

# G3 Vent Valve Kit

3A0526E  
ENG

Instructions for installing vent valve. For professional use only.

## Part No.:

12 VDC, NPT- 571061; 24 VDC, NPT - 571029

12 VDC, BSPP - 24F537; 24 VDC, BSPP - 24F536

Maximum Working Pressure: 3500 psi (241 bar, 24 MPa)

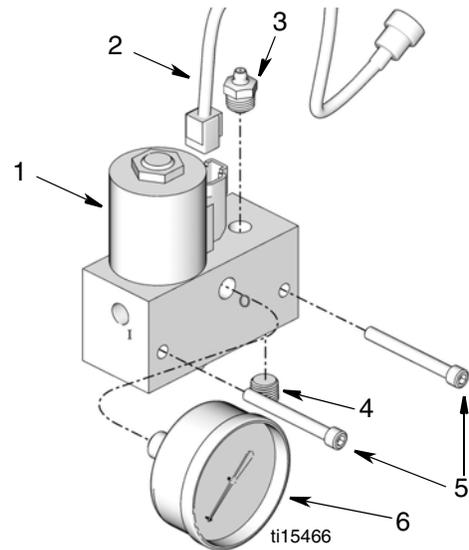


### Important Safety Instructions

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

### NOTICE

All user supplied tubing must be rated for the same pressure or equipment could be damaged.



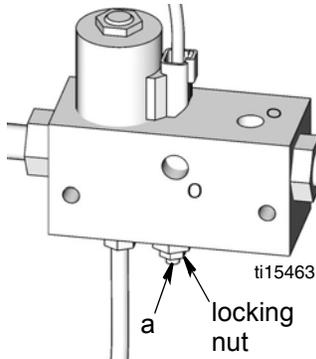
## Kit Parts:

Ref.	Description	Qty			
		571029	571061	24F536	24F537
1	VALVE, vent, 12 VDC, NPT	0	1	0	0
	VALVE, vent, 24 VDC, NPT	1	0	0	0
	VALVE, vent, 12 VDC, BSPP	0	0	0	1
	VALVE, vent, 24 VDC, BSPP	0	0	1	0
2	CABLE, 6 ft, vent valve, 2 pin	1	1	1	1
3	FITTING, grease	1	1	1	1
4	PLUG, dryseal, 1/4 NPTF	3	3	3	3
5	SCREW, cap, socket	2	2	2	2
6	GAUGE, pressure, fluid	1	1	1	1
7	ADAPTER, NPT to BSPP (not shown)	0	0	1	1

# Instructions

## Pressure Relief Valves

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/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



**SKIN INJECTION HAZARD**

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. **Get immediate surgical treatment.**

Follow **Pressure Relief Procedure** 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.

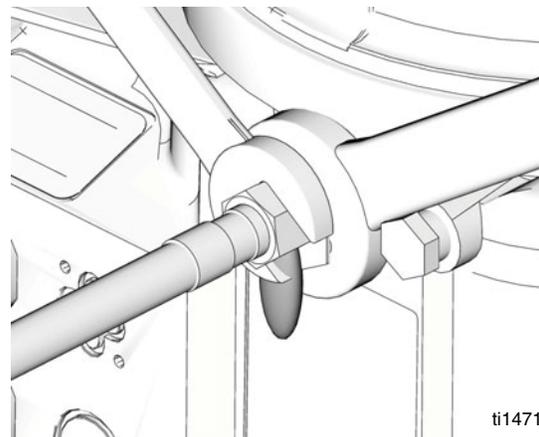


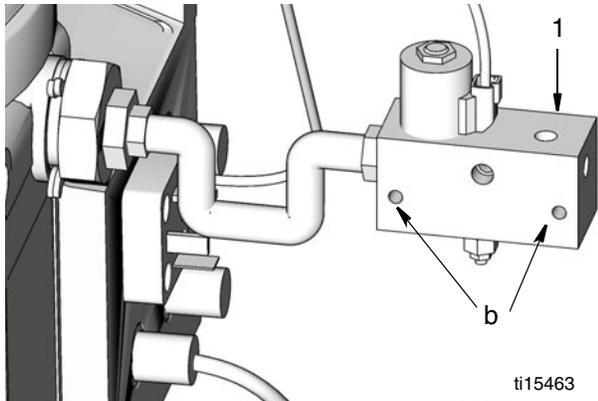
FIG. 1

## Installation

Reference numbers used in these instructions correspond to parts included in Kit and are provided on page 1. 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.

