCALUB-X.CHAIN-PINION-10AB1-Z10-WF	2188
	16 B-1	093283679-0000	ARCALUB-X.CHAIN-PINION-16B1-Z8-WF	2189

9.3.2 Duplex

87 Chain lubrication pinions, duplex



001BE376

1	Duplex, axial lubricant feed	2	Duplex, radial lubricant feed
3	Duplex, radial lubricant feed and spring plate	4	Connector for lubricant feed
5	Duplex, axial lubricant feed and double spring plate		

89 Chain lubrication pinions, duplex

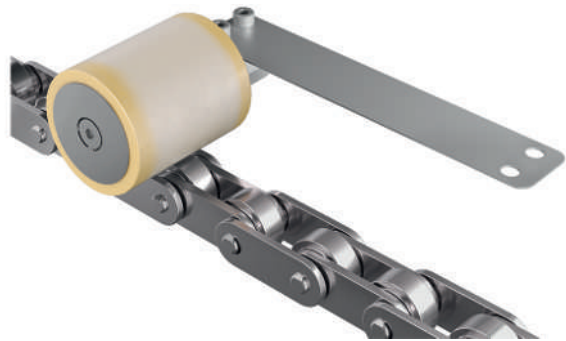
No.	Chain type according to ISO 606	Ordering number	Ordering designation	Info
1	08 A/B-1	093283520-0000	ARCALUB-X.CHAIN-PINION-08AB2-Z12-G	218A
	10 A/B-1	093283571-0000	ARCALUB-X.CHAIN-PINION-10AB2-Z10-G	218B
	12 B-1	093283628-0000	ARCALUB-X.CHAIN-PINION-12B2-Z8-G	218C
	16 B-1	093283687-0000	ARCALUB-X.CHAIN-PINION-16B2-Z8-G	218D
2	08 A/B-1	093283539-0000	ARCALUB-X.CHAIN-PINION-08AB2-Z12-W	218E
	10 A/B-1	093283580-0000	ARCALUB-X.CHAIN-PINION-10AB2-Z10-W	218F
	12 B-1	093283636-0000	ARCALUB-X.CHAIN-PINION-12B2-Z8-W	2190
	16 B-1	093283695-0000	ARCALUB-X.CHAIN-PINION-16B2-Z8-W	2191
3	08 A/B-1	093283598-0000	ARCALUB-X.CHAIN-PINION-10AB2-Z10-WF	2192
	10 A/B-1	093283644-0000	ARCALUB-X.CHAIN-PINION-12B2-Z8-WF	2193
4	16 B-1	093283709-0000	ARCALUB-X.CHAIN-PINION-16B2-Z8-WF	2194

9.4 Lubrication rollers

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

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

88 Lubrication of a roller chain by means of a lubrication roller

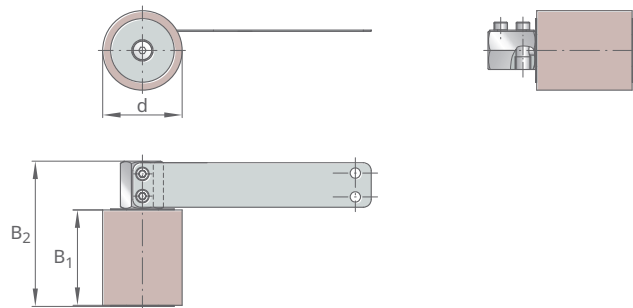


001C4564

90 Technical data

Feature		Value
Material		PU foam, open-cell
Operating temperature		-30 °C to +140 °C
Circumferential velocity	max.	5 m/s
Oil	Viscosity	> 68 cSt

89 Lubrication roller dimensions



001C3ECD

91 Lubrication rollers

d	B ₁	B ₂	Ordering number	Ordering designation	Info
mm	mm	mm			
30	45	76,4	093283717-0000	ARCALUB-X.ROLE-D30-B45-WF	2195
40	30	61,4	093283725-0000	ARCALUB-X.ROLE-D40-B30-WF	2196
50	40	71,4	093283733-0000	ARCALUB-X.ROLE-D50-B40-WF	2197
50	60	91,4	093283741-0000	ARCALUB-X.ROLE-D50-B60-WF	2198
60	45	76,4	093283750-0000	ARCALUB-X.ROLE-D60-B45-WF	2199

10 Manual lubrication tools

10.1 Lever grease guns

90 Lever grease guns



001BE51D

1 ARCA-GREASE-GUN

2 ARCA-FILL-GUN-N

10

10.1.1 ARCA-GREASE-GUN

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

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.

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.

91 Lever grease gun



000B432E

92 Lever grease gun

Ordering number	Ordering designation	Info
039064115-0000	ARCA-GREASE-GUN	2051 Info

93 Technical data

Feature		Value
Material		Steel, zinc-coated
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		approx. 1,9 cm ³ /Hub
Dimensions	Outside diameter	56 mm
	Inside diameter	54 mm
	Length	296 mm
Threaded connector		G 1/8"

10.1.2 ARCA-FILL-GUN-N

The ARCA-FILL-GUN-N grease gun can be used to fill the lubricator. This can be equipped with 400 g Arcanol grease cartridges.

