

Instructions



Zip-TEX Spray Gun

311159A

- For water-based materials only -
(Consult your material supplier for Warnings and Application Requirements)

Model 249458

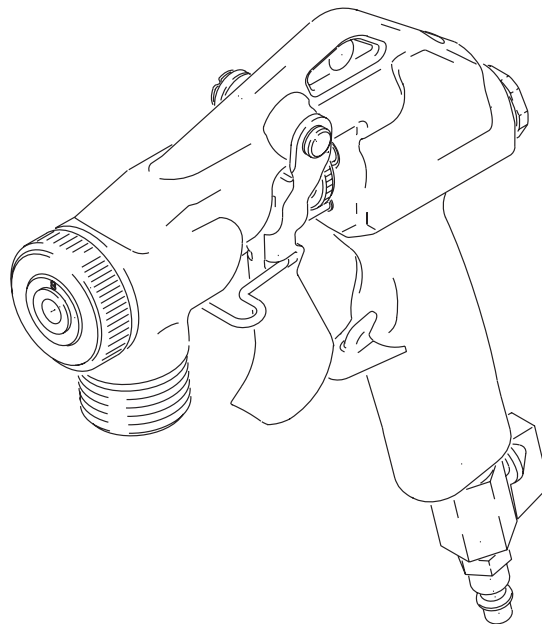
125 psi (0.86 MPa, 8.6bar) Maximum Working Pressure

Non-bleeder gun for use with Zip-TEX 1500 Texture Sprayer.
For sprayer operation and warning information,
refer to your sprayer or compressor operation manual.



Important Safety Instructions







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



t13966a

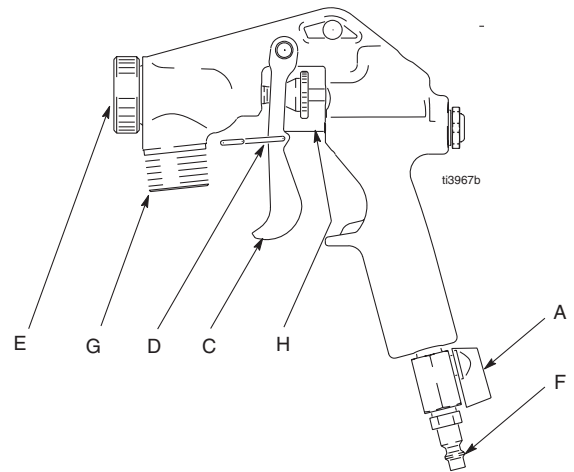
Warnings

The following general warnings are related to the safe 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. Refer to these Warnings.


 WARNING	
	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment in well ventilated area only. • Keep work area free of debris, including solvent, rags and gasoline. • Ground equipment in the work area. See Grounding instructions. • 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>PRESSURIZED EQUIPMENT HAZARD</p> <p>Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.</p> <ul style="list-style-type: none"> • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.
	<p>EQUIPMENT MISUSE HAZARD</p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • 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. • Check equipment daily. Repair or replace worn or damaged parts immediately. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your ASM 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.
	<p>PLASTIC PARTS CLEANING SOLVENT HAZARD</p> <p>Use only compatible water-based solvents to clean plastic structural or pressure-containing parts. Many solvents can degrade plastic parts and cause them to fail, which could cause serious injury or property damage. See Technical Data in this and all other equipment instruction manuals. Read fluid and solvent manufacturer's warnings.</p>
	<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, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection

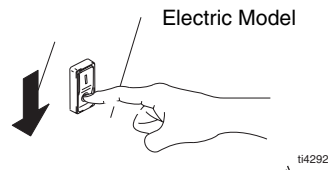
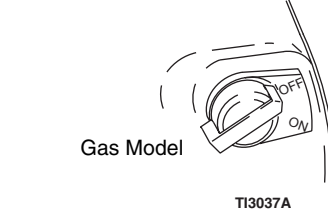
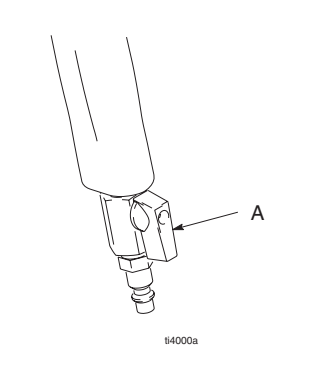
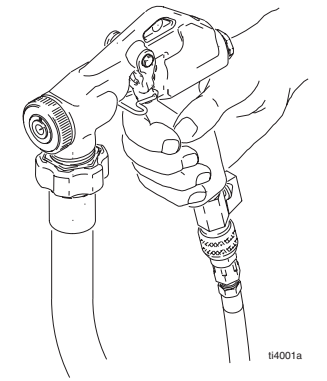
Component Identification

