



Spray Equipment Tech Tips

Spray Equipment

There are many different choices when it comes to Spray Equipment, and the different ways to atomize paint materials. This document is not intended to be the definitive guide on Spray Equipment. Rather it provides a brief overview of the features, advantages and benefits of some of the spray devices found @ Touch Up Zone.



Preval Sprayer



Air Brush



Sprä Tool



Spray Gun

Spray Equipment / Preval Sprayer



Features, Advantages & Benefits



Complete Unit

- 1.94 ounce propellant sprayer w/pickup tube.
- 6 ounce clear glass jar with lid for safe storage.
- Quick color or product change by using different glass jars (additional jars sold separately).
- Optional spray handle (sold separately)
- Sprays almost any liquid – water based or solvent based.
- Propellant sprayer is reusable until depleted.
- Great for Car, boat, equipment and more.
- Produces a fine, even mist.
- Disposable.
- Recyclable.
- Economical – costs less than a Spray Gun.
- Does not require a compressor.
- Great for refinishing smaller areas.
- Very Easy to use.
- Can paint multiple colors at one time by simply changing the 6 ounce glass jar.



Power Unit

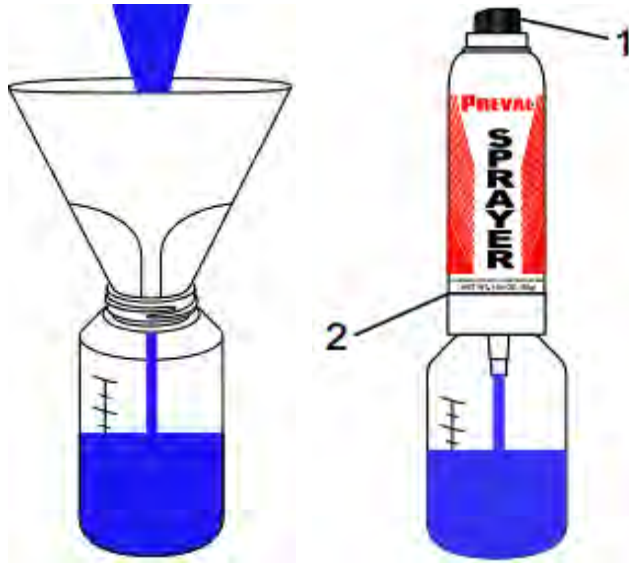


6 Pack of Jars



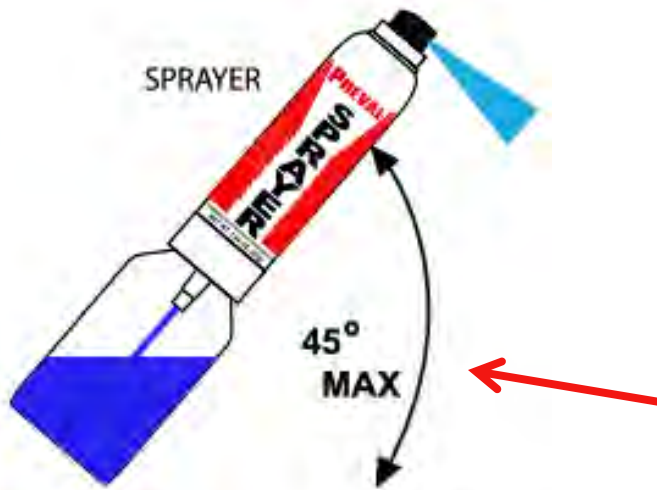
vGrip Universal Handle

Spray Equipment / Preval Sprayer



Prepare

- Strain paint using a medium mesh (225-226 micron) strainer.
- For thicker paint, remove built in strainer from dip tube.
- Thin paints and finishes using instructions supplied by the manufacturer (most Touch Up Zone products are ready-to-spray and do not require additional tinning).
- Fill container to desired level.
- Do not fill the container above the line on the shoulder.
- Attach power unit, and align red insert (1) opposite air vent (2) on coupler.
- Never shake the container once it has been attached to the power unit.



Prime

- Spray for 15 seconds to prime valve with product.
- If clogged, clean and make sure materials are not too thick.
- If after 15 seconds it starts spraying there is no need to back flush.
- If spraying it is primed, and you are ready to paint.

Note: The power unit is vented. Do not tip beyond 45° or liquid will run out the air vent preventing efficient performance. The actuator orifice is .032 inches. Never shake the power unit.