The adapter ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4 is needed in order to fill the CONCEPT1 lubricator ➤22 | 20.

92 Grease gun



94 Grease gun

Ordering number	Ordering designation	Info
301253641-0000	ARCA-FILL-GUN-N	2054 ↗

95 Technical data

Feature		Value
Material		Steel, zinc-coated
Fill quantity	Grease cartridge	400 g (up to NLGI 3)
Operating pressure		10 bar
Delivery rate		12 g/Hub
Dimensions	Outside diameter	56 mm
	Inside diameter	54 mm
	Length	273 mm
Threaded connector		R 1/4"

10.1.3 Ordering examples

Schaeffler recommends using hose type ARCA-GREASE-GUN.HOSE with optional clamping nozzle ARCA-PUMP-BARREL.FIT-CLAMP-N or a hose with slide coupling ARCA-GREASE-GUN.HOOK-ON-HOSE when using the ARCA-GREASE-GUN.

Ordering example

93 Ordering example



001A7682

1	Lever grease gun	2	Hose with push coupling
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10

96 Ordering example: CONCEPT4

No.	Qty	Ordering number	Ordering designation	Info
1	1	039064115-0000	ARCA-GREASE-GUN	2051
2	1	039064123-0000	ARCA-GREASE-GUN.HOSE	2052

10.1.4 Type-specific accessories and spare parts

10.1.4.1 Clamping nozzle

94 Clamping nozzle



001A5D31

The hydraulic clamping nozzle ARCA-PUMP-BARREL.FIT-CLAMP-N is used for lubrication via taper type lubrication nipples in accordance with DIN 71412.

97 Clamping nozzle

Ordering number	Ordering designation	Info
301253650-0000	ARCA-PUMP-BARREL.FIT-CLAMP-N	2063

The ARCA-PUMP-BARREL.FIT-CLAMP-N has a hardened 4 jaw nozzle made of tool steel, which prevents it from slipping off the lubrication nipple. Decoupling from the lubrication nipple is possible up to a pressure of 600 bar courtesy of the high-performance hydraulic seal.

The clamping nozzle can only be used in combination with a hose ➤96 | 99.

98 Technical data

Feature	Value
Threaded connector	R 1/8"
Coupling	4-jaw nozzle for taper type lubrication nipples in accordance with DIN 71412
Linear swivel joint	yes
Check valve	yes
Max. permissible pressure	600 bar

10.1.4.2 Hoses

The lubricant is transported from the lever grease gun to the required lubrication nipple via a hose.

95 Hoses



001A71F8

1	Push coupling	2	Slide coupling
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99 Hoses

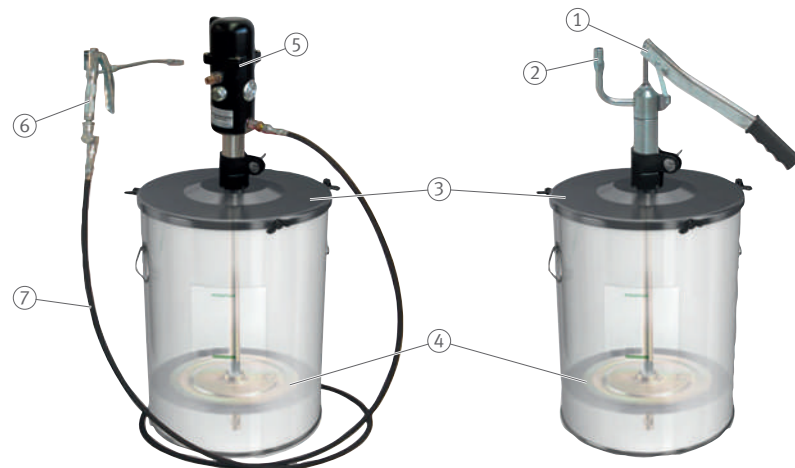
No.	Ordering number	Ordering designation	Info
1	039064123-0000	ARCA-GREASE-GUN.HOSE	2052
2	039697010-0000	ARCA-GREASE-GUN.HOOK-ON-HOSE	2053

100 Technical data

Feature	Type	
	A	B
Coupling	4-jaw nozzle for taper type lubrication nipples in accordance with DIN 71412	Slide coupling for button head lubrication nipples in accordance with DIN 3404-16
Hose length	300 mm	
Threaded connector on both sides	R 1/8"	

10.2 Drum pumps

96 Examples of drum pump kits with grease container



001A712A

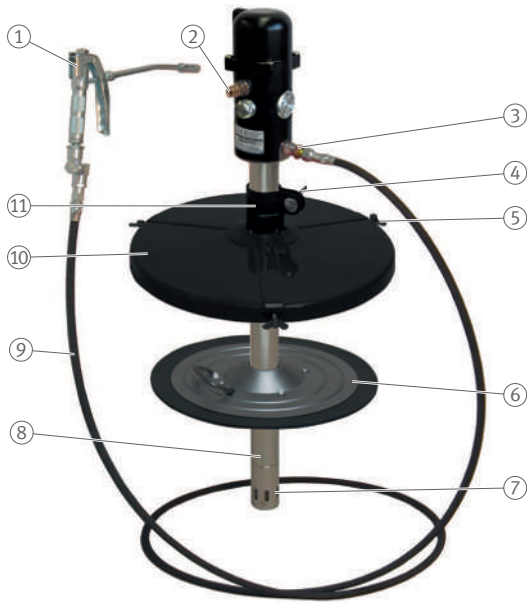
1	Manual drum pump	2	Grease outlet
3	Dust cover	4	Grease follower piston
5	Pneumatic drum pump	6	Metering pistol grease gun
7	High-pressure hose		

Pneumatic and manual 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.

