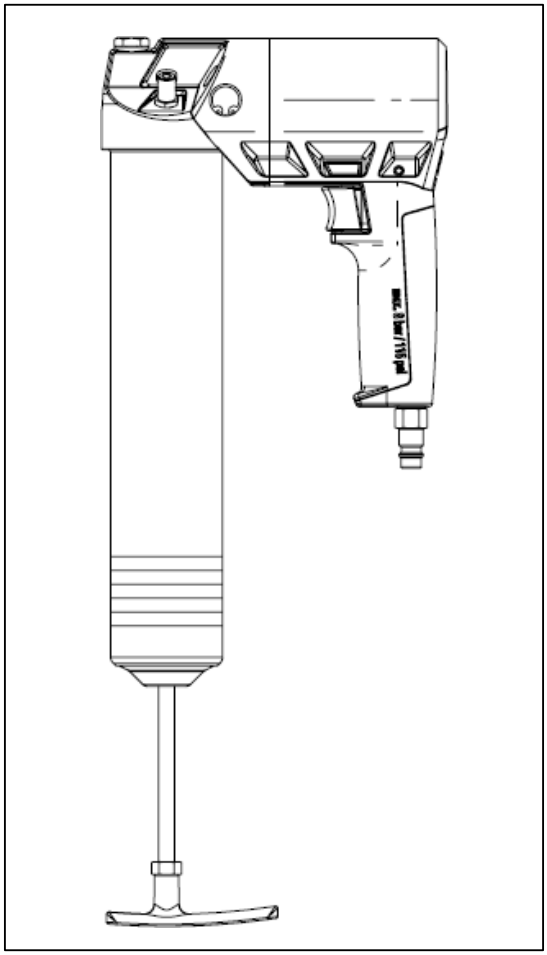
PRESSOL

Operating Manual

Compressed Air Grease Gun 18079



CE

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1 General

1.1 Introduction

This operating manual is only valid for the compressed air grease gun and for the machine or assembly to be greased.

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

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

The operating manual is part of the compressed air 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 the facility operator changes, pass this operating manual on 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 Manufacturer and service

Manufacturer:
Pressol Tschechien s.r.o.
Vitkov 122
CZ- 34701 TACHOV
www. pressol.com

Service:
PRESSOL Schmiergeräte GmbH
Parkstraße 7
93167 Falkenstein
Phone +49 9462 170
Email : info@pressol.com
www.pressol.com

1.3 Intended use

The compressed air grease gun is solely designed for pumping and applying lubricating greases.

Proper usage includes complying with all information and instructions in this operating manual.
Any departure from the usage stipulations, in particular the use of other fluids, the application of force or unauthorised modifications (for example alterations or the use of non-original parts), is considered to be non-intended usage and may cause danger.

The facility operator is liable for any damage resulting from non-intended use of the equipment.

>> To be continued on the next page

1 General *(continued)*

1.3 Intended use *(continued)*

The compressed air grease gun is a hand-held, pneumatically driven lubricating device and has been exclusively designed for pumping lubricating grease and pressing it into greasing points of machines and plants.
The grease gun is intended for:

- pumping greases, grades NLGI 00 to NLGI 3
- applying grease to grease nipples according to DIN 71412
- industrial and commercial applications
- use with compressed air at an operating pressure of 6 bar (maximum of 8 bar).

The equipment may be handled by accordingly trained personnel only.

The compressed air grease gun must only be operated in perfect technical condition and in compliance with this operating manual. All safety and maintenance notes must be observed.

The intended use also includes:

- the compliance with the admissible operating parameters,
- the use of original accessories or accessories approved by the manufacturer,
- regular checks of the hoses, couplers and accessories for damage.

Any other use or use beyond this is considered improper use.

1 General *(continued)*

1.4 Improper Use

Any use of the compressed air grease gun that does not conform to the intended use is considered improper use. In particular, this includes:

- Use of the grease gun for other fluids than lubricating greases of the grades NLGI 00 to NLGI 3
- Operation with compressed air at an operating pressure exceeding 8 bar
- Use with non-approved or damaged accessories
- Using faulty or damaged couplers, hoses or pipes
- Use at grease nipples that do not comply with the DIN 71412 standard
- Spraying or spreading lubricating grease with the grease gun
- Directing the high-pressure grease jet at persons or body parts
- Using the grease gun as a lever, striking or assembly tool
- Operating the grease gun in potentially explosive atmospheres, if the device has not been approved for that purpose
- Operation without connected greasing points or without the grease gun head attached correctly
- Operation with contaminated or inappropriate lubricants
- Unauthorized modifications or conversions of the grease gun
- Operation by untrained or unauthorized persons.

The manufacturer does not accept any liability for damages resulting from improper use. The facility operator alone bears all risks.

!	**WARNING** Unauthorized changes to the compressed air grease gun Any changes, expansions or modifications to the machine are only permitted with the prior permission of the manufacturer. Unauthorized changes can cause serious personal injury and severe damage to property and will void warranty and liability. Action: Modifications are only allowed with the written approval of the manufacturer.

