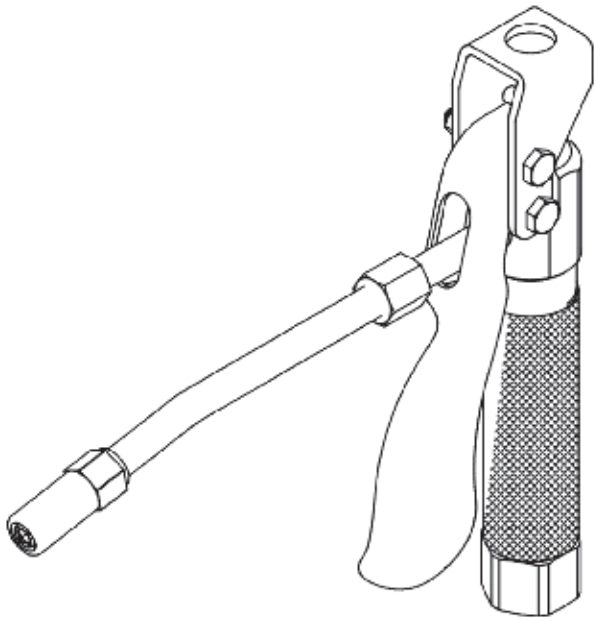
LEADERS IN FLUID TRANSFER SOLUTIONS

Grease Dispense Valve Manual



Series 182120

9000psi (60Mpa, 600bar) Maximum Working Pressure

Model 18212010 3/8" BSP Inlet
Model 18212030 3/8" NPT Inlet
Model 18212050 1/4" BSP Inlet
Model 18212070 1/4" NPT Inlet

⚠ This manual contains important warnings and information.
Read and keep for reference.

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Warnings

Warning Symbol

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

Equipment misuse hazard

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your distributor.
- Do not alter or modify this equipment.
- Do not exceed the maximum working pressure of the lowest rated system component. This equipment has a 9000psi (60Mpa, 600bar) maximum working pressure.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Handle hoses carefully. Do not pull on hoses to move equipment.
- Route hose away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose hoses to temperatures above 66°C (150°F) or below -40°C (-40°F).
- Comply with all application local, state, and national fire, electrical, and safety regulations.
- Do not use a low pressure flexible extension on a high pressure dispensing valve.
- Do not attempt to force lubricant into a fitting.

Injection hazard

Spray from the valve, leaks or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. Get immediate medical attention.
- Do not point the valve at anyone or at any part of the body.
- Do not put your hand or fingers over the grease fitting coupler.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Tighten all fluid connections before operating the equipment.
- Check the hose, tubes, and couplings daily. Replace worn or damaged parts immediately. Do not repair high pressure couplings; you must replace the entire hose.

Toxic fluid hazard

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of the hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

Pressure relief procedure

Injection hazard

Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the pressure relief procedure whenever you:

- are instructed to relieve the pressure,
- stop dispensing,
- Check or service any of the system equipment,
- install or clean the nozzle.

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin, or injury from moving parts, always follow this procedure whenever you shut off the pump, and before inspecting, removing, cleaning or repairing any part the pump or system.

1. Close the supply pump's bleed-type master air valve (required in pneumatic systems).
2. Open the dispensing valve until pressure is fully relieved.
3. Open the fluid drain valve at the pump fluid outlet. Leave the drain valve open until you are ready to use the system again.

Notes:

If you suspect the dispensing valve, extension or grease fitting coupler is clogged, or that pressure has not been fully relieved after following all the previous steps, using a rag very slowly loosen the coupler or hose end coupling and allow pressure to be relieved gradually, then loosen the part completely. Now clear the clog.

Operation

This dispense valve provides positive control of high pressure lubricants. When supplied with air, the pump will start when the valve is triggered and will stall against pressure when the trigger is released.

Adjustment

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the pressure relief procedure on page 3.

1. Relieve the pressure.
2. To adjust the clearance, loosen the top nut (Fig.1, item 7) and turn the bottom nut (7) in or out as needed. To increase grease flow turn bottom nut in to reduce grease flow turn bottom nut out. Hold the bottom nut in place and securely tighten the top nut.

CAUTION

Do not turn bottom nut (7) in too much, or else the valve cannot be shut off.
If the valve cannot be shut off, please turn the bottom nut (7) out a bit.

