LINCOLN
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Operating Instructions

Mobile Filling Pumps of Series GTP-C

for pumping lubricants from grease drums



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Read these instructions before installation or start-up of the product and keep them readily available for later consultation!

NOTE
Valid up to and including January 19, 2027

Original EC Declaration of Conformity in accordance with Directive 2006/42/EC, Appendix II Part 1 A

The manufacturer hereby declares under its sole responsibility conformity of the machinery with the essential health and safety requirements of the Machinery Directive 2006/42/EC at the time of placing on the market. The technical documentation described in Annex VII, Part A has been compiled. We undertake to transmit the technical documentation in electronic form in response to a reasoned request by the national authorities. The authorized representative for the compilation of the technical documentation is the manufacturer.

Designation:	Mobile filling pump for pumping lubricants from separate grease drums
Type:	GTP-C
Item number:	GTP-C-xTxx-xxx+xxx

The following Directives, regulations and standards were applied in the applicable areas:

2006/42/EC: Machinery Directive
2011/65/EU: RoHS II
2014/30/EU: Electromagnetic Compatibility
2025/40: Packaging and Packaging Waste Regulation – PPWR
- Restriction: The product complies only with the legal requirements in force at the time it is placed on the market. Full conformity will not be achieved until all requirements have entered into force.

EN ISO 12100:2010	EN 60204-1:2018	EN IEC 61000-6-2:2019	EN IEC 61000-6-3:2021
EN 809+A1/AC:2010	EN IEC 63000:2018		

Walldorf, 24.06.2026
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NOTE
Valid from January 20, 2027

EU Declaration of Conformity pursuant to the Regulation (EU) 2023/1230, Annex V Part B

The manufacturer hereby declares, under its sole responsibility, that the machinery complies with the essential health and safety requirements of the Machinery Regulation (EU) 2023/1230. The technical documentation described in Annex IV, Part B has been compiled. We undertake to transmit the technical documentation in electronic form in response to a reasoned request by the national authorities.

Designation:	Mobile filling pump for pumping lubricants from separate grease drums
Type:	GTP-C
Item number:	GTP-C-xTxx-xxx+xxx

The following Directives, regulations and standards were applied in the applicable areas:

2023/1230: Machinery Regulation
2011/65/EU: RoHS II
2014/30/EU: Electromagnetic Compatibility
2025/40: Packaging and Packaging Waste Regulation – PPWR
- Restriction: The product complies only with the legal requirements in force at the time it is placed on the market. Full conformity will not be achieved until all requirements have entered into force.

EN ISO 12100:2010	EN 60204-1:2018	EN IEC 61000-6-2:2019	EN IEC 61000-6-3:2021
EN 809+A1/AC:2010	EN IEC 63000:2018		

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Original UK Declaration of Conformity pursuant to the Supply of Machinery (Safety) Regulations 2008 No. 1597, Annex II, section 1 A

The manufacturer hereby declares under its sole responsibility conformity of the machinery with the essential health and safety requirements of the Supply of Machinery (Safety) Regulations 2008 No. 1597 at the time of placing on the market. The technical documentation described in Annex VII, Part A has been compiled. We undertake to transmit the technical documentation in electronic form in response to a reasoned request by the national authorities. The authorized representative for the compilation of the technical documentation is SKF (U.K.) Limited, 2 Canada Close, Banbury, Oxfordshire, OX16 2RT, GBR.

Designation:	Mobile filling pump for pumping lubricants from separate grease drums
Type:	GTP-C
Item number:	GTP-C-xTxx-xxx+xxx

Furthermore, the following regulations and standards were applied in the respective applicable areas:

Supply of Machinery (Safety) Regulations 2008 No. 1597
Electromagnetic Compatibility Ordinance 2016 No. 1091
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 No. 3032

EN ISO 12100:2010	EN 60204-1:2018	EN IEC 61000-6-2:2019	EN IEC 61000-6-3:2021
EN 809+A1/AC:2010	EN IEC 63000:2018		

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Appendix to the Declaration of Incorporation pursuant to the Regulation (EU) 2023/1230, Annex V, Part B

Description of the essential health and safety requirements according to Regulation (EU) 2023/1230, Annex III, which have been applied and fulfilled:

Table 1

Appendix to Declaration of Incorporation

No.:	Essential health and safety requirement	Applicable:	Fulfilled:
1.1	General		
1.1.1	Field of application	Yes	Yes
1.1.2	Principles of safety integration	Yes	Yes
1.1.3	Materials and products	Yes	Partially[1)]
1.1.4	Lighting	Yes	Yes
1.1.5	Design of a machine or a related product to facilitate its handling	Yes	Yes
1.1.6	Ergonomics	Yes	Yes[2)]
1.2	Control systems		
1.2.1	Safety and reliability of control systems	Yes	Yes
1.2.3	Starting	Yes	Yes
1.2.6	Failure of the power supply or communication network connection	Yes	Yes
1.3	Protection against mechanical hazards		
1.3.1	Risk of loss of stability	Yes	Yes
1.3.2	Risk of break-up during operation	Yes	Partially[3)]
1.3.4	Risks due to surfaces, edges or angles	Yes	Yes
1.3.7	Risks related to moving parts	Yes	Yes[4)]
1.3.9	Risks of uncontrolled movements	Yes	Yes
1.5	Risks due to other hazards		
1.5.1	Electricity supply	Yes	Yes
1.5.6	Fire	Yes	Yes
1.5.8	Noise	Yes	Yes
1.5.13	Emissions of hazardous materials and substances	Yes	Yes
1.5.15	Risk of slipping, tripping, or falling	Yes	Yes[5)]
1.6	Maintenance		
1.6.1	Machinery or related product maintenance	Yes	Yes
1.6.2	Access to operating positions and servicing points	Yes	Yes[6)]
1.6.4	Operator intervention	Yes	Yes
1.7	Information		
1.7.1	Information and warnings on the machinery or related product	Yes	Yes
1.7.1.1	Information and information devices	Yes	Yes
1.7.2	Warning of residual risks	Yes	Yes
1.7.3	Marking of machinery or related products	Yes	Yes
1.7.4	Operating instructions	Yes	Yes
1.7.4.1	General principles for the drafting of operating instructions	Yes	Yes
1.7.4.2	Contents of the operating instructions	Yes	Yes
1.7.5	Sales literature	Yes	Yes

[1)] The product is fundamentally designed for the use of non-hazardous media. The owner-operator must check whether the lubricant used has certain hazardous effects (such as sensitization). A retaining tank may be required. Overpressure valves must also be used.
[2)] The integrator must ensure that the lubrication pump is integrated into the machine in such a way that the lubrication pump can be operated and filled ergonomically.
[3)] The operator must protect the pump against excessive pressure. Each pump element must be equipped with a suitable overpressure valve (see the technical data sheets for the relevant pump).
[4)] No protective device is necessary because the risk from the reservoir cover described in the warning is considered minor.
[5)] Not relevant for partly completed machinery (pumps), only outside the partly completed machinery. The machine integrator/operator bears the responsibility here.
[6)] The integrator must ensure that the lubrication pump is integrated into the machine in such a way that the lubrication pump can be operated quickly and safely.

Masthead

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CP 2001 Rosario, Santa Fe

Warranty
The instructions contain no statements regarding the warranty or liability for defects. That information can be found in our General Terms of Payment and Delivery.

Training
We conduct detailed training in order to enable maximum safety and efficiency. We recommend taking advantage of this training. For further information, contact your authorized SKF dealer or the manufacturer.

Table of contents

Masthead 6
Table of contents 7
Safety alerts, visual presentation, and layout 8

1 Safety instructions 9
1.1 General safety instructions 9
1.2 General electrical safety instructions 9
1.3 General behaviour when handling the product 9
1.4 Intended use 9
1.5 Persons authorized to use the product 9
1.6 Foreseeable misuse 10
1.7 Referenced documents 10
1.8 Prohibition of certain activities 10
1.9 Painting plastic components and seals 10
1.10 Safety markings on the product 10
1.11 Note on the type plate 10
1.12 Notes on CE marking 10
1.13 Note on Low Voltage Directive 10
1.14 Note on Pressure Equipment Directive 10
1.15 Note on UKCA marking 10
1.16 Note on China RoHS mark 11
1.17 Emergency shutdown 11
1.18 Assembly, maintenance, fault, repair 11
1.19 First start-up, daily start-up 11
1.20 Residual risks 12
2 Lubricants 13
2.1 General information 13
2.2 Material compatibility 13
2.3 Temperature properties 13
2.4 Aging of lubricants 13
2.5 Avoidance of faults and hazards 13
2.6 Solid lubricants 13
3 Overview, functional description 14
3.1 Description 14
3.1.1 Detailed overview 15
3.2 Function 17
3.3 GTP-C type identification code 18
4 Technical data 19
5 Delivery, returns, storage 22
5.1 Delivery 22
5.2 Return shipment 22
5.3 Storage 22
5.4 Storage temperature range 22
6 Assembly 23
6.1 Notes on first start-up and operation 23
6.2 Transporting the filling pump to the place of use 23
6.3 Inserting the GTP-C filling pump into a grease reservoir 24
6.4 Assembly of the wired remote control 25
6.5 Installing the filling hose on the GTP-C filling pump 26
6.5.1 Installing a filling hose with quick coupling 26
6.5.2 Installing a filling hose with connection thread 26
6.6 Installing adapters to connect to various lubrication pumps 27
6.6.1 Lubrication pumps of SKF series KFG and P203 with G1/4 adapter 27
6.6.2 Lubrication pumps of SKF series KFG with 20x1.5 adapter 28
6.6.3 Lubrication pumps of SKF series P 203, P 223, P 233, P 243, P 603, and P 653 29
7 First start-up 30
7.1 Inspections before first start-up 30
7.2 Inspections during first start-up 30
7.3 First start-up 31
8 Operation 32
8.1 Operating the GTP-C filling pump 32
8.2 Venting the pump 32
9 Maintenance 34
10 Cleaning 35
10.1 Basics 35
10.2 Interior cleaning 35
10.3 Exterior cleaning 35
11 Faults, causes, and remedies 36
12 Repairs 37
13 Shutdown, disposal 37
13.1 Temporary shutdown 37
13.2 Permanent shutdown, disassembly 37
13.3 Disposal 37
14 Spare parts 38
14.1 Spare parts 38
14.2 Accessories 40
15 Appendix 43
15.1 China RoHS Table 43

Safety alerts, visual presentation, and layout

While reading these instructions, you will encounter various symbols, illustrations, and text layouts intended to help you navigate and understand the instructions. Their meaning is explained below.

Safety alerts:
Activities that present specific hazards (to life and limb or possible damage to property) are indicated by safety alerts. Always be sure to follow the instructions given in the safety alerts.

⚠ DANGER
These safety alerts indicate an imminent danger. Ignoring them will result in death or serious injury

⚠ WARNING
These safety alerts indicate potentially imminent danger. Ignoring them could result in death or serious injury

⚠ CAUTION
These safety alerts indicate potentially imminent danger. Ignoring them could result in minor injury

NOTICE
These safety alerts indicate a potentially harmful situation. Ignoring them could result in damage to property or malfunctions

Illustrations:
The illustrations used depict a specific product. For other products, they may have the function of a diagram only. This does not alter the basic workings and operation of the product.

Text layout:
- **First-order bulleted lists**: Items on a bulleted list start with a solid black dot and an indent.
  – **Second-order bulleted lists**: If there is a further listing of subitems, the second-order bulleted list is used.

1 **Legend:** A legend explains the numbered contents of an illustration, presented as a numbered list. Items in a legend start with a number (with no dot) and an indent.
  – **Second-order legend**: In some cases, the numbered contents of an image represent more than just one object. A second-order legend is then used.

1. Instruction steps: These indicate a chronological sequence of instruction steps. The numbers of the steps are in bold and are followed by a period. If a new activity follows, the numbering starts again at "**1.**"
  – **Second-order instruction steps**: In some cases, it is necessary to divide up a step into a few substeps. A sequence of second-order instruction steps is then used.

1 Safety instructions

1.1 General safety instructions

- Putting the products into operation or operating them without having read the instructions is prohibited. The operator must ensure that the instructions are read and understood by all persons tasked with working on the product or who supervise or instruct such persons. Retain the instructions for further use.
- The product may only be used in awareness of the potential dangers, in proper technical condition, and according to the information in this manual.
- Any faults that could affect safety must be remedied according to responsibility. The supervisor must be notified immediately in case of malfunctions outside one's individual scope of responsibility.
- Unauthorized modifications and changes can have an unpredictable effect on safety and operation. Unauthorized modifications and changes are therefore prohibited. Only original SKF spare parts and SKF accessories may be used.
- Any unclear points regarding proper condition or correct assembly/operation must be clarified. Operation is prohibited until issues have been clarified.
- The components used must be suitable for the intended use and the applicable operating conditions, e.g. max. operating pressure and ambient temperature range, and must not be subjected to torsion, shear, or bending.