1 General *(continued)*

1.5 Technical data

Parameter	Value
Type:	compressed air grease gun
Model:	18079
Grease gun connection discharge side:	M 10 x 1
Filling nipple:	M 10 x 1
Filling capacity (cm³):	500
Filling options:	400 g grease cartridge, bulk grease. DIN 1284, 400 g and 500 g screw-in cartridges
Pressure ratio:	50:1
Grease delivery into the grease gun head:	by spring force or negative pressure
Diameter grease pump piston (mm):	7
Delivery rate/stroke (cm³):	0,8
Recommended compressed air pressure (bar):	6
Maximum compressed air pressure (bar):	8
Compressed air connector:	quick coupling Rectus, type 26
Pump pressure at 8 bar compressed air (bar):	400
Burst pressure, system (bar):	850
Burst pressure, grease gun head (bar):	1.200
Weight (kg):	1,96

ATTENTION – Note
The maximum permissible compressed air pressure of 8 bar must not be exceeded, because otherwise damage may be caused to the device or the connected hoses.

2 Safety

Instructions directly attached to the unit or any of its accessories must be always complied with. This operating manual contains basic advice which has to be observed during operation and maintenance. For this reason, it is mandatory that this operating manual is read by the responsible technical personnel / facility operator and stored ready at hand at the plant's place of use.

2.1 Notes on occupational safety

The compressed air grease gun was designed and manufactured in accordance with the essential safety and health requirements of the relevant EC directives.
This product may nevertheless pose risks if it is not used for its intended purpose or without the necessary caution.
When operating the compressed air grease gun, the locally applicable safety and accident prevention regulations as well as the safety notes in this operating manual must be observed in all cases.

2.2 Explanation of the safety notes used

Signal words according to ISO 3864-2
In this operating manual, signal words in accordance with the ISO 3864-2 standard indicate the different levels of hazard. These signal words are used to point the user's attention to the corresponding risk and the necessary protection measures.

!	**DANGER** Non-observance of this warning note leads to severe or fatal injuries.
!	**WARNING** Non-observance of this warning note may lead to severe injuries.
!	**CAUTION** Non-observance of this warning note may lead to minor or moderate injuries.
!	**ATTENTION** Non-observance of this warning note may lead to material damage.

Notes that are affixed directly to the compressed air grease gun must be strictly observed and must remain fully legible at all times.

2 Safety *(continued)*

2.3 Risks when handling the compressed air grease gun

!	**CAUTION - OVERPRESSURE** The grease gun head and the accessory connected may burst because of overpressure. There is a risk of injury caused by an uncontrolled escape of lubricating grease and loosening of components. • Do not exceed the permissible operating pressures specified in chapter 1.5 (Technical data). • Only use original accessories in accordance with DIN 1283.

!	**CAUTION – OVERPRESSURE AT THE GREASING POINT** An overpressure at the greasing point may deteriorate or destroy the grease nipple or the connected bearing or machine. There is a risk of material damage and of consequential damage to the machine. • Do not exceed the permissible operating pressures specified in chapter 1.5 (Technical data). • Comply with the maintenance and servicing requirements stipulated by the corresponding machine manufacturer.

!	**CAUTION – DAMAGED ACCESSORIES** Damaged or worn accessories may lead to personal injuries or material damage. In particular in high pressure applications, there is a risk of injury caused by components that burst or come loose. • High-pressure hoses must not be bent, twisted or stretched. • Accessories must be checked for wear, cracks or other damage throughout their whole period of use. • Damaged and faulty accessories have to be taken out of operation and must be replaced immediately. • The maximum allowable period of hose use is 6 years from their date of manufacture (refer to hose markings).

2 Safety *(continued)*

2.4 Foreseeable misuse

Although the compressed air grease gun is properly designed for its intended purpose, misuse foreseeable because of human behaviour may occur. This must be avoided because it may cause hazards to persons and damages to the compressed air grease gun.
Foreseeable misuse means in particular:

- Exceeding the permissible operating pressure of 8 bar compressed air
- Use of inappropriate, non-approved lubricating greases
- Use of the compressed air grease gun with defective hoses, couplings or accessory parts
- Actuating the grease gun although there is no safe connection to the grease nipple
- Directing the high-pressure grease jet at persons or body parts
- Using the grease gun as a lever, striking or assembly tool
- Operation with improperly attached grease gun head or accessories
- Use of the grease gun for spraying or spreading lubricating grease
- Unauthorized modifications or conversions of the grease gun
- Operation by untrained persons.

These misapplications may cause in particular the following hazards:

- High-pressure injection of grease into the skin
- Bursting of hoses or couplings
- Grease escaping under high pressure
- Loss of control over the equipment.

The facility operator has to take appropriate organisational measures in order to ensure that such misapplications are avoided.

