

Pole Spray Applicator

3A3244E

For applying water-based fireproofing cementitious materials using ToughTek® pumps and systems. For professional use only.

Model 24Y619, Series C

Pole Spray Applicator with 25 mm Female Mortar Coupling

Model 25D851, Series A

Pole Spray Applicator with 1 in. Female Camlock

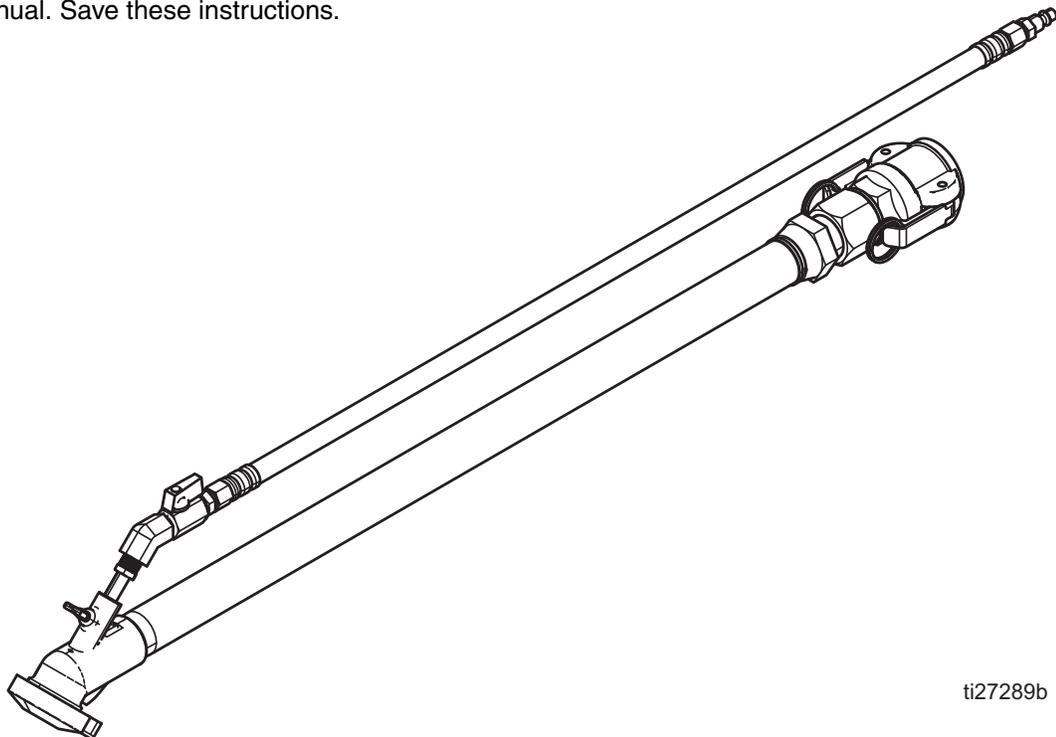
600 psi (4.1 MPa, 41 bar) Maximum Fluid Working Pressure

100 psi (0.7 MPa, 7 bar) Maximum Air Pressure



IMPORTANT SAFETY INSTRUCTIONS

Read all warnings and instructions in this manual. Save these instructions.



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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 or on warning labels, 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.

 <h1 style="margin: 0;">WARNING</h1>	
   	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. 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 sparking). • Ground all equipment in the work area. See Grounding instructions. • Never spray or flush solvent at high pressure. • 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. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive. • Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
    	<p>SKIN INJECTION HAZARD</p> <p>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.</p> <ul style="list-style-type: none"> • 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.



WARNING



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 Safety Data Sheet (SDS) 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. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- 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.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read Safety Data Sheet (SDS) 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.



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Do not use chlorine bleach.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.

