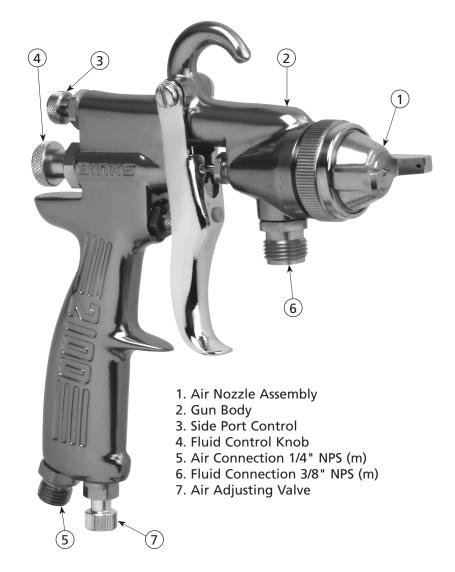


BINKS MODEL 2100[™] SPRAY GUN 2101-XXXX-X

Your new Binks spray gun is exceptionally rugged in construction, and is built to stand up under hard, continuous use. However, like any other fine precision instrument, its most efficient operation depends on a knowledge of its construction, operation, and maintenance. Properly handled and cared for, it will produce beautiful, uniform finishing results long after other spray guns have worn out.



IMPORTANT! DO NOT DESTROY

It is the customer's responsibility to have all operators and service personnel read and understand this manual.

Contact your local Binks representative for additional copies of this manual.

SPECIFICATIONS

	v
Maximum Air Pressure	100 psi / 6.9 bar
Maximum Fluid Pressure	100 psi / 6.9 bar
Gun Body	Anodized Aluminum
Fluid Path	Stainless Steel
Fluid Inlet Size	3/8" NPS
Air Inlet Size	1/4" NPS
Gun Weight	1 lb 6 oz / 635 gm

READ ALL INSTRUCTIONS BEFORE OPERATING THIS BINKS PRODUCT.

In this part sheet, the words WARNING, CAUTION and NOTE are used to emphasize important safety information as follows:

Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

ACAUTION

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE

Important installation, operation or maintenance information.

AWARNING

Read the following warnings before using this equipment.



READ THE MANUAL

Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



INSPECT THE EQUIPMENT DAILY

Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



WEAR SAFETY GLASSES

Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



DE-ENERGIZE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE Failure to De-energize, disconnect and lock out all power supplies before performing equipment

all power supplies before performing equipment maintenance could cause serious injury or death.



OPERATOR TRAINING

All personnel must be trained before operating finishing equipment.



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.



KEEP EQUIPMENT GUARDS IN PLACE Do not operate the equipment if the safety devices have been removed.



PROJECTILE HAZARD You may be injured by venting liquids or gases

that are released under pressure, or flying debris.



PINCH POINT HAZARD

Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.



AUTOMATIC EQUIPMENT

Automatic equipment may start suddenly without warning.

NEVER MODIFY THE EQUIPMENT Do not modify the equipment unless the manufacturer provides written approval.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY



PRESSURE RELIEF PROCEDURE Always follow the pressure relief procedure in the equipment instruction manual.



NOISE HAZARD

You may be injured by loud noise. Hearing protection may be required when using this equipment.



STATIC CHARGE

Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

FIRE AND EXPLOSION HAZARD

Never use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in equipment with aluminum wetted parts. Such use could result in a serious chemical reaction, with the possibility of explosion. Consult your fluid suppliers to ensure that the fluids being used are compatible with aluminum parts.



TYPES OF INSTALLATION

Air pressure for atomization is regulated at the extractor. The flow of the fluid is adjusted by the fluid valve control knob on gun, viscosity of paint and air pressure.

PRESSURE CUP HOOKUP (Figure 1)

For fine finishing with limited spraying. Air pressure for atomization is regulated at extractor; fluid pressure at cup regulator. Pressure cup is also available less regulator.

PRESSURE TANK HOOKUP (Figure 2)

For medium production spraying (single regulator). Air pressure for atomization is regulated at extractor, fluid pressure at tank regulator.

PRESSURE TANK WITH 2 REGULATORS (Figure 3)

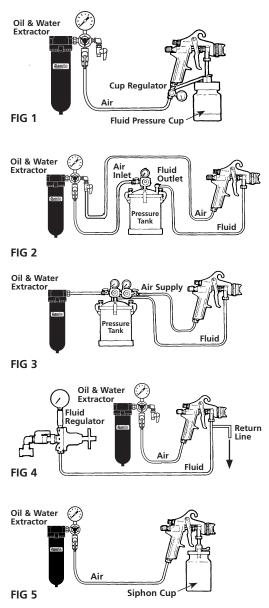
The pressure to the tank is regulated by the first regulator. The pressure for atomization is regulated by the second regulator.

PRESSURE CIRCULATING HOOKUP (Figure 4)

For heavy production spraying. Air pressure atomization regulated at extractor. Fluid pressure regulated at fluid regulator.

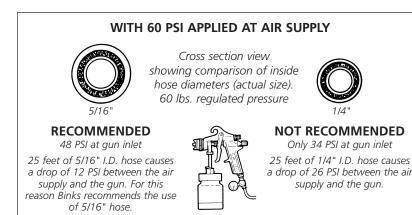
SIPHON FEED HOOKUP (Figure 5)

Air pressure for atomization is regulated at extractor. The amount of fluid is adjusted by fluid control screw on gun, viscosity of paint, and air pressure.