!	**WARNING – damage to material property or personal injury may occur** An improper use of the compressed air gun may cause serious injuries and severe damages to the grease gun and the plant connected. • Only accessories approved by PRESSOL may be used. • Only greases of the grades NLGI 00 to NLGI 3 are allowed. • It is not allowed to operate a defective grease gun or faulty accessories. • The grease gun must not be used at grease nipples deviating from the DIN 71412 standard. • The maximum admissible operating pressure of 8 bar must not be exceeded.

>> To be continued on the next page

2 Safety *(continued)*

2.4 Foreseeable misuse *(continued)*

!	**ATTENTION – possible damage to the grease gun** An improper use may impair the functionality and cause material damage. • Use only accessories approved by PRESSOL. • Only lubricating greases of the grades NLGI 00 to NLGI 3 are allowed. • No use in case of defective or faulty grease gun or accessories. • Only use grease nipples in accordance with DIN 71412. • Do not exceed the maximum operating pressure of 8 bar.

2.5 Qualification of the personnel

!	**WARNING – insufficiently qualified personnel** Work carried out improperly on the grease gun may cause serious injuries and severe material damage. All work on the grease gun, including cleaning, maintenance and servicing, may be carried out only by persons, who • have been trained and instructed in accordance with the operating manual, • have reached the legal minimum age, • are physically and mentally capable for the activities in question. • The responsibilities of the user/employee must be clearly determined before work is begun.

Only trained, instructed and qualified technical personnel observing all applicable safety regulations is allowed to perform maintenance and repair work on mechanical components of the grease gun.
Persons to be trained, instructed or introduced or who are placed in an apprenticeship are only allowed to work on the compressed air grease gun under the constant supervision of an experienced and trained user/employee.

2 Safety *(continued)*

2.6 Personal protective equipment

The personal protective equipment provides adequate protection for persons against hazards and against contact with dangerous substances when the compressed air grease gun is operated or when cleaning, maintenance and service work is carried out on the unit.

The personal protective equipment consists of:

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

2.7 Compatibility

!	**WARNING – Use of non-compatible connections** The compressed air grease gun may only be used with compatible connections provided for the corresponding purpose. The use of non-compatible connections may lead to malfunctions, uncontrolled escape of grease as well as to serious personal injuries and severe material damage. Only accessories approved by PRESSOL may be used to connect the grease nipple or the plug-in nipple.

2 Safety *(continued)*

2.8 Escaping lubricating grease

!	**WARNUNG – lesion of the sensory organs** The compressed air grease gun may only be used with undamaged and flawless hoses and pipes. Hoses and pipes must be promptly replaced after their specified expiry date.

The use of damaged or expired hoses and pipes may lead to malfunctions.
Escaping lubricating grease may cause a reversible impairment of the sensory organs, especially of the eyes.
Only accessories approved by PRESSOL may be used to connect the grease gun with the grease nipple or plug-in nipple.

To minimize the risks, the following mandatory measures must be strictly adhered to:

- Only accessories approved by PRESSOL may be used.
- Assembly and disassembly of the grease gun have to be carried out properly and in accordance with the operating manual.
- The work equipment used must be in flawless condition.
- The compressed air grease gun must be checked regularly for tightness.
- Hoses must be replaced after their specified expiry date.

2 Safety *(continued)*

2.9 Residual hazards, prohibitory, mandatory action and warning signs

WARNING OF HIGH-PRESSURE GREASE

During operation, the compressed air grease gun delivers lubricating grease under high pressure. Lubricating grease may escape through small openings and damaged hoses and can penetrate the skin and cause serious injuries.
The grease jet must be never directed at persons or body parts. Never check for leaks with your hands or unprotected skin.
In case of suspected injection of lubricating grease into the skin, seek medical help immediately.

WARNING OF COMPRESSED AIR

The grease gun is operated by compressed air. When the compressed air supply is disconnected, a residual pressure may remain in the system.
Before maintenance, cleaning and servicing work on the grease gun, disconnect the compressed air supply and completely depressurize the system.
The maximum permissible operating pressure of 8 bar must not be exceeded.

WARNING OF HOSE WHIP

Damaged or worn hoses may burst under pressure, whereby the hose may whip around in an uncontrolled manner and can injure persons.
Hoses must not be bent, twisted or stretched. Check the hoses and couplings for damage before each use. Damaged hoses must be replaced immediately.

WARNING OF EYE INJURIES

During greasing, lubricating grease may escape under pressure so that grease splashes may arise. Wear appropriate protective goggles to protect your eyes against injuries when working with the grease gun.

WARNING OF RISK OF SLIPPING

During filling or greasing, lubricating grease may escape and contaminate the soil. Immediately clean any contaminations in order to avoid accidents caused by slipping and falling.

ATTENTION – DAMAGED COMPONENTS

An operation with damaged or worn components may lead to malfunctions and risks.
Before each use, the grease gun must be checked for visible damage. Defective components must be replaced immediately.

