

Grease gun



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1. Introduction

1.1. About this operating manual

This operating manual is only valid for the grease gun and only in conjunction with the operating manuals for automatic grease pumps and for the machine or assembly to be greased.

This operating manual is intended for the operator and the personnel working with the grease gun.

The operating manual contains all necessary information for the safe and riskless operation of the grease gun.

The operating manual is part of the grease gun. Keep this operating manual at or near the place of use. The operating manual must be available for the personnel at any time.

In case of change of operator, pass on this operating manual to the new operator.

Comply with the local accident prevention regulations as well as with the general safety rules when using this grease gun.

1.2. Contact the manufacturer

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2. Safety

2.1. Intended use

The grease gun is intended to connect an automatic grease pump to a grease nipple or plug-in nipple on a machine or assembly.

The grease gun may be used as intended with automatic grease pumps as well as with grease nipples or plug-in nipples manufactured in accordance with DIN standards and in proper condition on machines or assemblies. The grease gun may only be operated in accordance with the technical data.

The grease gun may be used for both commercial and private purposes. Any other use beyond this is considered improper use.

2.2. Foreseeable misuse

Operation outside the parameters specified in the technical data is considered misuse. Misuse may result in unforeseeable hazards and risks.

- The grease gun may only be connected to automatic grease pumps.
- Only accessories approved by PRESSOL for the grease gun may be used.
- No substances other than lubricating grease of classes NLGI 00 to NLGI 3 may be processed.
- Do not operate a defective grease gun or its accessories, and do not use a grease gun on a grease nipple that deviates from the DIN 71412 standard.
- Do not use at operating pressures above 400 bar.

2.3. Personnel qualification

All activities on the grease gun, including cleaning, may only be carried out by persons who have been trained and instructed on the basis of the operating manual, who have reached the legal minimum age, and who are mentally and physically suitable for the respective activity. The responsibilities of the user/employee must be clearly defined before starting work. Maintenance work on the mechanical components of the grease gun may only be carried out by trained, instructed, and qualified specialist personnel in compliance with the safety regulations. Users/employees who are to be trained, instructed, introduced, or who are in general training may only be allowed to work on the grease gun under the constant supervision of an experienced user/employee.

2.4. Safety instructions

Improper operation may result in personal injury and property damage. Observe the following safety instructions.

- Every person working with the grease gun must have read and understood the operating manual.
- Every person working with the grease gun must be trained in the operating manual of the automatic grease pump as well as in the operating manual of the machine or assembly to be lubricated.
- Operate the grease gun only when it is in technically faultless condition. Check the grease gun for visible defects before each use. If defects or malfunctions occur, or if the operating behavior changes, the grease gun must be taken out of service immediately. Do not continue working until the grease gun has been replaced.
- Do not make any modifications, attachments, or alterations to the grease gun.
- The grease gun may only be connected to a machine or assembly for the lubrication or filling process. Permanent connection is not permitted.
- When filling with lubricant, do not tie down or block the lever of the grease gun.
- Avoid direct contact with operating materials. Wear personal protective equipment.
- Comply with and do not exceed the operating pressure specified in the technical data.

2.5. Personal protective equipment

Personal protective equipment is intended to protect persons working on the grease gun from hazards and hazardous substances.

Personal protective equipment consists of:

- work clothing,
- safety shoes,
- protective gloves,
- safety goggles.

2.6. Compatibility

The grease gun may only be used with a compatible connection. The use of incompatible connections may lead to incorrect operation and serious consequences, such as personal injury or property damage.

Only accessories from PRESSOL may be used to establish the connection between the grease nipple and the plug-in nipple.

2.7. Escaping lubricating grease

Injury to sensory organs

The grease gun may only be used with hoses and pipes in perfect condition. Ensure that hoses are replaced after the end of their service life.

The use of damaged hoses and pipes may lead to incorrect operation and serious consequences, such as reversible minor impairment of the sensory organs caused by escaping lubricating grease.