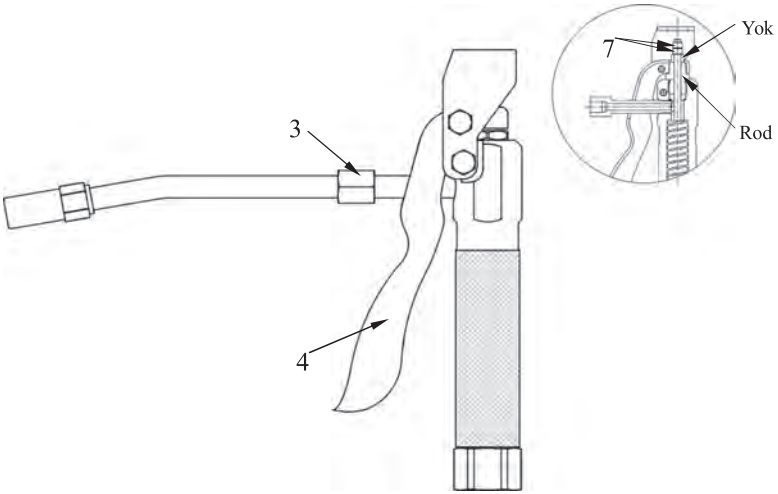


Fig.1

Service

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the pressure relief procedure on page 3.

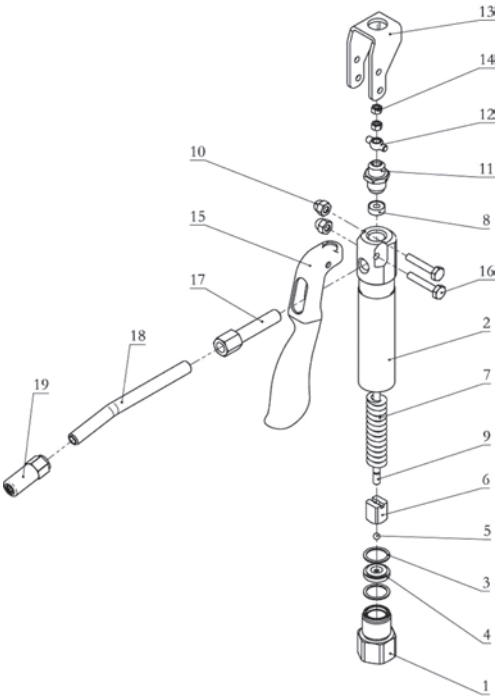
1. Relieve the pressure.
2. Check all parts thoroughly when disassembling, and carefully replace any that are worn or damaged.
3. Remove bottom seat adapter (19) from grease gun body (12). See parts listing on page 6.
4. Remove nut (5) and bolts (11) from trigger guard (6). Remove trigger guard (6).
5. Remove outlet adapter (3).
6. Remove hex nut (7).
7. Remove Yoke (8).
8. Remove rod guide (9) from grease gun body (12).
9. Push plunger rod (14) through seal (10). Be careful; seat (14), ball (16) and copper gasket (17) will fall out bottom.
10. Replace all parts included in service kit.
11. Reassemble valve.

To reduce the risk of serious injury after servicing valve, always make sure the valve is in the closed position with trigger released.

12. With trigger in free position tighten bottom nut (7) until yoke bottoms out on rod guide, see Fig.1, (this is the maximum flow setting). Back off nut approximately 1/8 turn. Hold bottom nut in place and securely tighten on page 4.
13. If additional adjustment is desired, follow adjustment procedure on page 4.
14. For specific operation problems, see trouble-shooting guide on page 5.

Troubleshooting Guide

Problem	Cause	Solution
Grease flows with trigger released	Damaged ball Damaged seat Out of adjustment Missing ball	Install service kit Install service Kit Readjust (see Fig.1) Install service kit
No grease flow when trigger pulled	Out of adjustment Plugged seat Disassembled plunger and rod	Readjust (see Fig.1) Clean seat Reassemble
Grease leaking out of bottom of gun	Loose bottom adapter Missing copper gaskets Worn copper gaskets	Tighten adapter (see Fig.1) Install service kit Install service kit
Grease leaking out the top of gun	Worn seal in top of the gun	Install service kit
Short seal life	Worn plunger rod	Install service kit
Trigger will not move	Bent guard Bent pivot pin Damaged handle	Replace guard Install service kit Replace trigger



Part NO.	Description	Q'ty
1	Seat adapter	1
2	Grease gun body	1
3	Copper gasket	2
4	Valve seat	1
5	Steel ball	1
6	Plunger	1
7	Compression spring	1
8	Seal	1
9	Plunger rod	1
10	Nut	2
11	Guide, rod	1
12	Yoke	1
13	Trigger guard	1
14	Hex nut	2
15	Trigger	1
16	Screw	2
17	Outlet adapter	1
18	Rigid tube	1
19	Coupler	1

Technical Data

Category	Data
Maximum working pressure	9000psi/600bar/60Mpa
Inlet size	1/4”or 3/8”F
Wetted parts	Chrome vanadium, polyurethane, brass, carbon, steel, alloy steel

Limited Warranty

1. The manufacturer warrantees this product against defects in material and craftsmanship, for a period of two years from date of purchase, but not including seal parts.
2. Manufacturer's liability is limited to replacement or repair of defective material within the warranty period, when returned freight prepaid to the distributor or their designated service depot.
3. The warranty does not cover damage caused by accident, misuse or faulty installation.
4. The product must be installed and maintained in compliance with the instructions.