ATTENTION – IMPERMISSIBLE FLUIDS

The grease gun must only be used for lubricating greases of the grades NLGI 00 to NLGI 3. The use of other fluids may lead to damages to the equipment or to hazardous operating conditions.

MANDATORY ACTION – WEAR PERSONAL PROTECTIVE EQUIPMENT

When working with the grease gun, the user has to wear appropriate personal protective equipment (PPE). In particular, the operating personnel has to use the following PPE:

- protective goggles
- oil resistant protective gloves
- safety shoes

NOTE – INTENDED USE

The compressed air grease gun has been exclusively designed for lubricating greasing points through grease nipples.
Any other use or any use beyond this is considered improper use.

MALFUNCTIONS

Malfunctions or operating conditions which may impair the safety of the operating personnel require the immediate shutdown of the grease gun by disconnection of the compressed air supply. Suitable qualified staff must identify and eliminate the cause of the malfunction.
The grease gun may only be put back into service when its proper condition is restored.

2 Safety *(continued)*

2.10 Behaviour in hazardous situations

In the event of a hazardous situation, the compressed air grease gun must be immediately put out of operation. The safety of persons has the absolute priority.
The following measures have to be taken:

1. Immediately stop operating the grease gun.
2. Disconnect the compressed air supply immediately.
3. Depressurize the equipment and disconnect it from the compressed air supply.
4. Remove exposed persons from the danger zone.
5. Determine the cause of the danger and take appropriate measures to eliminate the fault.

The grease gun may only be put back into service when the cause of the danger is completely eliminated and the equipment is in a safe and proper condition again.

!	**WARNING OF HIGH-PRESSURE GREASE** If lubricating grease escapes under high pressure, there is the risk of serious injuries. The grease jet must never be directed at persons. In case of suspected injection of lubricating grease into the skin, seek medical help immediately.

!	**WARNING OF COMPRESSED AIR** When disconnecting compressed air connections, a residual pressure may remain in the system. Before working on the grease gun, check that the compressed air supply is disconnected and ensure that the system is completely depressurized.

3 Design

3.1 Functional description

The compressed air grease gun is designed to deliver lubricant to greasing points of machines and plants. Lubricating grease is discharged under high pressure by a pump mechanism operated by compressed air and is then pressed into a grease nipple by a greasing coupling.

The grease gun is connected to a compressed air supply via a compressed air line with quick coupling. The recommended operating pressure is 6 bar; the maximum permissible operating pressure is 8 bar.

A pneumatically operated pump piston is located inside the grease gun. Due to the pressure ratio of 50:1, the pressure in the supplied compressed air is increased, resulting in a high discharge pressure of up to approx. 400 bar, which allows to press the lubricating grease also into heavily loaded greasing points.

The lubricating grease is comprised in a grease cartridge or in the grease gun tube and is continuously pressed towards the pump unit by a plunger rod in the grease gun tube or by negative pressure. When the trigger lever is actuated, the pumping mechanism is activated and a defined grease quantity is transferred through the hose to the greasing coupling.
The greasing coupling is put on a grease nipple in accordance with DIN 71412. When the grease gun is actuated, lubricating grease is injected in the machine's greasing point. When the operating lever is released the pumping process stops.

The grease gun works as long as compressed air is supplied and the operating lever is actuated. When the compressed air supply is disconnected, the pumping process stops.

For a safe operation, check to ensure that hoses, couplings and the greasing coupling are properly mounted and free of damage.