Only PRESSOL accessories may be used to connect the grease gun to the grease nipple or plug-in nipple.

Explosion hazard

Lubricating grease may escape from a microcrack in the material of the grease gun or its accessories, form a gas cloud, and explode. You as the user are responsible for the lubricating grease. Take safety precautions in accordance with the safety data sheet of the lubricating grease.

Use only PRESSOL accessories. Carry out the assembly and disassembly of the grease gun correctly. Use only tools in perfect condition. Check the tightness of the grease gun with compressed air. Ensure that hoses are replaced after the end of their service life.

2.8. Meaning of the warning notices

Safety information in this manual can be found in the "Safety" chapter and in the warning notices that may appear in all chapters. The warning notices are identified as follows.



WARNING

This warning notice indicates a potentially hazardous situation. Failure to observe this warning notice may result in death or serious injury.



CAUTION

This warning notice indicates a potentially hazardous situation. Failure to observe this warning notice may result in moderate or minor injury.

3. Design

3.1. Overview

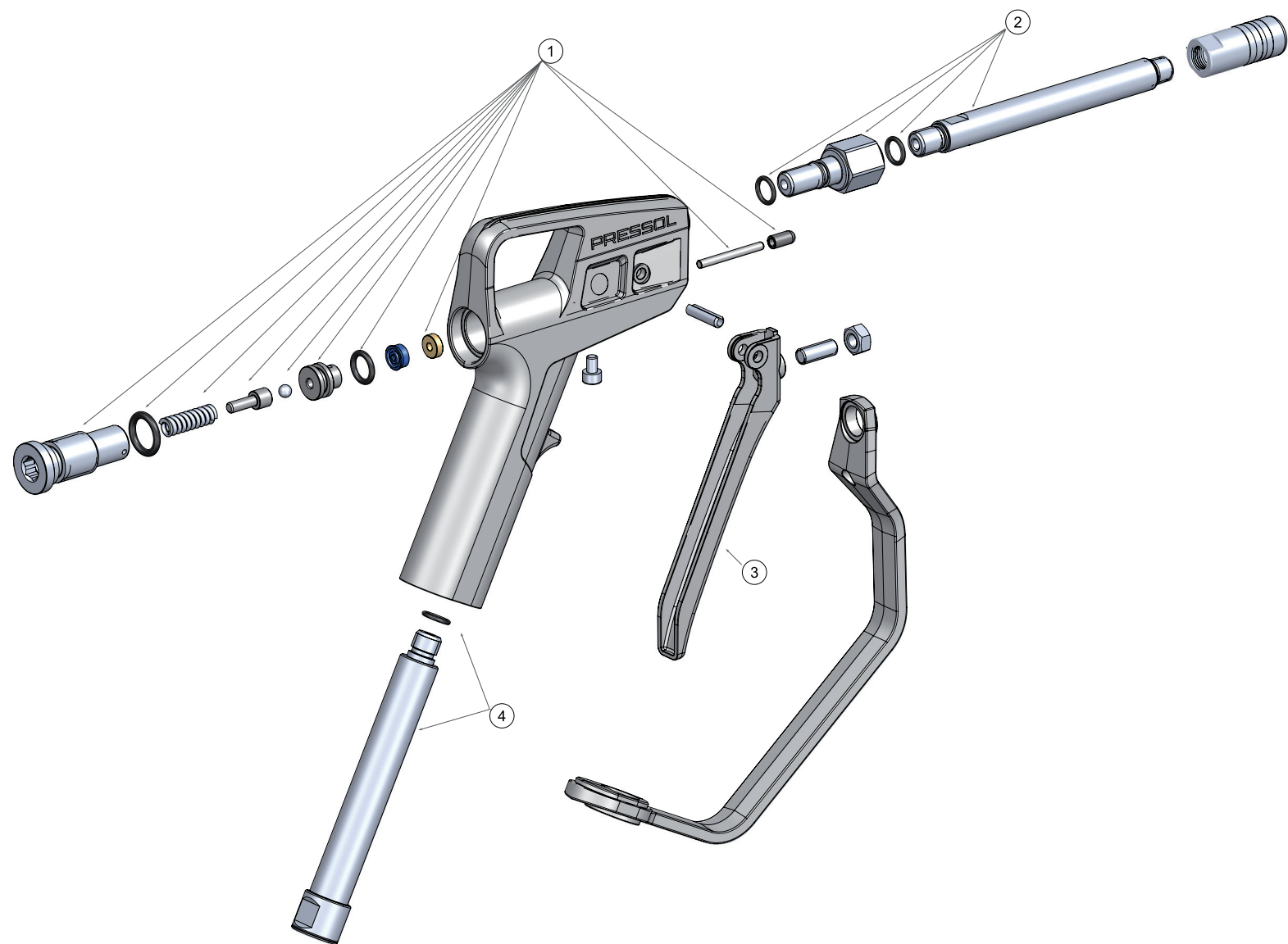


Fig. 1 Grease gun without accessories

Pos.	Item number	Designation
1	92 678	Valve insert kit
2	92 680	Connection kit
3	92 679	Lever for grease gun
4	91 100	Connection G1/8"–G1/8"

3.2. Delivery variants

Item No.	Designation grease gun with accessories
18 104	G 1/8" female straight spout-coupler
18 104 301	G 1/8" female reinforced hose-coupler
18 104 390	DG-G 1/4" female straight spout-coupler
18 104 958	G 1/8" female straight spout-MU-SKU
18 105	G 1/8" female GRDR-Rectus coupling-type 72
18 105 390	DG G 1/4" female GRDR-Rectus coupling-type 72
18 102	Female EBZD straight spout-coupler
18 102 950	Female EBZD high pressure hose-coupler
18 102 952	Female EBZD GRDR-Rectus coupling-type 72

The grease gun is supplied together with the ordered accessories.

3.3. Functional description

By actuating the grease gun, lubricating grease can be introduced at the designated lubrication points into an assembly or machine.

The grease gun is connected at the lower connection to an automatic grease pump.