AIR PRESSURE

Atomizing pressure must be set properly to allow for the drop in air pressure between the regulator and the spray gun.



An oil and water extractor is important.

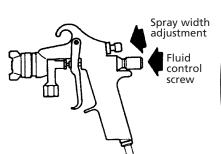
Achieving a fine spray finish without the use of a good oil and water extractor is virtually impossible.



A regulator/extractor serves a double purpose.

It eliminates blistering and spotting by keeping air free of oil and water, and it gives precise air pressure control at the gun.

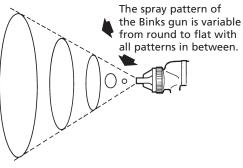
Binks recommends using Model HFRL-508 Oil and Water Separator / Regulator. See your local distributor for other models.



Spray width adjustment: Turn clockwise for round, counterclockwise for fan.

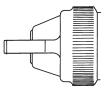
Fluid control screw: Turn clockwise to decrease flow, counterclockwise to increase flow.

As width of spray is increased, more material must be allowed to pass through the gun to obtain the same coverage on the increased area.



SIPHON SPRAYING

Set atomization pressure at approximately 50 PSI for lacquer and 60 PSI for enamel. Test spray. If the spray is too fine, reduce the air pressure or open fluid control screw. If the spray is too coarse, close the fluid control screw. Adjust the pattern width and repeat adjustment of spray if necessary. In normal operation, the wings on the nozzle are horizontal as illustrated here. This provides a vertical fan shaped pattern which



gives maximum coverage as the gun is moved back and forth parallel to the surface being finished.

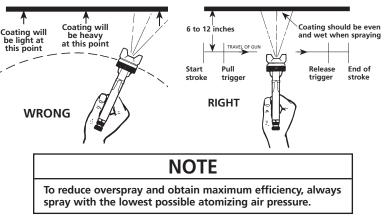
PRESSURE SPRAYING

After selecting correct size fluid orifice, set fluid pressure for desired flow. Open atomization air and test spray. If spray is too fine, reduce air pressure. If spray is too coarse, raise air pressure. Adjust pattern width and repeat adjustment of spray. Keeping fluid control screw in open position will reduce fluid needle wear.

The first requirement for a good resultant finish is the proper handling of the gun. The gun should be held perpendicular to the surface being covered and moved parallel with it. The stroke should be started before the trigger is pulled and the trigger should be released before the stroke is ended. This gives accurate control of the gun and material.

The distance between gun and surface should be 6 to 12 inches depending on material and atomizing pressure. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.

GUN HANDLING

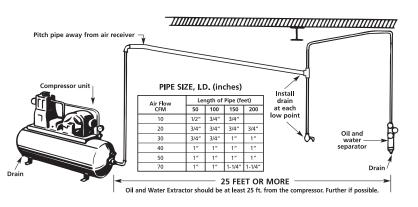


AIR SUPPLY

It is extremely poor practice to mount the oil and water extractor on or even near the compressor unit. The temperature of the air is greatly increased as it passes through the compressor and this compressed air must be cooled before the moisture in it will condense. If the air from the compressor is still warm when it passes through the oil and water extractor, moisture will not be effectively removed, but will remain in suspension. Then, when the air cools in the hose beyond the extractor, the moisture will condense into drops of water and cause trouble.

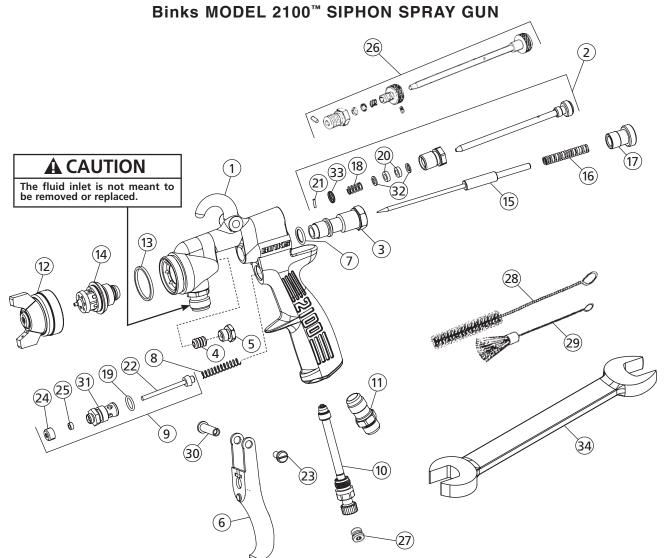
Air lines must be properly drained

Pitch all air lines back towards the compressor so that condensed moisture will flow back into the air receiver where it can be removed by opening a drain. Every low point on an air line acts as a water trap. Such points should be fitted with an easily accessible drain. See diagram.