10.2.1 Pneumatic drum pump

97 Components



001A6006

1	Grease gun	2	Connector for compressed air supply
3	Grease outlet	4	Clamping screw
5	Wing bolt	6	Grease follower piston
7	Intake screen	8	Suction pipe
9	High-pressure hose	10	Dust cover
11	Gripper clamp		

The pneumatic drum pump kit ARCA-PUMP-BARREL...-SET-N is suitable for use with containers with a fill quantity of 18 kg, 25 kg, 50 kg or 180 kg ►112 | 11.5.

It has numerous areas of application in the workshop:

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

101 Pneumatic drum pumps

Container	Inside diameter		Ordering number	Ordering designation	Info
	from	up to			
kg	mm	mm			
18	265	285	301254532-0000	ARCA-PUMP-BARREL-18-SET-N	2064
25	305	350	301254249-0000	ARCA-PUMP-BARREL-25-SET-N	2065
50	385	410	301254311-0000	ARCA-PUMP-BARREL-50-SET-N	2066
180	550	590	301254516-0000	ARCA-PUMP-BARREL-180-SET-N	2067

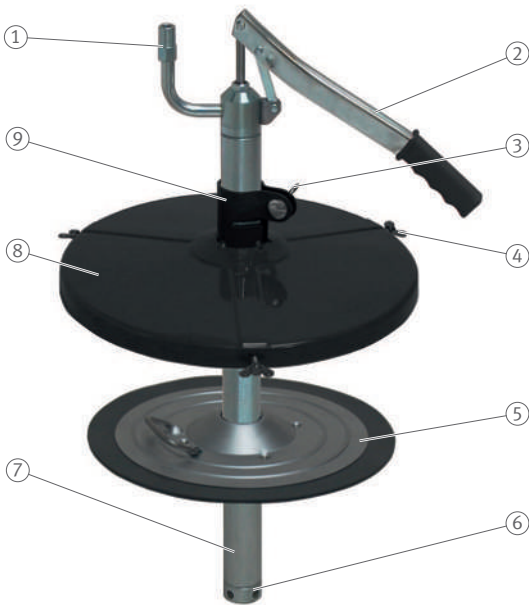
 102 Technical data

Feature		ARCA-PUMP-BARREL...-SET-N			
		18	25	50	180
Container size		18 kg	25 kg	50 kg	200 kg
Inside diameter	from	265 mm	305 mm	385 mm	550 mm
	up to	285 mm	350 mm	410 mm	590 mm
Suction pipe length		495 mm	495 mm	690 mm	950 mm
Suction pipe diameter		40 mm	40 mm	40 mm	40 mm
Mass		20,6 kg	20,7 kg	22,6 kg	25,7 kg
Air connector thread (internal thread)		RP 1/4"	RP 1/4"	RP 1/4"	RP 1/4"
Grease outlet thread (external thread)		R 1/4"	R 1/4"	R 1/4"	R 1/4"
Pressure ratio		1:55	1:55	1:55	1:55
Maximum delivery pressure		425 bar	425 bar	425 bar	425 bar
Air pressure		3 bar ... 8 bar	3 bar ... 8 bar	3 bar ... 8 bar	3 bar ... 8 bar
Maximum delivery rate with unrestricted discharge		1,1 kg/min	1,1 kg/min	1,1 kg/min	1,1 kg/min
Volume		85 dB(A)	85 dB(A)	85 dB(A)	85 dB(A)
High-pressure hose length		3,5 m	3,5 m	3,5 m	3,5 m
Transport aid included in the scope of delivery		Yes	Yes	Yes	No

For the model ARCA-PUMP-BARREL-180-SET-N, the transport aid ARCA-PUMP-BARREL-180.TROLLEY-N can be ordered as an accessory.

10.2.2 Manual drum pump

98 Components



001A5D87

1	Grease outlet	2	Hand lever
3	Clamping screw	4	Wing bolt
5	Grease follower piston	6	Suction hole
7	Suction pipe	8	Dust cover
9	Gripper clamp		

The manual drum pump is a cost-effective alternative and universally applicable alternative to the pneumatic drum pump kit.

A filling sleeve is included in the scope of delivery for filling grease guns via filling nipples in accordance with DIN 1283.