1.2 General electrical safety instructions

- Electrical devices must be kept in proper condition. This must be ensured by periodic inspections in accordance with the relevant applicable standards and technical rules. The type, frequency, and scope of the inspections must be determined in accordance with the risk assessment to be carried out by the operator. Work on electrical components may be performed only by qualified electricians. Connect the electrical power only in accordance with the valid terminal diagram and in observance of the relevant regulations and the local electrical supply conditions.
- Work on electrical components may be performed only in a voltage-free state and using tools suitable for electrical work. Do not touch cables or electrical components with wet or moist hands.
- Fuses must not be bridged. Always replace defective fuses with fuses of the same type.
- Ensure proper connection of the protective conductor for products with protection class I. Observe the specified enclosure rating.
- The operator must implement appropriate measures to protect vulnerable electrical devices from the effects of lightning during use. The electrical device is not furnished with a grounding system for the dissipation of the respective electric charge and does not have the voltage strength necessary to withstand the effects of lightning.

1.3 General behaviour when handling the product

- Familiarize yourself with the functions and operation of the product. The specified assembly and operating steps and their sequences must be observed.
- Keep unauthorized persons away.
- Wear personal protective equipment always.
- Precautionary operational measures and instructions for the respective work must be observed.
- In addition to these Instructions, general statutory regulations for accident prevention and environmental protection must be observed.
- Precautionary operational measures and instructions for the respective work must be observed. Uncertainty seriously endangers safety.
- Safety-related protective and safety equipment must not be removed, modified or affected otherwise in its function and is to be checked at regular intervals for completeness and function.
- If protective and safety equipment has to be dismantled, it must be reassembled immediately after finishing the work, and then checked for correct function.
- Remedy occurring faults in the frame of responsibilities. Immediately inform your superior in the case of faults beyond your competence.
- Never use parts of the centralized lubrication system or of the machine as standing or climbing aids.

1.4 Intended use

Supply of lubricants.
Spare parts should only be used to replace faulty components of identical construction.
Use is only permitted within the scope of commercial or economic activity by professional users, in compliance with the specifications, technical data, and limits specified in this manual.

1.5 Persons authorized to use the product

Operator
A person who is qualified by training, knowledge and experience to carry out the functions and activities related to normal operation. This includes avoiding possible hazards that may arise during operation.

Specialist in electrics
Person with appropriate professional education, knowledge and experience to detect and avoid the hazards that may arise from electricity.

Specialist in mechanics
Person with appropriate professional education, knowledge and experience to detect and avoid the

hazards that may arise during transport, installation, start-up, operation, maintenance, repair and disassembly.

1.6 Foreseeable misuse

Any usage of the product other than as specified in this manual is strictly prohibited. Particularly prohibited are:

- Use of non-specified consumables, contaminated lubricants, or lubricants with air inclusions.
- Use of C3 versions in areas with aggressive, corrosive substances (e.g., high salt load).
- Use of plastic parts in areas with high exposure to ozone, UV light, or ionizing radiation.
- Use to supply, convey, or store hazardous substances and mixtures as defined in the CLP Regulation (EC 1272/2008) or GHS with acute oral, dermal, or inhalation toxicity or substances and mixtures that are marked with hazard pictograms GHS01-GHS06 and GHS08.
- Use to supply, convey, or store Group 1 fluids classified as hazards as defined in the Pressure Equipment Directive (2014/68/EU) Article 13 (1) a).
- Use to supply, convey, or store gases, liquefied gases, dissolved gases, vapors, or fluids whose vapor pressure exceeds normal atmospheric pressure (1013 mbar) by more than 0.5 bar at their maximum permissible operating temperature.
- Use in an explosion protection zone.
- Use without proper securing against excessively high pressures, in the case of pressurized products.
- Use outside of the technical data and limits specified in this manual.

1.7 Referenced documents

In addition to this manual, the following documents must be observed by the respective target group:

- Company instructions and approval rules

If applicable:

- Safety data sheet of the lubricant used
- Project planning documents
- Supplementary information regarding special designs of the pump. This you will find in the special system documentation.
- Instructions for other components for setting up the centralized lubrication system.

1.8 Prohibition of certain activities

- Replacement of or modifications to the pistons of the pump elements
- Repairs or modifications to the drive.

1.9 Painting plastic components and seals

The painting of any plastic components and seals of the products described is prohibited. Completely mask or remove plastic components before painting the main machine.

1.10 Safety markings on the product

No safety markings on the product

NOTE

In accordance with the results of the workstation risk assessment, additional labels (e.g., warnings, safety signs, prohibition signs, or labels in accordance with CLP/GHS) are to be attached by the operator if necessary.

1.11 Note on the type plate

The type plate provides important data such as the type designation, order number, and sometimes regulatory characteristics. To avoid loss of this data in case the type plate becomes illegible, it should be entered in the manual.

1.12 Notes on CE marking

CE marking is effected following the requirements of the applied directives requiring a CE marking:

- 2006/42/EC Machinery Directive (up to January 19, 2027)
- (EU) 2023/1230 Machinery Regulation (from January 20, 2027)
- 2014/30/EU Electromagnetic Compatibility
- 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II)

1.13 Note on Low Voltage Directive

The protection objectives of the Low Voltage Directive 2014/35/EU are met in accordance with Annex I, No. 1.5.1 of the Machinery Directive 2006/42/EC.

1.14 Note on Pressure Equipment Directive

Due to its performance characteristics, the product does not reach the limit values defined in Article 4, Paragraph 1, Subparagraph (a) (ii) and is excluded from the scope of Pressure Equipment Directive 2014/68/EU in accordance with Article 1, Paragraph 2 Subparagraph (f).

1.15 Note on UKCA marking

The UKCA conformity marking confirms the product's conformity with the applicable legal provisions of Great Britain.

1.16 Note on China RoHS mark



The China RoHS mark confirms that there is no danger to persons or the environment from the regulated substances contained within for the intended period of use (year number shown in the circle).

1.17 Emergency shutdown

This is done by a course of action to be defined by the operator.

1.18 Assembly, maintenance, fault, repair

Prior to the start of this work, all relevant persons must be notified of it. At a minimum, the following safety measures must be taken before any work is done:

- Unauthorized persons must be kept away
- Mark and secure the work area
- Cover adjacent live parts
- Dry any wet, slippery surfaces or cover them appropriately
- Cover hot or cold surfaces appropriately

Where applicable:

- Depressurize
- Isolate, lock and tag out
- Check to ensure live voltage is no longer present
- Ground and short-circuit.

The product should be protected as much as possible from humidity, dust, and vibration, and should be installed so that it is easily accessible. Ensure an adequate distance from sources of heat or cold. Any visual monitoring devices present, such as pressure gauges, min./max. markings, or oil level gauges must be clearly visible. Observe the mounting position requirements.

Drill required holes only on non-critical, non-load-bearing parts of the operator's infrastructure. Use existing holes where possible. Avoid chafe points. Immobilize any moving or detached parts during the work. Adhere to the specified torques.

If guards or safety devices need to be removed, they must be reinstalled immediately following conclusion of work and then checked for proper function.

Check new parts for compliance with the intended use before using them.

Avoid mixing up or incorrectly assembling disassembled parts. Label parts. Clean any dirty parts.

1.19 First start-up, daily start-up

Ensure that:

- All safety devices are fully present and functional
- All connections are properly connected
- All parts are correctly installed
- All warning labels on the product are fully present, visible, and undamaged
- Illegible or missing warning labels are immediately replaced.

1.20 Residual risks

Table 2

Residual risks

Residual risk	Lifecycle phase	Avoidance / Remedy
Electric shock due to defective power lead/power plug.	B, C, D, E, F, G, H	Inspect the power lead/power plug for damage before starting the product.
Electric shock from open electric motor or active energized components.	B, G, H	Disconnect the power plug (cut power) before performing any work on electrical components. Exercise caution when winding and unwinding the power lead and when operating the product.
Strong heating of the electric motor due to a motor jam or continuous duty.	C, D, F, G, H	Turn off the pump motor and let it cool down. Remedy the cause.
Tearing/damage to lines when installed on moving machine components.	B, C, D	If possible, do not perform installation on moving parts. If this cannot be avoided, use flexible hose lines.
Lubricant spraying out due to faulty component fitting/faulty line connection.	C, D, F, G	Tighten all components securely by hand or to the torques specified. Use hydraulic screw unions and lines suitable for the indicated pressures. These must be checked for proper connection and for damage prior to commissioning.
Personal injury / property damage due to spilled, leaked lubricant.	A, B, C, D, E, F, G, H, K	Be careful when filling the reservoir and then connecting or disconnecting the lubricant lines. Use only hydraulic screw unions and lubrication lines suitable for the specified pressure. Follow operational instructions for handling lubricants and contaminated parts.
Environmental contamination by lubricants and wetted parts.	A, K	Dispose of contaminated parts according to the applicable legal/company rules.

Lifecycle; A = Transport, B = Assembly, C = First start-up, D = Operation, E = Cleaning, F = Maintenance, G = Malfunction, repair, H = Shutdown, K = Disposal

2 Lubricants

2.1 General information

Lubricants are selected specifically for the relevant application. The manufacturer or operator of the machine should ideally make the selection in consultation with the supplier of the lubricant. If you have no or little experience in selecting lubricants for lubrication systems, please contact us. We would be happy to assist you in selecting suitable lubricants and components to build a lubrication system optimized for your particular application. Consider the following points when selecting/using lubricants. This will spare you potential downtime and damage to the machine or lubrication system.

2.2 Material compatibility

The lubricants must generally be compatible with the following materials:

- Plastics: ABS, CR, FPM, NBR, NR, PA, PET, PMMA, POM, PP, PS, PTFE, PU, PUR
- Metals: steel, gray cast iron, brass, copper, aluminum.

2.3 Temperature properties

The lubricant used must be suitable for the specific ambient temperature of the product. The viscosity approved for proper functioning must neither be exceeded at low temperatures nor fall too low at high temperatures. For the approved viscosity, see the “Technical data” chapter.

2.4 Aging of lubricants

Based on past experience with the lubricant used, checks should be conducted at regular intervals defined by the operator, to determine whether the lubricant needs to be replaced due to aging processes (oil separation). In case of doubt regarding the continued suitability of the lubricant, it must be replaced before the system is started up again. If you do not yet have any experience with the lubricant used, we recommend conducting a check after just one week.

2.5 Avoidance of faults and hazards

To avoid faults and hazards, please observe the following:

- When handling lubricants, observe the relevant safety data sheet (SDS) and any hazard labeling on the packaging.
- Due to the large number of additives, some lubricants that meet the pumpability requirements specified in the manual are not suitable for use in centralized lubrication systems.
- Whenever possible, always use SKF lubrication greases. They are ideal for use in lubrication systems.
- Do not mix lubricants. This can have unpredictable effects on the properties and usability of the lubricant.
- Use lubricants containing solid lubricants only after technical consultation with SKF.
- The lubricant’s ignition temperature has to be at least 50 kelvin above the maximum surface temperature of the components.

2.6 Solid lubricants

Solid lubricants may only be used after prior consultation with SKF. When solid lubricants are used in lubrication systems, the following rules generally apply:

Graphite:

- Maximum graphite content 8%
- Maximum grain size 25 µm (preferably in lamellar form).

MoS2:

- Maximum MoS2 content 5%
- Maximum grain size 15 µm.

Copper:

- Lubricants containing copper are known to lead to coatings forming on pistons, bore holes, and mating surfaces. This can result in blockages in the centralized lubrication system.

Calcium carbonate:

- Lubricants containing calcium carbonate are known to lead to very heavy wear on pistons, bore holes, and mating surfaces.

Calcium hydroxide:

- Lubricants containing calcium hydroxide are known to harden considerably over time, which can lead to failure of the centralized lubrication system.