The accessory is mounted at the upper connection to establish a connection to the grease nipple or plug-in nipple.

The grease gun is available in many versions (see Chapter 3.2 Delivery variants, page 9).

- Via the coupler, lubricating grease is pressed briefly and at high pressure through the grease nipples into a machine or assembly.
- Via the Rectus type 72 coupling, lubricating grease is conveyed over a longer period and at low pressure through the plug-in nipples into a central lubrication system.

4. Assembly



CAUTION

Use in the food industry or pharmaceuticals

Your grease gun is tested with lubricating grease before delivery. Therefore, residues of the multipurpose grease NLGI 2 "GO 4 Lube LV 2EP" may still be present in the grease gun. If this lubricating grease is not permitted in this application area, it may enter the product and cause personal injury.

- Check the tightness of the grease gun with compressed air.
- After assembly, flush the grease gun with a lubricating grease suitable for the application area.



CAUTION

Connection thread too short

If the connection thread at the lower connection of the grease gun is too short, lubricating grease may escape. This may result in personal injury, especially to the sensory organs.

- Ensure that the connection thread is sufficiently long.
 - Screw the connecting piece into several thread turns.
1. Properly shut down the automatic grease pump and secure it against unintentional restart.
 2. Ensure that the automatic grease pump is depressurized.
 3. Connect the automatic grease pump to the lower connection of the grease gun. For this purpose, place the supplied copper ring on the sealing surface to seal the connection.
Copper ring according to DIN 7603 A 12 × 16 × 1.5 mm.
 4. Mount the supplied accessory on the upper connection.
Use an SW13 open-end wrench and screw the thread of the nozzle pipe or hose coupling into the grease gun as far as it will go.
 5. Put the automatic grease pump into operation.

5. Operation



WARNING

Explosion hazard when using incorrect lubricating grease

The use of incorrect lubricating grease may lead to explosions. The use of the lubricating grease is the responsibility of the operator.