A	Air Valve
C	Trigger
D	Trigger Lock
E	Nozzle
F	Air Fitting
G	Material Inlet
H	Air Shutoff Needle



Pressure Relief Procedure


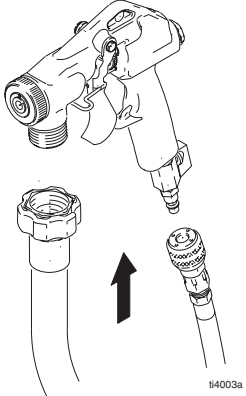
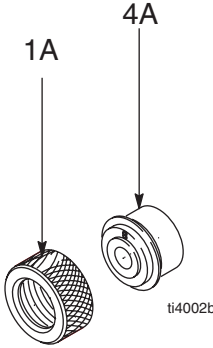
IMPORTANT	
	<p>To reduce the risk of injury, follow this Pressure Relief Procedure whenever you:</p> <ul style="list-style-type: none"> • Are instructed to relieve pressure • Stop spraying • Service equipment • Install or clean spray nozzle • Disconnect or connect hose.

<p>Electric Model</p>  <p>Gas Model</p> 			
1 Shut OFF air source.	2 Disconnect power source.	3 Open gun air valve (A).	4 Trigger gun to relieve pressure.

Setup

Grounding

To reduce risk of electrical shock, proper electric grounding is essential. See your sprayer instruction manual and consult your local electrical codes for detailed grounding instructions.

Installation			
			
1 Relieve Pressure , page 3.	2 Connect air and material hoses to gun. Tighten securely.	3 Install nozzle (4a) on front of gun and secure using retaining ring (1A). See Nozzle Selection Chart, page 4.	4 Refer to system operation manual to start and prime sprayer.

Spray Techniques

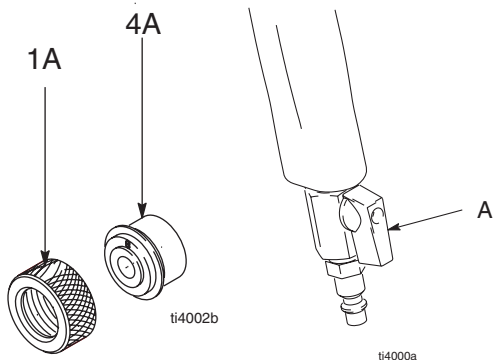
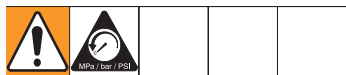
Nozzle Selection

Application	Nozzle No. ²	Air Volume ¹
Fog	3-4 mm	high
Simulated Acoustic	4 mm	medium to high
	6 mm	
	8-10 mm	
Orange Peel	3-4 mm 4-8 mm	medium to high
Splatter Coat	6-8 mm 6-10 mm	low - medium
Knock-down	8-12 mm	low
Textured Elastomerics	8-12 mm	high**
Plastics	8-10 mm	high**
EIFS	8-12 mm	high**
Stucco	10-12 mm	high**

¹ Control air volume with gun air flow valve (A).

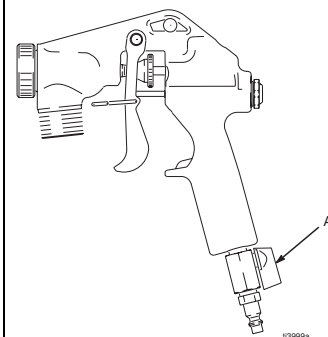
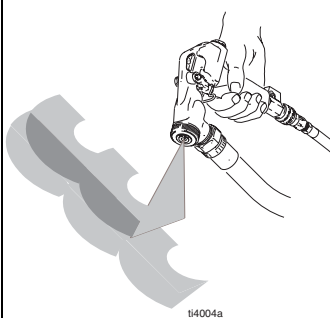
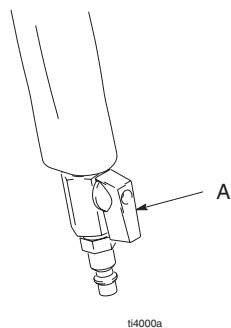
²For more material volume, try a larger-orifice tip.

