文件编号：BT-RD-PS-005

V1.1

使用说明书

GEU GEV 电动油脂润滑泵

集中潤滑給油裝置

CENTRALIZED LUBRICATION DEVICE

专注减磨增效，成就客户核心竞争力

宝腾智能润滑技术(东莞)有限公司
BAOTN INTELLIGENT LUBRICATION TECHNOLOGY (DONGGUAN) CO.,LTD.

Directory

I、Safety Instructions

The following symbols provide important safety guidelines for proper product usage.	
	Read the product manual carefully before operation. Improper use may cause equipment damage or personal injury.
	Always disconnect power before performing maintenance or repairs.
	Ensure proper grounding during wiring. Incorrect grounding may cause severe damage
	Warning

II、Declaration

All components are manufactured in compliance with occupational safety and accident prevention regulations. However, improper use may still pose risks to users, third parties, or property. Therefore, strictly follow the operating instructions. Any safety-related issues must be addressed immediately.

+ Disclaimer

Dongguan Baoteng is not liable for damages caused by:

Insufficient lubricant

Use of solid or incompatible lubricants

Improper usage

Installation or connection errors

Incorrect troubleshooting

+ Authorized Installation Technicians

Only certified engineers may install, operate, maintain, or repair this product. Certified personnel must be trained, experienced, and knowledgeable about relevant standards, regulations, and safety protocols.

+ Transport & Storage

No restrictions apply for road, air, or sea transport.

+ Environmental Protection

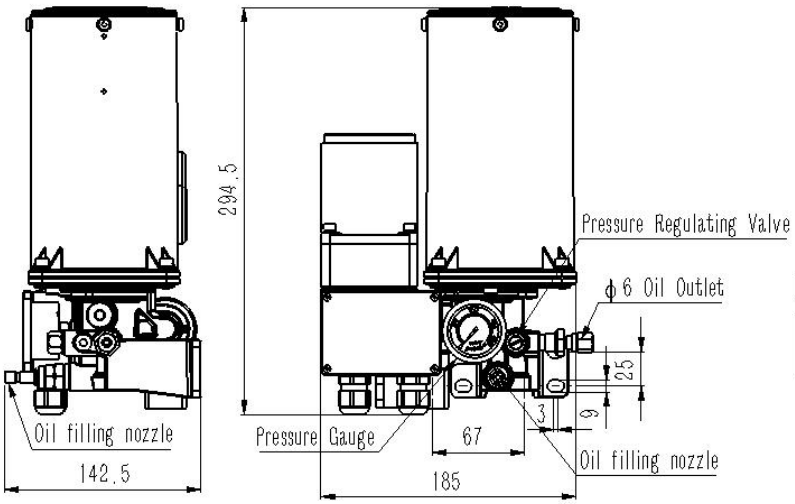
Oil and grease are hazardous to soil and water. Follow special safety regulations for storage, handling, and transportation.

III、Overview

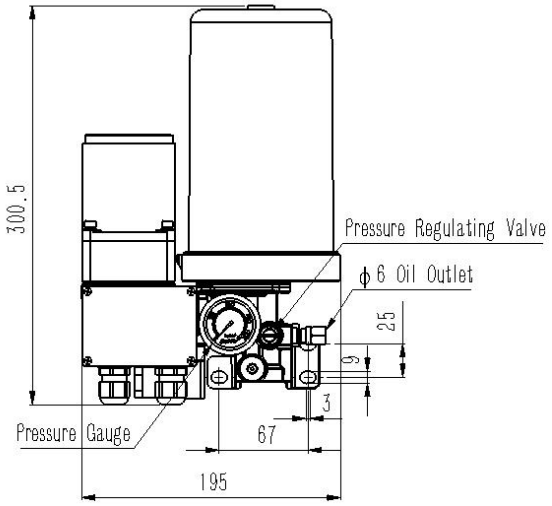
The GEU (tank-type) and GEV (cartridge-type) electric grease lubrication pumps are designed for large and medium-sized machinery. They are widely used in industries such as CNC machinery, production lines, textiles, plastics, printing, chemicals, and food processing to enhance equipment longevity and precision.

The GEU/GEV type electric grease lubrication pump has integrated the pressure switch inside the lubrication pump, which can be combined with a quantitative grease distributor to form a centralized lubrication system, achieving quantitative oil injection lubrication at each lubrication point. It is particularly recommended to use it in conjunction with the volumetric GFA/GFB, GFD/GFE distributors or progressive GPC, GPE distributors produced by our company to fully leverage the efficiency of the lubrication system and achieve precise quantitative oil injection to the lubrication points (volumetric systems are recommended for priority use).

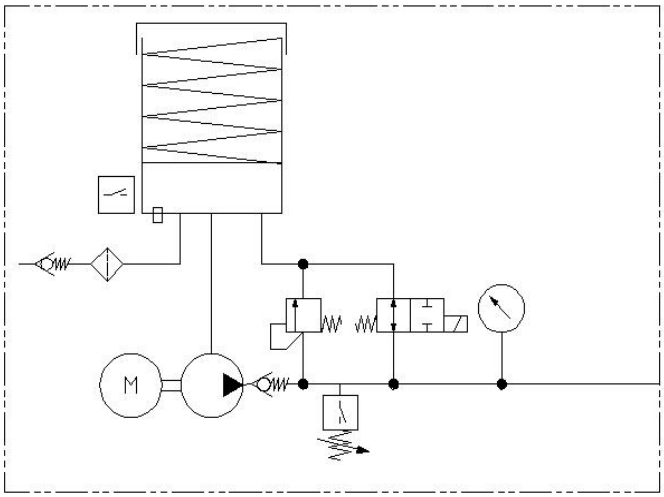
IV、Lubrication Pump Dimensions & Working Principle