3 Design *(continued)*

3.2 Overview

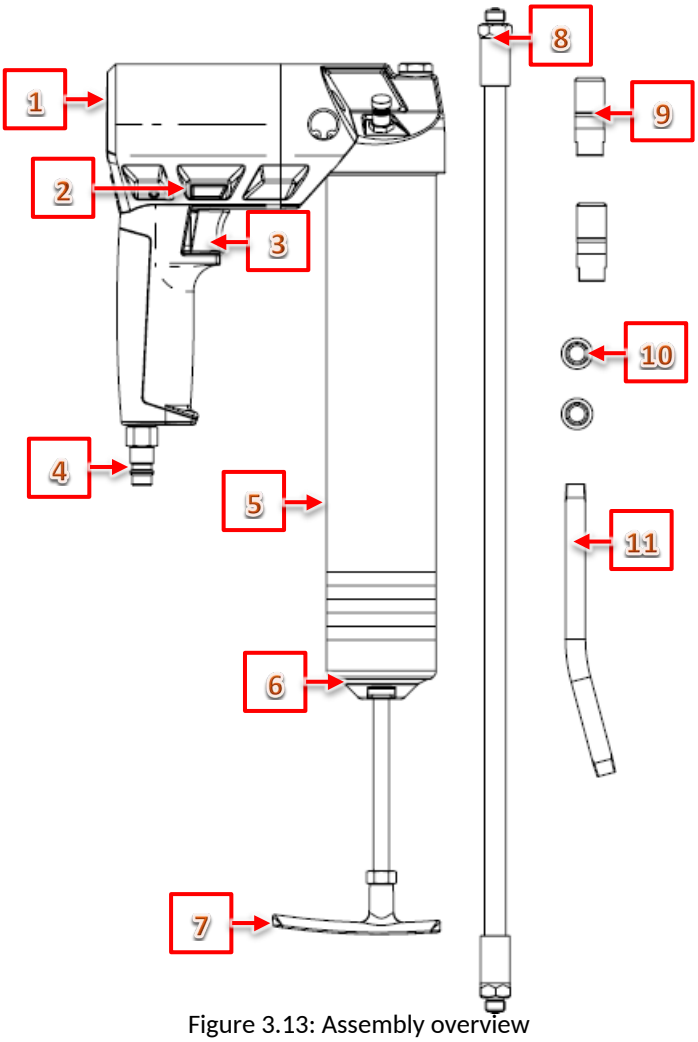


Figure 3.13: Assembly overview

No.	Component designation
1	Compressed air grease gun
2	Slide piston (single or continuous stroke)
3	Push button (switching on the grease gun)
4	Compressed air supply
5	Grease gun tube
6	Plunger rod
7	T-handle
8	Reinforced hose M 10 x 1 male
9	Hydraulic coupler - M 10 x 1 fem.
10	Usit ring M10 10,37x15,88x2
11	Angled spout-M 10 x 1 male

3 Design *(continued)*

3.2 Overview *(continued)*

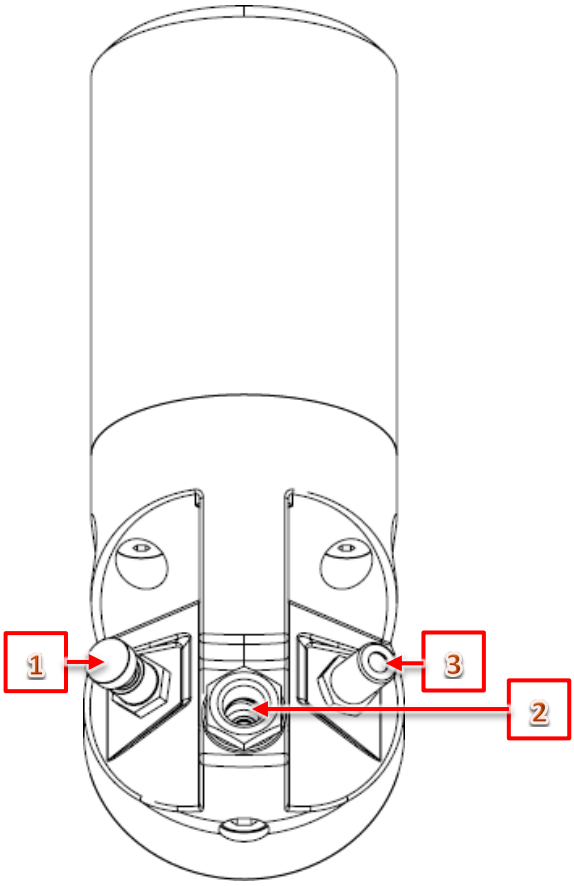


Figure 3.13: Overview piston assembly

No.	Component designation
1	Venting valve
2	Ball seated valve
3	Filling nipple

4 Assembly

The compressed air grease gun is delivered assembled.
Before using the equipment for the first time, check that all parts are present and in good order.
Depending on the model, it may be necessary to fit accessories such as hoses, grease gun head or couplings, whereby a clean and secure fixing of the threaded connections must be ensured.
A quick coupling (Rectus type 26) is provided to connect the compressed air supply.
Before operation, it must be ensured that

- all connections are thoroughly tightened
- the hoses are free from bends and damage
- the grease gun is properly filled with lubricating grease.

After assembly is completed, the compressed air grease gun can be put into operation.

5 Transport and Storage

Observe the following instructions for a safe transport and a proper storage.

Transport
During transport, protect the compressed air grease gun against mechanical damage, moisture and contamination. During transport check to ensure that:

- the equipment is protected against shocks
- hoses and accessories are not bent or crushed
- the equipment is secured against falling and tipping over.

Use an appropriate **transport packaging** for longer transports.

Storage
Store the compressed air grease gun in a **dry** and clean environment.
Protect the equipment against dust, moisture and major temperature fluctuations.

Parameter	Value
Storage temperature	–10 °C to +50 °C
Air humidity	max. 80 %, non-condensing
Storage location	Dry, clean and dust-free

Clean the device and remove any excess grease before storage.

!	**ATTENTION – Note** After long periods of storage, check the compressed air grease gun for the absence of damage and contaminations and for proper function before putting it into operation again.