Nozzle Selection

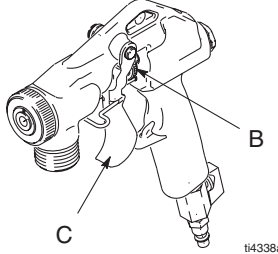



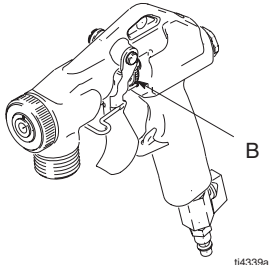
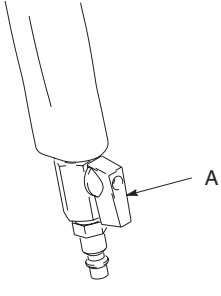
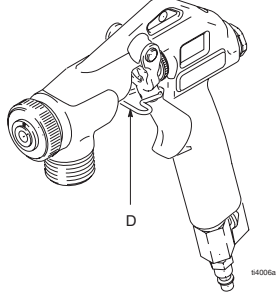
<p>Standard nozzles (4A) are numbered 3, 4, 6, 8, 10 and 12, designating orifice size in millimeters. These parts can be interchanged to produce a pattern suitable for each job. See Nozzle Selection Chart, page 4.</p>	<ul style="list-style-type: none"> For smaller droplet sizes, reduce nozzle (4A) size and increase gun atomizing air by opening air valve (A) (counter-clockwise). 	<ul style="list-style-type: none"> For larger droplets, increase nozzle (4A) and reduce gun atomizing air by closing air valve (A) (clockwise). 	
---	---	--	--

System Adjustment

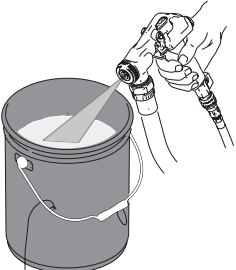
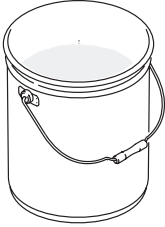
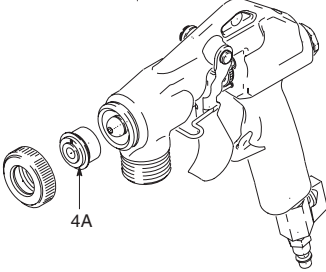
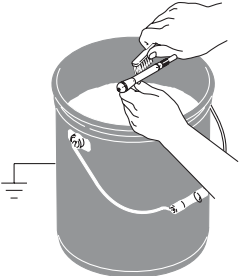
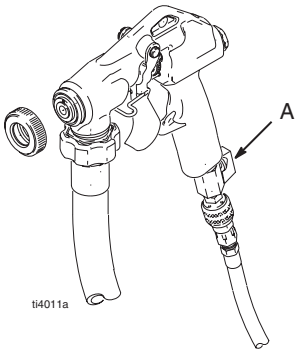
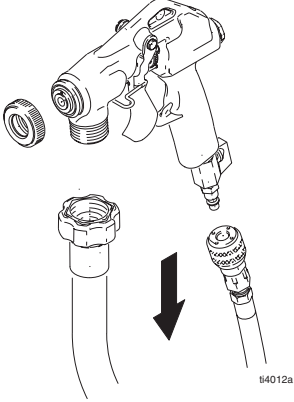


	<ol style="list-style-type: none"> Open air valve (A). 	<ol style="list-style-type: none"> Test spray pattern on cardboard. Hold gun 18 to 30 in. (457 to 762 mm) from surface. Use this spray distance for most applications. Overlap each stroke 50% in a circular motion. 	<ol style="list-style-type: none"> Adjust air valve (A) to achieve uniform, round spray pattern. It may be necessary to change spray nozzle to achieve desired spray pattern. NOTE: Keep a small amount of air flowing through air line and gun tip to prevent material from backing up needle
--	---	---	---