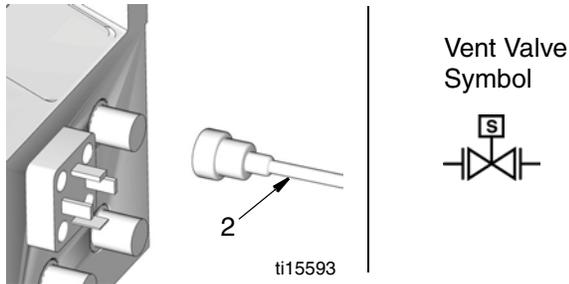
- Mount vent valve block (1) to a fixed surface near the G3 pump using mounting holes (b) and two socket screws (5).



**FIG. 2: Mounting Dimension a = 3.25 inches (8.255 cm). Thread 1/4 - 20 UNC-2A**

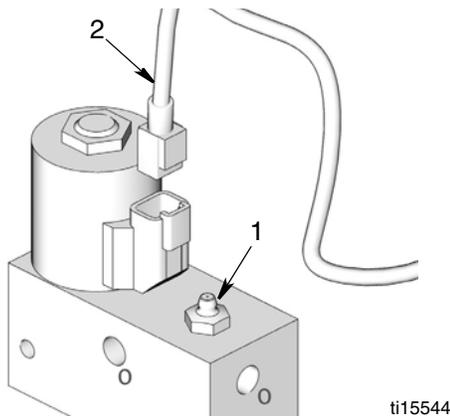
- Connect end of cable (2) to the G3 (FIG. 3).

**NOTE:** Verify correct port on G3 label is selected. Locate symbol shown in FIG. 3 on G3 label to select correct port.



**FIG. 3**

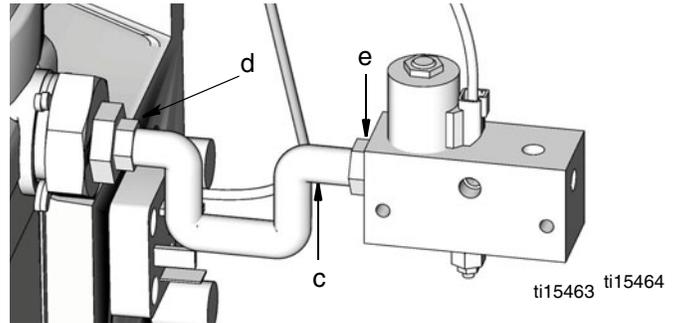
- Connect cable connector (2) to solenoid valve (1) (FIG. 4).



**FIG. 4**

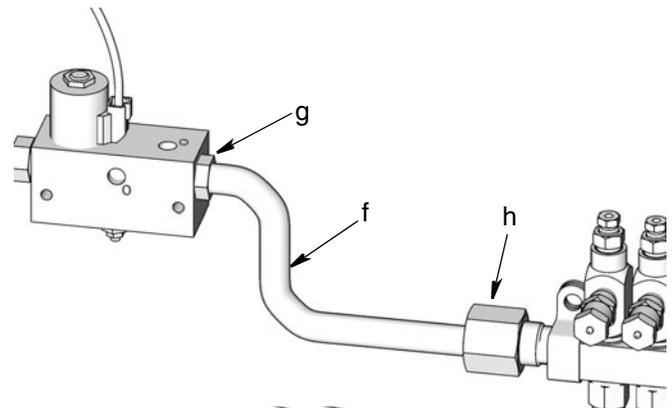
**NOTE:** If using one of the BSPP Vent Valve Kits, install adapter (7) into pump element prior to installing pump element fitting (c) then continue installation, Step 6.

- Connect inlet tube (c) to pump element fitting (d) and inlet fitting (e) to manifold port (stamped with an "I") (FIG. 5). Wrench tighten only.