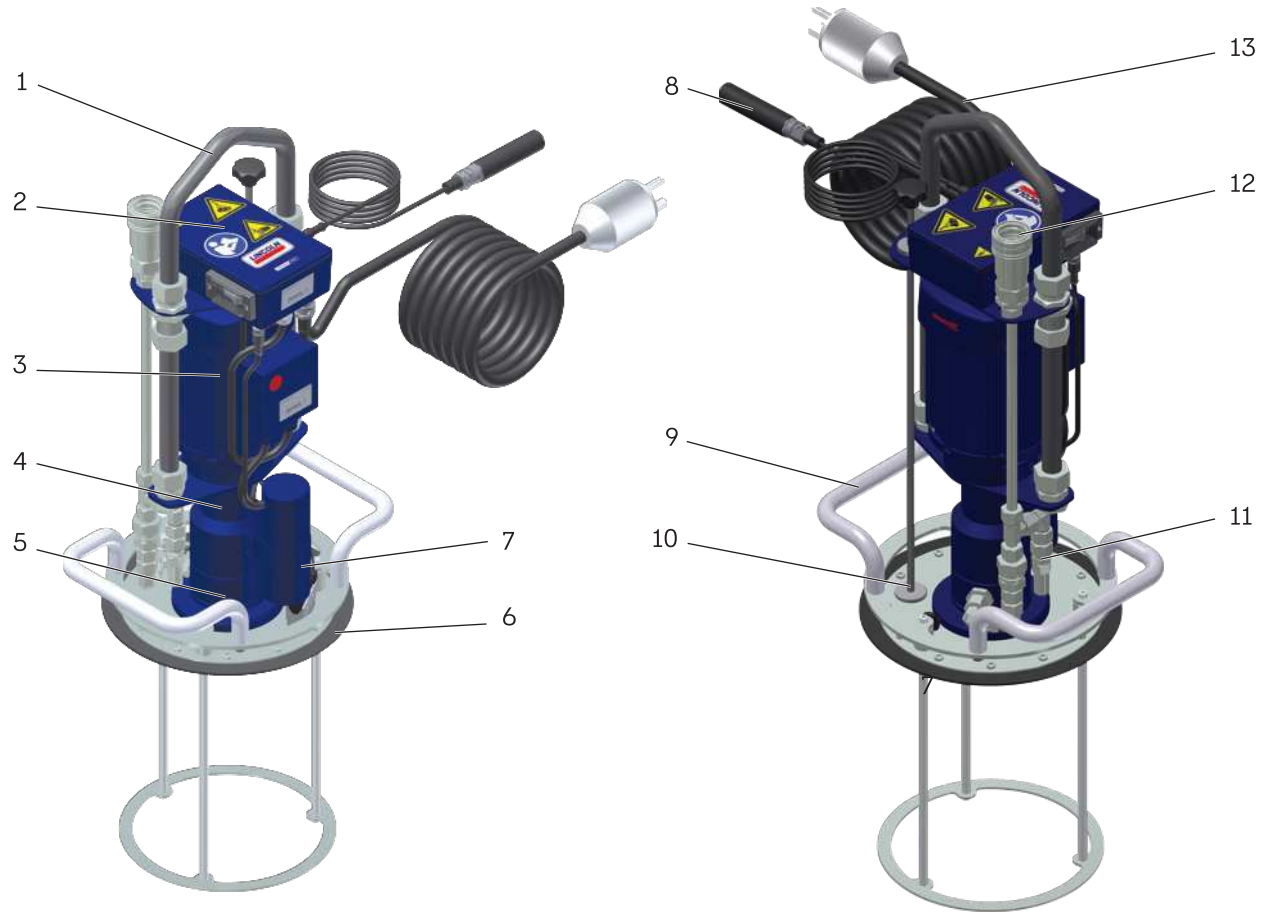
PTFE, zinc, and aluminum:

- For these solid lubricants, it is not yet possible to define any limit values for use in lubrication systems on the basis of existing knowledge and practical experience.

3 Overview, functional description

3.1 Description

Fig. 1



GTP-C filling pump

1 Transport bracket
2 Electric terminal box (→ 3.1.1 *Detailed overview)*
3 Electric motor
4 Gearbox
5 Gerotor pump
6 Pump frame with grease follower plate and fixation (→ 6.2 *Transporting the filling pump to the place of use*)
7 Limit switch for low-level signal
8 Wired remote control (→ 6.4 *Assembly of the wired remote control*)
9 Handles
10 Vent (→ 8.2 *Venting the pump*)
11 Pressure limiting valve
12 Quick coupling for filling hose (→ 6.5 *Installing the filling hose on the GTP-C filling pump*)
13 Power lead (→ 3.1.1 *Detailed overview)*

3.1.1 Detailed overview

Power connection (→ 5 Fig. 2)
The pump is available in three different designs, which differ in terms of power plugs.
(See section 4 *Technical data*)

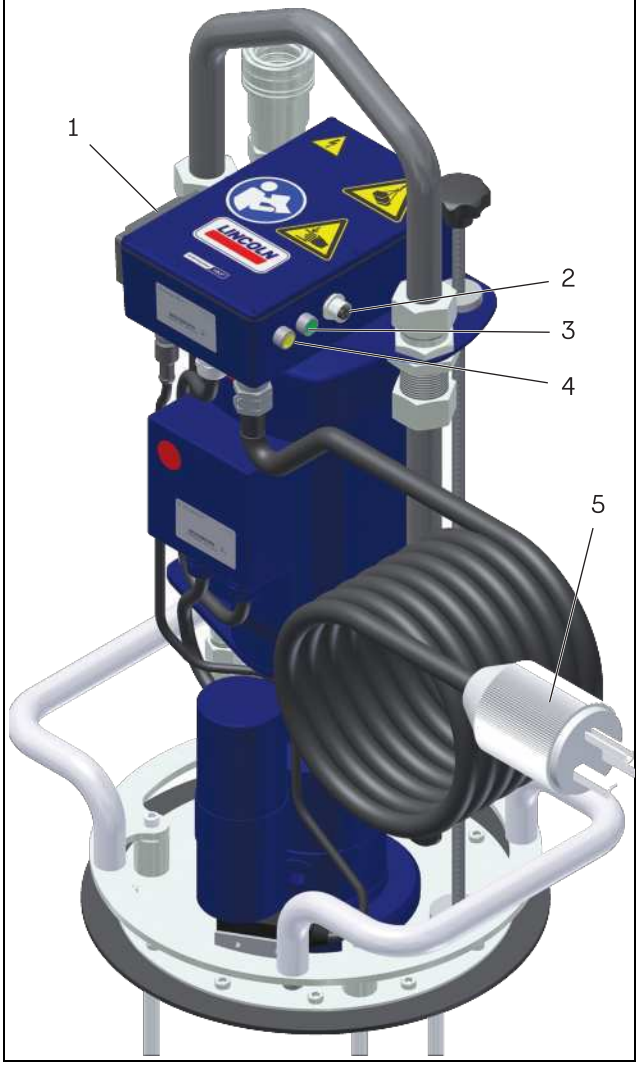
On/off switch for thermal circuit breaker (→ 1 Fig. 2)
Turns the pump on/off. If the motor's thermal circuit breaker has flipped, the pump must be switched on by actuating the switch again. Important: observe the cooldown time.

Green LED (→ 3 Fig. 2)
Lights up when the pump is switched on and the correct supply voltage is applied.

Yellow LED (→ 4 Fig. 2)
Lights up when the pump is switched on and there is a signal from the limit switch (→ 7 Fig. 1). Flashes on low-level signal or if no signal from the limit switch.

Electrical connection for wired remote control
(→ 2 Fig. 2)
Is used to connect to the wired remote control (→ 1 Fig. 3)

Fig. 2

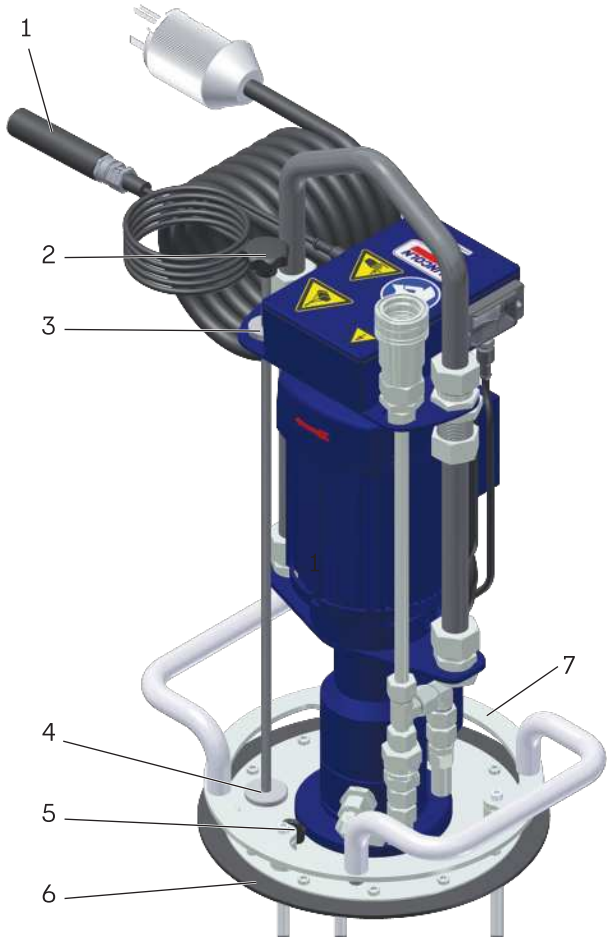


Wired remote control (→ 1 Fig. 3)
Starts/stops the filling process. Press the button to start the filling process. Release the button to stop the filling process. The ON delay between two motor starts is 5 seconds.

Air vent (→ 4 Fig. 3)
Vents the grease reservoir. Venting is required when changing the reservoir and on first start-up.
- To vent, release the lock (→ 3 Fig. 3) from the stop by turning counter-clockwise.
- Then rotate the handle (→ 2 Fig. 3) counter-clockwise approximately 5-6 revolutions.
- To close the vent, proceed in reverse order; turn the lock (→ 3 Fig. 3) downward until the stop.

Fixation (→ 5 Fig. 3)
The fixation is used to fasten the grease follower plate (→ 6 Fig. 3) on the pump frame (→ 7 Fig. 3). This is required when changing the reservoir, on first start-up, or when transporting the pump. To fix the grease follower plate in the upper position, turn the fixation (→ 5 Fig. 3) clockwise by hand until it securely clamps on the pump frame.

Fig. 3



3.2 Function

– See Figure 4

The GTP-C filling pump (**1**) is a compact, mobile, and powerful electric filling pump for filling lubricant reservoirs of lubrication pumps, preferred in the wind energy sector.

The GTP-C filling pump consists of the main components: electric motor (**2**) and control unit (**3**) with wired remote control (**4**), gear (**5**), and gerotor pump (**6**).

The GTP-C is switched on via a thermal circuit breaker (**7**). If the filling pump consumes excessive current due to a blockage or defect, the thermal circuit breaker will flip and switch off the pump. The thermal circuit breaker must not be blocked, bridged, or otherwise manipulated!

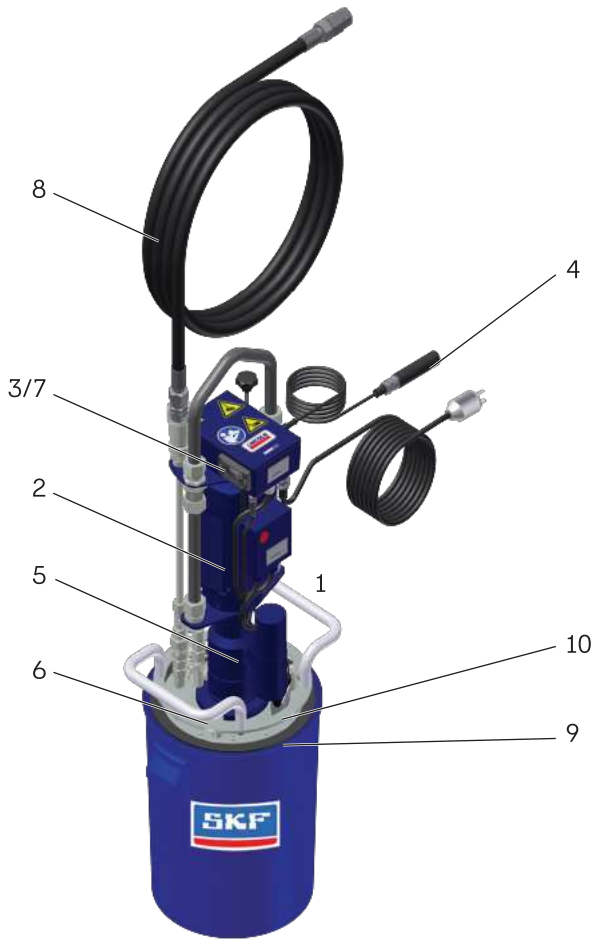
Actuating the pushbutton on the wired remote control triggers a feeding operation, and the electric motor drives the gerotor pump via the downstream gear. The gerotor pump feeds the lubricant to the customer's lubrication pump via the connected filling hose (**8**). Lubricant is fed continuously for as long as the pushbutton is pressed.