- Use only lubricants in perfect condition.
- Implement protective measures in accordance with the safety data sheet.
- Wear personal protective equipment.



CAUTION

Injuries to body parts

The manually movable parts of the grease gun may cause reversible minor injuries to body parts, especially to hands and fingers.

- Wear personal protective equipment.
1. Properly shut down the machine or assembly to be lubricated and secure it against unintentional restart.
 2. Carry out a visual inspection of the grease gun before starting work.
If defects are detected, do not put the grease gun or its accessories into operation. In case of damage, the grease gun or the accessories must be replaced.
 3. Ensure that the valve screw (see Fig. 1 grease gun without accessories, page 8) is fully screwed in at the rear of the grease gun.
 4. Place the grease gun
 - straight and firmly onto the grease nipple until the coupler engages,
 - onto the plug-in nipple and connect it to the coupling of the grease gun.
 5. Actuate the lever to press the lubricating grease into the lubrication point.
Ensure that no leaks occur.
 6. Disconnect the grease gun
 - from the grease nipple by slightly tilting the grease gun to the side.
This allows the pressure to decrease slowly,
 - from the plug-in nipple by releasing the coupling.
Note that excess lubricating grease may escape during disconnection.
 7. Dispose of excess lubricating grease in an environmentally responsible manner.

6. Disassembly



CAUTION

Injuries to body parts

The manually movable parts of the grease gun may cause reversible minor injuries to body parts, especially to hands and fingers.

- Wear personal protective equipment.
- 1. Properly shut down the automatic grease pump for setup and secure it against unintentional restart.
- 2. Ensure that the automatic grease pump is depressurized.
- 3. Disconnect the grease gun from the grease pump at the lower connection of the grease gun.
- 4. Clean the grease gun with a cloth.

7. Maintenance and servicing

The grease gun is largely maintenance-free.

Check the grease gun before each use for damage, contamination, tightness, and proper function. A defective grease gun must not be used. In the event of a defect, the grease gun must be replaced immediately.

Only CE-marked components from recognized manufacturers may be used.

Clean the grease gun with a cloth after each use.

8. Repair

8.1. Readjust the trigger point



CAUTION

Grease gun still connected and under pressure

If components of the grease gun are dismantled while the grease gun is still connected, lubricating grease or small components may be ejected under pressure and cause injury.

- Disconnect the grease gun from the grease pump before starting work.
See Chapter 6 Disassembly, page 12.
- 1. Loosen the valve screw of the grease gun using an Allen key (8 mm).
- 2. Loosen the adjustment screw of the grease gun using an Allen key (3 mm).
- 3. Push the valve insert out slightly by pressing on the valve pin at the front of the grease gun with a flattened tool.
- 4. Then tap out the valve insert by lightly striking the rear side of the grease gun against a hard surface.
- 5. Dispose of the old valve insert properly.
- 6. Reassemble the grease gun with the new valve insert.
Tighten the valve screw with a torque of 15 Nm.
- 7. Ensure that the valve screw is fully screwed into the grease gun before connecting the grease gun to the grease pump.
- 8. Connect the grease gun to the grease pump.
- 9. During operation, adjust the adjustment screw on the grease gun so that the lever of the grease gun trigger. When triggering, point the grease gun at a suitable object.

8.2. Replace the valve insert

If required, you can replace the valve insert. Order the desired spare part for this purpose:

- Valve insert kit, article number 92678.