FAULTY PATTERNS AND HOW TO CORRECT THEM

PATTERN	CAUSE	CORRECTION				
Constant of the second	Dried material in side-port "A" restricts passage of air. Greater flow of air from cleaner side-port "B" forces fan pattern in direction of clogged side.	Dissolve material in side-ports with thinner, then blow gun clean. Do not poke into openings with metal instruments.				
	Dried material around the outside of the fluid nozzle tip at position "C" restricts the passage of atomizing air at one point through the center opening of air nozzle and results in pattern shown. This pattern can also be caused by a loose air nozzle.	Remove air nozzle and wipe off fluid tip using rag wet with thinner. Tighten air nozzle.				
	A split spray or one that is heavy on each end of a fan pattern and weak in the middle is usually caused by: (1) Too high an atomization air pressure (2) Attempting to get too wide a spray pattern with thin material.	Reducing air pressure will correct cause (1). To correct cause (2), open material control to full position by turning to left. At the same time, turn spray width adjustment to right. This will reduce width of spray, but will correct split spray pattern.				
	 (1) Dried out packing around material needle valve permits air to get into fluid passageway. This results in spitting. (2) Dirt between fluid nozzle seat and body or loosely installed fluid nozzle will make gun spit. (3) A loose or defective swivel nut on siphon cup or material hose can cause spitting. 	To correct cause (1) back up knurled nut (E), place two drops of machine oil on packing, replace nut and tighten with fingers only. In aggravated cases, replace packing. To correct cause (2), remove fluid nozzle (F), clean back of nozzle and nozzle seat in gun body using rag wet with thinner, replace nozzle and draw up tightly against body. To correct cause (3), tighten or replace swivel nut.				



PARTS LIST

When ordering, please specify Part No.

ITE	VI PART		5.1	ITEM	PART		
NO	. NO.	DESCRIPTION	QTY.	NO.	NO.	DESCRIPTION	QTY.
1	_	2100 GUN BODY (NOT SOLD SEPARATELY)	1	19 2	0-3757+	O-RING	1
2	54-3347	SIDE PORT CONTROL ASSEMBLY	1	20 5	4-738-50+	PACKING	2
3	54-1013	MATERIAL BODY	1	21 5	4-1014-50+	PIN	1
4	2-28-5 ⊖+★	PTFE PACKING	1	22 5	4-1025+	VALVE STEM ASSEMBLY	1
5	56-164	PACKING NUT	1	23 8	2-126-5 0	SCREW	1
6	54-5464	2100 TRIGGER	1	24 8	2-135-5 0	NUT	1
7	20-5285-5 O+	O-RING VITON	1	25 8	2-158-50+	PACKING	1
8	54-750-5 0+	SPRING	1	26 5	4-1780•	QUICK CHANGE SIDEPORT CONTROL	1
9	54-1236	AIR VALVE ASSEMBLY	1			(SOLD SEPARATELY AS ASSEMBLY)	
10	SGK-457-K	AIR ADJUSTMENT VALVE	1	27 J	GA-132•	PLUG (SOLD SEPARATELY)	1
11	54-768	AIR CONNECTION	1	28 8	2-469	ROUND BRUSH	1
12	*SEE FOOTNOTE	AIR NOZZLE	1	29 C	0MX-88	FLAT BRUSH	1
13	54-918-50+	GASKET	1	30 5	4-1020	STUD	1
14	*SEE FOOTNOTE	FLUID NOZZLE	1	31 5	4-1010	VALVE BODY	1
15	*SEE FOOTNOTE	FLUID NEEDLE	1	32 5	4-1016-5	WASHER	2
16	54-1347-5⊖+ ∕	SPRING	1	33 5	4-1015-5	WASHER	1
17	54-1007	CONTROL SCREW	1	34 5	-476	FLUID NOZZLE WRENCH	1
18	54-304-50+	SPRING	1				

O Available only as 5-Pack.

+ Indicates parts in 6-229 Repair Kit.

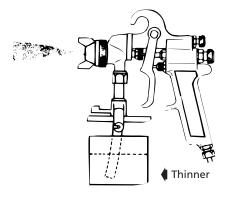
Alternate needle packing (optional) 54-747-5.
Accessory item.

✓ Also available: Heavy Duty Spring 54-1372, not furnished. Please order separately.

* Be sure to specify number stamped on air nozzle and fluid nozzle, or see Nozzle Selection Chart.

Binks MODEL 2100[™] SIPHON SPRAY GUN – POINTERS ON CLEANING

When used with a cup, thinner or suitable solvent should be siphoned through gun by inserting tube in open container of that liquid. Move trigger constantly to thoroughly flush passageway and to clean tip of needle.

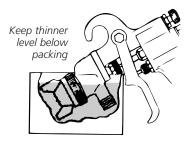


CLEANING GUN USED WITH PRESSURE TANK

Shut off the air supply to the tank and release the pressure on the tank. Open vent and loosen air nozzle. Hold a piece of cloth, wadded in the hand over the air nozzle and pull the trigger, the air will back up through the fluid nozzle, and force the fluid out of the hose into the tank. Next put enough thinner into the tank to wash the hose and gun thoroughly and spray this through the gun until it is clean. Then blow out the fluid hose to dry it and remove all traces of materials by attaching it to the air line.

THINNER

Keep thinner level below packing. It is extremely poor practice to place an entire gun in thinner. When this is done, the solvent dissolves the oil in the leather packing and causes the gun to spit. It is good practice to place the nozzle and fluid connection in thinner. Vessel used should be shallow enough to prevent thinner from reaching packing.



LUBRICATION

Daily oil fluid needle packing, air valve packing, and trigger bearing screw. Occasionally coat needle valve spring with petroleum jelly. OIL ALL WORKING PARTS EVERY DAY.

CONTROLLING THE FAN SPRAY: The

fan spray for an external mix nozzle setup is easily controlled by means of the side port control (2). Turning this control to the right, or clockwise, until it is closed will give a round spray; turning it to the left, or counter-clockwise, will widen the spray into a fan shape of any width desired. The direction of the fan spray, either horizontal or vertical, is obtained by turning the air nozzle to the desired position, then tightening the retainer ring.

