

Instructions



# G3 Pressure Relief with Return to Reservoir Installation Kit

3A0525H

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***Used to relieve unintended pressure rises in the system and return relieved contents back to the reservoir. For professional use only.***

*Maximum Pressure:*

- 571028, 571071: 3500 psi (241 bar, 24 MPa)
- 2008155: 5000 psi (345 bar, 34.5 MPa)

**Part Nos.: 571028, 571071, 2008155**

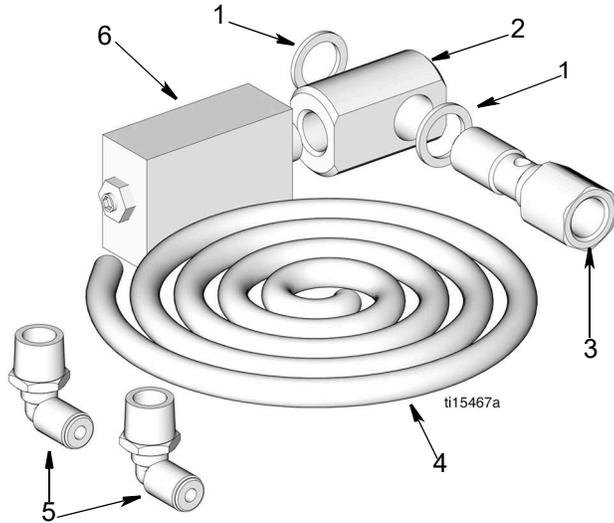


## **Important Safety Instructions**

Read all warnings and instructions in this manual and the G3 Pump instruction manual included with your unit. Save these instructions.

# Parts Lists

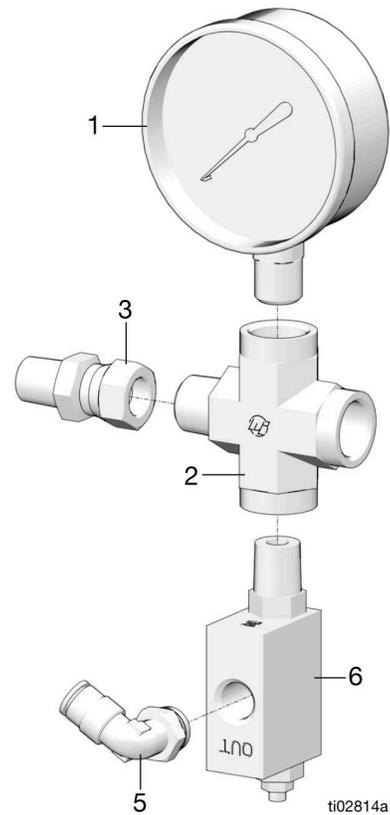
## Kits 571028, 571071



Ref.	Description	Qty	
		571028	571071
1	WASHER, sealing	2	2
2	FITTING, banjo, 1/4 npt	1	1
3	BOLT, banjo, 1/4 npt	1	0
	BOLT, banjo, 1/4 bspp	0	1
4	TUBE, nylon, round	1	1
5	FITTING, elbow, male, swivel	2	2
6*	VALVE, pressure relief	1	1

\* See **Pressure Relief Valves**, page 3

## Kit 2008155



Ref.	Description	Qty
1	GAUGE, pressure, fluid filled	1
2	FITTING, cross, FFFM, 1/4	1
3	FITTING, union, swivel	1
4	TUBE, nylon, round	3
5	FITTING, elbow, male, swivel	2
6*	VALVE, pressure relief	1

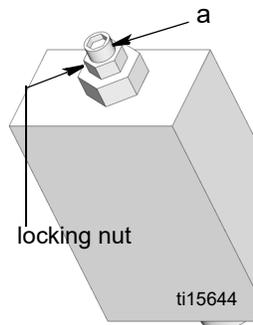
\* See **Pressure Relief Valves**, page 3

# Instructions

## Pressure Relief Valves

The Pressure Relief Valve included in this kit can **only be used on the G3 pumps**. It is not intended for use with any other products.

The pressure relief valve uses a pressure adjustment screw (a) to set the pressure release point. **It is not intended as a way to relieve pressure during normal operation** but as a protective measure in the event there is an unintended pressure increase in the system.



### NOTE:

- **Do not use this pressure relief valve as a means of relieving pressure in day-to-day, normal cycle operation. Use the pressure relief procedure described in the next section of this manual to relieve pressure during normal cycle operation.**
- **Factory set to 3000 psi (207 bar, 20.7 MPa).**

The pressure adjustment screw (a) will require periodic adjustments. Whenever the valve is set or adjusted (after the set point is found) it is important to ensure that the valve is not bottomed out and there is at least 1/2 turn of adjustment remaining. This is determined by turning the screw (a) 1/2 turn and then back turning it out again.

