

Mini piston pump unit

SKF Compact Greaser (ETP)

For fluid grease and grease NLGI grade 0 to 2



- The economical solution for the lubrication of linear guides, robots, rolling bearings and high-speed spindle bearings
- Ideal, economical alternative when no centralized lubrication system is available
- Three possible dosages: 10, 15 and 20 mm³
- As many as five lube points are automatically supplied with lubricant
- Dependable protection against deficient lubrication
- Low maintenance and operating costs
- Available with optional fill level monitoring



SKF Compact Greaser – ETP

Effective protection against deficient lubrication

Exact metering of lubricant quantities resulting in an economic and ecological payoff.

A Compact Greaser is the ideal alternative when it comes to the lubrication of linear guides, robots and rolling bearings on machinery and equipment for which a centralized lubrication system would have been too expensive, thus making it necessary to fall back on solutions with high operating costs.

Compared with simple lubricating equipment or manual lubrication, as is often the case in practice, the Compact Greaser assures effective and lasting protection against deficient lubrication.

The Compact Greaser automatically supplies up to five lube points with lubricant, thus assuring in many cases dependable operation of guides and/or bearings for their entire life cycle.

The quiet Compact Greaser also has a lot to offer from a financial and ecological point of view. Low maintenance and operating costs on the one hand combined with a frugal use of resources on the other thanks to variable lube cycles and exact metering of the lubricant quantities required.

In many cases the Compact Greaser is also used in grease lubrication systems. Thanks to its low metering volumes it is also used with appropriate grease for the lubrication of spindle bearings.

Simple installation and connection to the machine's control system

Thanks to its small dimensions and low weight – the easy-to-handle Compact Greaser weighs only 410 grams with a full cartridge – the Compact Greaser is easy to install, even in cramped and complicated conditions.

Its maximum power consumption amounts to 24 W, so the Compact Greaser – like a solenoid valve – can be operated directly by the SPC, namely without a separate power pack or additional circuit breaker. This is where it reveals its superiority over simple lubricators that are **not** connected to the machine's control system and thus go on lubricating even during operating breaks. That leads to higher lubrication costs, unnecessary stress on the environment and damage to bearing seals.

The Compact Greaser is designed for NLGI grade 0 to 2 grease and permits metering rates of 10, 15 or 20 mm³ per stroke. The number of outlet ports and the metering rates are flexible and can be specified when an order is placed, thus making it possible to find a customized lubrication solution. A bayonet lock makes it easy to replace the lubricator's grease cartridge.

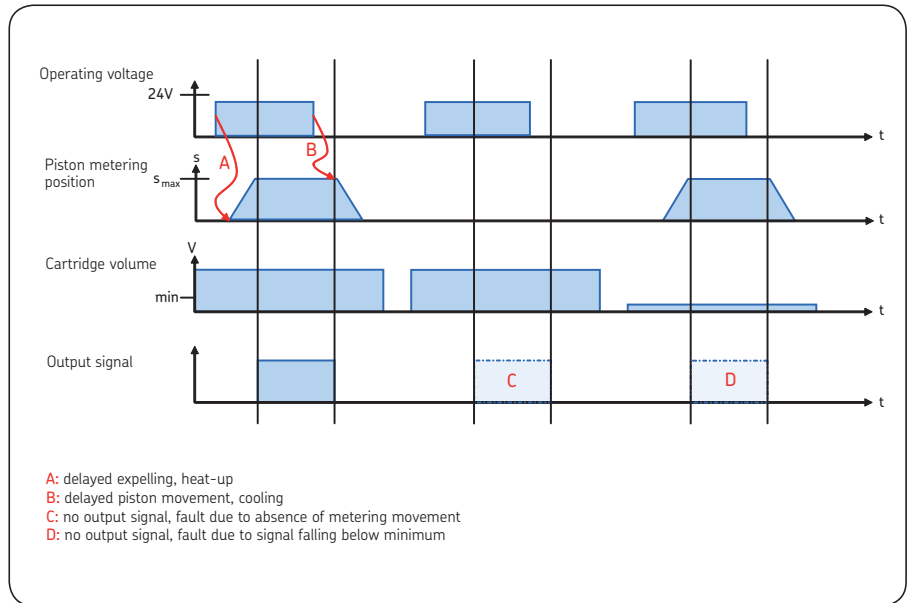
CAUTION

The important information on product usage located on the back cover applies to all systems described in this brochure.