103 Manual drum pump

Container	Inside diameter		Ordering number	Ordering designation	Info
	from	up to			
kg	mm	mm			
18	265	285	301254427-0000	ARCA-PUMP-BARREL-18.FILL-SET-N	2068
25	305	350	301252580-0000	ARCA-PUMP-BARREL-25.FILL-SET-N	2069
50	385	410	301254273-0000	ARCA-PUMP-BARREL-50.FILL-SET-N	206A
180	550	590	301254460-0000	ARCA-PUMP-BARREL-180.FILL-SET-N	206B

 104 Technical data

Feature		ARCA-PUMP-BARREL...FILL-SET-N			
		18	25	50	180
Container size		18 kg	25 kg	50 kg	200 kg
Inside diameter	from	265 mm	305 mm	385 mm	550 mm
	up to	285 mm	350 mm	410 mm	590 mm
Suction pipe length		535 mm	535 mm	800 mm	800 mm
Suction pipe diameter		40 mm	40 mm	40 mm	40 mm
Mass		4,0 kg	4,6 kg	8,0 kg	19,5 kg
Grease outlet thread (outside)		R 1/4"	R 1/4"	R 1/4"	R 1/4"
Filling sleeve for grease outlet included in the scope of delivery (inside)		R 1/4"	R 1/4"	R 1/4"	R 1/4"
Delivery rate per stroke		45 cm ³	45 cm ³	45 cm ³	45 cm ³
Maximum delivery pressure		30 bar	30 bar	30 bar	30 bar
Lever displacement		375 mm	375 mm	375 mm	375 mm
Transport aid included in the scope of delivery		No	No	No	No

10.2.3 Type-specific accessories and spare parts

10.2.3.1 Adapter

99 Adapter



001A724A

105 Adapters

Ordering number	Ordering designation	Info
301253668-0000	ARCA-PUMP-BARREL.FP-ADAPTER-N	207C

The ARCA-PUMP-BARREL.FP-ADAPTER-N is a reducer for the grease follower piston and ensures compatibility with drum pumps from other manufacturers with a suction pipe diameter of 30 mm.

10.2.3.2 Metering pistol grease gun

100 Metering pistol grease gun with flow rate measurement



001A722A

106 Grease metering gun

Ordering number	Ordering designation	Info
301253676-0000	ARCA-PUMP-BARREL.GUN-METER-N	207D

The metering pistol grease gun with digital flow rate measurement allows precise grease feed into bearing positions and gearboxes.

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.

107 Technical data

Feature	Value
Operating pressure	≤ 500 bar
Burst pressure	1000 bar
Delivery rate	≤ 2,5 kg/min
Counting accuracy	±3 %
Display accuracy	0,1 g
Max. display quantity	999 g
Z type swivel joint	No
Nozzle tube length	150mm
Display reset facility	Yes
Connector	R 1/4" (inside)
Mass	1,23 kg

10.2.3.3 Transport aid

101 Transport aids



The ARCA-PUMP-BARREL...TROLLEY-N serves as a transport aid for filling devices and pneumatic drum pumps in various container sizes.

108 Transport aid

Container	Ordering number	Ordering designation	Info
< 50 kg	301254257-0000	ARCA-PUMP-BARREL-50.TROLLEY-N	207E
< 200 kg	301254494-0000	ARCA-PUMP-BARREL-180.TROLLEY-N	207F

109 Technical data

Characteristic	ARCA-PUMP-BARREL-50.TROLLEY-N	ARCA-PUMP-BARREL-180.TROLLEY-N
Description	Transport aid for containers up to 50 kg	Transport aid for containers up to 200 kg
Material	Steel, zinc-coated	Steel, black powder coated
Length	700 mm	1000 mm
Width	520 mm	830 mm
Height	990 mm	1050 mm
Mass	11 kg	32 kg
Pump holder	Yes	No
Rollers	2 pieces, Ø 200 mm	2 pieces, Ø 200 mm
Swivel castors	No	1 piece, Ø 125 mm

10.2.3.4 Spare parts

Spare parts are available for the pneumatic drum pump and manual drum pump kits.

 110 Spare parts

Type	Set	Ordering number	Ordering designation	Info
Grease follower piston	18	301254435-0000	ARCA-PUMP-BARREL-18.FP-N	206C
	25	301252599-0000	ARCA-PUMP-BARREL-25.FP-N	206D
	50	301254281-0000	ARCA-PUMP-BARREL-50.FP-N	206E
	180	301254478-0000	ARCA-PUMP-BARREL-180.FP-N	206F
Dust cover	18	301254443-0000	ARCA-PUMP-BARREL-18.LID-N	2070
	25	301252602-0000	ARCA-PUMP-BARREL-25.LID-N	2071
	50	301254290-0000	ARCA-PUMP-BARREL-50.LID-N	2072
	180	301254486-0000	ARCA-PUMP-BARREL-180.LID-N	2073
Manual drum pump	18	301253714-0000	ARCA-PUMP-BARREL-18.FILL-N	2074
	25	301253714-0000	ARCA-PUMP-BARREL-18.FILL-N	2074
	50	301254265-0000	ARCA-PUMP-BARREL-50.FILL-N	2075
	180	301254451-0000	ARCA-PUMP-BARREL-180.FILL-N	2076
Pneumatic drum pump	18	301254524-0000	ARCA-PUMP-BARREL-18-PUMP-N	2077
	25	301254524-0000	ARCA-PUMP-BARREL-18-PUMP-N	2077
	50	301254303-0000	ARCA-PUMP-BARREL-50-PUMP-N	2078
	180	301254508-0000	ARCA-PUMP-BARREL-180-PUMP-N	2079
High-pressure hose, 3,5 m		301253706-0000	ARCA-PUMP-BARREL.HOSE-3,5M-N	207A
Grease gun, nozzle tube R 1/8"		301253684-0000	ARCA-PUMP-BARREL.GUN-N	207B

11 Cartridges and containers

11.1 Filled cartridges

11.1.1 CONCEPT1, OPTIME C1

 The CONCEPT1 lubricator is used by OPTIME C1 as a cartridge.