A check valve attached to the pump prevents the pressurized lubricating medium from being pressed back. A pressure relief valve protects the filling pump and the hose line against overpressure. if the default pressure is exceeded, the pressure relief valve opens and protects the filling pump against overload. Neither valve may be removed or manipulated!

The more lubricant the GTP-C feeds, the lower the grease follower plate (**9**) with pump sinks in the grease drum. The GTP-C has an low-level signal (**10**) that automatically switches the pump off once the minimum level is reached in the grease reservoir. This prevents air from being suctioned into the customer-provided lubricant reservoir.

To avoid overloading the filling pump, it switches off after 15 minutes of continuous duty. It can be restarter by pressing the pushbutton on the wired remote control again. An ON delay of 5 seconds is set between two motor runs.

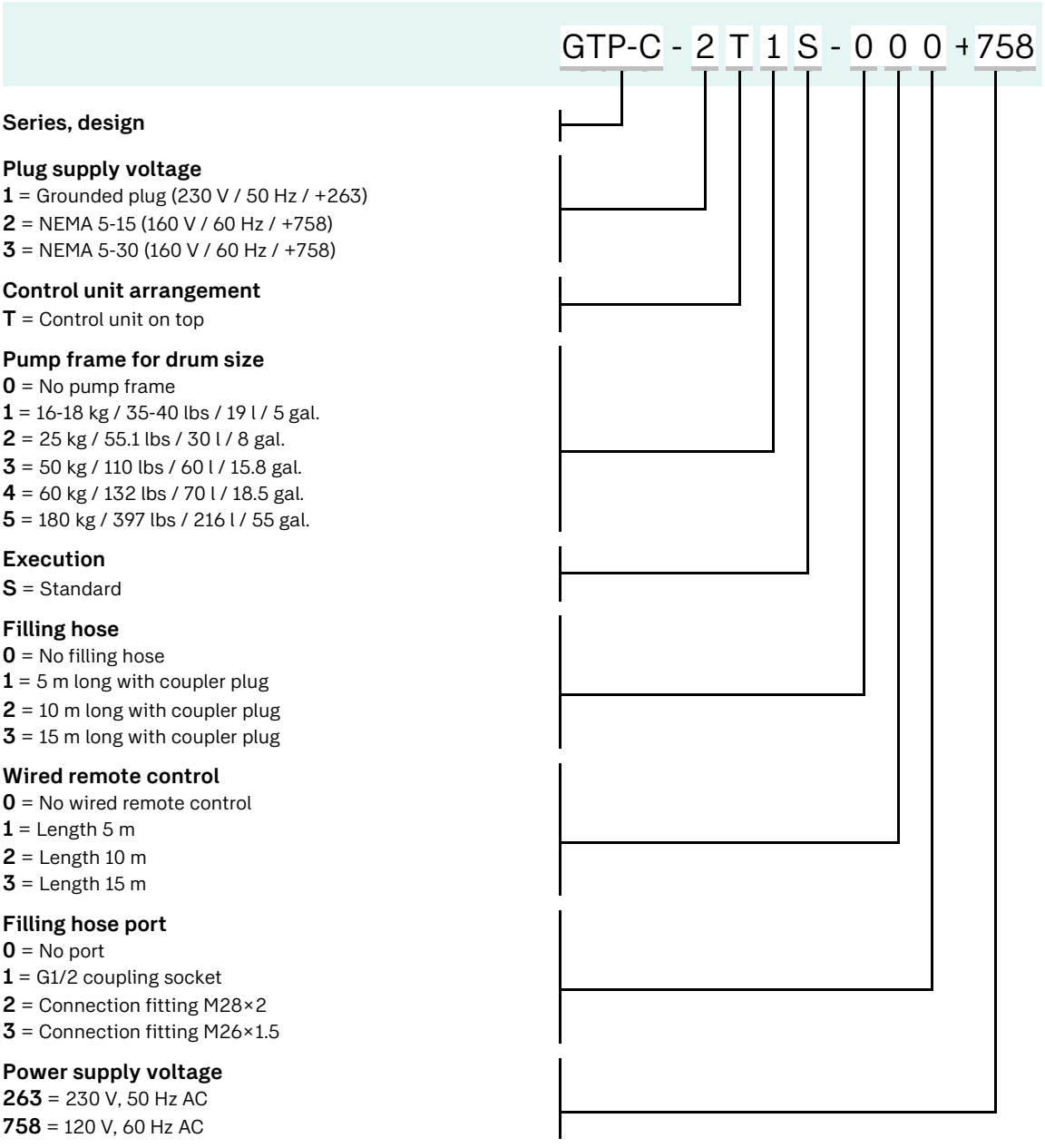
Fig. 4



3.3 GTP-C type identification code

Table 3

Type identification code of GTP-C pumps



4 Technical data

Table 4

Technical data

Parameters	Values	
Electric motor design	230 V, 50 HZ	120 V, 60 Hz
Motor		
Power supply voltage	220 - 240 V AC	105 to 127 V AC
Frequency	50 Hz ± 10%	60 Hz ± 10%
Fusing (provided by customer)	C10 A or B 16 A	15 A for power plug acc. to NEMA 5-15P 30 A for power plug acc. to NEMA 5-30P
Rated current	3.1 A	6.7 A
Starting current	approx. 9 A	22.9 A
Power	0.37 kW	
Motor speed	1400 rpm	1710 rpm
Operating mode	S3-60% duty cycle (cyclic duration factor based on a cycle duration of 10 min.) S1	
Insulation class	F	
Type	B14	
Switch-on delay	5 seconds between two motor runs	
Automatic shut-off	15 minutes after last motor start, re-start by actuating wired remote control (switch off)	
Electrical connection plug, cable length 3 m each	Grounded plug	NEMA 5-15 P NEMA 5-30 P
IP protection class	IP 54	
Pump		
Pump type	Gerotor pump	
Gearbox	Planetary gear i = 4:1	Planetary gear i = 5:1
Recommended operating pressure	max. 100 bar / 1500 psi	max. 80 bar / 1200 psi
Pressure limiting valve	150 bar / 2175 psi (non-adjustable)	Approx. 100 bar / 1450 psi (non-adjustable)
Operating temperature	min. -10°C / max. + 50°C / min. 15°F / max. 120°F	
Operating position	Vertical, deviation ±5°	
Sound pressure level	< 70 dB(A)	
Delivery rate, nominal	1.0 l/min (+20°C and 50 bar / at 70°F and 700 psi back pressure, tested with Fuchs Gleitmo 585 K)	
Filling hose		
Specifications	High-pressure hose KP 120 (1SC) G3/4“ NW 19	
Transport / storage	Bend radius min. 180 mm - Do not kink	
Lubricants		
Consistency class (NLGI Grade)	NLGI 1 or NLGI 2	
Flow pressure	Max. 700 mbar / 10 psi	
Solids content	max. 5%	
Material compatible with	Steel/brass/copper/aluminum/NBR/FKM (FPM)/PU	

Table 5

Approved lubricants

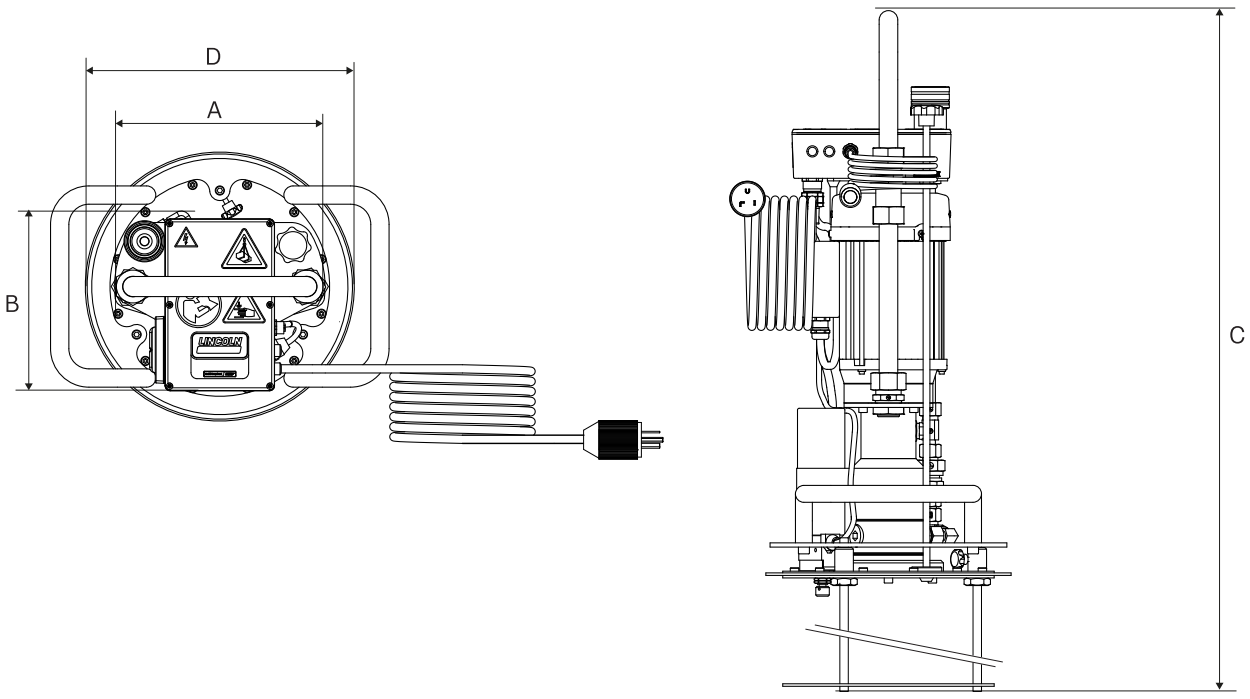
SKF	LGWM 2
Fuchs	Gleitmo 585 K RENOCAL FN 745/94
Mobile	SHC 460 WT (feedable down to -5°C)
Klüber	Klüberplex BEM 41-132

Table 6

Grease reservoir sizes

[kg]	[lbs]	[l]	[gal.]		[mm]	[in.]
				Inner diameter, max.	285	11.20
16-18	35-40	19	5	Inner diameter, min.	255	10.04
				Height	Approx. 360	Approx. 14.17
				Inner diameter, max.	335	13.20
25	55	30	8	Inner diameter, min.	305	12.00
				Height	Approx. 385	15.16
				Inner diameter, max.	370	14.57
50	110	60	15.8	Inner diameter, min.	350	13.78
				Height	Approx. 640	25.20
				Inner diameter, max.	370	14.57
60	132	70	18.5	Inner diameter, min.	350	13.78
				Height	Approx. 765	30.12
				Inner diameter, max.	585	20.03
180	400	216	55	Inner diameter, min.	565	22.24
				Height	Approx. 850	33.46

Fig. 5



Minimum mounting dimensions

Table 7

Dimensions

Drum size Type				Pump width A		Pump width B		Pump frame for grease reservoir C "max" height		Pump frame for grease reservoir C "min" height		Pump frame for grease reservoir D diameter		Total weight	
[kg]	[lbs]	[l]	[gal.]	[mm]	[in.]	[mm]	[in.]	[mm]	[in.]	[mm]	[in.]	[mm]	[in.]	[kg]	[lbs]
None				240	94	200	7.9	-	-	-	-	-	-	21	46.1
16-18	35-40	19	5.0					1000	39.4	690	27.2	290	11.4	24	52.9
25	55.1	30	8.0					1020	40.2	690	27.2	328	12.9	24.6	54.2
50	110.0	60	15.8					1275	50.2	700	27.6	350	13.8	26	57.3
60	132.0	70	18.5					1400	55.1	820	32.3	350	13.8	27	59.5
180	397.0	216	55.0					1485	58.5	905	35.6	560	22.0	30	66.1

5 Delivery, returns, storage

5.1 Delivery

After receipt of the shipment, it must be inspected for any shipping damage and for completeness according to the shipping documents. Immediately inform the transport carrier of any shipping damage. The packaging material must be preserved until any discrepancies are resolved.