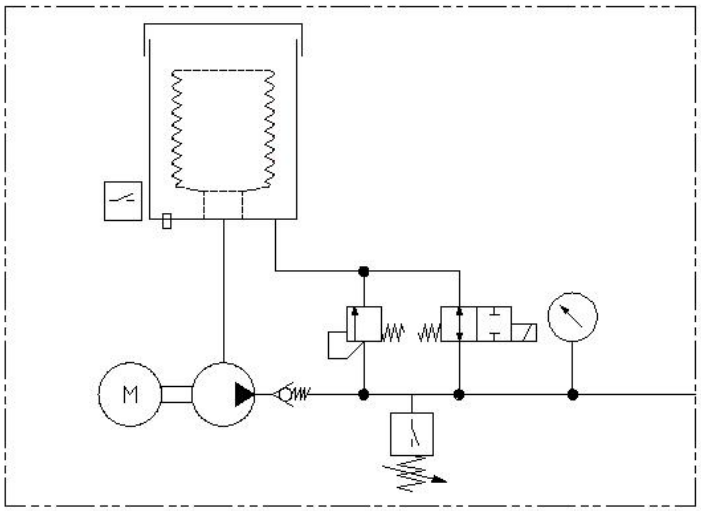
GEU Dimensions



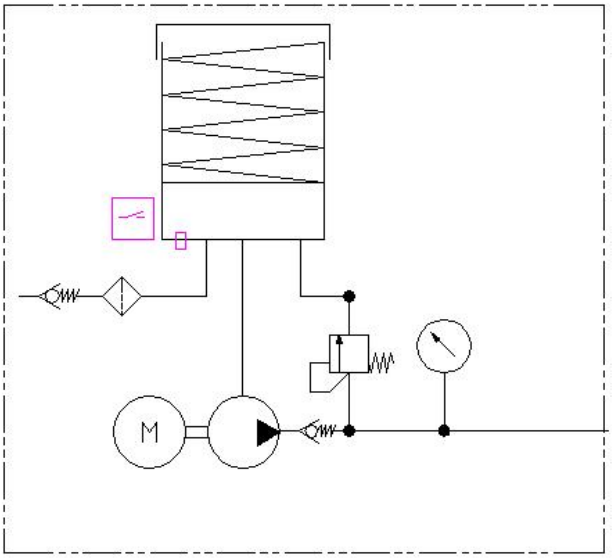
GEV Dimensions



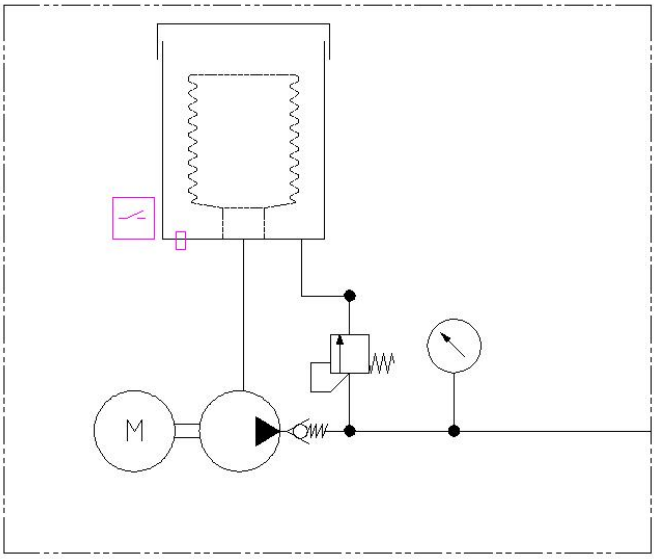
GEU-222TP1 Working Principle



GEU-222TP1 Working Principle



GEU-122T1Working Principle



GEV-172T1 Working Principle

V、Lubrication Pump Selection & Technical Specifications

GEU-□□□□□□

0:Outlet port without fitting
1:Single right-facing Ø6 outlet port fitting
2:Dual right-facing Ø6 outlet port fittings

Blank:Without pressure switch
P:With pressure switch

Blank:Without level switch
T:With level switch

2:AC 220V
9:DC 24V

2:Oil tank capacity:2L
(Effective Volume:1L)

1:Resistance-type lubrication pump
2:Positive displacement lubrication pump

Tank-type lubrication pump

GEV-□□□□□□

0:Outlet port without fitting
1:Single right-facing Ø6 outlet port fitting
2:Dual right-facing Ø6 outlet port fittings

Blank:Without pressure switch
P:With pressure switch

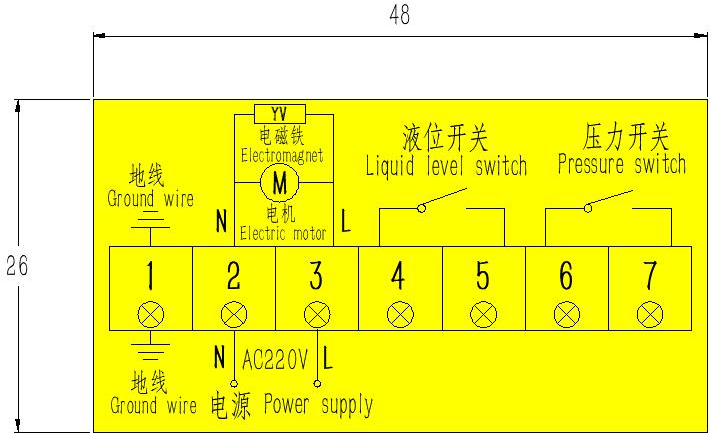
Blank:Without level switch
T:With level switch

2:AC 220V
9:DC 24V

7:Oil tank capacity: 0.7L

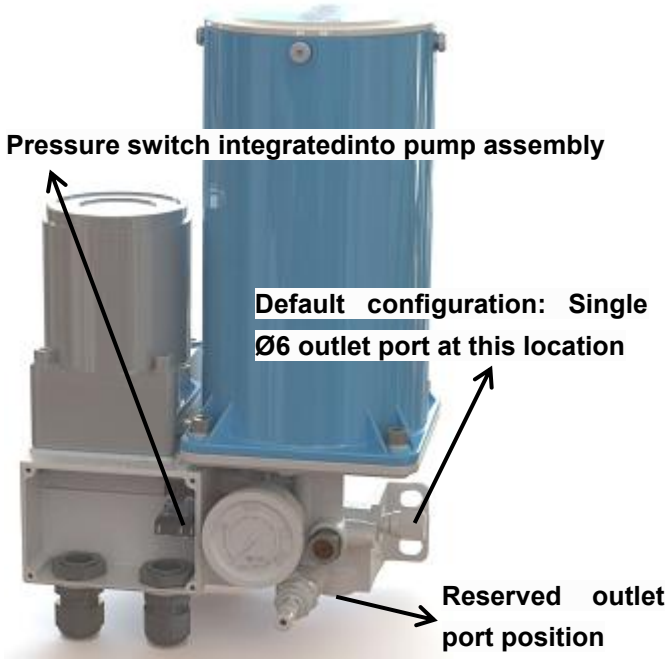
1:Resistance-type lubrication pump
2:Positive displacement lubrication pump

Cartridge-type lubrication pump



Schematic Diagram of 220V Circuit with Liquid Level Switch and Pressure Switch. Specific models are subject to the actual products.