 102 CONCEPT1 cartridge with integrated drive unit for OPTIME C1



 111 CONCEPT1, prefilled with Arcanol grease, fill volume 60 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol FOOD2	095249290-0000	ARCALUB-C1-60-FOOD2	2080
Arcanol LOAD220	095249273-0000	ARCALUB-C1-60-LOAD220	2081
Arcanol LOAD400	095249249-0000	ARCALUB-C1-60-LOAD400	2082
Arcanol MULTI2	095249230-0000	ARCALUB-C1-60-MULTI2	2083
Arcanol MULTITOP	095249222-0000	ARCALUB-C1-60-MULTITOP	2084
Arcanol TEMP110	095249214-0000	ARCALUB-C1-60-TEMP110	2085

 112 CONCEPT1, prefilled with Arcanol grease, fill volume 125 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol FOOD2	095248897-0000	ARCALUB-C1-125-FOOD2	2086
Arcanol LOAD150	095731784-0000	ARCALUB-C1-125-LOAD150	2087
Arcanol LOAD220	095248870-0000	ARCALUB-C1-125-LOAD220	2088
Arcanol LOAD400	095248854-0000	ARCALUB-C1-125-LOAD400	2089
Arcanol LOAD460	095248838-0000	ARCALUB-C1-125-LOAD460	208A
Arcanol MULTI2	095248820-0000	ARCALUB-C1-125-MULTI2	208B
Arcanol MULTITOP	095248811-0000	ARCALUB-C1-125-MULTITOP	208C
Arcanol TEMP110	095248200-0000	ARCALUB-C1-125-TEMP110	208D

 113 CONCEPT1, prefilled with Arcanol oil, fill volume 60 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol CHAIN-OIL	096040432-0000	ARCALUB-C1-60-CHAIN-OIL	208E

114 CONCEPT1, prefilled with Arcanol oil, fill volume 125 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol CHAIN-OIL	095248900-0000	ARCALUB-C1-125-CHAIN-OIL	208F
Arcanol FOOD-OIL	095248889-0000	ARCALUB-C1-125-FOOD-OIL	2090

11.1.2 CONCEPT2

103 Cartridge for CONCEPT2



0016F00A

115 Cartridges for CONCEPT2, prefilled with Arcanol grease, fill volume 250 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol CLEAN-M	087334194-0000	ARCALUB-C2.LC250-CLEAN-M	20B3
Arcanol FOOD2	087334020-0000	ARCALUB-C2.LC250-FOOD2	20B4
Arcanol LOAD150	087329077-0000	ARCALUB-C2.LC250-LOAD150	20B5
Arcanol LOAD220	087329115-0000	ARCALUB-C2.LC250-LOAD220	20B6
Arcanol LOAD400	087329131-0000	ARCALUB-C2.LC250-LOAD400	20B7
Arcanol LOAD460	087329140-0000	ARCALUB-C2.LC250-LOAD460	20B8
Arcanol LOAD1000	087329280-0000	ARCALUB-C2.LC250-LOAD1000	20B9
Arcanol MULTI2	087328038-0000	ARCALUB-C2.LC250-MULTI2	20BA
Arcanol MULTITOP	087328810-0000	ARCALUB-C2.LC250-MULTITOP	20BB
Arcanol MOTION2	087334216-0000	ARCALUB-C2.LC250-MOTION2	20BC
Arcanol SEMIFLUID	095195831-0000	ARCALUB-C2.LC250-SEMIFLUID	20BD
Arcanol SPEED2,6	087334046-0000	ARCALUB-C2.LC250-SPEED2,6	20BE
Arcanol TEMP90	087329816-0000	ARCALUB-C2.LC250-TEMP90	20BF
Arcanol TEMP110	087329840-0000	ARCALUB-C2.LC250-TEMP110	20C0
Arcanol TEMP120	087329980-0000	ARCALUB-C2.LC250-TEMP120	20C1
Arcanol TEMP200	087329999-0000	ARCALUB-C2.LC250-TEMP200	20C2