CONTROLLING THE FLUID

If a fluid pressure tank is used, the amount of fluid can be controlled by regulating the pressure on the tank. The amount of fluid can also be controlled by means of the fluid control screw (17). Turning this screw to the right, or clockwise, reduces the amount of fluid; to the left, or counter-clockwise, increases the amount of fluid.

FAULTY SPRAY

A faulty spray is caused by improper cleaning or dried material around the fluid nozzle tip or in the air nozzle. Soak these parts in a solvent that will soften the dried material and remove with a brush or cloth.

ACAUTION

Never use metal instruments to clean the air or fluid nozzles. These parts are carefully machined and any damage to them will cause a faulty spray.

If either the air nozzle or fluid nozzle is damaged, the part must be replaced before a perfect spray can be obtained.

TO REPLACE THE FLUID PACKING:

Remove the fluid control screw (17), spring (16) and needle. Then remove the fluid packing nut (5) and take out the old packings with a small stiff wire. Replace with new packings (4) oiled lightly and assemble in reverse order. To set packing, insert needle, tighten nut until the needle begins to be too stiff for the spring to move the needle. Then loosen nut 1/2 to 3/4 turn.

CORRECTING AIR LEAK THROUGH GUN

Air leaking through the gun is caused by the valve stem assembly (22), not seating properly against the valve body (31). Remove the valve body (31) and valve stem assembly (22). Thoroughly clean parts and inspect for damage. Replace worn or damaged parts and assemble in reverse order.

CORRECTING AIR LEAK AROUND AIR VALVE STEM

Air leaking around the air valve stem (22) may be caused by worn packings (25) or damaged air valve stem (22). Remove trigger (6), packing nut (24) and packings (25). Clean extended portion of air valve stem (22) and inspect for damage; if stem is damaged, replace same as above, insert new packings and assemble in reverse order.

Binks MODEL 2100[™] SPRAY GUN – GENERAL MAINTENANCE

SPRAY GUN

- 1. Immerse only the front end of the gun until solvent just covers the fluid connection.
- 2. Use a bristle brush and solvent to wash off accumulated paint.
- 3. Do not submerge the entire spray gun in solvent because:
 - a. the lubricant on the packings will dissolve and the packings will dry out.
 - b. the lubricant at wear surfaces will dissolve causing harder operation and faster wear.
 - c. residue from dirty solvent may clog the narrow air passages in the gun.
- 4. Wipe down the outside of the gun with solvent-dampened rag.
- 5. Lubricate gun daily. Use a light
 - machine oil on: a. fluid needle packing.
 - b. air valve packing.
 - c. side port control packing.
 - d. trigger pivot point.

Coat the fluid control spring with vaseline.

ACAUTION

Never use lubricants contaning silicone. This material may cause finish defects.

NOTE

All parts on a spray gun should be screwed in hand tight at first; this will avoid the possibility of cross threading the parts. If the parts can not be turned by hand easily, make sure you have the correct parts, unscrew, realign, and try again. NEVER use undue force in mating parts.

Never unscrew the fluid inlet nipple! (Item 6, front page.) It is not meant to be removed or replaced.

AIR NOZZLE, FLUID NOZZLE, FLUID NEEDLE

- 1. All nozzles and needles are precision made. They should be handled with care.
- 2. Do not make any alterations in the gun. To do so could cause finishing difficulties.
- 3. To clean nozzles, soak them in solvent to dissolve any dried material, then blow them clean with air.
- 4. Do not probe any of the holes in the nozzles with metal instruments. If probing is necessary, use only a tool that is softer than brass.

NOZZLE SELECTION

(See chart on pages 10-11)

Siphon Type External Mix Nozzles, designated by the letter "S", will siphon the material from a cup. Used generally for refinishing and touch-up work which does not require large quantities of paint.

Pressure Type External Mix Nozzles, designated by the letter "P", require pressure to feed the material to the nozzle. A pressure cup, pressure tank or pump is necessary. Used for production work and where large quantities of fluid are handled. This type of nozzle has a greater range of fluid flow and does not limit the size of the paint container.

—Internal Mix Nozzles mix the air and fluid within the air nozzle. The spray pattern is determined by the shape of the nozzle and cannot be changed. Internal mix nozzles require less air and produce slightly less fog. Pressure equipment must be used with this type of nozzle. Recommended for maintenance spraying of heavy materials where a fine finish is not required. (Designated by the letter "I").

C. Volume of Air (CFM required) The cubic feet per minute (CFM) listed at 30, 50 and 70 PSI is the actual air used by the air nozzle. Increase of pressure subsequently increases volume of air required by air nozzle, or vice versa. Assume that a compressor will produce 3-5 CFM per horsepower.

NOTE

The greater the air consumption, the faster the fluid may be applied or the finer a given amount of fluid can be atomized.

A. Material to Be Sprayed

Select the type of fluid you want to spray or a fluid which has the same characteristics as one of those listed.

B. Method of Feeding Material to the Gun

Fluid Nozzle—Consider the speed of application and the viscosity of the fluid to be sprayed. Referring to the *Fluid Nozzle Orifice Size Chart*, those fluid nozzles which can be changed within an air nozzle are indicated.

Air Nozzle—Choice is determined by the type of fluid to be sprayed and the volume of air available for the gun.