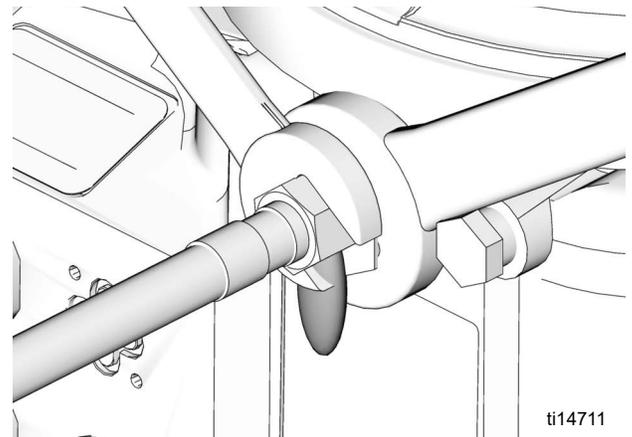
**NOTE:** Turning adjustment screw (a) clockwise increases pressure.

## Pressure Relief Procedure

<b>SKIN INJECTION HAZARD</b>					
High-pressure fluid from dispense device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. <b>Get immediate surgical treatment.</b>					
Follow <b>Pressure Relief Procedure</b> in this manual, when you stop dispensing and before cleaning, checking, or servicing equipment.					

**Relieve pressure** in system by using two wrenches working in opposite directions on pump element and pump element fitting to **only** loosen fitting.

**NOTE:** When loosening pump element fitting, do NOT loosen **pump element**. Loosening pump element will change the output volume.

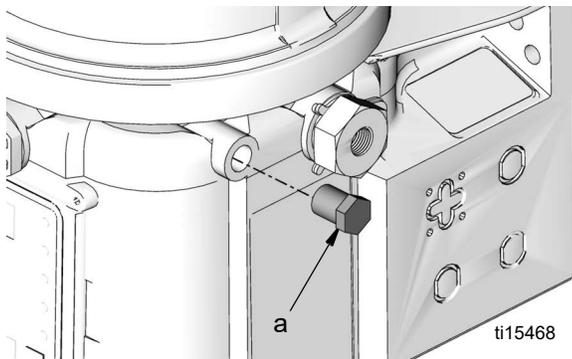


**FIG. 1**

## Installation (571028, 571071)

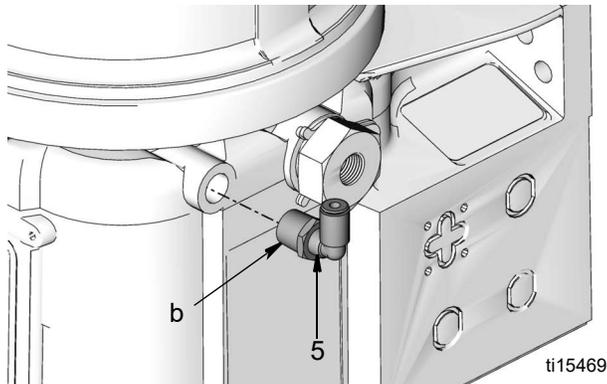
Reference numbers used in these instructions correspond to parts included in Kit and are provided on page 2. Parts identified with an alpha character are user provided or already installed components.

1. Disconnect power source.
2. If unit has already been in service, relieve pressure, page 3.
3. Use a wrench to loosen plug (a) from return location. Remove plug from port (FIG. 2).



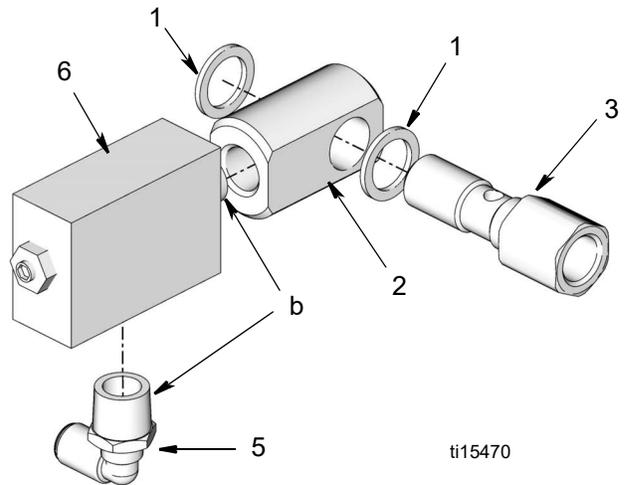
**FIG. 2**

4. Apply thread sealant (user supplied) to threads (b) of one of the 90° tube elbow fittings (5).
5. Install 90° elbow fitting (5) in open port.