SKF Compact Greaser – ETP

Technical data

The Compact Greaser is available with a monitoring system which monitors whether the metering pulse and fill level fall below minimum. The dynamics are shown in the figure to the right.



Technical data

Metering volume/outlet	15 mm ³ /stroke = B (standard) 10 mm ³ /stroke = C 20 mm ³ /stroke = A
Number of outlets	2, 3, 4 or 5
Max. back pressure	25 bar
Weight with full cartridge	380 g (without monitoring) 410 g (with monitoring)
Operating voltage	24 V DC (+924)
Contact time	7 min
Min. interval time	30 min
Power input	24 W
Max. starting current	1 A
Operating temperature	+15 to 40 °C

Type of enclosure acc. EN 60529	IP55 with mounted socket
Lubricant	Grease, NLGI grades 0 to 2 (NLGI grade 3 on request)

Electrical connection

Without monitoring

Electrical connection	DIN EN 175301-803-A
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With monitoring

Electrical connection	M12×1
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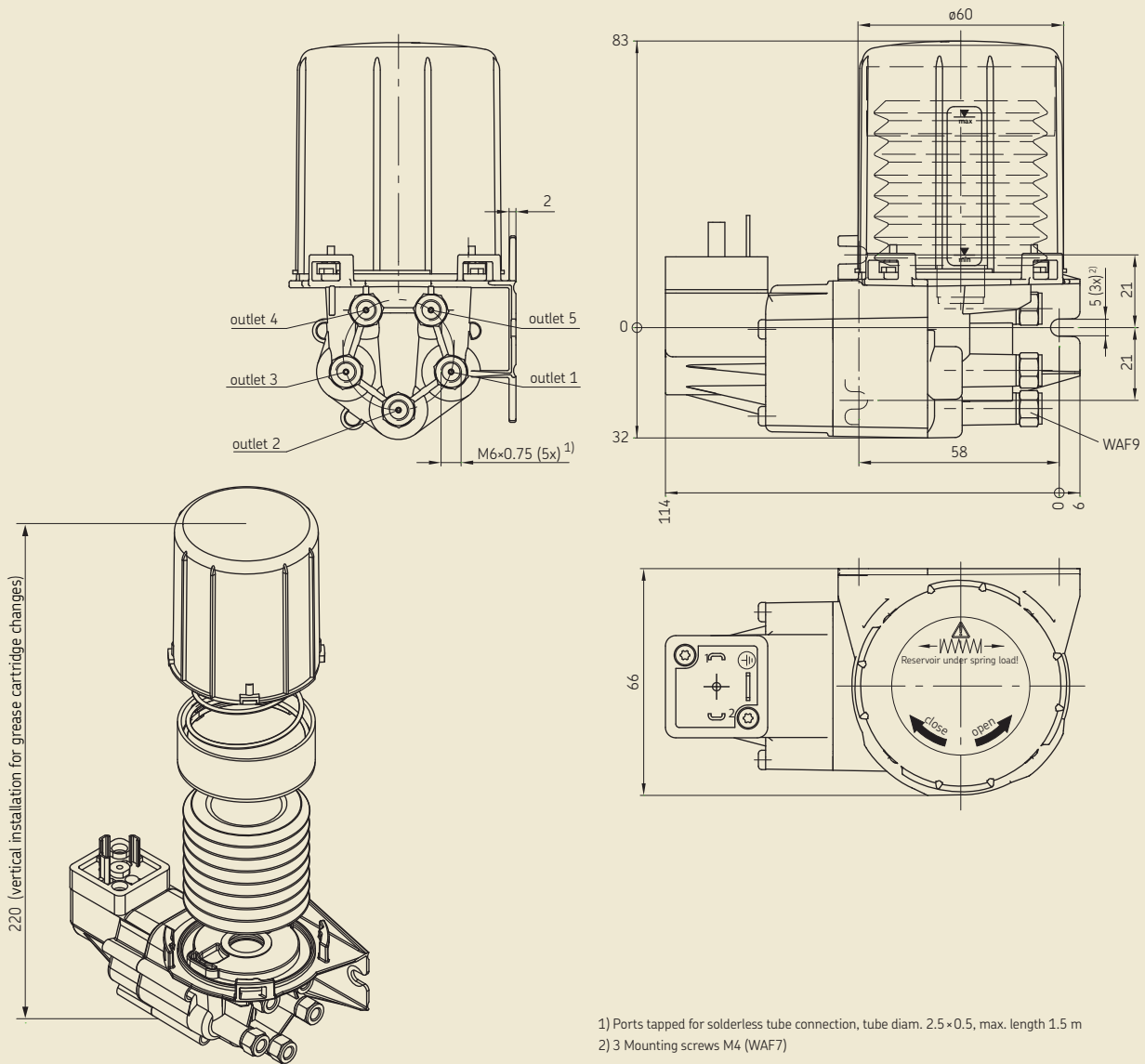
Level- and stroke indication