—External Mix Nozzles, which are generally used, accomplish atomization outside the nozzle. Spray patterns are adjustable from round to fan with all intermediate patterns. (Designated by the letter "E").

EN

COMPLETE	GUN ASSEMBLIES AVAILABL	E

2101-0000-0	2100 GUN LESS SET-UP
2101-2800-0	2100 GUN 63BSS LESS AIR NOZZLE
2101-2800-7	2100 GUN 63BSS-63PB (P)
2101-2808-2	2100 GUN 63BSS-66SD-3
2101-2821-3	2100 GUN 63BSS-21MD-3 (P)
2101-3100-0	2100 GUN 63CSS LESS AIR NOZZLE
2101-4300-0	2100 GUN 66SS LESS AIR NOZZLE
2101-4300-7	2100 GUN ASSEMBLY (66SS-63PB)
2101-4307-5	2100 GUN 66SS-66S (S)
2101-4307-9	2100 GUN 66SS-66SD (S)
2101-4308-2	2100 GUN 66SS-66SD-3
2101-4308-8	2100 GUN 66SS-66SK (S)
2101-4314-9	2100 GUN 66SS-200 AIR CAP
2101-4321-1	2100 GUN 66SS-21MD-1 (S)
2101-4321-2	2100 GUN 66SS-21MD-2 (S)
2101-4800-0	2100 GUN 67SS LESS AIR NOZZLE
2101-4909-5	2100 GUN 67VT-67PB (P)
2101-5100-0	2100 GUN 68SS LESS AIR NOZZLE
2101-5111-5	2100 GUN 68SS-68PB (P)
2101-5200-0	2100 GUN 68VT LESS AIR NOZZLE
2101-6260-0	2100 GUN 63SS-63P
2101-8000-0	2100 GUN 59ASS LESS AIR NOZZLE
2101-8200-0	2100 GUN 59CSS LESS AIR NOZZLE

NOZZLE SELECTION CHART

(CONTINUES ON NEXT PAGE)