5.2 Return shipment

Before return shipment, all contaminated parts must be cleaned. If this is not possible or practical, e.g. if it would impede fault detection in the case of complaints, the medium used must always be specified. In the case of products contaminated with hazardous substances as defined by GHS or CLP regulations, the safety data sheet (SDS) must be sent with the product and the packaging must be labelled in accordance with GHS/CLP. There are no restrictions for land, air, or sea transport. The choice of packaging should be based on the specific product and the stresses to be expected during transport (e.g., necessary anti-corrosion measures in the case of shipment by sea). In the case of wooden packaging, the applicable import regulations and the IPPC standards must be observed. Required certificates must be included in the shipping documents. The following information, as a minimum, must be marked on the packaging of return shipments.

Fig. 6



Marking of return shipments

5.3 Storage

The following conditions apply to storage:

- Dry, low-dust, vibration-free, in closed rooms
- No corrosive, aggressive substances at the storage location (e.g., UV rays, ozone)
- Protected against animals (insects, rodents)
- If possible, keep in the original product packaging
- Protected from nearby sources of heat or cold
- In the case of large temperature fluctuations or high humidity, take appropriate measures (e.g., heating) to prevent the condensation of water
- Before usage, check products for damage that may have occurred during storage. This applies in particular to parts made of plastic (due to embrittlement).

5.4 Storage temperature range

For parts not filled with lubricant, the permitted storage temperature is the same as the permitted ambient temperature range (see “Technical data”).

6 Assembly

6.1 Notes on first start-up and operation

When starting up the GTP-C filling pump for the first time, the following instructions must be followed.

- Other units of the machine/system must not be damaged or their function impaired by the start-up/operation of the GTP-C filling pump.
- Conduct assembly work only after de-energizing and depressurizing the filling pump.
- Do not touch cables or electrical components with wet or damp hands.
- Check the power cable for damage prior to establishing the electrical connection. Connect only to an undamaged “socket outlet with reed contact” and within permitted specifications.
- Take appropriate measures to ensure that moving and detached parts are immobilized during operation of the GTP-C and that no limbs can be pinched by unintended movements.
- Set up the GTP-C filling pump only outside the operating range of moving parts, at an adequate distance from sources of heat or cold.
- When installing the grease reservoir, do not reach between the reservoir rim and the grease follower plate. Hands and fingers could be crushed. Two people are required to install the grease reservoir.
- If necessary, use appropriate means (e.g., chain, hook, rope) to secure the pump against tipping, for example due to excessive pulling on the filling hose.
- Immediately apply suitable binding agents to any lubricant leaked or spilled during installation of the grease reservoir, and remove the bound lubricant.
- Follow operational and legal rules for handling contaminated parts.
- Avoid damaging the filling hose. During operation, do not pull the hose over sharp edges/chafe points.
- Check the filling hose for damage at regular intervals.

- At regular intervals, check that:
  - All protective and safety mechanisms are fully present and functional.
  - All connections are properly connected.
  - All parts are correctly installed.
  - All warning and information labels on the machine are fully present, visible, and undamaged.
  - Illegible or missing warning and information labels are immediately replaced.

IMPORTANT

The pump with power plug type NEMA 5-15P can temporarily draw more than 15 A of current during start-up. This may cause a highly sensitive circuit breaker to flip, especially if other electrical devices are also connected. In this case, the pump should be connected to a suitable circuit breaker.

6.2 Transporting the filling pump to the place of use

The GTP-C filling pump is typically transported to the place of use in a transport drum with two handles.

The handles are not designed to connect hoisting equipment. Only the transport bracket on the pump is to be used.

The use of ropes on the handles to secure the transport drum (against falling) is, however, permitted.
The transport drum may be loaded only with the GTP-C filling pump, without grease reservoir and its filling hose. All parts must be secured against falling.

⚠ WARNING



Tilting

Do not tilt or drop the product.

⚠ WARNING



Hoisted pump

Avoid the area under a hoisted pump.
Unauthorized persons must be kept away.
Use only tested hoisting equipment and load-bearing equipment with sufficient load-bearing capacity.
If the pump is hoisted on the transport bracket, no other loads (e.g., grease reservoir) may be hoisted with it. Check the transport bracket and transport drum for damage at regular intervals.

Lifting by the transport bracket
See Fig. 7

1. Secure the grease follower plate (**1**) using a fixing screw (**2**).
2. Ensure that the GTP-C filling pump (**3**) is completely lowered into the transport drum (**4**).
3. Attach suitable lifting gear to the transport bracket (**5**) of the GTP-C filling pump (**3**).

⚠ CAUTION



Tensile load

Minimum permissible tensile load: 50 kg / 111 lbs

4. When lifting the transport drum (**4**), secure it against falling by means of ropes (**6**) on the GTP-C filling pump.
5. Slowly lift the GTP-C filling pump (**3**).

IMPORTANT

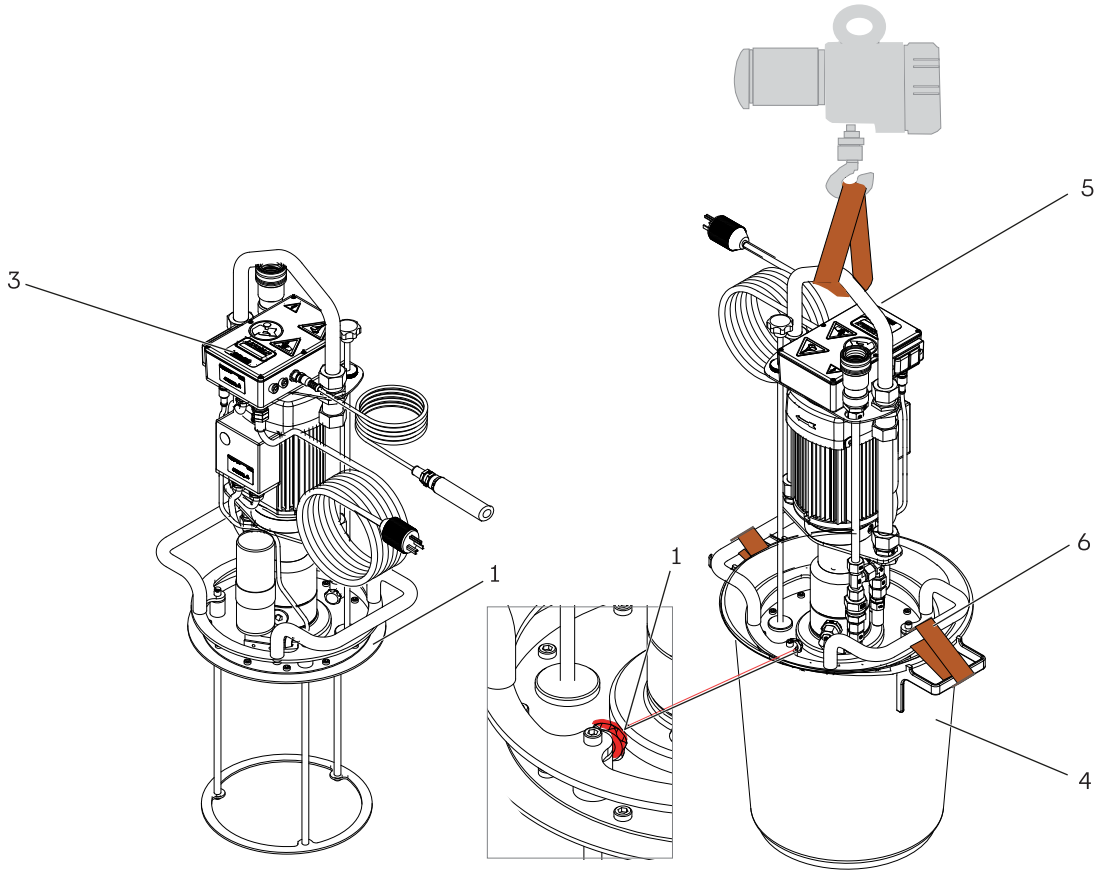
Do not attach any further loads!

IMPORTANT

Wind turbines

Observe the maximum wind speed when lifting externally on the mast.

Fig. 7



Lifting the pump

6.3 Inserting the GTP-C filling pump into a grease reservoir

⚠ CAUTION

Crushing hazard

Hand and finger crushing hazard
When inserting the pump into a grease reservoir, never reach between the reservoir rim and the grease follower plate.

⚠ CAUTION

Slipping hazard

Slipping hazard due to leaked lubricant. Immediately apply suitable binding agents and remove the leaked lubricant. Warn any other people. Prohibit access to affected areas.

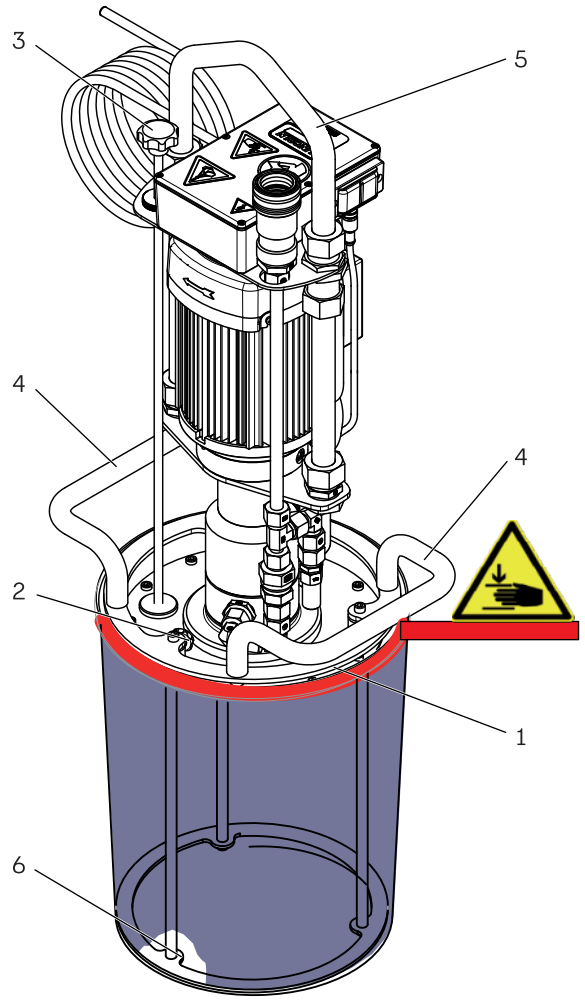
Before inserting the GTP-C filling pump into the grease reservoir, check whether the grease reservoir is suitable for the grease follower plates; see section 4 *Technical data*section 4 Data </ dg_ref_source_inline>.

See Figure 8

1. Lock the grease follower plate (**1**) with fixation (**2**) at the top of the pump frame.
2. Open the vent (**3**) by 5-6 revolutions.
3. Remove the cover of the grease reservoir.

4. Lift the pump by the handles (**4**) or the transport bracket (**5**) and insert it straight into the grease reservoir.
5. Lower the pump frame (**6**) entirely into the grease reservoir by pressing on the handles (**4**). The pump frame must be on the bottom of the grease reservoir.
6. Release the fixation (**2**). The grease follower plate (**1**) descends to the level of the grease in the grease reservoir.
7. Close and lock the vent (**3**) once the grease follower plate has lowered completely (low grease discharge at the vent).

Fig. 8



Inserting the GTP-C filling pump

6.4 Assembly of the wired remote control

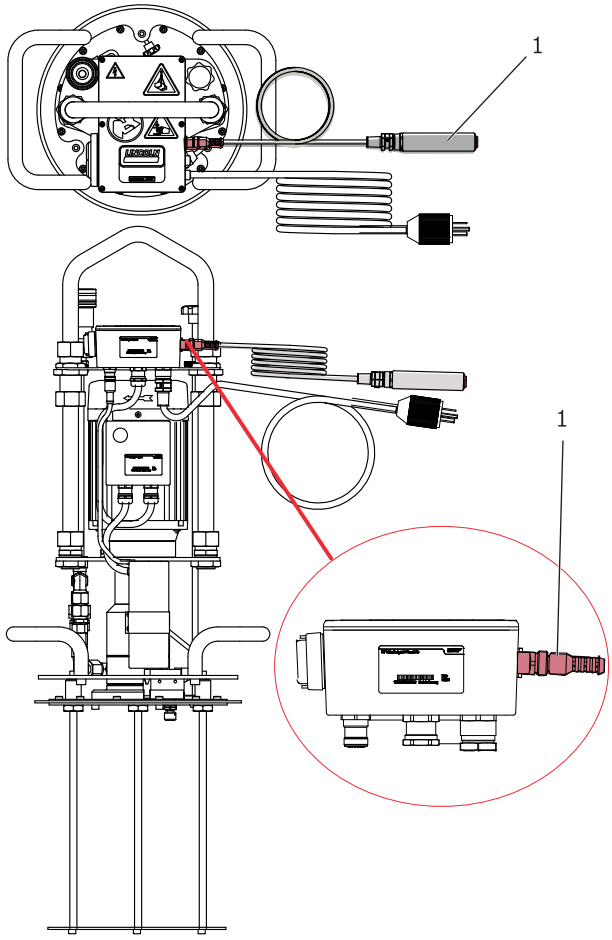
The wired remote control is an integral part of the pump, which does not run without it.