Max. switching current	0,5 A
Max. breaking capacity	10 VA

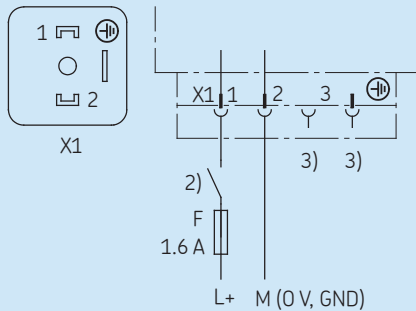
SKF Compact Greaser – ETP

Dimensions

ETP5 without level indication



1) Ports tapped for solderless tube connection, tube diam. 2.5×0.5, max. length 1.5 m
2) 3 Mounting screws M4 (WAF9)



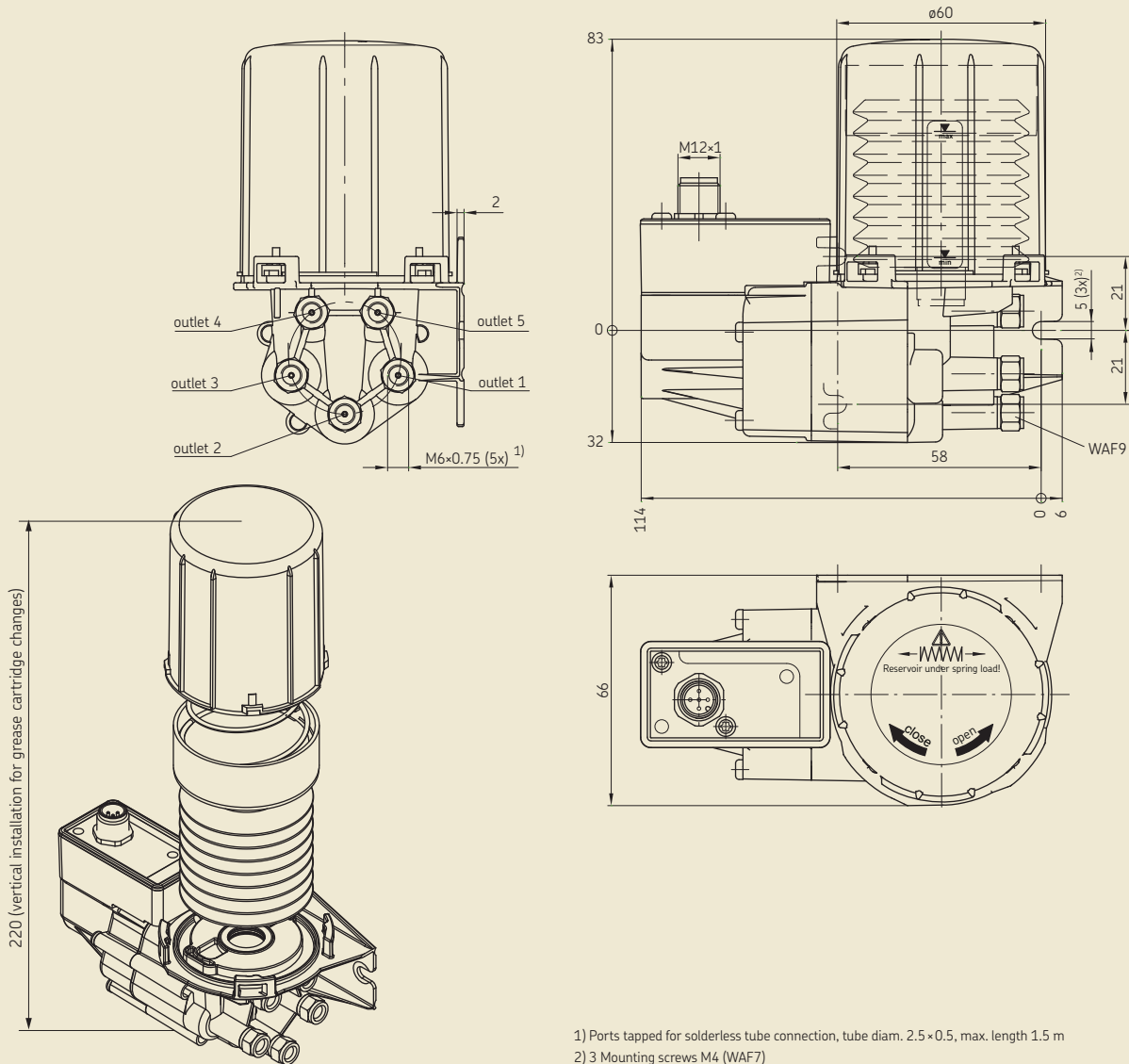
**Pay attention to correct polarity!
No function if polarity is reversed!**

- Legend**
- L+ + Potential supply voltage (machine's main switch ON)
 - M - Potential supply voltage (0V, GND)
 - X1 Plug connector supply voltage to DIN EN 175301-803-A
 - F Fuse
 - 2) External control unit; relay contact "pump ON"
 - 3) PIN not used

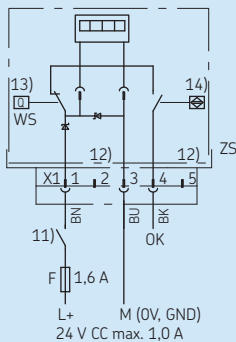
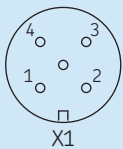
SKF Compact Greaser – ETP

Dimensions

ETP5 with level indication



1) Ports tapped for solderless tube connection, tube diam. 2.5×0.5, max. length 1.5 m
2) 3 Mounting screws M4 (WAF7)



**Pay attention to correct polarity!
No function if polarity is reversed!**

Legend

- L+ + Potential supply voltage (machine's main switch ON)
- M – Potential supply voltage (0V, GND)
- X1 Plug connector supply voltage M12×1
- F Fuse
- 11) External control unit; relay contact "pump ON"
- 12) PIN not used
- 13) Contact scheme: filled reservoir (maximum)
- 14) Contact scheme: not actuated (rest position)