TYPE OF FLUID TO BE SPRAYED	FLUID NOZZLE		ORIFICE SIZE IN [mm]	AIR N	OZZLE	ADDITIONAL PARTS		
VERY THIN	45-6301	(6355)	.028 [0.8]	46-6000	(63P)			
14–16 Sec.—No. 2 Zahn	45-6311	(63ASS)	.040 [1.1]	46-6000	(63P)			
Nash Primers, Dyes, Stains, Solvents,	45-6321	(63BSS)	.046 [1.2]	46-6002	(63PB)			
Vater, Inks	45-6601	(6655)	.070 [1.8]	46-6018	(66S)			
	45-6601	(66SS)	.070 [1.8]	46-6020	(66SD)			
	45-6601	(66SS)	.070 [1.8]	46-6082	(66SK)			
	45-6321	(63BSS)	.046 [1.2]	46-2200	(200)	54-4512 BASE & RING		
/ERY THIN TO MEDIUM	45-6601	(6655)	.070 [1.8]	46-21MD-1	(21MD-1)			
14–30 Secs. — No. 2 Zahn	45-6601	(6655)	.070 [1.8]	46-21MD-2	(21MD-2)			
IOTE: 21MD-1 AND 21MD-2 AIR CAPS CAN SPRAY WITH PRESSURE ET-UPS PRODUCING SPRAY PATTERS APPROX. 12" WIDE.	45-6701	(67SS)	.086 [2.2]	46-21MD-2	(21MD-2)			
EPOPS FRODUCING SFRAT FAITERS AFFROX. 12 WIDE.	45-6321	(63BSS)	.046 [1.2]	46-21MD-3	(21MD-3)			
THIN	45-6311	(63ASS)	.040 [1.1]	46-6000	(63P)			
6–20 Secs. — No. 2 Zahn	45-6601	(66SS)	.070 [1.8]	46-6082	(66SK)			
ealers, Primers, Lacquers, Inks, .ubricants, Zinc Chromates, Acrylics	45-6321	(63BSS)	.046 [1.2]	46-2200	(200)	54-4512 BASE & RING		
ubricants, Zine enromates, Acrylics	45-6331	(63CSS)	.052 [1.3]					
MEDIUM	45-6321	(63BSS)	.046 [1.2]	46-6002	(63PB)			
9–30 Secs. — No. 2 Zahn	45-6331	(63CSS)	.052 [1.3]	46-6079	(63PR)			
acquers, Syn. Enamels, Varnishes,	45-6601	(6655)	.070 [1.8]	46-6020	(66SD)			
ihellacs, Fillers, Primers, Epoxies, Jrethanes, Lubricants, Wax Emulsions	45-6601	(6655)	.070 [1.8]	46-6082	(66SK)			
Jethanes, Lubricants, Wax Emuisions	45-6331	(63CSS)	.052 [1.3]	46-2200	(200)	54-4512 BASE & RING		
	45-6601	(6655)	.070 [1.8]		. ,			
HIGH SOLIDS Enamels	45-6601	(66SS)	.070 [1.8]	46-6079	(63PR)			
IEAVY (CREAM-LIKE)	45-6701	(67\$\$)	.086 [2.2]	46-6026	(67PB)			
Over 28 Secs. — No. 4 Ford	45-6801	(6855)	.110 [2.8]	46-6032	(68PB)			
House Paint, Wall Paint (Oil, Latex),	45 0001	(0055)	.110 [2.0]	40 0032	(001.0)			
Block Sealers, Mill Whites, Vinyls, Acrylics, Epoxies, Gel Coats								
/ERY HEAVY	45-6801	(6855)	.110 [2.8]	46-6032	(68PB)			
Jnaggregated, Block Fillers,	45-5911	(59ASS)	.171 [4.3]	46-2244	(244)	54-2065 RING		
extured Coatings, Fire Retardants, Road Marking Paint, Bitumastics,	45-5912	(59BSS)	.218 [5.5]	46-2250	(250)	54-2065 RING		
Cellular Plastisols, Underbody, Roof Coatings	45-5912	(59BSS)	.218 [5.5]	46-2252	(252)	54-2065 RING		
	45-5913	(59CSS)	.281 [7.1]	46-2262	(262)	54-2065 RING		
ADHESIVES	45-6331	(63CSS)	.052 [1.3]	46-6002	(63PB)			
Vaterbase — White Vinyl Glue	45-6601	(66SS)	.070 [1.8]	46-6079	(63PR)			
olvent Base — Neoprenes (Contact Cements)	45-6701	(67SS)	.086 [2.2]	46-6026	(67PB)			
	45-6301	(63SS)	.028 [0.8]	46-6092	(66SD-3)			
	45-6311	(63ASS)	.040 [1.1]	46-6092	(66SD-3)			
	45-6321	(63BSS)	.046 [1.2]	46-6092	(66SD-3)			
	45-6601	(66SS)	.070 [1.8]	46-6092	(66SD-3)			
	45-6601	(66SS)	.070 [1.8]	46-6103	(66SDJG)			
	45-6601	(6655)	.070 [1.8]	46-6041	(66R)			
	45-6601	(6655)	.070 [1.8]	46-6103	(66SDJG)			
	45-6605	(L6SS)	.070 [1.8]	46-6061	(63PH-1)			
CERAMICS &	45-6402	(64VT)	.064 [1.6]	46-6007	(64PA)			
SIMILAR ABRASIVE MATERIALS	45-6702	(67VT)	.086 [2.2]	46-6028	(67PD)			
Glazes, Engobes, Porcelain Enamel	45-6802	(68VT)	.110 [2.8]	46-6032	(68PB)			
CONCRETE CURING COMPOUNDS	45-6601	(6655)	.070 [1.8]	46-2200	(200)	54-4512 BASE & RING		
MULTICOLOR PAINTS	45-6601	(6655)	.070 [1.8]	46-2200	(200)	54-4512 BASE & RING		
	45-6801	(6855)	.110 [2.8]	46-2201	(201)	54-4512 BASE & RING		
	45-6801	(6855)	.110 [2.8]	46-2205	(206)	54-4512 BASE & RING		
NON-STICK COATINGS	45-6311	(63ASS)	.040 [1.1]	46-6002	(63PB)			
	45-6321	(63BSS)	.046 [1.2]	46-6079	(63PR)			
	45-6601	(6655)	.070 [1.8]	46-6020	(66SD)			
IAMMERS	45-6331	(63CSS)	.052 [1.3]	46-6002	(63PB)			
	45-6601	(6655)	.070 [1.8]	46-6002	(63PB)			
	45-6601	(6655)	.070 [1.8]	46-6020	(66SD)			
WRINKLE ENAMELS	45-6331	(63CSS)	.052 [1.3]	46-6002	(63PB)			
	45-6601	(6655)	.070 [1.8]	46-6002	(63PB)			
	45-6702	(67VT)	.086 [2.2]	46-6026	(67PB)	+		

All air nozzles shown in combination with these (+) fluid nozzles can also be used in combination with any other fluid nozzle marked (+) *See text Section B, page 8, for type code. *All standard needles listed are stainless steel.

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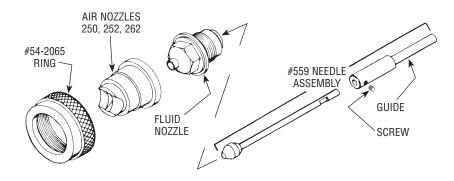
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NOZZLE SELECTION CHART