Voltage	24VDC/220VAC
Flow Rate	12±15%mL/min
Grease Type	NLGI 000—0
Operating Pressure	5MPa
Temperature Range	-10℃~+60℃
Storage Temp.	-40℃~+80℃
Tank Capacity	1L (GEU) / 0.7L (GEV)
Outlet Ports	1–2 (Default: Ø6, optional Ø8 φ10)
Inlet Port	Straight-through grease gun
Protection Rating	IP44



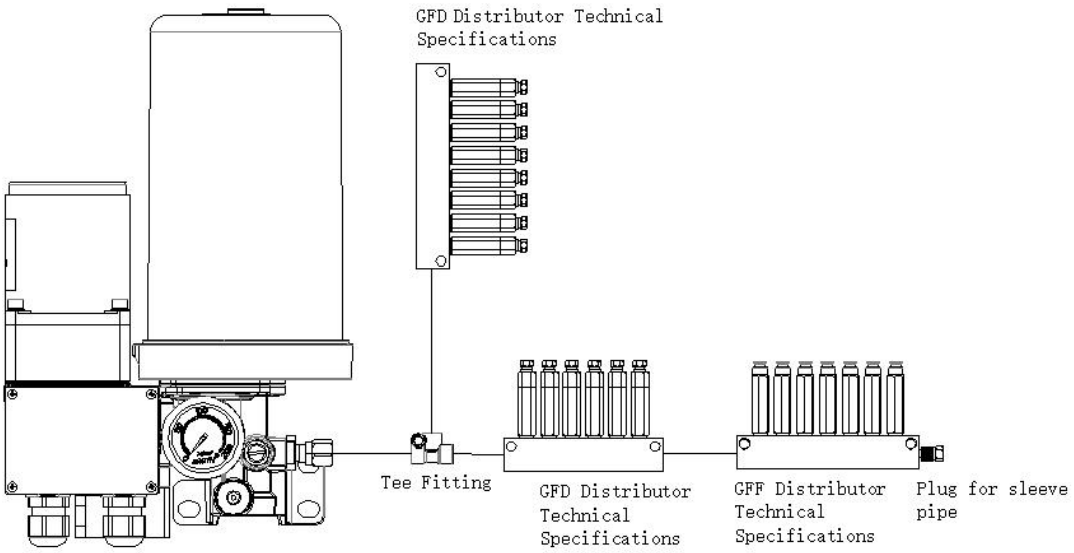
Supplementary Notes:

1.GEU/GEV series products share identical mounting dimensions with GEN/GEO series, ensuring direct replacement compatibility."

2.The pressure switch is pre-installed in the pump housing (IP54 rated), eliminating the need for external pressure switch components.

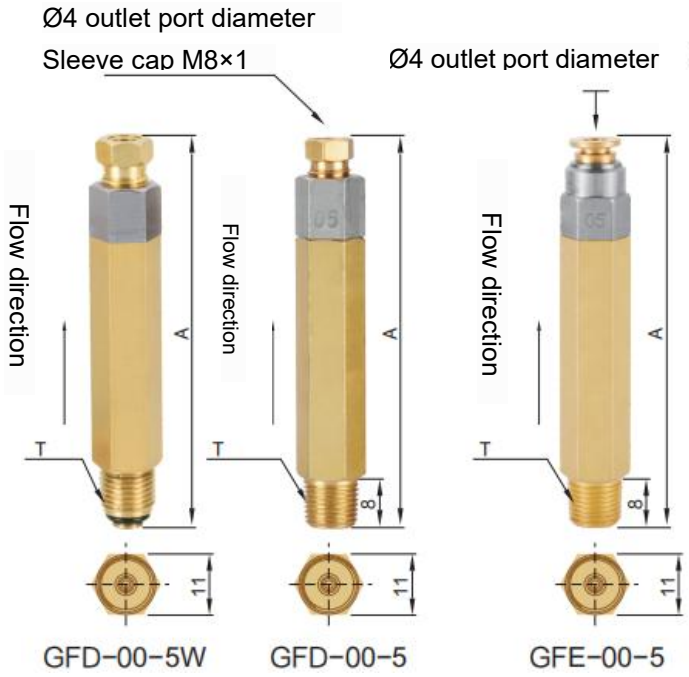
3.Terminal blocks and wiring diagrams are permanently affixed to the junction box cover plate for maintenance accessibility

VI、Lubrication System Structure



GEV Positive Displacement System Schematic

VII、Description of Quantitative Pressure-Type Distributor



Order Coding Instructions

GFD/GFE-00 -□□

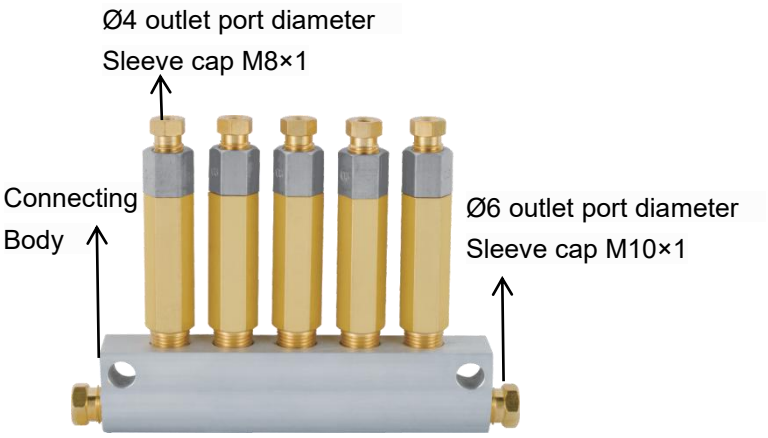
Outlet Flow Rate Value

05	0.05 mL/次
1	0.1 mL/次
2	0.2 mL/次
3	0.3 mL/次
4	0.4 mL/次
5	0.5 mL/次

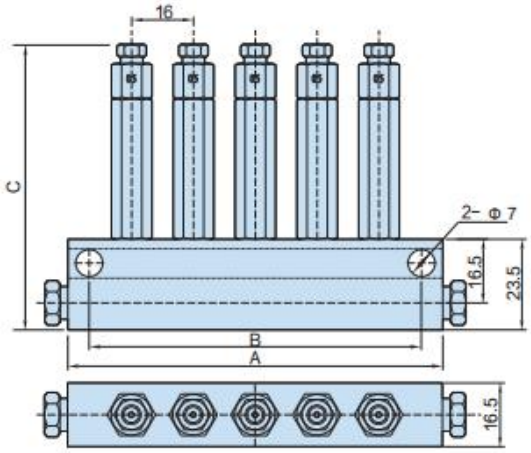
Thread Type

Blank	PT 1/8
W	M10×1

Model Specification	Discharge Volume	A	Marking	T	Weight (g)
GFD/GFE-00-05	0.05	53	00	PT 1/8 M10 ×1	38
GFD/GFE-00-1	0.1	53	01		38
GFD/GFE-00-2	0.2	60	02		38
GFD/GFE-00-3	0.3	60	03		38
GFD/GFE-00-4	0.4	71	04		54
GFD/GFE-00-5	0.5	71	05		54