See Figure 9

1. Check the wired remote control (**1**) for damage.
2. Connect the plug (**2**) of the wired remote control to the mating part on the GTP-C filling pump.

Removal of the wired remote control is performed in reverse order.

Fig. 9



Assembly of the wired remote control

6.5 Installing the filling hose on the GTP-C filling pump

⚠ CAUTION

Hydraulic pressure

Before installation, check the filling hose for damage and contamination. Do not install a damaged filling hose! Remove any contamination before installation.

6.5.1 Installing a filling hose with quick coupling

See Figure 10

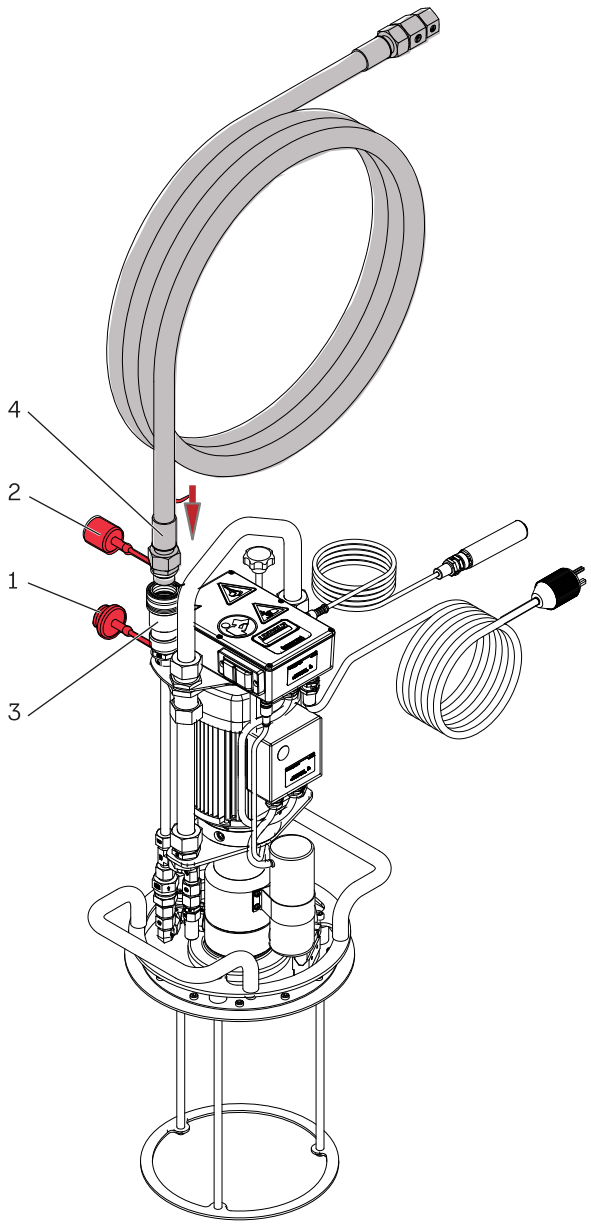
1. Remove the cap (**1**) from the hydraulic socket on the GTP-C filling pump.
2. Remove the cap (**2**) from the hydraulic plug on the filling hose.
3. Pull the hydraulic socket (**3**) downward and connect it to the hydraulic plug (**4**).

6.5.2 Installing a filling hose with connection thread

1. Tighten the filling hose on thread M30 x 2 by hand until it is firmly seated, and then tighten an additional one-quarter revolution with an open-end wrench.

Removal of the filling hose is performed in reverse order.

Fig. 10



Installing the *filling hose*

6.6 Installing adapters to connect to various lubrication pumps

6.6.1 Lubrication pumps of SKF series KFG and P203 with G1/4 adapter

1. Install the filler coupling (→ 1 Fig. 11) on the filling hose (→ 2 Fig. 11) of the filling pump

NOTE
If necessary, remove any existing adapter from the filling hose.

2. Remove the G1/4 plug screw from the pump housing (KFG).
3. In place of the plug screw, install the coupler plug (→ 3 Fig. 11) in the KFG pump housing.

or

4. Remove the M22x1.5 plug screw from the pump housing (P203).
5. In place of the plug screw, install the coupler plug (→ 4 Fig. 11) in the P203 pump housing.
6. Route the hydraulic hose to the lubrication pump.
7. Connect the hydraulic hose to the lubrication pump (quick coupling).

Fig. 11

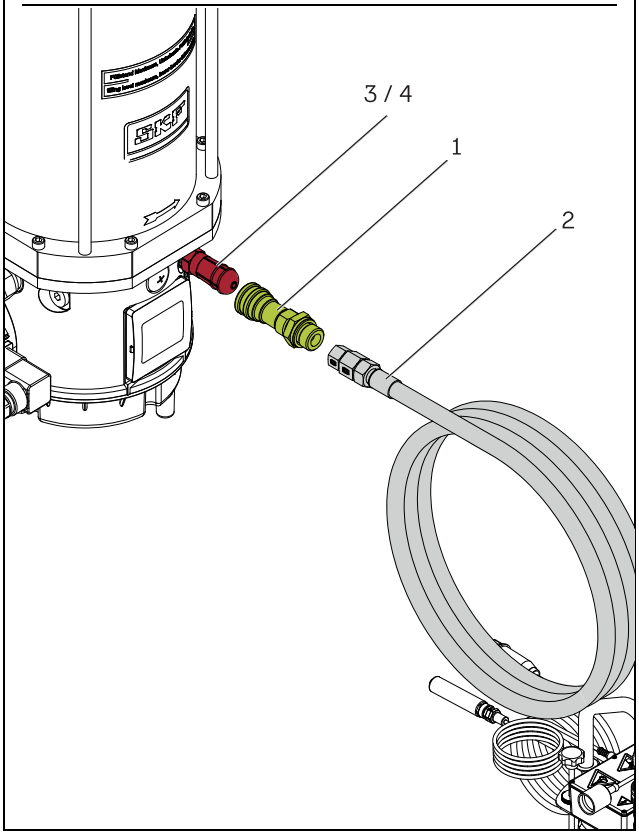


Table 8

Accessories

No.	Description	Order No.
1	Filler coupling socket complete	24-0159-2111
2	Filling hose	24-1868-4337 to 24-1868-4342
3	KFG G1/4 coupler plug	995-000-705
4	P203 G1/4 fill connection complete	540-31800-1

6.6.2 Lubrication pumps of SKF series KFG with 20x1.5 adapter

1. Install the filler coupling (→ 1 Fig. 12) on the filling hose (→ 2 Fig. 12) of the filling pump

NOTE

If necessary, remove any existing adapter from the filling hose.

2. Remove the G1/4 plug screw from the pump housing (KFG).
3. In place of the plug screw, install the straight fill connection (→ 3 Fig. 12) oder (→ 4 Fig. 12) in the KFG pump housing.
4. Route the hydraulic hose to the lubrication pump.
5. Connect the hydraulic hose to the lubrication pump (quick coupling).

Fig. 12

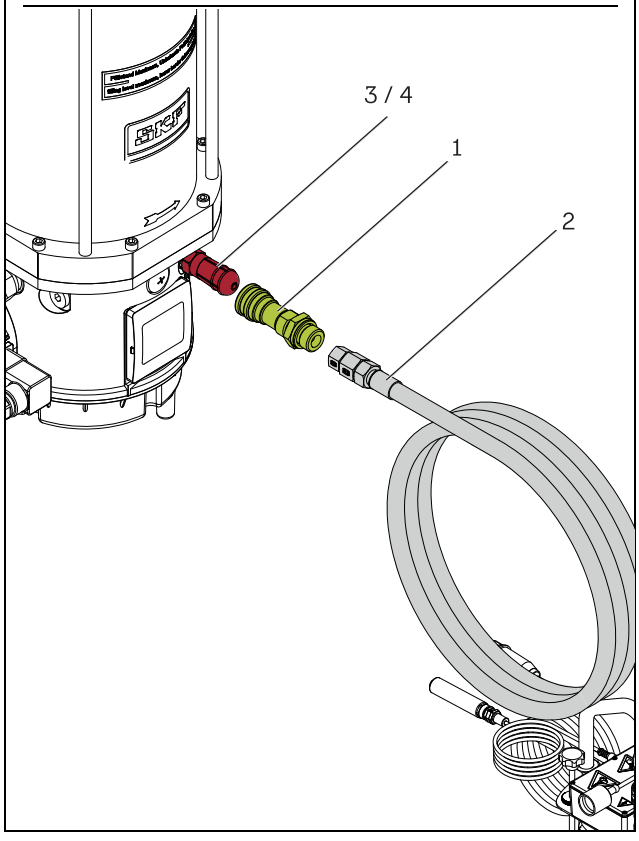


Table 9

Accessories

No.	Description	Order No.
1	Filler coupling socket complete	24-0159-2113
2	Filling hose	24-1868-4337 to 24-1868-4342
3	M20x1.5 fill connection, short	169-000-174
4	M20x1.5 fill connection, long	169-000-170

6.6.3 Lubrication pumps of SKF series P 203, P 223, P 233, P 243, P 603, and P 653

1. Install the connection fitting (→ 1 Fig. 13) on the filling hose (→ 2 Fig. 13) of the filling pump

NOTE

If necessary, remove any existing adapter from the filling hose.

2. Remove the 22x1.5 plug screw from the pump housing.
3. In place of the plug screw, install the desired fill connection (→ 3 to 6 Fig. 13) in the pump housing.
4. Route the hydraulic hose to the lubrication pump.
5. Put the connection fitting (→ 1 Fig. 13) of the hydraulic hose on the fill connection of the lubrication pump and tighten it finger-tight with the union nut.

Fig. 13

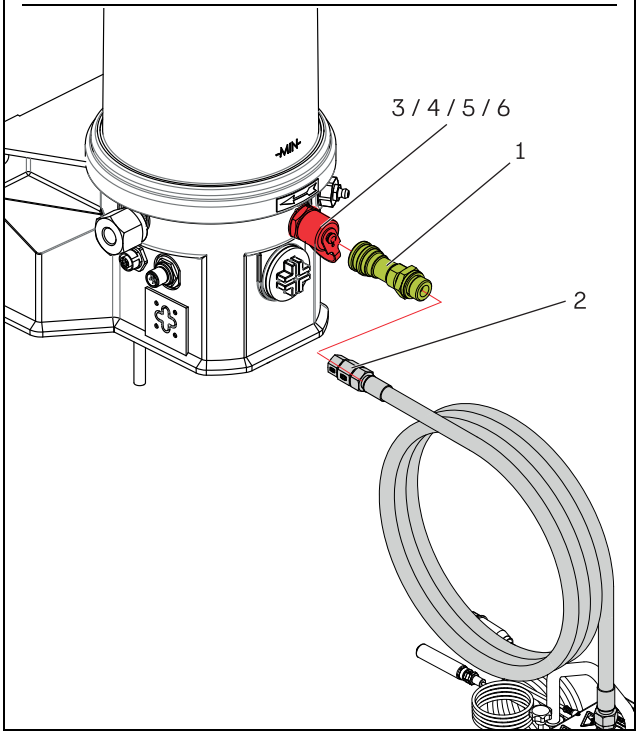


Table 10

Accessories

No.	Description	Order No.
1	Connection fitting	24-0159-2110
2	Filling hose	24-1868-4337 to 24-1868-4342
3	Straight M22x1.5 fill connection	538-36763-1
4	Straight M22x1.5 fill connection, long	538-36763-5
	Fill connection 90° 538-36763-2	538-36763-2
	Fill connection 90° long 538-36763-4	538-36763-4

7 First start-up

To ensure safety and functionality, the person specified by the operator is required to perform the following inspections. Any detected deficiencies must be resolved immediately. The correction of deficiencies must be done exclusively by a specialist competent and authorized to do so.