11.1.3 CONCEPT4

104 Cartridge for CONCEPT4



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116 Cartridges for CONCEPT4, prefilled with Arcanol grease, fill volume 400 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol CLEAN-M	095058125-0000	ARCALUB-C4.LC400-CLEAN-M	20CC
Arcanol EM-L038	095058141-0000	ARCALUB-C4.LC400-EM-L038	20CD
Arcanol FOOD2	095058117-0000	ARCALUB-C4.LC400-FOOD2	20CE
Arcanol LOAD150	095056785-0000	ARCALUB-C4.LC400-LOAD150	20CF
Arcanol LOAD220	095056793-0000	ARCALUB-C4.LC400-LOAD220	20D0
Arcanol LOAD400	095056807-0000	ARCALUB-C4.LC400-LOAD400	20D1
Arcanol LOAD460	095058010-0000	ARCALUB-C4.LC400-LOAD460	20D2
Arcanol LOAD1000	095058028-0000	ARCALUB-C4.LC400-LOAD1000	20D3
Arcanol MULTI2	095056769-0000	ARCALUB-C4.LC400-MULTI2	20D4
Arcanol MULTI3	095056750-0000	ARCALUB-C4.LC400-MULTI3	20D5
Arcanol MULTITOP	095056777-0000	ARCALUB-C4.LC400-MULTITOP	20D6
Arcanol MOTION2	095058133-0000	ARCALUB-C4.LC400-MOTION2	20D7
Arcanol SEMIFLUID	095195823-0000	ARCALUB-C4.LC400-SEMIFLUID	20D8
Arcanol SPEED2,6	095058087-0000	ARCALUB-C4.LC400-SPEED2,6	20D9
Arcanol TEMP90	095058044-0000	ARCALUB-C4.LC400-TEMP90	20DA
Arcanol TEMP110	095058052-0000	ARCALUB-C4.LC400-TEMP110	20DB
Arcanol TEMP120	095058060-0000	ARCALUB-C4.LC400-TEMP120	20DC
Arcanol TEMP200	095058079-0000	ARCALUB-C4.LC400-TEMP200	20DD
Arcanol VIB3	095058095-0000	ARCALUB-C4.LC400-VIB3	20DE

11.1.4 CONCEPT8

🔗105 Cartridge for CONCEPT8



0016EPEC

📊117 Cartridges for CONCEPT8, prefilled with Arcanol grease, fill volume 800 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol CLEAN-M	083549129-0000	ARCALUB-C8.LC800-CLEAN-M	20EA
Arcanol FOOD2	083549064-0000	ARCALUB-C8.LC800-FOOD2	20EB
Arcanol LOAD150	083532439-0000	ARCALUB-C8.LC800-LOAD150	20EC
Arcanol LOAD220	083533583-0000	ARCALUB-C8.LC800-LOAD220	20ED
Arcanol LOAD400	083533761-0000	ARCALUB-C8.LC800-LOAD400	20EE
Arcanol LOAD460	083533818-0000	ARCALUB-C8.LC800-LOAD460	20EF
Arcanol LOAD1000	083548343-0000	ARCALUB-C8.LC800-LOAD1000	20F0
Arcanol MULTI2	083532412-0000	ARCALUB-C8.LC800-MULTI2	20F1
Arcanol MULTI2	083548289-0000	ARCALUB-C8.LC800-MULTI3	20F2
Arcanol MULTITOP	082631492-0000	ARCALUB-C8.LC800-MULTITOP	20F3
Arcanol SEMIFLUID	095195815-0000	ARCALUB-C8.LC800-SEMIFLUID	20F4
Arcanol SPEED2,6	083548629-0000	ARCALUB-C8.LC800-SPEED2,6	20F5
Arcanol TEMP90	083533630-0000	ARCALUB-C8.LC800-TEMP90	20F6
Arcanol TEMP110	083548580-0000	ARCALUB-C8.LC800-TEMP110	20F7
Arcanol TEMP120	083548599-0000	ARCALUB-C8.LC800-TEMP120	20F8
Arcanol TEMP200	083548602-0000	ARCALUB-C8.LC800-TEMP200	20F9
Arcanol VIB3	083549099-0000	ARCALUB-C8.LC800-VIB3	20FA

11.1.5 FAG OPTIME C4

106 Cartridge for FAG OPTIME C4



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118 Cartridges for FAG OPTIME C4, prefilled with Arcanol grease, fill volume 400 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol LOAD150	301568480-0000	OPTIME-LW-C4.LC400-LOAD150	2114
Arcanol LOAD220	301568995-0000	OPTIME-LW-C4.LC400-LOAD220	2115
Arcanol LOAD400	301568987-0000	OPTIME-LW-C4.LC400-LOAD400	2116
Arcanol LOAD460	301568979-0000	OPTIME-LW-C4.LC400-LOAD460	2117
Arcanol LOAD1000	301568960-0000	OPTIME-LW-C4.LC400-LOAD1000	2118
Arcanol MULTI2	301568405-0000	OPTIME-LW-C4.LC400-MULTI2	2119
Arcanol MULTI3	301568693-0000	OPTIME-LW-C4.LC400-MULTI3	211A
Arcanol MULTITOP	301568685-0000	OPTIME-LW-C4.LC400-MULTITOP	211B
Arcanol SEMIFLUID	301568677-0000	OPTIME-LW-C4.LC400-SEMIFLUID	211C
Arcanol SPEED2,6	301568669-0000	OPTIME-LW-C4.LC400-SPEED2.6	211D
Arcanol TEMP90	301568650-0000	OPTIME-LW-C4.LC400-TEMP90	211E
Arcanol TEMP110	301568642-0000	OPTIME-LW-C4.LC400-TEMP110	211F