**FIG. 3**

6. Wrench tighten then torque to 50 in. lbs (5.6 N•m).
7. Apply thread sealant (user supplied) to threads (b) of pressure relief valve (6) (FIG. 4).

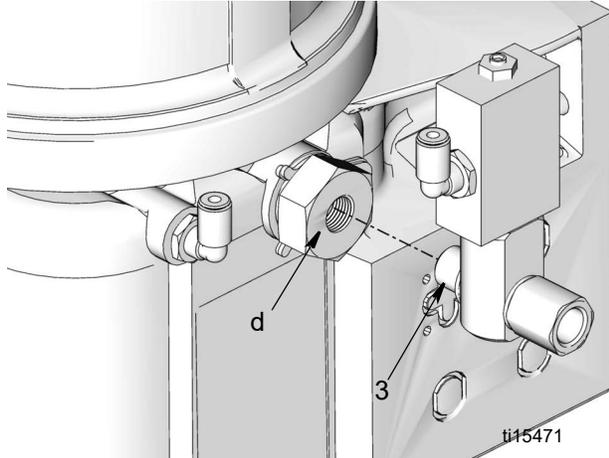


**FIG. 4**

8. Install pressure relief valve (6) into banjo fitting (2). Wrench tighten (FIG. 4).
9. Install one washer (1) over end banjo bolt (3). Then install banjo fitting (2) onto banjo bolt (3). Install second washer (1) over end of banjo bolt. (FIG. 4).
10. Apply thread sealant (user supplied) to threads (b) of second 90° tube elbow fitting (5). Install fitting in pressure relief valve. Wrench tighten.

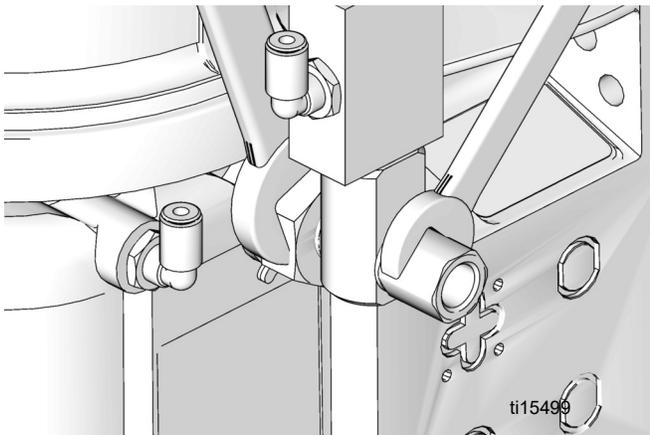
11. Install banjo bolt (3) into pump element (d) (FIG. 5).

**NOTE:** Relieve valve orientation may vary depending on your specific installation.



**FIG. 5**

12. Use two wrenches to tighten the banjo fitting (3). Place one wrench on the pump element (d) and the second wrench over the end of the banjo bolt (3). **ONLY** tighten the banjo bolt (3) while holding the pump element (d) securely in place. Torque banjo bolt (3) to 35 ft. lbs (45.7 N•m). Take care to not over-tighten (FIG. 6).

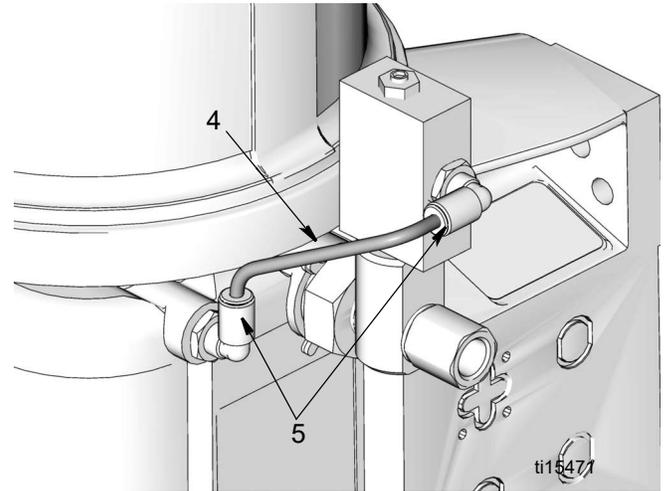


**FIG. 6**

13. Cut supply tube (4) to desired length.

**NOTE:** Tube length must be long enough to prevent tube from kinking.

14. Install supply tube between the two elbow fittings (5) (FIG. 7). Push in to seat.



**FIG. 7**

## Installation (2008155)

Reference numbers used in these instructions correspond to parts included in Kit and are provided on page 2. Parts identified with an alpha character are user provided or already installed components.