	 <p style="text-align: right;">t14338a</p>		
<p>4 To select correct nozzle for your applications, consider size of aggregate in material and coarseness of spray pattern. Remember the larger the nozzle, the larger the pattern. See Nozzle Selection, page 4.</p> <ul style="list-style-type: none"> • More air produces a finer finish, less air a coarser finish. 	<p>When adjusting flow adjustment nut (B), release trigger (C), then adjust.</p> <p>If adjusting while triggered, needle will turn but provide no adjustment.</p> <p>If flow adjustment nut will not turn, check to see if it is:</p> <ul style="list-style-type: none"> • set to maximum adjustment, or • if there is material on threads. Clean threads as needed. 	<p>Check material consistency often. Material may thicken as it sits and slow down production or affect spray pattern. Thin with water as needed to maintain proper consistency.</p>	

  <p style="text-align: right;">t14339a</p>	 <p style="text-align: right;">t14000a</p>		 <p style="text-align: right;">t14006a</p>
<p>Material Flow Adjustment</p> <ul style="list-style-type: none"> • For a lighter spray pattern, decrease material pressure at sprayer. • For a heavier spray pattern, increase material pressure at sprayer. 	<p>Air Flow Adjustment</p> <ul style="list-style-type: none"> • Trigger gun. • To decrease air flow, close air valve (A) (clockwise). • To increase air flow, open air valve (A) (counter-clockwise). <p>NOTE: Keep a small amount of air flowing through air line and gun tip to prevent material from backing up needle</p>	<p>Preventing Material Surge at Gun Trigger</p> <p>Pressure will build up in system when you stop triggering gun. To prevent material surge at beginning of spray pattern:</p> <ul style="list-style-type: none"> • when you first pull trigger, point gun away from surface you are spraying. • hold gun away from surface and gradually work your way closer to it. • trigger gun as little as possible 	<p>For Continuous Spraying</p> <ul style="list-style-type: none"> • Engage trigger lock (D) to hold trigger open and reduce fatigue.

Cleanup

 <p>ti4290a</p> <p>WASTE</p>	 <p>WATER</p> <p>ti4334a</p>		 <p>4A</p>
<p>1 Pump remaining material into bucket until most of texture material is out of hopper.</p> <p>NOTE: Keep a small amount of air flowing through air line and gun tip to prevent material from backing up needle</p>	<p>2 Fill hopper with clean water.</p>	<p>3 Pump water through system and out of gun.</p>	<p>4 Remove nozzle (4A) from gun and allow water to flow through and out of gun. Flush until gun is clean.</p>
 <p>ti4010a</p> <p>FLUSH</p>	 <p>ti4011a</p> <p>A</p>	 <p>ti4012a</p>	
<p>5 Finish cleaning all components. A soft brush may be used to help loosen any dried on material from surface.</p> <p>Cleaning out all air passages and components will improve gun performance and life.</p>	<p>6 Connect air line to gun. Open gun air valve (A), forcing air through tip to clear out any remaining material.</p>	<p>7 Disconnect air line and material hose from gun.</p>	<p>To improve working condition for future use, after cleaning apply a few drops of light oil to:</p> <ul style="list-style-type: none"> • air hose quick connect • material hose connections • trigger nut • air shutoff needle • material needle

Repair

Fluid Seal Replacement

Use Seal Replacement Kit, 287228.



U-cups seals are very fragile. Never pound on seal during installation.

<p>1 Remove retaining ring (11), nozzle (28), and needle assembly (9) through front of gun.</p>	<p>2 Use a hook-shaped object to carefully pull up-cup retainer and u-cup out of gun.</p>	<p>3 Using your finger or a 1/2-in. diameter rod, push new seal (3) in place. Make sure seal is seated against sleeve bearing (35).</p> <p>4 Insert u-cup retaining ring (10). Make sure retaining ring is seated against u-cup (3).</p>	<p>5 ASM recommends you replace the entire fluid needle assembly at this time, including the needle (9) spring (5), packing o-ring (6) and guide (7).</p> <p>6 Trigger gun a few times to make sure u-cup and retainer are securely in place.</p>

Air Seal Replacement

Use Seal Replacement Kit, 287229.