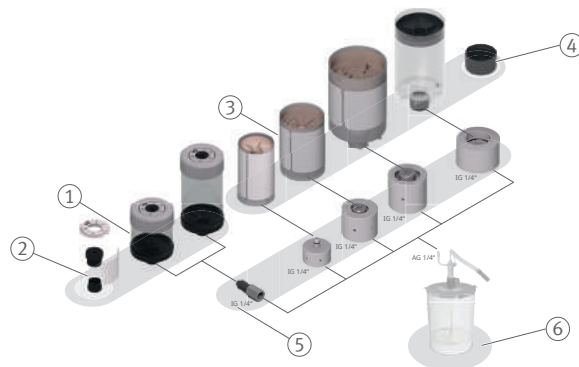
119 Cartridges for FAG OPTIME C4, prefilled with Arcanol grease, fill volume 750 cm³

Lubricant	Ordering number	Ordering designation	Info
Arcanol LOAD150	301568634-0000	OPTIME-LW-C4.LC750-LOAD150	2120
Arcanol LOAD220	301568626-0000	OPTIME-LW-C4.LC750-LOAD220	2121
Arcanol LOAD400	301568600-0000	OPTIME-LW-C4.LC750-LOAD400	2122
Arcanol LOAD460	301568596-0000	OPTIME-LW-C4.LC750-LOAD460	2123
Arcanol LOAD1000	301568588-0000	OPTIME-LW-C4.LC750-LOAD1000	2124
Arcanol MULTI2	301568561-0000	OPTIME-LW-C4.LC750-MULTI2	2125
Arcanol MULTI3	301568553-0000	OPTIME-LW-C4.LC750-MULTI3	2126
Arcanol MULTITOP	301568545-0000	OPTIME-LW-C4.LC750-MULTITOP	2127
Arcanol SEMIFLUID	301568537-0000	OPTIME-LW-C4.LC750-SEMIFLUID	2128
Arcanol SPEED2,6	301568510-0000	OPTIME-LW-C4.LC750-SPEED2.6	2129
Arcanol TEMP90	301568502-0000	OPTIME-LW-C4.LC750-TEMP90	212A
Arcanol TEMP110	301568499-0000	OPTIME-LW-C4.LC750-TEMP110	212B

11.2 Unfilled cartridges and accessories

Unfilled cartridges can be filled by the actual customer. This permits the flexible use of third-party lubricants.

107 Unfilled cartridges and accessories



001C4092

1	Unfilled cartridges CONCEPT1 including closing plug and drive unit	2	Drycel kit for filling process
3	Unfilled cartridges CONCEPT2, CONCEPT4, CONCEPT8 and FAG OPTIME C4	4	Closing plug for filling process
5	Filling adapter	6	Drum pump [► 100]

120 Cartridges, unfilled, including closing plugs

No.	Type	V cm ³	Ordering number	Ordering designation	Info
1	CONCEPT1	60	095166050-0000	ARCALUB-C1-60-REFILLABLE	2091
	CONCEPT1	125	095166076-0000	ARCALUB-C1-125-REFILLABLE	2092
3	CONCEPT2	250	095028803-0000	ARCALUB-C2.LC250-REFILLABLE	20C3
	CONCEPT4	400	095058036-0000	ARCALUB-C4.LC400-REFILLABLE	20DF
	CONCEPT8	800	095028790-0000	ARCALUB-C8.LC800-REFILLABLE	20FB
	FAG OPTIME C4	750	301568340-0000	OPTIME-LW-C4.REFILL-LC	212C

121 Required additional material for filling process

No.	Type	V cm ³	Ordering number	Ordering designation	Info
2	CONCEPT1	60	095287523-0000	ARCALUB-C1.DRYCELL-KIT-60	2093
	CONCEPT1	125	095287540-0000	ARCALUB-C1.DRYCELL-KIT-125	2094
4	CONCEPT2	250	095179879-0000	ARCALUB-C2.LC250-SEAL-CAP	20C4
	CONCEPT4	400	095179887-0000	ARCALUB-C4.LC400-SEAL-CAP	20E0
	CONCEPT8	800	095179895-0000	ARCALUB-C8.LC800-SEAL-CAP	20FC
	FAG OPTIME C4	750	301741611-0000	OPTIME-LW-C4.SEALCAP-LC	212D

122 Filling adapters

No.	Type	Ordering number	Ordering designation	Info
5	CONCEPT1	095248161-0000	ARCALUB-C1.NIPPLE-REFILL-GREASE-R1/4	20A5
	CONCEPT2	095179909-0000	ARCALUB-C2.LC250-RF-ADAPTER	20C5
	CONCEPT4	095180818-0000	ARCALUB-C4.LC400-RF-ADAPTER	20E1
	CONCEPT8	095180826-0000	ARCALUB-C8.LC800-RF-ADAPTER	20FD
	FAG OPTIME C4	305843230-0000	OPTIME-LW-C4.ADAPTER-REFILL-LC-V2	212E

Restriction for unfilled cartridges



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

Each cartridge can be filled up to 3 times in total. If further filling operations are carried out, the possibility of cartridge damage, such as wear, cannot be ruled out.