Product Outline Dimension Drawing



GFD/GFE-□-□-□□

Number of Outlet Ports

Flow Rate Code

05	0.05mL
1	0.1mL
2	0.2mL
3	0.3mL
4	0.4mL
5	0.5mL

Inlet Port Type

blank	Pipe Fitting
K	Body thread PT 1/8

Number of Inlet Ports

blank	Dual Inlet Ports
S	Single Inlet Port

Notes:

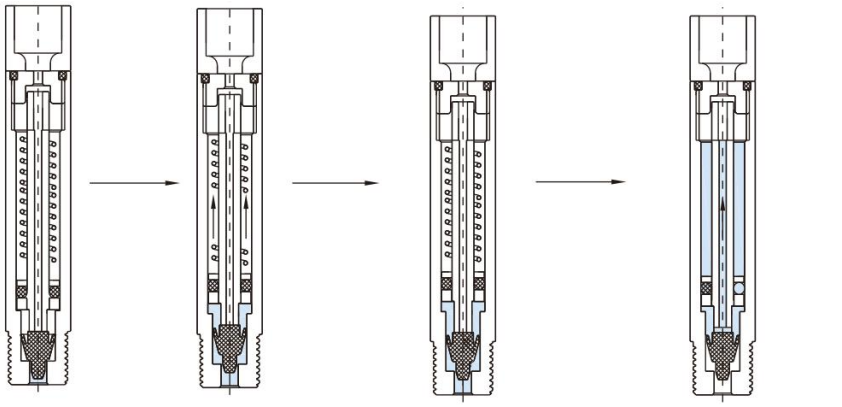
1.Oil Output Representation Method:

① Uniform Output: When all outlet ports have the same flow rate, use a single value.
*Example:*GFD/GFE-05-2indicates all 5 outlets of the GFD/GFE distributor deliver 0.2 mL/cycle.

② Varied Output:For mixed flow rates, list values sequentially.*Example:*GFD/GFE-05-53235denotes outlet flows as 0.5/0.3/0.2/0.3/0.5 mL/cycle (ports 1–5 respectively).

2.Inlet Port Thread Options:

Available in M10×1 or PT1/8. Contact us for details.



1.Before Discharge (Pressurization Start) | 2.Discharging (Piston Returning) | 3. Discharge Completed (Pressurization Completed) | 4.Oil Storage Phase *(Pressurization in Progress)*

GFD/GFE Distributor Working Principle Diagram

Working Principle of GFD/GFE Distributor

1. Lubricant Injection

Pressurized grease from the pump forces the umbrella sealupward within the distributor.

2. Discharge Initiation

When the umbrella seal closes the core rod center port, the piston overcomes spring resistance and rises, ejecting pre-stored grease from the chamber。

3. Discharge Completion

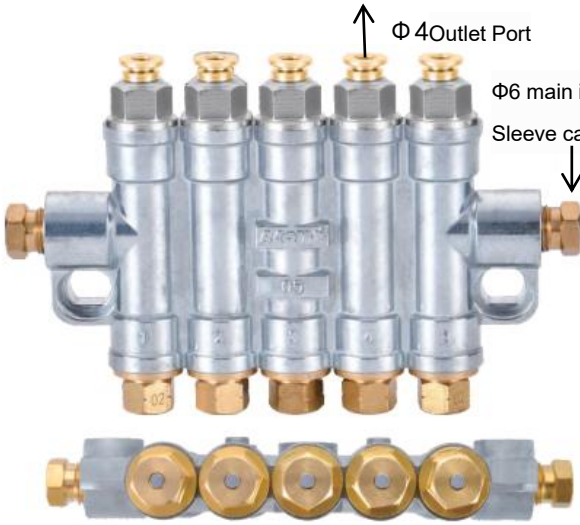
At the piston's top dead center (TDC), grease discharge concludes with ±2% volumetric accuracy (ISO 4406 Class 8).

4. System Reset

Upon pump shutdown:a) Pressure relief valve opens, returning oil to the reservoir.b) System pressure decays to <0.3MPa.c) Spring-driven piston resets, transferring grease from the lower chamber to the upper chamber via the core rod orifice.d) The umbrella seal reseals the inlet, preparing for the next cycle.

VIII、Quantitative Pressure-Release Grease Distril

GFA-05



GFB-05

Order Coding Instructions

GFA/GFB – □ – □ – □

Number of Inlet Ports

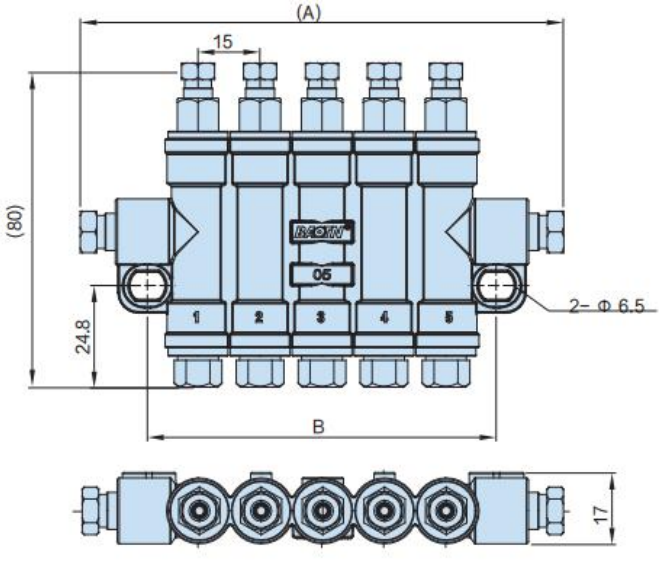
blank	Dual inlet ports
S	Single inlet port

Flow rate code

1	0. 1mL
2	0. 2mL
3	0. 3mL
4	0. 4mL
5	0. 5mL

Number of outlet ports

Product outline dimension drawing



GFA/GFB-05

Model and technical specifications

Model number	Number of outlet ports	A	B	Discharge volume
GFA/GFB-01	1	69	39	0.1;0.2;0.3;0.4;0.5
GFA/GFB-02	2	69	39	
GFA/GFB-03	3	86	54	
GFA/GFB-04	4	102	69	
GFA/GFB-05	5	116.5	84	
GFA/GFB-06	6	160	105	
GFA/GFB-07	7	144	107	