Spraying

The spray pattern can be adjusted by changes to:

- Tip size
- Fluid and/or air flow
- Air needle (4) position

The standard applicator adjustment is to adjust the air needle (4) slightly behind the fluid tip. The general rule for setting the air needle position is that the air needle should be the same distance back from the tip as the size of the orifice. For example, if you have a 1/2 in. tip installed, the air needle should be approximately 1/2 in. behind the tip. Fully open the air ball valve (22) for the minimum air flow necessary for a good pattern.

NOTE: Installing needle (4) too far forward can force air back into fluid hose, stopping material flow.

Air bleeds from the applicator nozzle whenever the applicator air ball valve (22) is open. Close the valve to stop the air if desired. Otherwise, the air valve can stay open during priming.

Adjusting the spray pattern requires testing to balance the fluid flow and the air to the applicator, and requires the correct tip size.

Spray Techniques

1. Test the spray pattern on cardboard. Hold the applicator 18-30 in. (455-760 mm) from the surface. Use this spraying distance for most applications.
2. Adjust fluid flow until material flow is adequate.
3. Adjust the applicator air ball valve (22) to achieve a uniform round spray pattern.
4. Consider the size of aggregate in the material and the coarseness of the spray pattern. Larger tips allow heavier patterns.
5. Overlap each stroke 50%. A circular overlapping pattern may give the best results.

When spraying small confined areas use the air ball valve (22) and air needle (4) to make fine adjustments without adjusting the pump.

Material Flow Adjustments

For a lighter spray pattern, adjust the air needle (4) closer to the fluid nozzle and/or reduce the fluid flow.

For a heavier spray pattern, adjust the air needle (4) farther back from the fluid tip and/or increase the fluid flow.

NOTE: Withdrawing needle (4) too far can force air back into fluid hose, stopping material flow.

NOTE: Installing the needle too far forward can restrict or completely block material flow. This can result in the retainer (8) blowing off.

Air Flow Valve Adjustment

To decrease air flow, turn air ball valve (22) clockwise.

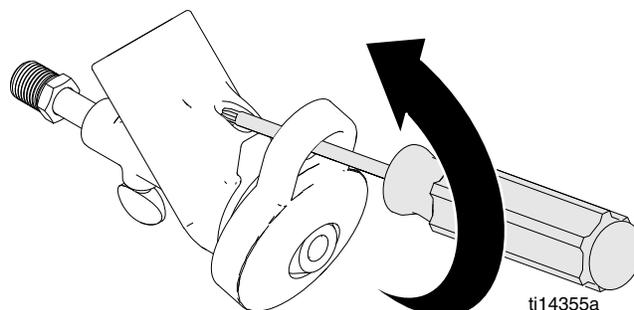
To increase air flow, turn air ball valve (22) counter-clockwise.

Check material and thin as needed to maintain the proper consistency. The material may thicken as it sits and could slow down application or affect the spray pattern.

Flush and dry applicator thoroughly at the end of each use.

