

Roller Frame

3A1790B

EN

For use with PFR system. For professional use only.

Model 24J540, Series A

- 9 in. (22.9 cm) length
- 7/8 in. inlet with 1/2 in. roller cover

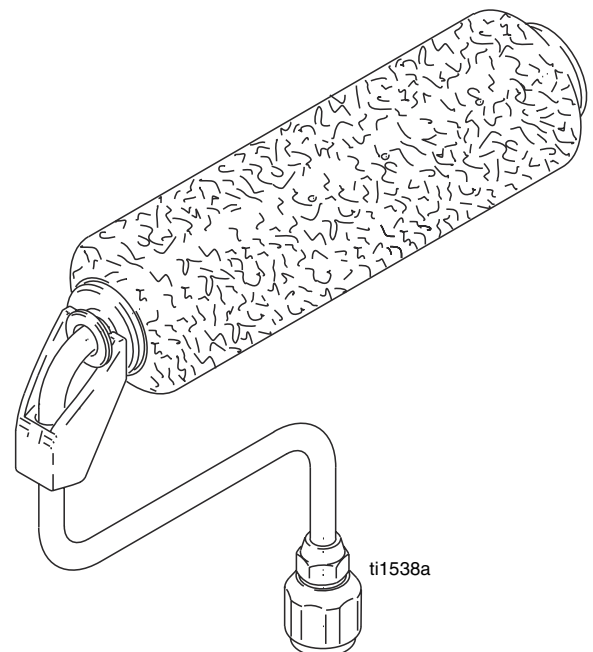
3600 psi (25 MPa, 248 bar) Maximum Working Pressure

NOTE: The best operating pressure is the lowest pressure that provides an even material supply to the roller and typically does not exceed 300 psi (2.1 MPa, 21 bar).



Important Safety Instructions

Read all warnings and instructions in this manual and in PFR system manual.
Save all instructions.



Roller frame cover shown sold separately

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Related Manuals


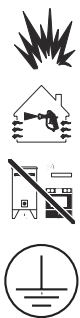


Component manuals in English. Manuals are available at www.graco.com.

Manual No.	Description
SM-1414	PFR Operation

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

See **Important Methyl Ethyl Ketone Peroxide (MEKP) Safety Information** section on page 5.

 <h2 style="margin: 0;">WARNING</h2>	
	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment only in well ventilated area. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present. • Ground all equipment in the work area. See Grounding instructions. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
	<p>PERSONAL PROTECTIVE EQUIPMENT</p> <p>You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear, and hearing protection. • Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
	<p>TOXIC FLUID OR FUMES HAZARD</p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> • Read MSDSs to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. • Always wear chemically impermeable gloves when spraying, dispensing, or cleaning equipment.



WARNING



SKIN INJECTION HAZARD

High-pressure fluid from dispensing 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.**

- Do not point dispensing device at anyone or at any part of the body.
- Do not put your hand over the fluid outlet.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** when you stop dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



Important Methyl Ethyl Ketone Peroxide (MEKP) Safety Information

MEKP is among the more hazardous materials found in commercial channels. Proper handling of the “unstable (reactive)” chemicals presents a serious challenge to the plastics industry. The highly reactive property which makes MEKP valuable to the plastics industry in producing the curing reaction of polyester resins and gel-coats also produces the hazards which require great care and caution in its storage, transportation, handling, processing and disposal.

Workers must be thoroughly informed of the hazards that may result from improper handling of MEKP, especially in regard to contamination and heat. They must be thoroughly instructed regarding the proper storage, use and disposal of MEKP and other hazardous materials used in the laminating operation.



MEKP is flammable and potentially explosive, as well as potentially damaging to the eyes and skin.

Read material manufacturer’s warnings and material MSDS to know specific hazards and precautions related to MEKP.

Contaminated MEKP can become explosive. Prevent contamination of MEKP with other materials, including but not limited to polyester overspray, polymerization accelerators and promoters, and non-stainless metals. Even small amounts of contaminants can make MEKP explosive. This reaction may start slowly, and gradually build-up heat, which can accelerate until fire or an explosion result. This process can take from seconds to days.



Heat applied to MEKP, or heat build-up from contamination reactions can cause it to reach what is called its Self-Accelerating Decomposition Temperature (SADT), which can cause fire or explosion. Spills should be promptly removed, so no residues remain. Spillage can heat up to the point of self-ignition. Dispose in accordance with manufacture’s recommendation.