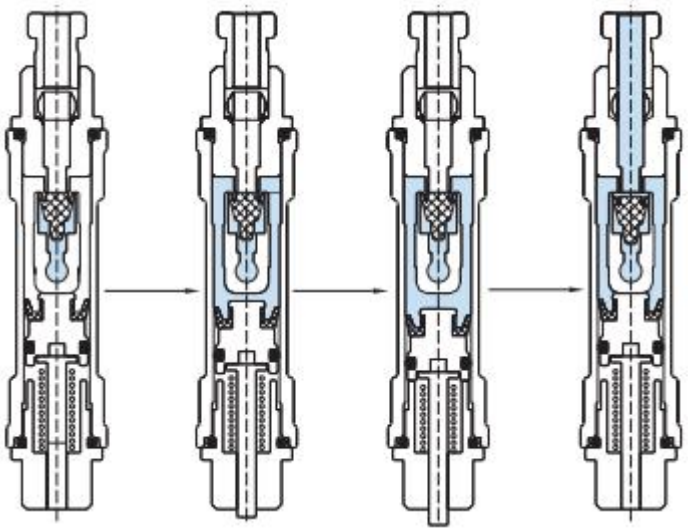
Flow rate designation method:

1.Uniform flow rate:When all outlet ports have identical flow rates, specify with a single value.

*Example:*GFA/GFB-05-2indicates all 5 outlets deliver 0.2mL/cycle.

2.Mixed flow rates:For varied outputs, list values sequentially.
*Example:*GFA/GFB-05-53235denotes outlet flows as 0.5/0.3/0.2/0.3/0.5 mL/cycle (ports 1–5 respectively).

GFA/GFB Distributor working principle diagram



1.Before oil storage (Pressurization start)
2.During oil storage (Pressurizing)
3.Oil storage completed (Pressurization complete
4.During discharge (Piston returning)

GFA/GFB Distributor Working Principle Description :

1.Grease Injection

Lubricant from the pump pushes upward through the umbrella valve.

2.Sealing & Storage

The umbrella valve seals the outlet port. Oil pressure forces the storage block to compress the spring and descend, filling the chamber.

3.Storage Completion

The storage block reaches the chamber's top dead center (TDC), completing oil storage.

4.Discharge Phase

Pump stops → Pressure relief valve opens → System pressure drops.

IX、Lubrication System Oil Supply Cycle and Installation Guidelines

1、Lubrication System Oil Supply Cycle Setting

The oil supply cycle of the lubrication system (the operating time of the lubrication pump and the intermittent time of the lubrication pump) is set based on the number of lubrication points, the oil demand of the lubrication points, and the length (height) of the main pipeline. The following methods are recommended to determine the oil supply cycle of the lubrication system:

1.1 The operating time of the lubrication pump is determined as follows: When the lubrication pump starts to operate, the pressure of the lubrication system gradually rises. After the pressure switch of the lubrication system

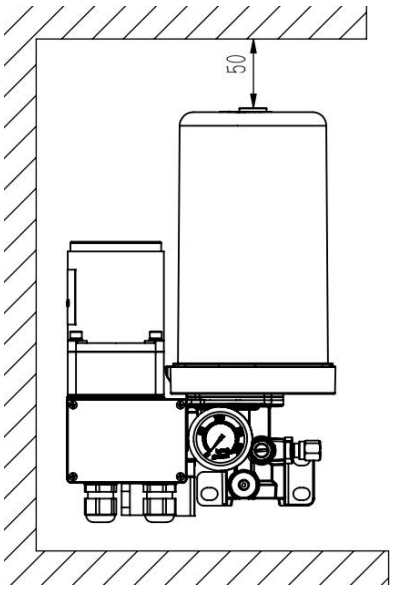
is triggered to rise to 5MPa, it lasts for another 30 to 60 seconds. This period of time is the operating time of the lubrication in this lubrication system.

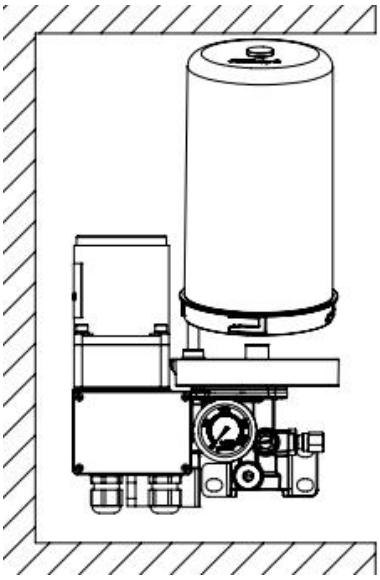
1.2 The minimum intermittent time of the lubrication system is determined as follows: After the lubrication pump in the lubrication system stops working and the pressure in the lubrication system drops to 0, it lasts for 2 to 5 minutes (depending on the length of the pipeline). This period of time is the minimum intermittent time of the lubrication system.

2.Installation Instructions for Lubrication System

2.1 The lubrication pump should be installed vertically and stably, fixed in a location with less environmental pollution, convenient for oiling and maintenance, and easy to observe (applicable ambient temperature -20℃ to 50℃).

2.2 The installation requirements for the GEV oil tank type lubrication pump stipulate that the top space of the oil tank should not be less than 50mm; otherwise, the oil tank cannot be disassembled to replace the oil drum.





2.3 The lubrication pump should be installed at the center of the lubrication system, which can shorten the pipeline of the lubrication system, save pipe layout and reduce system pressure loss.

2.4 The distributor and metering parts should be selected at positions that are convenient for installation, maintenance and operation, and easy to observe.

2.5 The grease filter is an essential lubricating component of the grease lubrication system and is recommended to be installed before the oil filling port of the lubrication pump.

2.6 The pressure switch should be installed at the end of the lubrication system pipeline. A group of distributors (or metering components) should be set behind the pressure switch to promote the flow of grease, prevent grease deposition and aging, and avoid the malfunction of the pressure switch.

2.7 The piping of the main pipeline and branch pipelines should be short and quick, and avoid setting too many elbows (do not flatten the oil pipe when it is bent) to reduce the pressure loss of the lubrication system and ensure the smoothness of the pipeline.

2.8 When the high-pressure hose is used in a straight line, it should be slightly relaxed. If it is bent at a moving part, it must be greater than the specified value, and at the same time, do not twist the hose too much.

2.9 When assembling pipes, the chips and dirt on both the inner and outer surfaces of the pipes must be removed and kept clean.