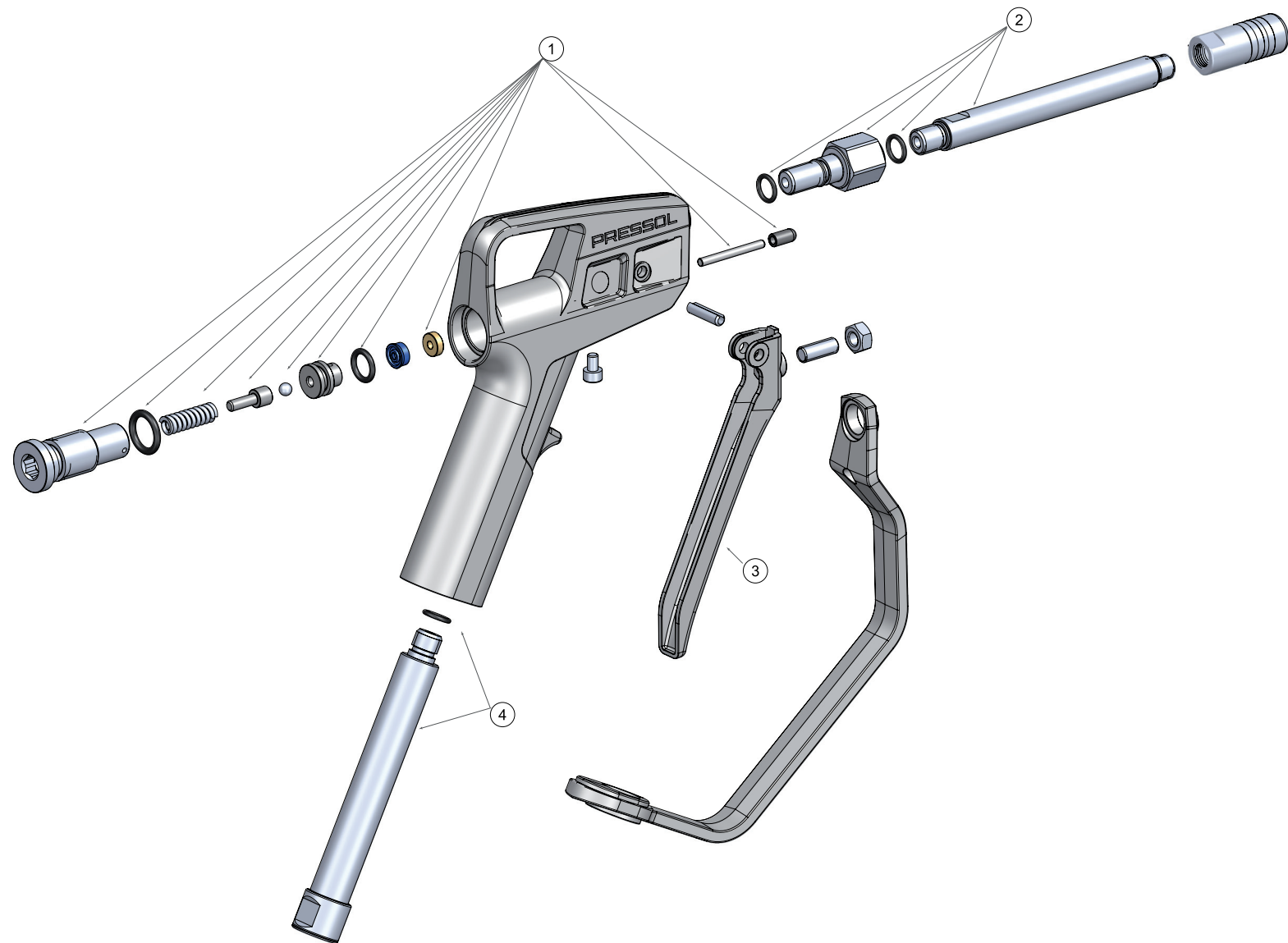


Fig. 2 Grease gun

Pos.	Item number	Designation
1	92 678	Valve insert kit
2	92 680	Connection kit
3	92 679	Lever for grease gun
4	91 100	Connection G1/8"–G1/8"

9. Disposal

Dispose of the grease gun properly in accordance with the applicable national and regional regulations. Observe the local environmental regulations when handling lubricants.

10. Technical data

Technical data

Connection 1	G 1/8" i
Connection 2	Coupler for conical grease nipple, DIN 71412
Application range	Greases NLGI 0 to NLGI 3
Max. operating pressure (bar)	400
Operating temperature (°C)	-10 / +60
Weight (kg)	0,999



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