1. Disconnect power source.
2. If unit has already been in service, relieve pressure, page 3.
3. Use a wrench to loosen plug (a) from return location. Remove plug from port (FIG. 8).

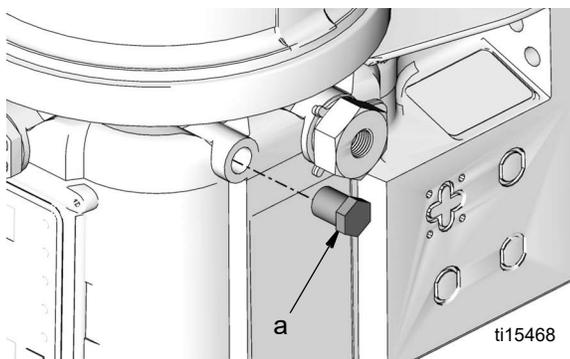


FIG. 8

4. Apply thread sealant (user supplied) to threads (b) of one of the 90° tube elbow fittings (5).
5. Install 90° elbow fitting (5) in open port.

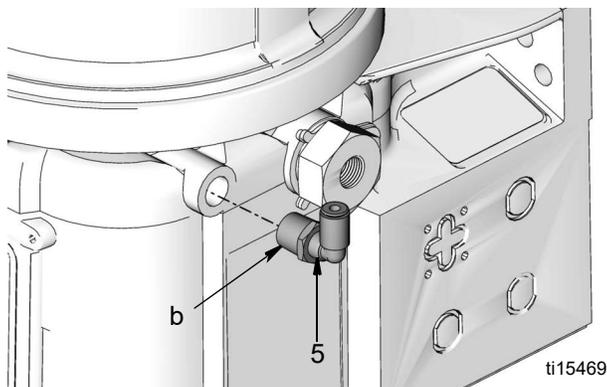


FIG. 9

6. Wrench tighten then torque to 50 in. lbs (5.6 N•m).
7. Apply thread sealant (user supplied) to threads (b) of pressure relief valve (6).

8. Install pressure relief valve (6) into cross fitting (2). Wrench tighten (FIG. 10).

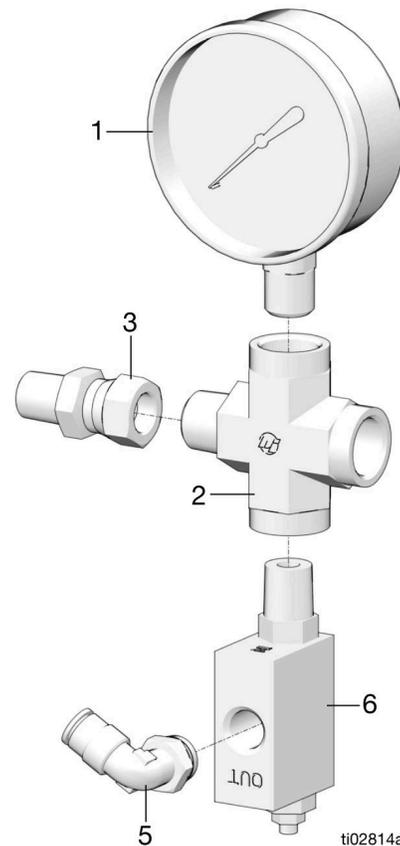


FIG. 10

9. Apply thread sealant (user supplied) to threads (b) of second 90° tube elbow fitting (5). Install fitting in pressure relief valve. Wrench tighten.
10. Apply thread sealant (user supplied) to threads of pressure gauge (1).
11. Install pressure gauge (1) into cross fitting (2).
12. Apply thread sealant (user supplied) to male threads of union swivel fitting (3).
13. Install union swivel fitting (3) into pump element (d). Finger tighten.
14. Use two wrenches to tighten the union swivel fitting (3). Place one wrench on the pump element (d) and the second wrench over the end of the union swivel fitting (3). ONLY tighten the fitting (3) while holding the pump element (d) securely in place.
15. Cut supply tube (4) to desired length.

**NOTE:** Tube length must be long enough to prevent the tube from kinking.

16. Install supply tube between the two elbow fittings  
(5). Push in to seat.

*All written and visual data contained in this document reflects the latest product information available at the time of publication.  
Graco reserves the right to make changes at any time without notice.*

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