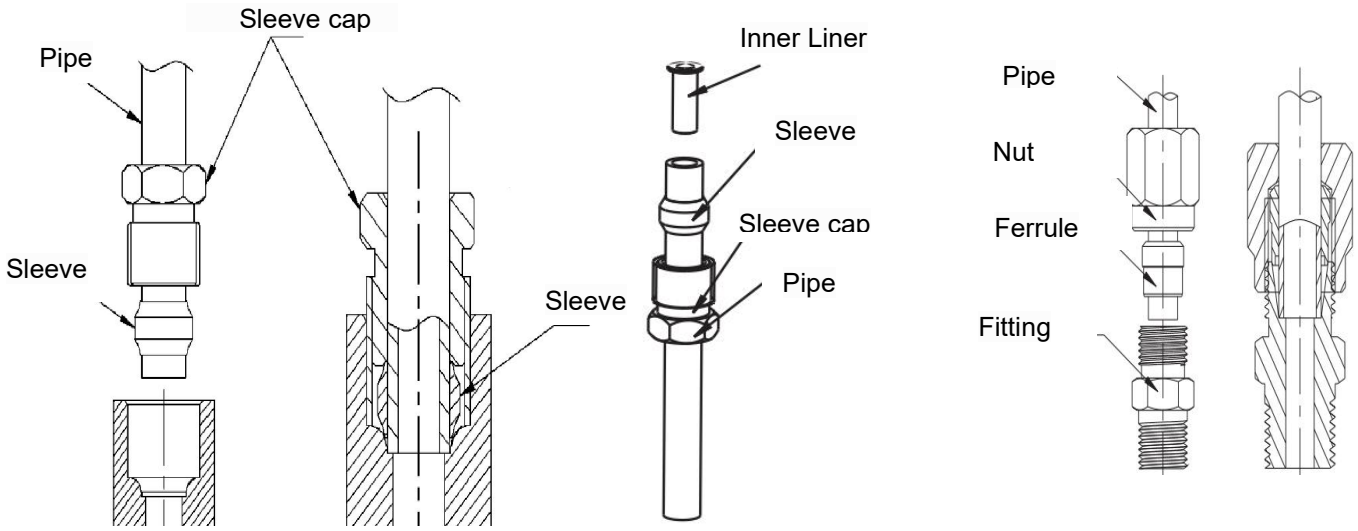
2.10 All pipe connections must be installed firmly. No oil or oil leakage should be found at the pipe connections.

2.11 The pipes used in the system must be fixed with pipe clamps to strictly prevent vibration during the supply of grease.

2.12 When cutting the oil pipe, a pipe cutter should be used to cut it at a right Angle. Be careful not to break or scratch the pipe opening, and never flatten or bend the oil pipe.

2.13 Installation method for inner liner, sleeve pipe and sleeve cap: First slide the sleeve cap onto the oil pipe (copper pipe or high-pressure hose), then slide the sleeve pipe over it (for nylon pipes, the inner liner must be inserted into the pipe wall first). At this point, allow 2-3mm of the oil pipe end to protrude from the sleeve pipe, then insert it into the joint body. The oil pipe must be flush against the top of the joint body before tightening.

2.14 The installation method for ferrule-type pipe fittings is as follows: First slide the fitting onto the pipe, then slide the ferrule over it, ensuring the pipe end protrudes 2-3mm beyond the ferrule before inserting it into the joint body. The pipe end must contact the top of the joint body before tightening. This process ensures proper sealing by allowing the ferrule's cutting edge to uniformly bite into the pipe wall when the nut is tightened, creating a reliable connection without welding.



X、Operation and Debugging Guidelines for Lubrication Pumps

1、Ensure the power supply is properly connected and securely fastened, and verify the sensitivity of the pressure switch in the system (for GEU/GEV-2 type lubrication pumps, the solenoid valve operates synchronously with the pump, connected in parallel with the motor, and the solenoid valve's indicator light illuminates during normal operation).

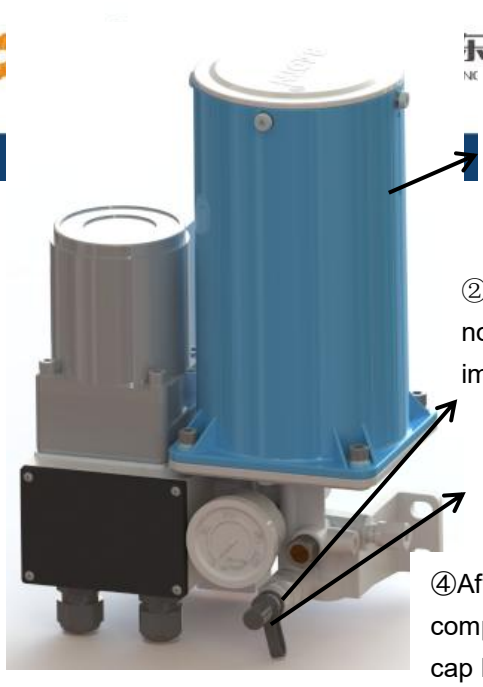
2、The working pressure of this lubrication pump has been preset to 5MPa at the factory; unauthorized pressure adjustment is prohibited.

3、Grease Specification: NLGI 0-000 extreme-pressure lithium-based grease must be used. The use of lubricating oil containing impurities is strictly prohibited. During grease replenishment, ensure no contaminants enter the lubrication system.

4、Recommended grease grades: Use NLGI 000 grade when ambient temperature is below 15°C; use NLGI 00-0 grade when above 30°C.

5、Initial Lubricant Filling Procedure: First add ISO VG 32-68 hydraulic oil, followed by grease. (The superior fluidity of hydraulic oil facilitates air purging from lubrication system pipelines and removes contaminants from friction surfaces.)

6、GEU Series Refueling Instructions: Lubricating oil must be added to the pump through the oil filter. Opening the oil tank cover for refueling is strictly prohibited. This prevents contamination and air from entering the reservoir, which could cause pump seizure or aerated oil discharge.

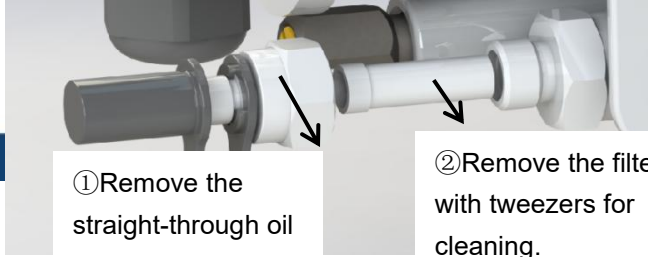


③Fill the oil up to the position of the lower air vent.

②Refuel through the oil nozzle to prevent impurities from entering.

①Remove the dust cap of the oil nozzle.

④After refueling is completed, install the dust cap back.



①Remove the straight-through oil

②Remove the filte with tweezers for cleaning.

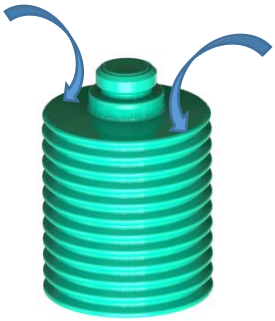
Scan this QR co WeChat to watc video on fuel nozz cleaning.