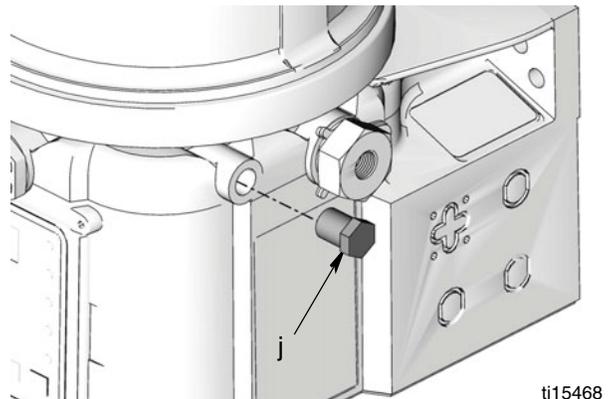
**FIG. 5**

- Connect main tube (f) to any manifold outlet (g) (stamped with an "O") and injector inlet (h) (FIG. 6).



**FIG. 6**

- Use a wrench to loosen plug (j) from return location. Remove plug from port (FIG. 7).



**FIG. 7**

9. Apply thread sealant (user supplied) to threads (k) of a tube fitting (m).

NOTE: Although the example shown in FIG. 8 shows a 90° elbow fitting, this is only shown for reference. The user may use what ever fitting best suits their installation.

10. Install tube fitting (m) in open port.

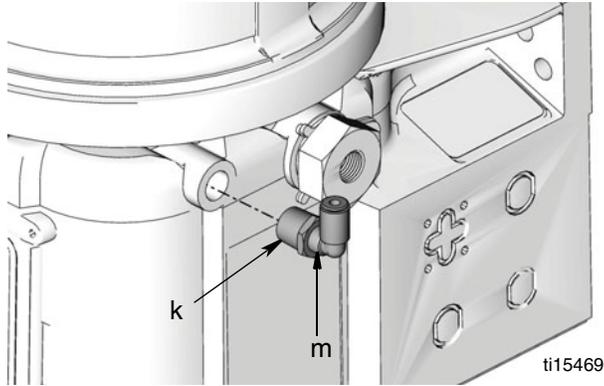


FIG. 8

ti15469

11. Wrench tighten fitting (m) then torque to 50 in. lbs (5.6 N•m).
12. Install vent tube (n) between vent port (p) and fitting (m) (FIG. 9).

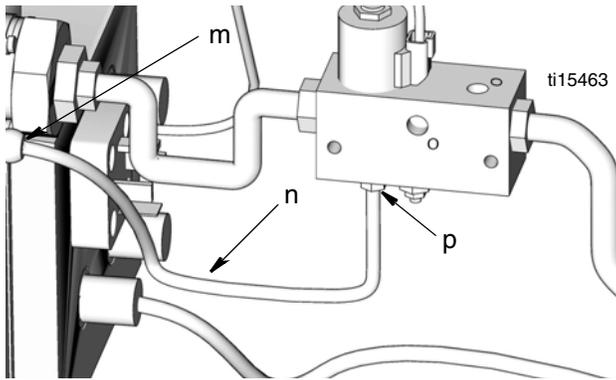


FIG. 9

ti15463

13. The kit includes the following additional parts:

- Zerk Grease Fitting (optional) (4)

- Plugs (must be installed in any open outlet port) (5)
- Pressure Gauge (optional) (7)

Install any of these parts in the remaining outlet ports on the manifold block.

NOTE: Any port not used by a pressure gauge (7) or zerk grease fitting (4) MUST have a plug (5) installed in the opening.

## Retrofitting Existing Installations

NOTE: These instructions assume grease is already loaded in injector valves.



## Installation

1. Disconnect power source.
2. Relieve pressure, page 2.
3. Remove existing plumbing installed between pump element (d) (FIG. 5) and injector inlet (h) (FIG. 6).
4. Continue installation following Installation Instructions, Steps 3 - 13, on pages 3 - 4.

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.

Original instructions. This manual contains English. MM 3A0526

**Graco Headquarters:** Minneapolis  
**International Offices:** Belgium, China, Japan, Korea  
**GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441**

Copyright 2010, Graco Inc. is registered to ISO 9001

www.graco.com  
 7/2010, revised 4/2011