6 Operation

6.1 Operating conditions

The compressed air grease gun is designed for applications under normal industrial working conditions. For a safe and trouble-free operation, the following operating conditions must be ensured:

Parameter	Value
Ambient temperature	+5 °C to +40 °C
Air humidity	max. 80 %, non-condensing
Altitude	max. 1000m NN
Operation site	dry, clean work environment
Compressed air quality	clean, dry and oiled compressed air (compressed air grease gun may only be used with air maintenance unit and water separator and oiler)
Recommended operating pressure	6 bar
Maximum permissible operating pressure	8 bar

The compressed air supply must be sufficiently dimensioned (minimum air quantity in supply line 350 l/min) in order to ensure a constant operating pressure.

Protect the grease gun against severe contamination, humidity and mechanical damage. Use in potentially explosive atmospheres is only allowed if the equipment is explicitly designed and approved for this application.

!	**ATTENTION – Note** Avoid extreme ambient conditions such as very high or low temperatures, aggressive fluids or severe contaminations because they may impair the proper function and the durability of the grease gun.

6.2 Operating materials and consumables

Only suitable operation materials and consumables are allowed for operating the compressed air grease gun. The use of inappropriate fluids may lead to malfunctions or can cause damage to the equipment.

Operational material	Specification
Lubricating grease	NLGI grade 00 – 3
Cartridge type	400 g grease cartridge acc. to DIN 1284
Alternative filling	400 g and 500 g screw-in cartridges or bulk grease

6 Operation *(continued)*

6.3 Filling the grease gun (inserting the cartridge)

The compressed air grease gun can be filled with grease cartridges or bulk grease. Ensure that the compressed air supply is disconnected before filling.

Inserting the grease cartridge

1. Disconnect the compressed air supply of the grease gun.
2. Turn the grease gun tube to unscrew it from the pump head.
3. Pull the T-handle with the plunger rod fully backwards in the grease container.
4. Remove the pull tab and the protective cap of the grease cartridge
5. Insert the grease cartridge into the grease container.
6. Screw the grease container down to the pump head and tighten it again.
7. Release the plunger rod lock so that the spring presses grease towards the pump unit.

After insertion of the cartridge, it may be necessary to vent the grease pump to ensure that no air remains in the system.

Note

Only appropriate lubricating greases of the grades NLGI 00 to NLGI 3 are allowed to be used.
When filling, ensure cleanliness so that no contaminants can enter the greasing system.
In addition, ensure that the pull tab is fully removed.

Filling procedure

1. Disconnect the compressed air supply of the grease gun.
2. Unscrew the grease gun tube from the pump head.
3. Put the grease container in an appropriate receptacle with lubricating grease.
4. Pull the T-handle with the plunger rod slowly backwards so that the grease gun tube completely fills with grease.
5. Screw the grease gun tube down to the pump head and tighten it again.
6. Release the plunger rod lock so that the spring presses grease towards the pump unit.

After filling, it may be necessary to vent the grease gun in order remove any trapped air from the system.

Note

When filling, ensure absolute cleanliness. Contaminants in the lubricating grease may cause damage to the grease gun or to the machines to be greased.
Only lubricating greases of the grades NLGI 00 to NLGI 3 are allowed to be used.

6 Operation *(continued)*

6.4 Connection of the compressed air supply

For operation, the compressed air grease gun needs a supply of clean, dry and oiled compressed air.

The compressed air grease gun is only allowed to be used with air maintenance unit with water separator and air oiler!
For example, PRESSOL air maintenance unit, reference number 20 218 950.

The supply unit is connected by the quick coupling (Rectus type 26) provided at the device. Before connecting the device, ensure that the compressed air line is free of pressure and in perfect working order.

The compressed air line is plugged in the quick coupling of the grease gun until a safe connection is made. When the line is connected, verify the connection for tightness and the absence of leaks.

The recommended operating pressure is 6 bar. The maximum admissible compressed air pressure is 8 bar and must not be exceeded.

Before starting the grease gun ensure that:

- the compressed air line is correctly connected
- all hose connections are tight
- the hoses and couplings are free from damage.

To disconnect the compressed air supply, at first shut off the compressed air supply. Then, the compressed air line can be disconnected at the quick coupling. Keep in mind that there may be a residual pressure in the system.

6 Operation *(continued)*

6.5 Greasing

During greasing, lubricating grease is pressed in greasing points of machines or plants. Make sure that the greasing coupling is sitting correctly on the grease nipple and that there are no leaks.

Procedure:

1. Connect the compressed air supply to the grease gun.
2. Put the greasing coupling straight and firmly onto the grease nipple.
3. Check the greasing coupling for firm seating.
4. Actuate the grease gun lever.
5. Grease is pressed into the greasing point via the hose and the greasing coupling.
6. Repeat the procedure as long as sufficient grease has been pressed into the greasing point.
7. Release the actuation lever and carefully pull the greasing coupling off the grease nipple.

Note

When greasing, excess lubricating grease may escape, which must be removed after greasing in order to avoid contaminations or the danger of slipping.

During greasing, take care that the grease jet is not directed at persons and that hoses and couplings are free from leaks.