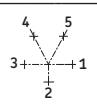
SKF Compact Greaser – ETP

Configurator

Order key **E T P** **-** **1 2 3 4 5** **-** **+** **9 2 4**

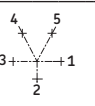
Products series
ETP = Electro-thermic Pumpe

Number of outlets
2 = 2 outlets (1/3)
3 = 3 outlets (1/3/4)
4 = 4 outlets (1/2/3/4)
5 = 5 outlets (1/2/3/4/5)



Level- and stroke indication
WZ = Indication for level- and stroke
no entry = without monitoring

Metering volume
A = 20 mm³/stroke
B = 15 mm³/stroke
C = 10 mm³/stroke
X = closed



Filling
B = SKF LGMT 2 (rolling bearing grease)
C = SKF LGGB 2 (biodegradable grease)
D = SKF LGFP 2 (food-compatible bearing grease)
Z = Grease on customer request (Minimum order 20 pieces) The desired lubricant has to be provided by customer.¹⁾

Voltage key
924 = 24 V DC

Order example: ETP4WZ-BBCBX-B+924

- Product series ETP
- 4 outlets
- Indication for level- and stroke

- Outlet 1 = 15 mm³/stroke
- Outlet 2 = 15 mm³/stroke
- Outlet 3 = 10 mm³/stroke
- Outlet 4 = 15 mm³/stroke

- Outlet 5 = closed
- filling with LGMT 2 rolling bearing grease
- 24 V DC operating voltage

Accessories

Grease cartridge



Order key

F K 0 0 8 **-**

Product series

FK008 = Grease cartridge 80 cm³

Lubricant

B = SKF LGMT 2 (rolling bearing grease)
C = SKF LGGB 2 (biodegradable grease)
D = SKF LGFP 2 (food-compatible bearing grease)
Z = Grease on customer request (Minimum order 20 pieces)
 The desired lubricant has to be provided by customer.¹⁾

Order example

FK008-B

- Grease cartridge, 80 cm³
- filling with LGMT 2 rolling bearing grease

¹⁾ The desired lubricant must be delivered in 400g standard cartridges. For air venting and test processes the quantity of the delivered 400g cartridge shall be calculated with the following equation: 1+(X/2) (X = ordered quantity). When sending lubricant the safety data sheet shall be packed in. In order to properly assign the task the order number and the ID-Code "Lubricant for ETP-filling" shall be marked on the outside of the packaging.

Accessories

Electric plug-and-socket connectors

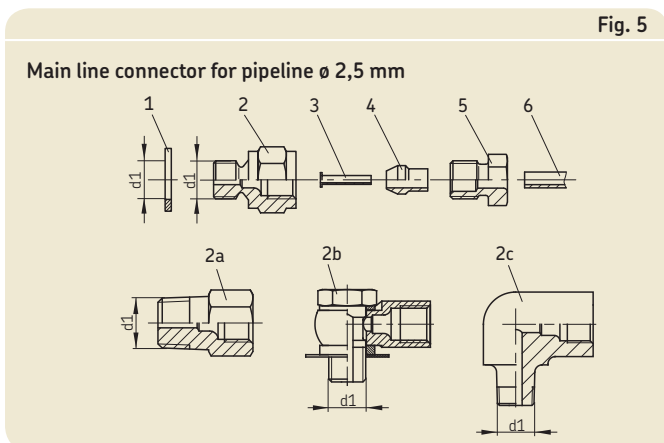
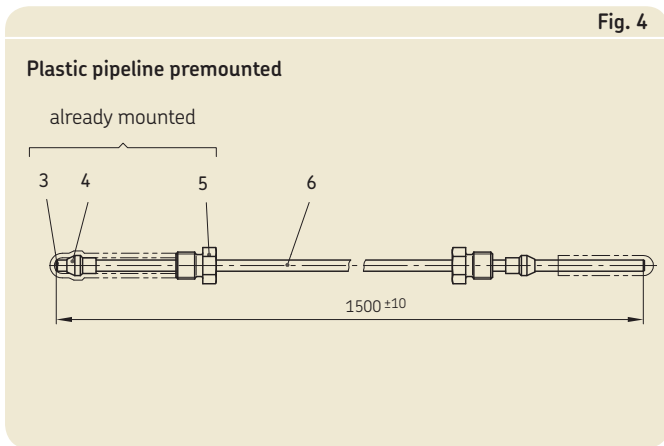