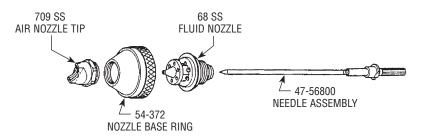
				CFM [L/m] @						PATTERN @ 8 IN [203 mm]	
TYPE OF FLUID TO BE SPRAYED	FLUID NEEDLE NO. ★		TYPE*		30 PSI [2.1 BAR]		PSI BAR]	-	PSI BAR]		[mm]
				-	-	-	-	-	-		
VERY THIN 14–16 Sec.—No. 2 Zahn	47-56300	(563) (563A)	PE PE	4.5 5.1	[127.4] [144.4]	7.5 8.7	[212.3] [246.3]	10.0 12.2	[283.1] [345.4]	5.0 11.0	[127.0] [279.4]
Wash Primers, Dyes, Stains, Solvents,	47-56310	(563A)	PE	9.0	[254.8]	14.3	[240.3]	20.0	[545.4]	14.0	[355.6]
Water, Inks	47-56500	(565)	SE	3.4	[254.0]	5.0	[141.5]	20.0	[500.5]	9.0	[228.6]
	47-56500	(565)	SE	7.9	[223.7]	12.1	[342.6]			10.5	[266.7]
	47-56500	(565)	SE	11.0	[311.4]	15.2	[430.4]	19.5	[552.1]	13.0	[330.2]
	47-56310	(563A)	PI	3.1	[87.78]	5.2	[147.2]	6.4	[181.2]	12.0	[304.8]
VERY THIN TO MEDIUM	47-56500	(565)	SE	12.0	[339.8]	17.3	[489.8]	23.0	[651.2]	11.0	[279.4]
14–30 Secs. — No. 2 Zahn	47-56500	(565)	SE	15.2	[430.4]	22.2	[628.6]	29.6	[838.1]	11.0	[279.4]
NOTE: 21MD-1 AND 21MD-2 AIR CAPS CAN SPRAY WITH PRESSURE SET-UPS PRODUCING SPRAY PATTERS APPROX. 12" WIDE.	47-56700	(567)	SE	12.5	[353.9]	18.3	[518.1]	24.4	[690.9]	13.0	[330.2]
SEPORS FRODUCING SFRAT FAITENS AFFROX. 12 WIDE.	47-56310	(563A)	PE	11.6	[328.4]	16.6	[470.0]	22.2	[628.6]	16.0	[406.4]
THIN	47-56310	(563A)	PE	5.1	[144.4]	8.7	[246.3]	12.2	[345.4]	11.0	[279.4]
16–20 Secs. — No. 2 Zahn	47-56500	(565)	SE	11.0	[311.4]	15.2	[430.4]	19.5	[552.1]	13.0	[330.2]
Sealers, Primers, Lacquers, Inks, Lubricants, Zinc Chromates, Acrylics	47-56310	(563A)	PI	3.1	[87.78]	5.2	[147.2]	6.4	[181.2]	12.0	[304.8]
Eablicante, Ene enformates, 7 dignes	47-56310	(563A)	PI	3.9	[110.4]	5.5	[155.7]	7.4	[209.5]	9.0	[228.6]
MEDIUM	47-56310	(563A)	PE	9.0	[254.8]	14.3	[404.9]	20.0	[566.3]	14.0	[355.6]
19–30 Secs. — No. 2 Zahn	47-56310	(563A)	PE	9.5	[269.0]	15.5	[438.9]	19.5	[552.1]	18.0	[457.2]
Lacquers, Syn. Enamels, Varnishes, Shellacs, Fillers, Primers, Epoxies,	47-56500	(565)	SE	7.9	[223.7]	12.0	[339.8]			11.0	[279.4]
Urethanes, Lubricants, Wax Emulsions	47-56500	(565)	SE	11.0	[311.4]	15.2	[430.4]	19.5	[552.1]	13.0	[330.2]
	47-56310	(563A)	PI	3.1	[87.78]	5.2	[147.2]	6.4	[181.2]	12.0	[304.8]
	47-56500	(565)	PI	3.9	[110.4]	5.5	[155.7]	7.4	[209.5]	9.0	[228.6]
HIGH SOLIDS Enamels	47-56500	(565)	PE	9.5	[269.0]	15.5	[438.9]	19.5	[552.1]	18.0	[457.2]
HEAVY (CREAM-LIKE)	47-56700	(567)	PE	9.5	[269.0]	14.9	[421.9]	19.5	[552.1]	12.0	[304.8]
Over 28 Secs. — No. 4 Ford	47-56800	(568)	PE	9.5	[269.0]	14.1	[399.2]	19.1	[532.1]	12.0	[304.8]
House Paint, Wall Paint (Oil, Latex), Block Sealers, Mill Whites, Vinyls, Acrylics, Epoxies, Gel Coats											
VERY HEAVY	47-56800	(568)	PE	9.5	[269.0]	14.1	[399.2]	19.1	[540.8]	12.0	[304.8]
Unaggregated, Block Fillers,	47-55900	(559)	PI	7.8	[220.8]	11.5	[325.6]	15.2	[430.4]	12.0	
Textured Coatings, Fire Retardants,	47-55900	(559)	PI	7.3	[206.7]	11.0	[311.4]	14.7	[416.2]	Rou	
Road Marking Paint, Bitumastics, Cellular Plastisols, Underbody, Roof Coatings	47-55900	(559)	PI	7.8	[220.8]	11.5	[325.6]	15.2	[430.4]	6.0	[152.4]
Central Hastisols, Onderbody, Noor Coatings	47-55900	(559)	PI	7.3	[206.7]	11.0	[311.4]	14.7	[416.2]	6.0	[152.4]
ADHESIVES	47-56310	(563A)	PE	9.0	[254.8]	14.3	[404.9]	20.0	[566.3]	14.0	[355.6]
Waterbase — White Vinyl Glue	47-56500	(565)	PE	9.5	[269.0]	15.5	[438.9]	19.5	[552.1]	15.0	[381.0]
Solvent Base — Neoprenes (Contact Cements)	47-56700	(567)	PE	9.5	[269.0]	14.1	[399.2]	19.1	[540.8]	12.0	[304.8]
	47-56300	(563)	PE	10.4	[294.4]	15.4	[436.0]	20.4	[577.6]	9.0	[228.6]
	47-56310	(563A)	PE	10.4	[294.4]	15.4	[436.0]	20.4	[577.6]	9.0	[228.6]
	47-56310	(563A)	PE	10.4	[294.4]	15.4	[436.0]	20.4	[577.6]	11.0	[279.4]
	47-56500	(565)	PE	14.2	[402.0]	21.2	[600.3]	20.4	[577.6]	10.0	[254.0]
	47-56500	(565)	PE	10.4	[294.4]					9.0	
	47-56500	(565)	PE / SE		[204.4]	4.2	[118.9]				und
	47-56500	(565)	PE	10.4	[294.4]	14.7	[402.0]	10.0	[[]]	9.0	[228.6]
CERAMICS &	47-56500 47-57402	(565) (574VT)	PE PE	9.5	[269.0]	14.2	[402.0] [424.7]	19.0 21.0	[538.0] [594.6]	18.0	[457.2] [330.2]
SIMILAR ABRASIVE MATERIALS	47-57402	(574VT) (577VT)	PE PE	12.1 10.0	[342.6] [283.1]	15.0 15.0	[424.7]	21.0	[594.6]	13.0 15.0	[330.2]
Glazes, Engobes, Porcelain Enamel	47-57702	(577VT) (578VT)	PE	9.5	[269.0]	15.0	[424.7]	19.1	[500.3]	12.0	[304.8]
CONCRETE CURING COMPOUNDS	47-56500	(565)	PI	3.1	[87.78]	5.2	[147.2]	6.4	[181.2]	15.0	[381.0]
MULTICOLOR PAINTS	47-56500	(565)	PI	3.1	[87.78]	5.2	[147.2]	5.7		15.0	[381.0]
	47-56800	(568)	PI			6.8	[192.5]			11.0	[279.4]
	47-56800	(568)	PI			9.8	[277.5]			15.0	[381.0]
NON-STICK COATINGS	47-56310	(563A)	PE	9.0	[254.8]	14.3	[404.9]	20.0	[566.3]	10.0	[254.0]
	47-56310	(563A)	PE	9.5	[269.0]	15.5	[438.9]	19.5	[552.1]	15.0	[381.0]
	47-56500	(565)	SE	7.9	[223.7]	12.1	[342.6]			7.0	[177.8]
HAMMERS	47-56310	(563A)	PE	9.0	[254.8]	14.3	[404.9]			14.0	[355.6]
	47-56500	(565)	PE	9.0	[254.8]	14.3	[404.9]			14.0	[355.6]
	47-56500	(565)	SE	7.9	[223.7]	12.1	[342.6]			7.0	[177.8]
WRINKLE ENAMELS	47-56310	(563A)	PE	9.0	[254.8]	14.3	[404.9]	20.0	[566.3]	10.0	[254.0]
	47-56500	(565)	PE	9.0	[254.8]	14.3	[404.9]	20.0	[566.3]	10.0	[254.0]
ZINC RICH COATINGS	47-57702	(577VT)	PE	9.5	[269.0]	14.1	[399.2]	19.1	[540.8]	12.0	[304.8]