!	**WARNING OF HIGH-PRESSURE GREASE** Durin g greasing, the grease gun delivers lubricating grease under high pressure. Lubricating grease may escape through small openings and damaged hoses and can penetrate the skin and cause severe injuries. The grease jet must never be directed at persons or body parts. Never check for leaks with your hands or unprotected skin. In case of suspected injection of lubricating grease into the skin, seek medical help immediately.

!	**WARNING OF EYE INJURIES** During greasing, lubricating grease may escape under pressure so that grease splashes may arise. Wear **appropriate protective goggles** to protect your eyes against injuries when working with the grease gun.

6 Operation *(continued)*

6.6 Venting the grease gun

After the insertion of a new grease cartridge or after filling in bulk grease, air may be trapped in the grease gun's delivery system. In this case, no or only an insufficient quantity of lubricating grease is delivered. Therefore, the grease gun must be vented.

Procedure:

1. Connect the compressed air supply to the grease gun.
2. Direct the grease gun head into a collection bin.
3. Carefully open the venting screw at the pump head and push it fully downwards. Alternatively: open the grease gun tube by half a turn and fully close it after the air has escaped or press the ball of the filling nipple downwards.
4. Actuate the grease gun lever until lubricating grease continuously escapes and no more air bubbles appear.
5. Check the proper function of the grease gun during a short greasing operation.

Note

If, after venting, the grease delivery is still insufficient, check whether:

- the grease cartridge is correctly inserted
- sufficient lubricating grease is available
- the grease gun head is free and in proper operating condition

!	**WARNING OF HIGH-PRESSURE GREASE** During venting, lubricating grease may escape under pressure. The escaping grease jet may cause injuries. Never direct the grease jet at persons or body parts. When venting, wear **appropriate protective goggles**.

6 Operation *(continued)*

6.7 Disassembly

Before disassembly, ensure that the equipment is taken out of operation and completely free from pressure.

Procedure:

1. Shut off the compressed air supply of the grease gun.
2. Disconnect the compressed air line from the quick coupling.
3. Ensure that there is no residual pressure in the system.
4. Unscrew the grease container from the pump head and, where applicable, take out the grease cartridge.
5. Clean the individual components and prepare them for maintenance, replacement or storage.

When disassembling the grease gun, take care not to damage the components and ensure cleanliness.

!	**WARNING OF COMPRESSED AIR** Before disassembly, the compressed air supply must be disconnected and the system must be made completely pressureless. When disconnecting the compressed air connection, a residual pressure may be in the system. Therefore, compressed air connectors must be carefully loosened in order to avoid injuries by escaping compressed air or lubricating grease.

6.8 Disposal

Dispose of the compressed air grease gun and the accruing materials in accordance with the applicable national and local regulations.
Before disposal, ensure that the equipment is completely pressureless and that no residual materials remain in the system.
Properly remove any lubricating grease residues and dispose of them according to the applicable environmental regulations. Do not allow lubricating greases to enter the environment, watercourses or sewage systems. The individual components are primarily made of metal or plastic. They must be separated and recycled by their corresponding material groups.
Packaging materials must be also separated and recycled by their corresponding material groups.

!	**ATTENTION – NOTE ON ENVIRONMENTALLY SOUND DISPOSAL** An improper disposal can cause harm to the environment. All materials, lubricants and components must be properly disposed of in accordance with the applicable environmental and disposal regulations.

7 Maintenance and Servicing

Regular maintenance and servicing work on the compressed air grease gun is required to ensure a reliable function and a long service life of the equipment.
Before starting maintenance and servicing work, ensure that the compressed air supply is disconnected and that the equipment is free from pressure.

Maintenance work
The following maintenance work must be carried out regularly:

- Visual inspection of the grease gun for damage or wear
- Check of the hoses and couplings for cracks, wear or leaks
- Verification that the greasing coupling is firmly in place and functions properly
- Cleaning of the grease gun to remove excess lubricating grease and contaminations
- Verification that the compressed air connection is firmly secured and tight

Damaged or worn components must be replaced immediately.

Replacement of hoses
Hoses are subject to natural wear. They must be checked regularly and have to be replaced should damage or visible wear be found.
The maximum service period of hoses is 6 years maximum from the production date.

Cleaning
Clean the outside of the grease gun regularly with suitable cleaning agents.
Take care that no contaminants can enter the delivery system, because otherwise malfunctions may occur.

!	**WARNING OF COMPRESSED AIR** Before maintenance and servicing work, the compressed air supply must be disconnected. Ensure that there is no residual pressure in the system before connections are loosened or components are disassembled. The equipment may only be put back into service when all parts are properly installed and fully functional.

8 Repair

Repair work on the compressed air grease gun may only be carried out by the manufacturer or authorized specialist personnel.
Unauthorised repairs or modifications on the equipment are not allowed, because they may impair the safety and the functionality of the grease gun.
Defective or damaged equipment must be taken out of operation and sent to the manufacturer or to an authorised workshop for repair.
After a repair, ensure that the equipment is back in proper and safe condition before it is taken in operation again.