⚠ WARNING



Electric shock

Do not touch cables or connectors of the filling pump with wet or moist hands. Connect the filling pump only to an electricity supply with protective earth (PE) conductor.

⚠ CAUTION



Slipping and tripping hazard

Pay attention to the position of the filling hose while working. After completing the work, store the hose outside of the pathway.

7.1 Inspections before first start-up

Table 11

Checklist: Inspections before first start-up

Inspections to be performed	YES	NO
Electrical connection established correctly.	☐	☐
Mechanical connection established correctly.	☐	☐
The performance characteristics for the aforementioned connections match the specifications in the “Technical data”.	☐	☐
All components such as lubrication lines and adapters are correctly installed.	☐	☐
No apparent damage, contamination, or corrosion.	☐	☐

7.2 Inspections during first start-up

Table 12

Checklist: Inspections during first start-up

Inspections to be performed	YES	NO
No unusual noises, vibrations, moisture accumulation, or odors present.	☐	☐
No undesired discharge of lubricant at connections (leakage).	☐	☐
Lubricant is fed without bubbles.	☐	☐
The bearings and friction points requiring lubrication receive the planned lubricant volume.	☐	☐

IMPORTANT

Cleaning procedures, required protective gear, cleaning agents, and equipment should be in accordance with the current operating rules of the owner-operator.



⚠ CAUTION



Bursting hazard

Do not overfill the lubrication pump reservoir, as this could damage the reservoir. Always monitor the filling process.

7.3 First start-up

The GTP-C mobile filling pump has been factory-tested for proper functioning with testing oil. Therefore, observe the following during first start-up:

See Fig. 14

1. Insert the filling pump into the grease reservoir in accordance with section 6.3 *Inserting the GTP-C filling pump into a grease reservoir*.
2. If necessary, connect the filling hose (**1**) and wired remote control (**2**) to the pump.
3. Connect the power plug (**3**) to the customer's electricity supply.
4. Switch on the thermal circuit breaker (**4**).
5. Hold the filling hose (**1**) in a collecting vessel.
6. Keep pressing the pushbutton on the wired remote control (**2**) until grease discharges from the filling hose (**1**) instead of testing oil.

Due to the nature of the system, pumping problems may occur on first start-up or after extended pump downtime. If this happens, vent the pump according to section 8.2 *Venting the pump*.

7. Disconnect the power plug (**3**).

Fig. 14



Operating the GTP-C filling pump

8 Operation

SKF products operate largely automatically.

The activities required during normal operation are limited primarily to inspection of the fill level, timely replacement of the grease drum, and cleaning the exterior of the product if contaminated.

IMPORTANT

The NEMA 5-15P design can briefly draw a starting current greater than 15 amperes from the supply network when the pump is switched on. In case of a very sensitive automatic circuit breaker or in combination with other loads on the same circuit, this may trigger the circuit breaker. If this happens, connect the pump to a different circuit or, optimally, remove or switch off other loads on the circuit.

IMPORTANT



Cleaning procedures, required protective gear, cleaning agents, and equipment should be in accordance with the current operating rules of the owner-operator.

⚠ WARNING



Electric shock

Do not touch cables or connectors of the filling pump with wet or moist hands. Connect the filling pump only to an electricity supply with protective earth (PE) conductor.

⚠ CAUTION



Slipping and tripping hazard

Pay attention to the position of the filling hose while working. After completing the work, store the hose outside of the pathway.

⚠ CAUTION



Bursting hazard

Do not overfill the lubrication pump reservoir, as this could damage the reservoir. Always monitor the filling process.

IMPORTANT



Only feed with clean grease.

The purity of the lubricants used is the decisive factor
in the service life of the pump and the lubricated machinery elements.

8.1 Operating the GTP-C filling pump

See Fig. 14

1. Insert the filling pump into the grease reservoir in accordance with section 6.3 *Inserting the GTP-C filling pump into a grease reservoir*.
2. If necessary, connect the filling hose (**1**) and wired remote control (**2**) to the pump.
3. Connect the power plug (**3**) to the customer's electricity supply.
4. Switch on the thermal circuit breaker (**4**).
5. Route the filling hose (**1**) to the pump that will be filled, and couple it to the pump.
6. Press the pushbutton on the wired remote control and fill the lubrication pump reservoir.

IMPORTANT



Do not overfill the reservoir.
Always monitor the filling process.

7. Release the pushbutton on the wired remote control (**2**) once the maximum fill level is reached.
8. Repeat the filling process on the next lubrication pump, if applicable.
9. After completing the work, switch off the pump with the thermal circuit breaker (**4**).
10. Disconnect the power plug (**3**).

8.2 Venting the pump

Due to the nature of the system, pumping problems may occur on first start-up or after extended pump downtime. If this happens, immediately vent the pump.

To avoid operating errors in the venting process, such as loosening the screw union while simultaneously actuating the wired remote control, this work must be done by only one person.

⚠ CAUTION



Hydraulic pressure

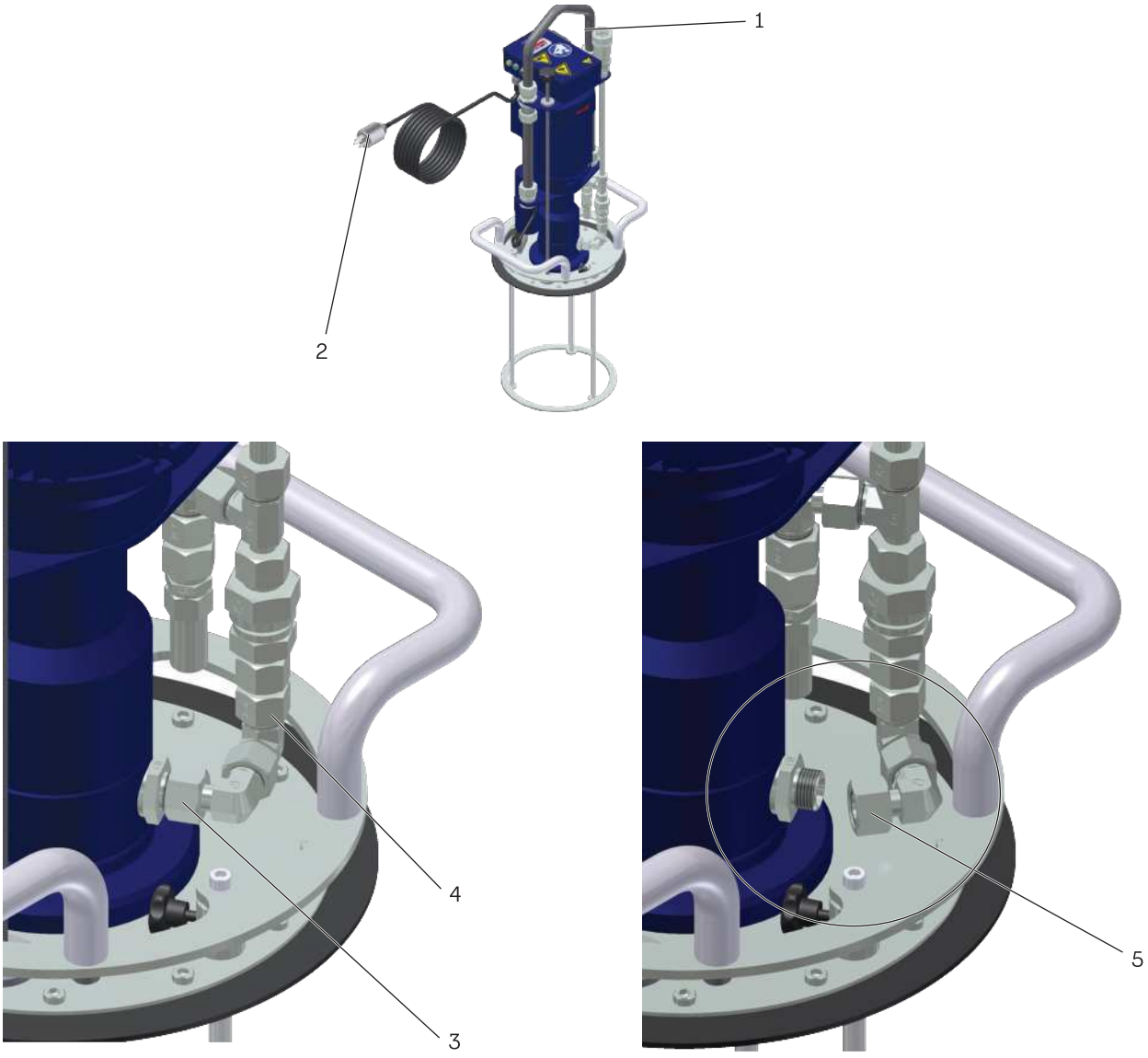
When switching on the pump in the procedure below, air and/or lubricant may discharge from the loosened screw union.

See Fig. 15

Proceed as follows:

1. Exclude other causes of the fault
2. Switch off the pump (**1**)
3. Disconnect the power plug (**2**)
4. Loosen the union nuts (**3**/**4**)
5. Turn the elbow (**5**) to the side
6. Connect to the power supply
7. Start up the pump (**1**) briefly
8. Switch off the pump (**1**) once bubble-free lubricant discharges
9. Disconnect the power plug (**2**)
10. Turn the elbow (**5**) back
11. Tighten the union nut (**3**/**4**) and then tighten further by approx. 30° to 60°

Fig. 15



Venting the pump

9 Maintenance

Careful and regular maintenance is required in order to detect and remedy possible faults in time. The operator must always determine the specific intervals according to the operating conditions, review them regularly, and adjust them where necessary. If necessary, copy the table for regular maintenance activities.

Table 13

Checklist: Maintenance activities

Activity to be performed	YES	NO
Mechanical and hydraulic connections established correctly	☐	☐
The performance characteristics for the aforementioned connections match the specifications in the "Technical data"	☐	☐
No apparent damage, contamination, or corrosion	☐	☐
All warning labels on the product are present and in proper condition	☐	☐
No unusual noises, vibrations, moisture accumulation, or odors present	☐	☐
No undesired discharge of lubricant (leakages) at connections	☐	☐
Lubricant is fed without bubbles	☐	☐
Special inspection after certain events		
Accidents, collisions/exceptional natural events	☐	☐
Changes to the machine/installation of a new filling hose	☐	☐
Extended downtime	☐	☐

10 Cleaning

10.1 Basics

Cleaning should be carried out in accordance with the operator's own company rules, and cleaning agents and devices and the personal protective equipment to be used should likewise be selected in accordance with those rules. Only cleaning agents compatible with the materials may be used for cleaning. Completely remove any cleaning agent residue left on the product and rinse with clear water. Unauthorized persons must be kept away. Use signage to indicate wet areas.

10.2 Interior cleaning

The interior normally does not need to be cleaned. The interior of the product must be cleaned if incorrect or contaminated lubricant accidentally enters the product. Please contact our Service department.

10.3 Exterior cleaning

Do not allow any cleaning fluid to enter the interior of the product during cleaning.

⚠ WARNING



Risk of fatal electric shock



Cleaning work may only be performed on products that have been de-energized first. When cleaning electrical components, be mindful of the IP enclosure rating.

⚠ WARNING



Serious injury from contact with or inhalation of hazardous substances







Wear personal protective equipment. Observe the safety data sheet (SDS) of the hazardous substance. Avoid contaminating other objects or the environment during cleaning.

11 Faults, causes, and remedies

The following tables provide an overview of possible malfunctions and their causes. Contact the SKF Service department if you cannot remedy the malfunction.

IMPORTANT

Only original SKF spare parts may be used. Unauthorized alterations to products and the use of non-original spare parts and accessories are prohibited.

IMPORTANT

Dismantling of the pump unit (pump/gear/motor) is prohibited and voids any claims.
Defective pump units must be replaced. Only SKF Service is capable of repairing these.

Table 14

Fault table

Fault	Possible cause	Remedy
No delivery	Grease reservoir empty (yellow LED flashing).	• Replace grease reservoir.
	Pump does not run	• Switch on the pump. • Plug in the power plug. • Check the fuse on the electricity supply. • Check/switch on the thermal circuit breaker.
	Pump is drawing air. Follower plate is stuck.	• Unlock the grease follower plate. • Vent the grease reservoir. • Close and lock the vent.
	Plug for low-level signal not installed correctly or sensor defective (yellow LED flashing).	• Check and, if applicable, install correctly or replace sensor.
	Electrical connection for wired remote control not established correctly.	• Check and, if applicable, install correctly.
	Wired remote control cable defective.	• Replace the wired remote control.
	Wired remote control button defective.	• Replace the wired remote control.
Supply from pump is insufficient	Follower plate is stuck.	• Check whether the fixation of the follower plate is fully opened. • Check and, if applicable, vent the grease reservoir.
	Air inclusions (bubbles) in the lubricant.	• Vent the grease reservoir.