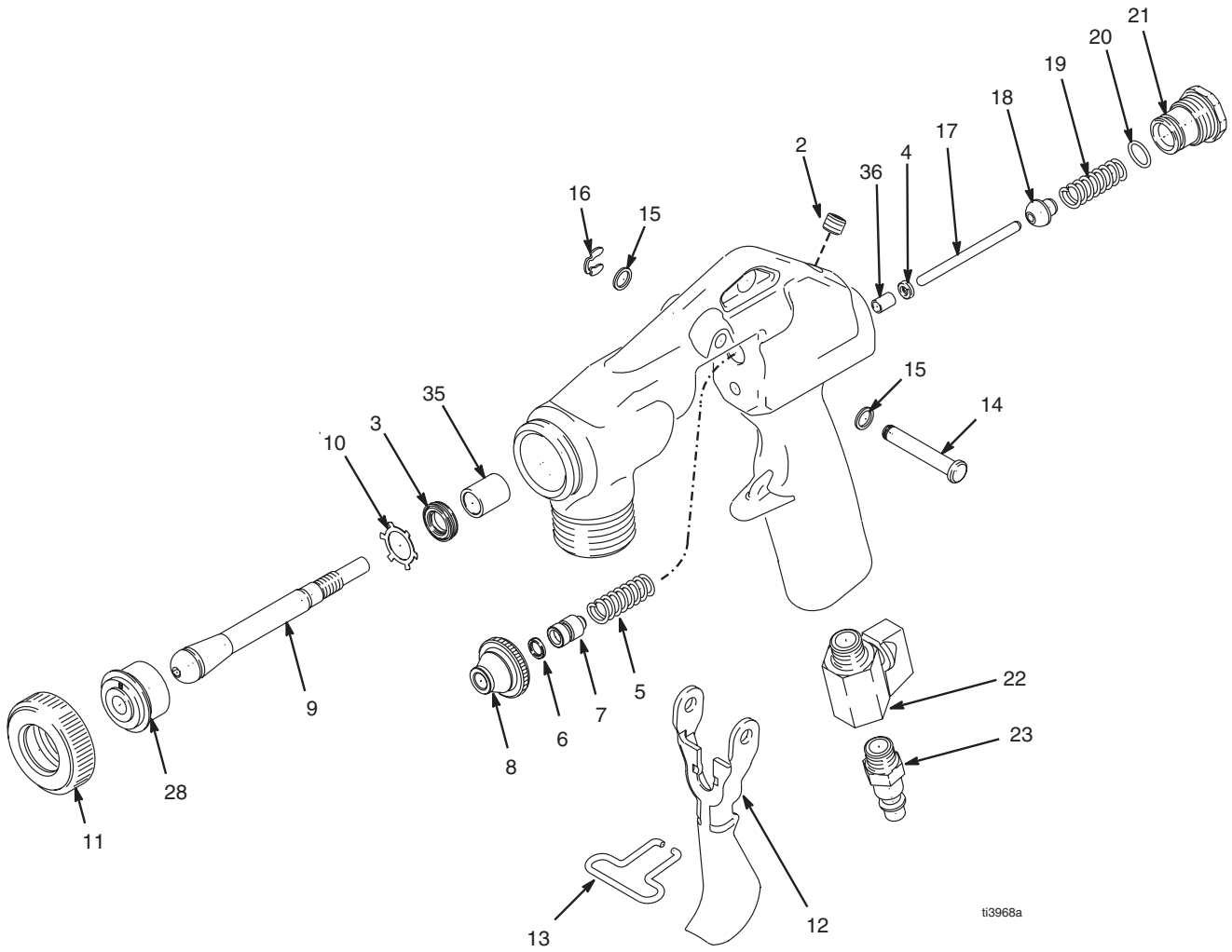
U-cups seals are very fragile. Never pound on seal during installation.

<p>1 Remove air valve retainer (21), compression spring (19), air valve seal (18) and needle (17) through back of gun.</p>	<p>2 Use a hook-shaped object to carefully pull u-cup seal (4) out of gun.</p>	<p>3 Push new seal (4) in place using a small diameter (1/4 in. or smaller) object. Make sure seal is seated against sleeve bearing (36).</p>	<p>4 Replace air valve needle (17) seal (18), spring (19) and O-ring (20) if necessary.</p>