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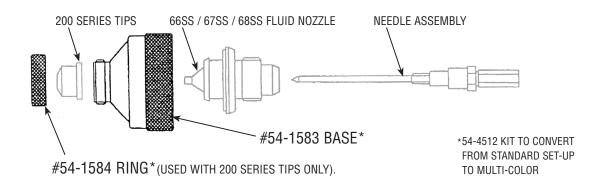
SPECIAL NOZZLES – INTERNAL MIX HEAVY MATERIAL



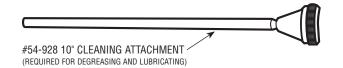
SPECIAL NOZZLES – INTERNAL MIX HEAVY MATERIAL



MULTI-COLOR CONVERSION KIT FOR 60 SERIES NOZZLES & 200 SERIES TIPS

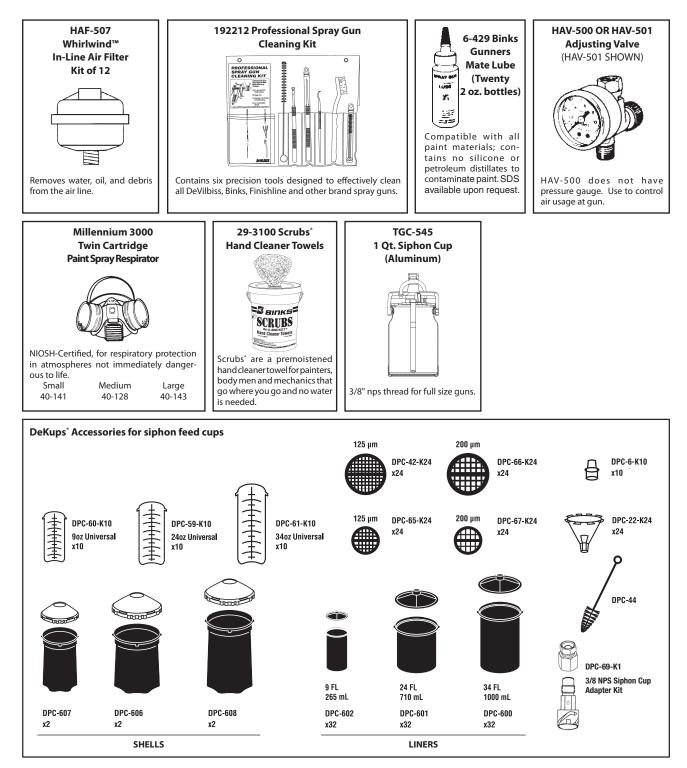


SPECIAL NOZZLE – CLEANING



EN

ACCESSORIES



NOTES

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