12 Repairs

⚠ WARNING



Risk of injury
At a minimum, the following safety measures must be taken before any repairs:





- Unauthorized persons must be kept away
- Mark and secure the work area
- Depressurize the product
- Isolate the product, and lock and tag it out
- Check to ensure live voltage is no longer present
- Ground and short-circuit the product
- Cover any adjacent live parts.

13 Shutdown, disposal

13.1 Temporary shutdown

Temporary shutdowns should be done by a course of action to be defined by the operator.

13.2 Permanent shutdown, disassembly

Permanent shutdown and disassembly of the product must be planned properly by the operator and conducted in compliance with all applicable laws and regulations.

13.3 Disposal

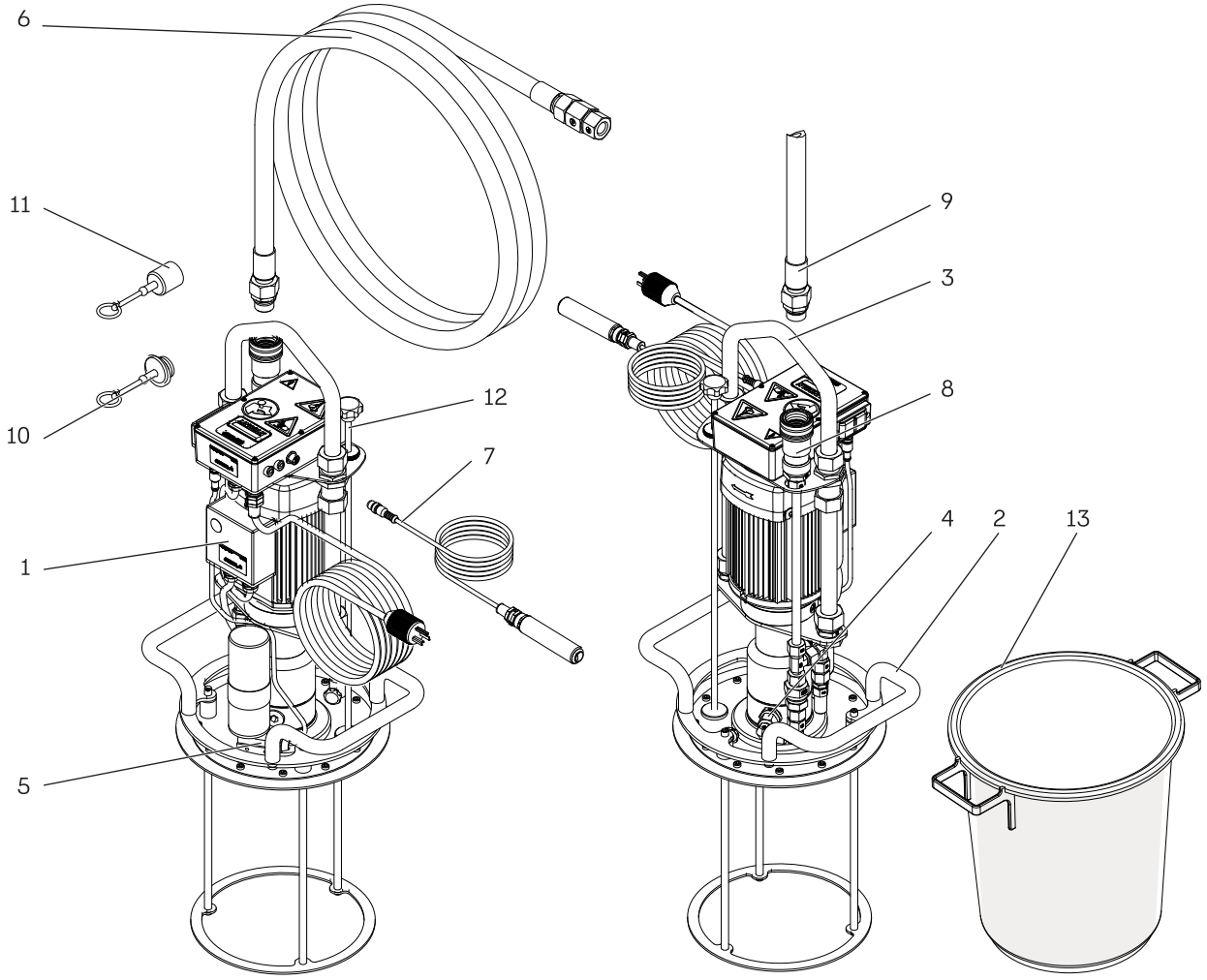
The waste producer/operator must dispose of the various types of waste in accordance with the applicable laws and regulations of the country in question.

14 Spare parts

14.1 Spare parts

Spare parts may be used exclusively for replacement of identical defective parts. Modifications with spare parts on existing products are not allowed.

Fig. 16



GTP-C spare parts

Table 15

Spare parts for GTP-C

No.	Description	Order No.
1	GTP-C pump, complete	- see frame code
2	Pump frame with grease follower plate, 5 gal. / 16-18 kg /35-40 lbs / 19 l	24-1722-2580
	Pump frame with grease follower plate, 8 gal. / 25 kg / 55 lbs / 30 l	24-1722-2592
	Pump frame with grease follower plate, 15.8 gal. / 50 kg / 110 lbs / 60 l	24-1722-2593
	Pump frame with grease follower plate, 18.5 gal. / 60 kg / 132 lbs / 70 l	24-1722-2594
	Pump frame with grease follower plate, 55 gal. / 180 kg / 400 lbs / 216 l	24-1722-2595
3	Transport bracket assy.	24-9909-0270
4	Pressure limiting valve	24-2103-2243
5	Limit switch for low-level signal assy.	24-1884-2651
6	Filling hose assy., 5 m with plug and socket coupling and G1/2 outlet	24-1868-4337
	Filling hose assy., 10 m with plug and socket coupling and G1/2 outlet	24-1868-4338
	Filling hose assy., 15 m with plug and socket coupling and G1/2 outlet	24-1868-4339
7	Wired remote control complete, 5 m	24-6077-0099
	Wired remote control complete, 10 m	24-6077-0100
	Wired remote control complete, 15 m	24-6077-0101
8	G3/4 DN 19 coupling socket (to pump)	24-1020-2604
9	G3/4 DN 19 coupler plug (to hose)	24-1020-2605
10	Protective cap for socket	44-1860-2086
11	Protective cap for plug	44-1860-2087
12	Vent complete	24-9909-0269
13	Transport drum	44-2160-0002

14.2 Accessories

Table 16

Accessories, SKF KFG lubrication pump and SKF P 203 lubrication pump, G1/4 connection

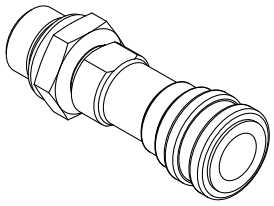
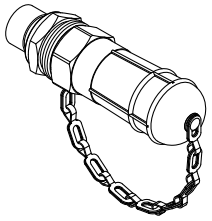
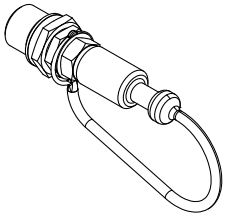
Description	Order No.	
Filler coupling socket complete	24-0159-2111	
KFG G1/4 filler neck	995-000-705	
P203 filler coupling complete, G1/4 /M22 × 1.5	540-31800-1	

Table 17

Accessories, lubrication pumps of SKF series KFG with 20x1.5 adapter

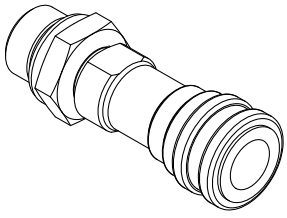
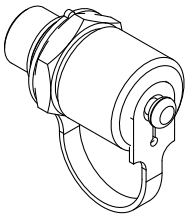
Description	Order No.	
Coupling G1/2 for fill connection	24-0159-2112	
Straight fill connection M 20×1.5	169-000-174	

Table 17

Accessories, lubrication pumps of SKF series KFG with 20x1.5 adapter

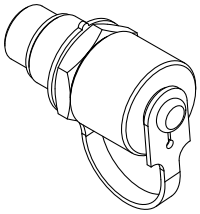
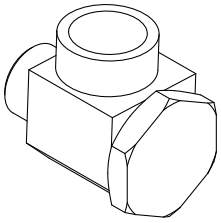
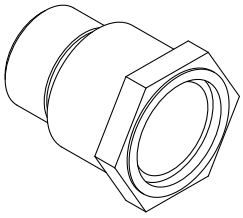
Description	Order No.	
Straight fill connection (short) M 20×1.5	169-000-170	
Banjo fitting 2 × M20×1.5	405-541-411	
Connecting piece (extension), 2 × M20×1.5	853-950-010	

Table 18

Lubrication pumps of SKF series P 203, P 223, P 233, P 243, P 603, and P 653

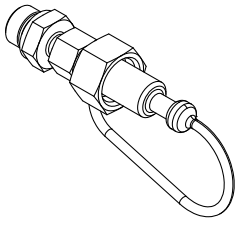
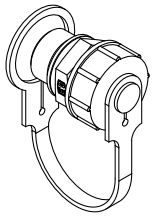
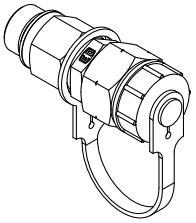
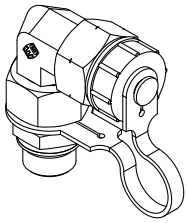
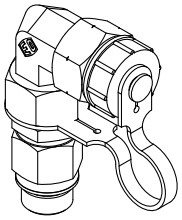
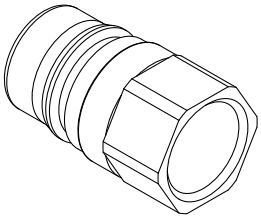
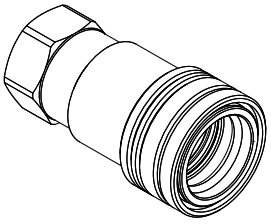
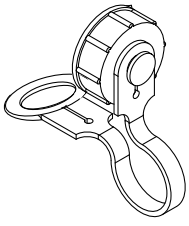
Description	Order No.	
Connection fitting complete	24-0159-2110	
Straight fill connection, M22×1.5 (P 203, 2 l)	538-36763-1	

Table 18

Lubrication pumps of SKF series P 203, P 223, P 233, P 243, P 603, and P 653

Description	Order No.	
Straight fill connection, M22×1.5, long (P 203 FL, 4 l, 8 l, 15 l)	538-36763-5	
Fill connection, M22×1.5, 90 ° (P 203, 2 l)	538-36763-2	
Fill connection 90 °, lang (for 2 l flat, 4 l, and 8 l reservoirs)	538-36763-4	
G1/2 coupler plug for installation on pump P 603 (filling from above) in conjunction with G1/2 coupling socket on the hydraulic hose of the filling pump	504-33395-1	
G1/2 coupling socket for installation on the hydraulic hose of the filling pump	24-0159-2113	
Protective plug for fill connection	233-13124-8	

15 Appendix

15.1 China RoHS Table

Table 19

部件名称 (Part Name)	有毒害物质或元素 (Hazardous substances)				
	铅	汞	镉	六价铬	多溴联苯
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)
用钢和黄铜加工的零件 (Components made of machining steel and brass)	X	0	0	0	0
部件名称 (Part Name)	多溴二苯醚	邻苯二甲酸二丁酯	邻苯二甲酸丁苄酯	鄰苯二甲酸二(2-乙基己基)酯	邻苯二甲酸二异丁酯
	Polybrominated diphenyl ethers (PBDE)	Dibutyl phthalate (DBP)	Benzyl butyl phthalate (BBP)	Bis (2-ethylhexyl) phthalate (DEHP)	Diisobutyl phthalate (DIBP)
用钢和黄铜加工的零件 (Components made of machining steel and brass)	0	0	0	0	0

本表格依据SJ/T11364的规定编制 (This table is prepared in accordance with the provisions of SJ/T 11364.)

0:	表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。 (Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.)
X:	表示该有毒有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572标准规定的限量要求。 (Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.)

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