Store MEKP in a cool, dry and well-ventilated area in the original containers away from direct sunlight and away from other chemicals. It is strongly recommended that the storage temperature remain below 86° F (30° C). Heat will increase the potential for explosive decomposition. Refer to NFPA 432. Keep MEKP away from heat, sparks and open flames.

Current catalysts are premixed and do not require any diluents. Graco strongly recommends that diluents not be used. Diluents add to the possibility of contaminants entering the catalyst system. Never dilute MEKP with acetone or any solvent since this can produce an extremely shock-sensitive compound which can explode.

Use only original equipment or equivalent parts from Graco in the catalyst system (i.e.: hoses, fittings, etc.) because a hazardous chemical reaction may result between substituted parts and MEKP.

To prevent contact with MEKP, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons and goggles are required for everyone in the work area.

Polyester Resins and Gel-Coats



Spraying materials containing polyester resin and gel-coats creates potentially harmful mist, vapors and atomized particulates. Prevent inhalation by providing sufficient ventilation and the use of respirators in the work area.

Read the material manufacturer's warnings and material MSDSs to know specific hazards and precautions related to polyester resins and gel-coats.

To prevent contact with polyester resins and gel-coats, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons and goggles are required for everyone in the work area.

Spraying and Lamination Operations






Remove all accumulations of overspray, FRP sandings, etc. from the building as they occur. If this waste is allowed to build up, spillage of catalyst is more likely to start a fire.




If cleaning solvents are required, read material manufacturer's warnings and material MSDS to know specific hazards and precautions. (Graco recommends that clean-up solvents be nonflammable.)

NOTE: Graco recommends that you consult OSHA Sections 1910.94, 1910.106, 1910.107 and NFPA No. 33, Chapter 16,17, and NFPA No. 91 for further guidance.

Pressure Relief Procedure

						
To help prevent skin injection injuries, follow this procedure whenever you stop using the roller.						

1. Engage dispense valve trigger safety.
2. Perform **Pressure Relief Procedure** procedure in system manual.
3. Perform **Shutdown** procedure in system manual.
4. Turn catalyst and resin fluid valves ahead of roller frame in the system to CLOSED position to prevent fluid flow.
5. Disengage dispense valve trigger safety and trigger dispense valve to relieve any pressure in hose.
6. Engage dispense valve trigger safety and keep catalyst and resin valves in CLOSED position until the roller is used again.

						
If you suspect that the frame or hose is completely clogged or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen the tip retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. Then clear the frame or hose obstruction.						

Installation

1. Perform **Pressure Relief Procedure** in this manual.
2. Install roller frame onto extension pole.
3. If not already completed, install extension pole onto dispense valve.
4. Perform the priming procedure in system manual.