!	**WARNING OF IMPROPER REPAIRS** Improper repairs may cause dangerous operating states and injuries. Repairs may only be made by the manufacturer or authorized repair shops. Unauthorised modifications or repairs are not allowed on the equipment.

9 Spare Parts / Accessories

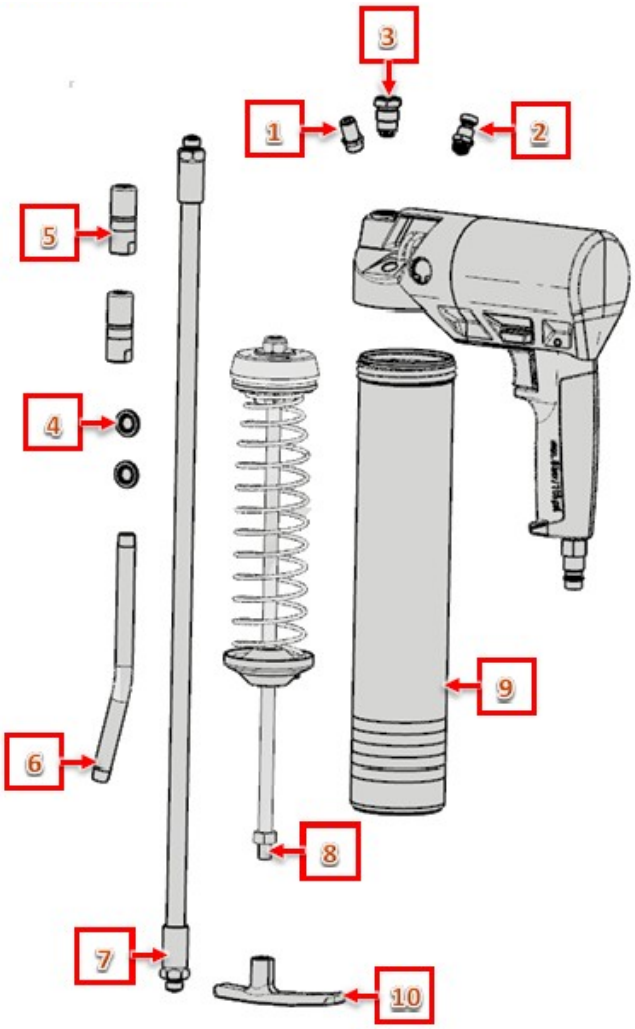


Figure 3.13: Spare parts overview

No.	Component designation	Part No.
1	Filling nipple for grease gun head	12670
2	Venting valve for grease gun head	85277
3	Ball seated valve assembly	93291
4	Usit ring M 10, 37 x 15,88 x 2	86195
5	Hydraulic spout M10 x 1 fem.	12642
6	Angled coupler M 10 x 1 male	12635
7	Reinforced hose M 10 x 1 male	12665
8	Plunger rod assembled	85721
9	Grease gun tube galvanized	00363
10	T-handle	85623

10 Troubleshooting

The following table helps identify and remedy frequent malfunctions during operation of the compressed air grease gun.

Malfunction	Possible cause	Remedy
No grease delivery	Grease gun not vented	Vent the grease gun
	Empty grease cartridge	Insert a new grease cartridge
	Grease cartridge not correctly inserted	Insert cartridge correctly
	Grease nipple clogged	Clean or replace grease nipple
Delivery rate too low	Air in the delivery system	Vent the grease gun
	Compressed air pressure too low	Check the compressed air pressure and set it to approx. 6 bar
	Grease too viscous	Use appropriate lubricating grease (NLGI 00–3)
Grease escapes at the connections	Hose connection too loose	Tighten the connection
	Damaged seal	Check and replace the seal
Uncontrolled movement of the hose	Hose damaged or aged	Replace the hose
Compressed air escapes	Coupling or connection leaking	Check, and if required, replace connection



WARNING OF COMPRESSED AIR
Before carrying out troubleshooting work, disconnect the compressed air supply and completely depressurize the system. When detaching connectors, a residual pressure may be in the system. Therefore, carefully loosen connections.

11 Manufacturer’s Declaration

The manufacturer herewith declares that the compressed air grease gun was developed and manufactured in accordance with the applicable safety requirements and the generally accepted technical rules.

The compressed air grease gun is designed for its intended use, viz. pumping lubricating greases, and corresponds to the state-of-the-art technology at the time of the product launch.

Manufacturer:
Pressol Tschechien s.r.o.
Vitkov 122
CZ-34701 TACHOV
www. pressol.com

PRESSOL Schmiergeräte GmbH
Parkstraße 7
93167 Falkenstein I Germany
Tel.: +49 9462 170
E-Mail: info@pressol.com
www.pressol.com

Editorial Team:
CE – Documentation Löwen, www.maschinendokumentation.de