Electric plug-and-socket connectors

Fig.	Description	Order No.
A	Socket, diameter of cable 6–9 mm	179-990-034
A	Socket, diameter of cable 4,5–7 mm	179-990-147
B	Socket M12x1 straight	179-990-371
C	Socket M12x1 straight, with integrally extruded line (5 m, 3x0.25 mm ²)	179-990-381
D	Socket M12x1 angled	179-990-372
E	Socket M12x1 angled, with integrally extruded line (5 m, 3x0.25 mm ²)	179-990-382

See also brochure 1-1730-EN

Pipelines and main line connectors

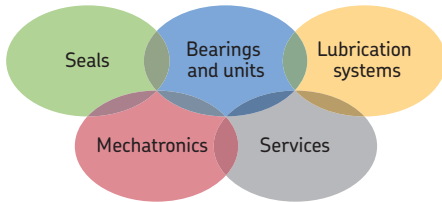


Pipelines and main line connectors

Pos.	Description	ø d1	Order No.
Plastic pipeline premounted, filled with grease (Fig. 4):			
Rolling bearing grease SKF LGMT2			995-001-197-B
Biodegradable grease SKF LGGB2			995-001-197-C
Food-compatible bearing grease SKF LGFP2			995-001-197-D
1	Washer	M6 M8	DIN7603-A6x10-CU DIN7603-A8x11,5-CU
2	Connector	M6 M6x0,75 M8x1	402-004 402-003 402-006
2a	Conical connector	M6x0,75 M8x1 M10x1	402-003K 402-006K 402-008K
2b	Banjo fitting, not lockable	M6 M6x0,75 M8x1	502-161 502-101 502-102
2c	Banjo fitting	M6	502-206K
3	Reinforcing socket		402-603
4	Tapered sleeve		402-611
5	Socket union		402-612
6	Plastic pipeline		WVN715-R02.5x0.5

See also brochure 1-0103-EN

Note
While mounting the lubrication line, fitting must be fixed by an adequate tool to avoid distortion of the SKF Compact Greaser.



The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry world-wide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

! Important information on product usage

All products from SKF may be used only for their intended purpose as described in this brochure and the operating instructions. If operating instructions are supplied together with the products, they must be read and followed.

Not all lubricants can be fed using centralized lubrication systems. SKF can, on request, inspect the feedability of the lubricant selected by the user in centralized lubrication systems. Lubrication systems and their components manufactured by SKF are not approved for use in conjunction with gases, liquefied gases, pressurized gases in solution, vapors or such fluids whose vapor pressure exceeds normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.

In particular, we call your attention to the fact that hazardous materials of any kind, especially the materials classified as hazardous by EC Directive 67/548/EEC, Article 2, Para. 2, may only be filled into SKF centralized lubrication systems and components and delivered and/or distributed with the same after consultation with and written approval from SKF.

Further brochures

- | | |
|------------------|---|
| <i>1-0103-EN</i> | <i>Fittings and Accessories</i> |
| <i>1-1730-EN</i> | <i>Electric Plug-and-Socket Connectors</i> |
| <i>1-9201-EN</i> | <i>Transport of Lubricants in Centralized Lubrication Systems</i> |

SKF Lubrication Systems Germany GmbH

Berlin Plant
 Motzener Strasse 35/37 · 12277 Berlin
 PF 970444 · 12704 Berlin · Germany

Tel. +49 (0)30 72002-0
 Fax +49 (0)30 72002-111

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