Flushing

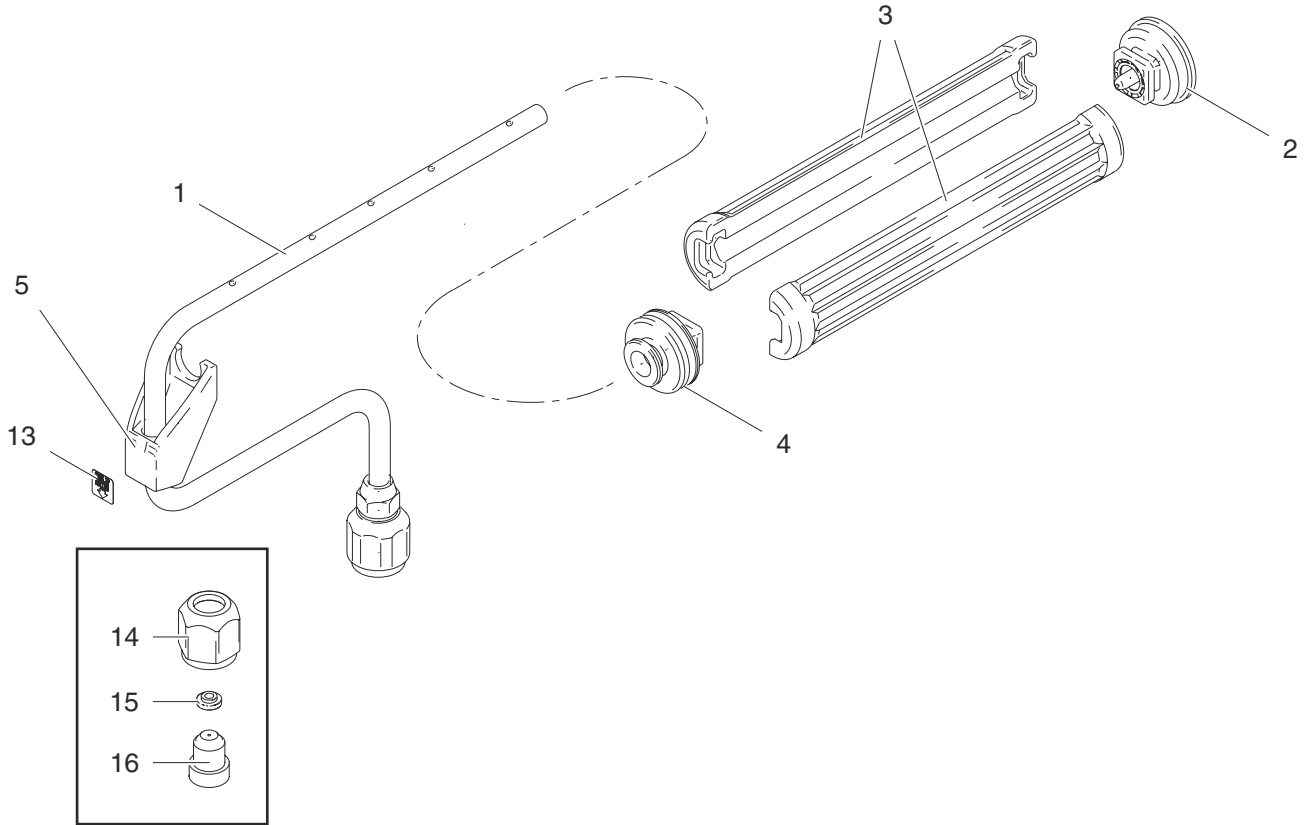
The system and dispense valve you are using may have additional flushing steps, such as cleaning filters and screens. See the system manual and, if available, the dispense valve manual for flushing instructions.

NOTE: Leave the roller frame attached to the dispense valve for this procedure.

1. Perform **Pressure Relief Procedure** in this manual.
2. Remove roller cover and diffuser (3) from roller frame (1). See **Parts** on page 8.
 - a. Use your thumb to press down on clip (5) to release end caps (2 and 4), diffuser (3), and roller cover into a grounded waste container.
 - b. Remove roller cover from diffuser (3).
 - c. Pull end caps (2 and 4) off diffuser (3).
3. Clean roller cover, caps (2 and 4) and diffuser (3) with a solvent compatible with parts and with materials being dispensed. See materials of construction listed in **Technical Data** on page 9.
4. Place roller frame (1) in pail. Be sure the holes in roller frame (1) are aimed so that dispensed solvent will go into the grounded waste container.
5. Turn solvent valve to ON.
6. Adjust the proportioning system to the lowest pressure possible.
7. Trigger dispense valve until flushing fluid begins to dilute the catalyst and resin.
8. Place roller frame (1) in another grounded waste bucket and continue flushing until fluid coming out of the roller frame (1) is clear.
9. Turn solvent valve to OFF.

Parts

Roller Frame



Ref.	Part	Description	Qty.
1	15B052	FRAME, roller	1
2	24J539	CAP, end	1
3	15B065	DIFFUSER, roller	2
4	24J538	CAP, end (includes seal, retainer, and o-ring)	1
5	197106	CLIP, roller	1
13	198804	LABEL, instruction	1
14	197117	NUT, retaining	1
15	115524	GASKET	1
16	197118	FITTING, swivel	1

Roller Covers

NOTE: Roller covers are not included with roller frame assembly 24J540.

Part	Description
107590	9 in. x 1/2 in.
107591	9 in. x 3/4 in.

Technical Data

Maximum Working Pressure	3600 psi (25 MPa, 248 bar)
Wetted Parts	Chemically resistant o-rings and seals, nylon, plated steel, POM, polyethylene, stainless steel
Materials of Construction	<i>Roller frame:</i> Chemically resistant o-rings and seals, 304 stainless steel, polypropylene, nylon, carbon steel, polyethylene, brushed aluminum, polyester <i>Roller cover:</i> Polyester, latex

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-3505

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Graco reserves the right to make changes at any time without notice.*

Original instructions. This manual contains English. MM 3A1790

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