Installing Nozzle Retaining Cap

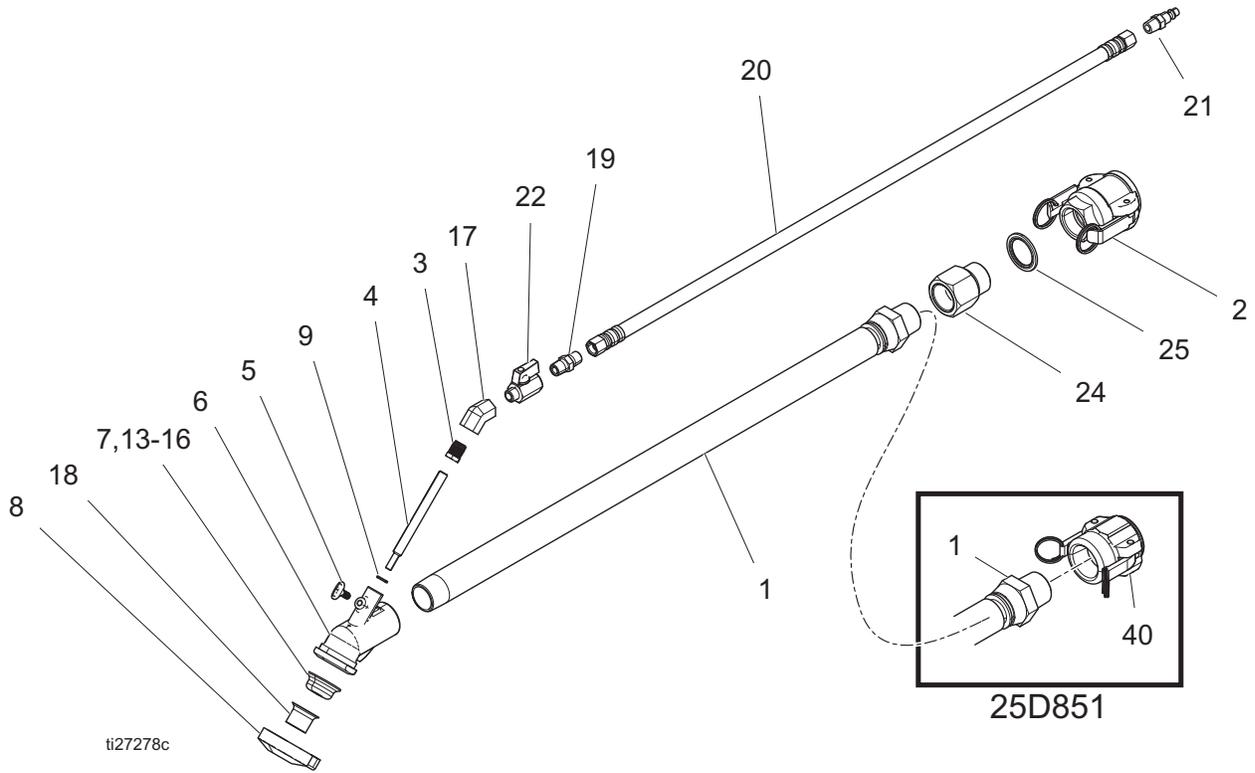
1. Place rubber tip retainer (8) over top lip of applicator housing.
2. Insert screwdriver through hole in tab of rubber tip retainer.
3. Push screwdriver head against notch on applicator tip and pry rubber tip retainer over the tip (7), spray shield (8) (if being used), and lip until it snaps into place.



4. Turn the rubber retainer back and forth to be sure it is fully seated.

NOTE: The rubber gasket in the cam and groove inlet fitting and the rubber tip retainer should be hand-cleaned and dried after each use.

Parts



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	191633	TUBE, fluid, coupled	1	17	17H631	VALVE, attribute	1
2*	17N893	COUPLER, 25 mm f x 1.0 bspp(f)	1	18	128466	SHIELD, mini, medium	1
3	M70895	BUSHING, reducer	1	19	156971	FITTING, nipple, short	1
4	190947	NEEDLE, air	1	20	113601	HOSE, air, coupled	1
5	100085	SCREW, thumb	1	21	119394	FITTING, line, air	1
6	16A247	HOUSING, head, applicator	1	22	15B565	VALVE, ball	1
7	128462	TIP, 5/8 in., orifice stamped	1	24*	-----	ADAPTER, 1.0 npt f x 1.0 bspp (m)	1
8	16A405	CAP, retaining, nozzle, medium	1	25*	17N564	SEAL, 1.0 in. bspp	1
9	104282	PACKING, o-ring	1	27	114271	STRAP, retaining	1
13	128460	TIP, 1/2 in., orifice stamped	1	40	25D859	FITTING, 1 in. camlock f x 1 in. npt f	1
14	128461	TIP, 9/16 in., orifice stamped	1				
15	128463	TIP, 11/16 in., orifice stamped	1				
16	128464	TIP, 3/4 in., orifice stamped	1				

* Parts included in 25mm x 1.0 npt f Adapter Kit

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.

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For patent information, see www.graco.com/patents.

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

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