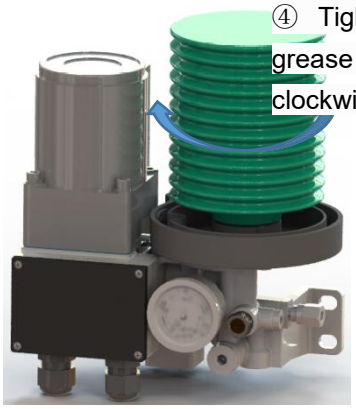
7、GEV Series Cartridge Replacement Notes: Do not reuse cartridges to avoid contamination and air entrapment. During initial pump operation, remove the base plug from the reservoir before installing the cartridge. When installing a new cartridge, slightly expel grease from the nozzle to purge air before mounting it onto the pump.

①Unscrew the oil tank counterclockwise.

②Remove the foam when using the lubrication pump for the first time.

③Gently press the grease cartridge to expel grease and purge air.





④ Tighten the grease cartridge clockwise.

⑤ Tighten the oil tank clockwise.

8. Initial operation procedure for GEU/GEV-2 lubrication pumps: Start the lubrication pump to fill the main pipeline with

lubricating oil, then unscrew the plug at the system end to allow the lubricating oil to discharge from the plug screw hole (removing impurities and air inside the pipeline). After observing bubble-free discharged lubricating oil, reinstall all plugs according to original assembly. When the pump's working pressure rises to 5MPa (observed on pressure gauge) or the pressure switch receives the signal, maintain for 5-10 seconds before cutting power to stop the pump. Wait for the lubrication system pressure to fully release to zero for 2-5 minutes, then restart the pump operation. When the pump's working pressure rises to approximately 5MPa or the pressure switch collects the signal, maintain for 5-10 seconds before cutting power to stop the pump. After observing normal oil discharge from all distributors (metering devices), connect the distributors (metering devices) firmly to branch pipelines. Repeat this cycle several times until all branch pipeline ends discharge oil without bubbles, then connect each lubrication point individually and set the oil supply cycle for automatic operation.

9. 9、Initial operation procedure for GEU/GEV-1 lubrication pumps: Start the lubrication pump to fill the main pipeline wit h lubricating oil and observe the discharged lubricating oil until it is bubble-free. Then restart the pump operation and observe normal oil discharge from all distributors (metering devices). Firmly connect the distributors (metering devices) to branch pipelines after confirming proper discharge. Repeat this cycle several times until all branch pipeline ends discharge oil without bubbles, then connect each lubrication point individually and set the oil supply cycle for automatic operation.

10、For lubrication points with varying oil requirements, select appropriate distributors (metering devices) accordingly. However, when using small-flow distributors for long branch pipelines to lubrication points, relying solely on the pump's automatic cycle to fill the longest pipeline is time-consuming. It is recommended to pre-fill the branch pipelines with lubricating oil before installation.

11、When restarting a lubrication pump after prolonged inactivity, the grease stored in both the pump and pipelines may harden. Prior to reactivation, ISO VG 32-68 hydraulic oil must be added to flush the pipelines and purge air pockets.

12、Operating with an empty oil reservoir is strictly prohibited, as it may cause pump failure or aerated oil discharge. When the reservoir's follower plate drops to the low-level position (or the low-level sensor triggers), immediately replenish lubricating oil.

13、Inspect all connection points to prevent oil leakage. If leaks are detected, immediately tighten the fittings to eliminate seepage (verify through visual inspection or tactile check of all connection points).

XI、System Fault Inspection and Diagnosis Guide

1. The pressure switch serves as a protective component for monitoring the operational status of the lubrication system.

1.1 If the pressure switch activates within the preset operating duration, it confirms proper system pressure establishment, indicating normal lubrication system operation.

1.2 If the pressure switch fails to activate within the preset operating duration, it indicates failure to establish system pressure, signifying abnormal lubrication system operation (flow interruption/pressure loss).

2. Lubrication System Abnormal Condition (Fault) Inspection

2.1 Verify the preset operating time of the lubrication pump.

2.2 Inspect all main pipeline connection points for oil seepage/leakage.

2.3 Inspect the lubrication pump by unscrewing the pressure gauge tee outlet fitting, then block the outlet with a plug (PT1/8 or M10×1.0 thread) and power the pump to test oil discharge.

(1) A pressure gauge reading of approximately 5MPa indicates normal oil supply from the lubrication pump.

(2) Zero pressure indicates the pump's check valve or pressure regulator is jammed by contaminants, requiring

disassembly and cleaning.

2.4 Distributor (metering device) malfunction: The metering mechanism fails to operate correctly, resulting in direct lubricant discharge (intermittent flow observed).

XII、Fault Phenomena and Troubleshooting

Number	Phenomenon	Cause	Troubleshooting Method
1	The pump fails to discharge oil or discharges aerated lubricant.	1. Air ingress into the lubrication system.	·Refer to Section XI.8 and XI.9 for purging air from the lubrication pump. ·Refer to Section XI.11 for removing hardened lubricant from the pump. ·Refer to Section XI.3, XI.5, XI.6, and XI.7 for lubricant replenishment procedures.
		2. Lubricant in the pump has hardened due to prolonged inactivity.	
		3. Use of non-compliant lubricating oil.	
		4. Air bubbles present in the main pipeline.	
2	During the pump's specified operating period with stable system pressure (pressure switch signal acquired), individual distributors (metering devices) fail to discharge oil or exhibit inaccurate output volumes.	1. Inaccurate operating time.	Refer to Section X.1 to readjust the lubrication system's operating time.
		2. The sealing surfaces of the pump's check valve or pressure regulator are contaminated with debris.	Refer to Section XIV.1.1 and XIV.2 for cleaning the check valve or pressure regulator.
		3. The solenoid pressure-release valve is jammed by foreign particles.	Refer to Section XIV.1.2 for cleaning procedures; replace damaged seals immediately if found.
		4. Oil seepage at pipeline connections.	Refer to Section X.2.14 and replace any poorly sealed connections.
		5. The distributor (metering device) operates sluggishly and discharges lubricant without proper metering.	Refer to Section XIV.5 to clean the metering device; immediately replace damaged umbrella seals or O-rings if found.
3	When the lubrication pump operates within the specified duration and system pressure is established, individual distributors (metering devices) may fail to discharge oil or exhibit inaccurate oil output (pressure switch signal received).	1. The preset pressure-release time (intermittent period) is inaccurate.	Refer to Section X.2 to readjust the lubrication system's intermittent period.
		1. The sealing surface of the metering evice is jammed by debris.	Refer to Section XIV.5 for cleaning the seals; replace damaged seals immediately if found.
4	The lubrication pump stops working but the system fails to release pressure or	1. The solenoid pressure-release valve is jammed by debris, preventing pressure release.	Refer to Section XIV.3 for cleaning procedures; replace damaged seals immediately if