Further information can be found in the following publications:

BA 71 | Manual on filling the cartridges |

<https://www.schaeffler.de/std/1FC7>

11.3 Unfilled oil tank

123 Oil tank, unfilled, including float switch and cover cap

Type	V cm ³	Ordering number	Ordering designation	Info
FAG OPTIME C4	850	301741743-0000	OPTIME-LW-C4.OILTANK-KIT	2108

11

11.4 Selection of Arcanol grease cartridges

108 Arcanol grease cartridge



0016F086

124 Grease cartridges, filled with 400 g of lubricant

Type	Ordering number	Ordering designation	Info
Arcanol CLEAN-M	069429111-0000	ARCANOL-CLEAN-M-400G	2055
Arcanol FOOD2	019143648-0000	ARCANOL-FOOD2-400G	2056
Arcanol LOAD150	055358152-0000	ARCANOL-LOAD150-400G	2057
Arcanol LOAD220	064741028-0000	ARCANOL-LOAD220-400G	2058
Arcanol LOAD400	019143818-0000	ARCANOL-LOAD400-400G	2059
Arcanol LOAD460	065825144-0000	ARCANOL-LOAD460-400G	205A
Arcanol MULTI2	019143893-0000	ARCANOL-MULTI2-400G	205B
Arcanol MULTI3	016727355-0000	ARCANOL-MULTI3-400G	205C
Arcanol MULTITOP	019144016-0000	ARCANOL-MULTITOP-400G	205D
Arcanol SEMIFLUID	096322918-0000	ARCANOL-SEMIFLUID-380G	205E
Arcanol SPEED2,6	062447610-0000	ARCANOL-SPEED2,6-400G	205F
Arcanol TEMP90	019144172-0000	ARCANOL-TEMP90-400G	2060
Arcanol TEMP110	019144075-0000	ARCANOL-TEMP110-400G	2061
Arcanol VIB3	055289568-0000	ARCANOL-VIB3-400G	2062

11.5 Selection of Arcanol container sizes

109 Hobcock 18 kg, 25 kg and 50 kg



001A720A

125 Arcanol container sizes

Type	m kg	Ordering number	Ordering designation	Info
Arcanol LOAD150	18	301416893-0000	ARCANOL-LOAD150-18KG#N	2131
Arcanol LOAD220	18	301416907-0000	ARCANOL-LOAD220-18KG#N	2132
Arcanol LOAD400	18	301416915-0000	ARCANOL-LOAD400-18KG#N	2133
Arcanol LOAD460	18	301417229-0000	ARCANOL-LOAD460-18KG#N	2134
Arcanol LOAD1000	18	301416885-0000	ARCANOL-LOAD1000-18KG#N	2135
Arcanol MOTION2	18	301417237-0000	ARCANOL-MOTION2-18KG#N	2136
Arcanol MULTI2	18	301417245-0000	ARCANOL-MULTI2-18KG#N	2137
Arcanol MULTI3	18	301417253-0000	ARCANOL-MULTI3-18KG#N	2138
Arcanol MULTITOP	18	301417261-0000	ARCANOL-MULTITOP-18KG#N	2139
Arcanol SPEED2,6	18	301417270-0000	ARCANOL-SPEED2,6-18KG#N	213A
Arcanol TEMP90	18	097965677-0000	ARCANOL-TEMP90-18KG#N1	213B
Arcanol TEMP120	18	301417288-0000	ARCANOL-TEMP120-18KG#N	213C
Arcanol VIB3	18	301417296-0000	ARCANOL-VIB3-18KG#N	213D
Arcanol FOOD2	25	019143630-0000	ARCANOL-FOOD2-25KG#K	213E
Arcanol LOAD220	25	019143761-0000	ARCANOL-LOAD220-25KG#K	213F
Arcanol LOAD400	25	019143800-0000	ARCANOL-LOAD400-25KG#K	2140
Arcanol LOAD460	25	065827066-0000	ARCANOL-LOAD460-25KG#S	2141
Arcanol MOTION2	25	080267009-0000	ARCANOL-MOTION2-25KG#S	2142
Arcanol MULTI2	25	019143885-0000	ARCANOL-MULTI2-25KG#K	2143
Arcanol MULTITOP	25	019144008-0000	ARCANOL-MULTITOP-25KG#K	2144
Arcanol TEMP120	25	019144105-0000	ARCANOL-TEMP120-25KG#K	2145
Arcanol LOAD150	50	059810025-0000	ARCANOL-LOAD150-50KG	2146
Arcanol LOAD400	50	019143826-0000	ARCANOL-LOAD400-50KG	2147
Arcanol LOAD460	50	065827120-0000	ARCANOL-LOAD460-50KG	2148
Arcanol MOTION2	50	080267157-0000	ARCANOL-MOTION2-50KG	2149
Arcanol TEMP110	50	038705478-0000	ARCANOL-TEMP110-50KG	214A

Further information can be found in the following publication:

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

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