Troubleshooting

Problem	Cause	Solution
Material will not flow out of gun	Material too thick	Thin material. Increase pressure at pump.
	Not enough air	Open gun air valve (A) more (counter-clockwise)
	Trigger adjustment set too low	Rotate trigger nut clockwise to increase (adjust) trigger travel
	Nozzle too small	Increase nozzle size
	Gun is plugged	Clean gun
Pattern too fine	Material too thin	Add more dry material to mix to thicken
	Air pressure too high	Close gun air valve (A) partially (clockwise)
	Gun needle travel too low	Rotate trigger nut clockwise to increase (adjust) trigger travel
	Nozzle too small	Replace nozzle with larger size
Pattern too coarse	Material too thick	Add water to mix to thin material
	Air pressure too low	Open gun air valve (A) more (counter-clockwise)
	Nozzle too large	Replace nozzle with smaller size
Gun will not shut off	Worn nozzle and/or needle	Relieve pressure , page 3. Replace worn parts
	Nozzle retaining ring not on all the way	Tighten completely.
	Debris in gun passages	Relieve pressure , page 3. Clean gun.
Fluid leaking at flow adjustment nut (B)	Damaged seal	Relieve pressure , page 3. Replace seal (3).
Trigger nut won't adjust	Dirty threads	Clean threads.
	Nozzle not on gun	Put nozzle on gun.
	Needle triggered	Adjust when trigger is not pulled.
Air won't shut off when gun trigger is released (non-bleeder model only)	Debris in gun air passages	Relieve pressure , page 3. Clean gun.
	Loose air fittings	Tighten air fittings on gun
	Worn air seals	Replace air shutoff needle u-cup (4) and/or air valve seal (18)

Parts



ti3968a

Parts

Item	Part No.	Description	Qty
2	103147	PLUG, pipe	1
3	15D125	SEAL, u-cup,.375 dia. shaft	1
4	15D126	SEAL, u-cup,.156 dia. shaft	1
5	118592	SPRING, compression	1
6	156454	PACKING, o-ring	1
7	15C894	GUIDE, needle, fluid	1
8	15B163	NUT, needle	1
9	246972	NEEDLE, fluid, assbly	1
10	119343	RING, retaining	1
11	15B042	RING, retaining, nozzle	1
12	15C882	TRIGGER, gun	1
13	15D120	LOCK, trigger	1
14	118717	PIN, clevis w groove	1
15	107243	WASHER	2
16	115999	RING, retaining	1
17	15C895	NEEDLE, air valve	1
18	15D104	SEAL, air valve	1
19	108961	SPRING, compression	1
20	103610	PACKING, o-ring	1
21	15C896	RETAINER, spring, air valve	1
22	15B565	VALVE, ball	1
23	119394	FITTING, line, air	1
28		NOZZLE	1
28a	15C883	NOZZLE, texture 3mm	1
28b	15C884	NOZZLE, texture 4 mm	1
28c	15C885	NOZZLE, texture 6 mm	1
28d	15C886	NOZZLE, texture 8 mm	1
28e	15C887	NOZZLE, texture 10 mm	1
28f	15C888	NOZZLE, texture 12 mm	1
35	119183	BEARING, sleeve,.375 dia. shaft	1
36	119184	BEARING, sleeve, 4 mm dia. shaft	1
37	287228	KIT, repair, fluid needle, (includes 3, 5, 6, 7, 9, 10, and bleeder16)	1
38	287229	KIT, repair, air needle (includes 4, 17, 18, 19, 20, and 36)	1

Technical Data

Maximum air working pressure	125 psi (8.6 bar)
Air requirements	30 scfm (0.84m ³ /min) Maximum
Fluid inlet sizes	1 in. NPT (25.4 mm)
Wetted parts	Anodized Aluminum, Stainless Steel, Buna-N, UHMW Polyethylene, Brass, Steel Viton, Delrin
Sound data	
Sound pressure level	96 dB(A)*
Sound power level	104 dB(A)*
Dimensions	
Weight (dry, without packings)	30 oz (850.5 g)
Height	10.3 in. (261.6 mm)
Length	7.5 in. (190.5 mm)
Width	1.7 in. (43.18 mm)

*Spraying simulated acoustic at full air and maximum material pressure.

Warranty

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

This warranty does not cover, and ASM 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-ASM component parts. Nor shall ASM be liable for malfunction, damage or wear caused by the incompatibility of ASM equipment with structures, accessories, equipment or materials not supplied by ASM, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by ASM.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized ASM distributor for verification of the claimed defect. If the claimed defect is verified, ASM 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.

ASM'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.

ASM 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 ASM. These items sold, but not manufactured by ASM (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. ASM will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will ASM be liable for indirect, incidental, special or consequential damages resulting from ASM 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 ASM, or otherwise. All written and visual data contained in this document reflects the latest product information available at the time of publication. ASM reserves the right to make changes at any time without notice.

This manual contains English
MM 311159

ASM Company, 3500 North 1st Avenue, Sioux Falls, SD 57104
www.asmcompany.com

PRINTED IN USA
311159 Rev A, 4/2005