	requires excessive time to depressurize.		found.
		2. The lubricating oil inside pipelines has hardened due to prolonged pump inactivity.	Refer to Section XI.11 for pipeline purging and air removal procedures.
		3. Pipeline collapse or blockage occurs.	Replace the pipeline.
5	The lubrication pump discharges aerated oil.	Air bubbles are present in the main pipeline.	Refer to Sections XI.6 and XI.7 for refueling procedures: Remove the outlet pipeline and operate continuously to purge air bubbles from the lubrication pump.
6	Pressure switch triggering anomaly.	1. Microswitch triggering anomaly.	Remove the microswitch and test its triggering functionality using the multimeter's continuity test mode; replace the microswitch if abnormal triggering is detected.
		2. The pressure switch plunger fails to extend or retract normally.	Disassemble the pressure switch assembly and inspect for damaged components.
6	Anomalies in the motor and solenoid valve	The power supply was cut off.	Check the power supply and replace it if necessary
		The motor is damaged or the solenoid valve is damaged	Carry out inspection and replacement
7	Difficulty in refueling through the filter	Filter clogged	Remove the brass nut, clean the filter element with kerosene, then reassemble according to the original configuration and tighten securely.

Warning:

1.During normal lubrication system operation, if a specific lubrication point requires significantly more or less oil, replace the distributor (metering device) with one that matches the actual oil demand.

2.In case of rupture, replacement must strictly follow the relevant regulations specified in the manual.

XIII、Disassembly, Cleaning and Reassembly of Lubrication Pump Components

Warning: If O-rings, umbrella seals, or other sealing components are damaged during disassembly, immediately contact our company for replacement to prevent operational failures in related parts.

1. Check Valve Cleaning

Unscrew the check valve (do not lose the ED ring on the valve seat). Remove the gasket, push rod, O-ring, and spring.

Clean all parts thoroughly with kerosene or light oil, then blow dry with compressed air before reassembly.

2. Pressure Regulator Maintenance

2.1 Cleaning :

Unscrew the regulator housing and cap. Remove the socket headless screw, then extract the spring, spring post, and piston rod sequentially. Clean all components with kerosene and reassemble in original order.

2.2 Pressure Setting :

The regulator is factory-set at 5MPa. Tighten the adjustment screw until its end face is flush with the regulator housing.

3. Solenoid Pressure-release Valve Service

3.1 Disassembly :

① Loosen the retaining nut counterclockwise and remove the coil

② Use a 19mm wrench to unscrew the magnetic core push rod (contains inner rod - do not lose)

③ Extract the valve spool and spring with tweezers

④ Insert an M8 screw into the valve housing thread, then pull to remove the housing

3.2 Cleaning & Reassembly :

Clean the housing, spool, and push rod with kerosene/light oil. Dry components with compressed air or oil-absorbent paper. Reinstall the housing into the pump base, followed by the spring and spool (spring end facing inward).

4. Pressure Switch Maintenance

4.1 Disassembly :

Remove the M3×10 screws from the microswitch and detach the mounting plate. Unscrew the bushing counterclockwise with a flathead screwdriver. The spring and umbrella seal remain on the switch plunger.

4.2 Cleaning :

Degrease all components with kerosene/light oil, then dry as above. Reassemble with original orientation.

5. Distributor (Metering Device) Service

5.1 GFD-type Quantitative Distributor :

① Remove the sleeve cap and disconnect tubing

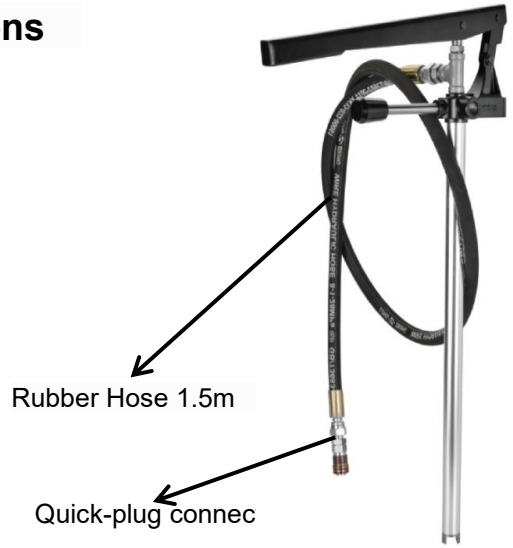
② Separate individual distributors from the manifold

③ Disassemble grease outlets (caution: spring-loaded components)

④ Clean all parts with kerosene/light oil

⑤ Reassemble in reverse order with proper torque

XIV、Straight-through Refueling Tool and Specifications



1. The straight-through grease gun adopts quick-connect couplings for rapid oil filling to lubrication pumps;

2.Technical parameters: Working pressure: 2/4MPa, maximum displacement: 20mL/stroke, applicable media: light oil (machine oil) >32; grease (lithium-based) NLGI:000-2:

3.Quick-connect coupling operation method:

3.1. Insert the grease gun into the oil drum, operate the grease gun to discharge oil from the outlet (quick-connect nut), then insertinto the straight-through quick-connect nozzle of the lubrication pump and operate the grease gun to fill the lubrication pump;

3.2. Disconnection: First push the quick-connect nut completely forward to release;

4.Please strictly comply with the operating instructions, warranty will not cover improper operation.

XV、Maintenance and upkeep

1. Manually start the lubrication pump and observe whether it operates normally;

2. Check whether there is any leakage or rupture in the main oil pipeline and the branch oil pipeline, and whether grease can be injected into all lubrication points

3. Check whether the tube bundle is securely fixed and the wiring harness is firmly connected.

4. When maintaining and servicing the lubrication system, if the disassembled parts are sealed by sealing methods such as combination gaskets or red copper gaskets, new combination gaskets or red copper gaskets must be replaced when reinstalling.

5. Remove dirt from all parts of the entire system and oil spills from lubrication points.

6. Check the remaining fuel in the fuel tank and replenish it in time.

7. Only new grease should be used. Do not use used or impure grease for lubrication. Using clean and impurity-free grease is the best way to maintain your health.

8. Do not add oil from above the oil tank. Do not add any chemical substances or water.

9. Please add the grease to the oil tank in combination with the grease filter.

10. It is not allowed to wipe or touch the fuel tank with chemical reagents such as alcohol, ketone and hydrocarbon.

11. Keep good maintenance records.

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Note: The words.desians and techincal parameters are subject to change along with the development of technologies without prior notice.

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