Spray Equipment / Preval Sprayer



Paint

- Practice spraying on a piece of cardboard or scrap metal if you have never used a PREVAL® sprayer.
- Start spraying with the sprayer in motion and release the button while the sprayer is still moving at the end of the stroke to avoid runs.
- Overlap strokes 35%-50%, but do not tip past 45°.
- Hold the sprayer upright, 6" to 10" from the surface being sprayed (5" with lacquers and other quick drying finishes).
- If you are too close to the surface, paint will build up too quickly and will run.
- If you are too far away from the surface, the paint will dry before it reaches the surface and dimpling will result.
- Keep the sprayer moving constantly.
- For best results apply 2 or more thin coats as opposed to 1 thick coat.
- Spray at temperatures above 60° F (15.5° C).
- If the Preval power unit becomes too cold from continuous spraying, you may see sputtering or a decrease in power. Let the unit rest until it reaches room temperature before trying to spray again.
- If this does not work, wrap the unit with a warm towel to continue spraying.



**Use vGrip Universal Handle
for more of a spray gun feel.**

Spray Equipment / Sprä Tool



Kit (8209)

Features, Advantages & Benefits

- Kit comes with 6.5 Ounce Power Pack, 6 Ounce Plastic Jar, and Snap On Spray Head with 3 Spray Tips for Light, Medium and Heavy bodied materials.
- The Spra-Tool operates on the same principle as a commercial spray gun, without bulky equipment.
- It will atomize nearly any liquid, including water based paint.
- Spra Tool is good for covering scratches and other paint blemishes on cars, boats, and equipment.
- Economical – costs less than a Spray Gun.
- Does not require a compressor.
- Great for refinishing smaller areas.
- Very Easy to use.
- Can paint multiple colors at one time by simply changing the 6 ounce plastic jar.



Power Pack (8211)



6 Oz Plastic Jar (8211)



Snap On Spray Head (8213)

Spray Equipment / Sprä Tool



Painting

- Practice spraying on a piece of cardboard or scrap metal if you have never used a Sprä Tool sprayer.
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Spray Equipment / Air Brush



CPN 95810 Air Brush Kit

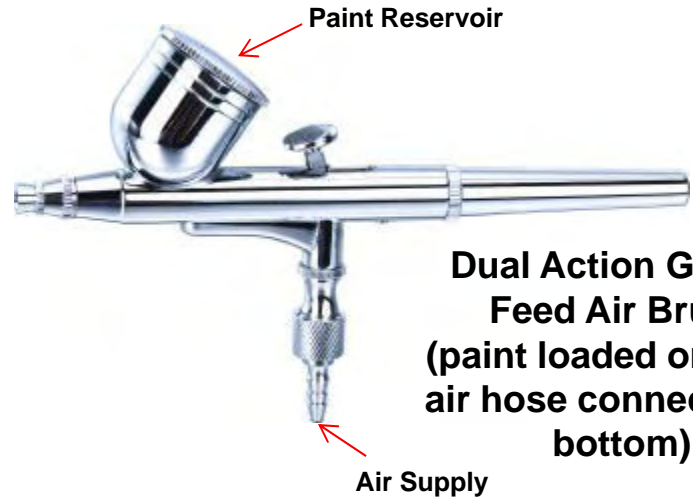
Features, Advantages & Benefits

- Very precise control, allowing you to touch up very small areas without a lot of overspray.
- If using multiple jars, you have the convenience of quick color or product changes (additional jars sold separately).
- You can use with a small portable compressor, or with a can of compressed air.
- Not great for painting larger areas (not a large spray pattern).
- Does require clean up afterwards.
- Single Action Air Brushes have a trigger that controls only the airflow. The amount of material being sprayed is adjusted by turning/setting a needle (color) adjustment screw. When the trigger is depressed, a pre-set amount of material is sprayed.
- A Single Action Air Brush is simpler for applying uniform even coats of color without any notable shade or tone variation, and is almost always preferred for single color and automotive touch up spray applications.
- Dual Action Air Brushes have a trigger that controls both air and material flow (press down on the trigger for air, pull back on the trigger for material flow adjustment). This style airbrush allows the user to adjust line width while spraying.
- A Dual Action Air Brush is preferred for shading effects and color gradations, as well as being more proficient for detail airbrush applications and truer realism effects preferred by Air Brush Artists. 8

Spray Equipment / Air Brush



Single Action Siphon Feed Air Brush
(bottle loaded on bottom & air hose connected on bottom)



Dual Action Gravity Feed Air Brush
(paint loaded on top & air hose connected on bottom)



Air Brush Hose



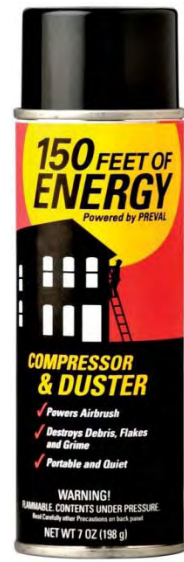
Air Brush Bottles



Oilless Compressor
(Must plug into electrical source)



Air Brush Holder



Portable Compressed Air

Spray Equipment / Spray Guns



**Siphon Feed Spray Gun
MAX W9814**



**Siphon Feed Spray Gun
CPN 69708**

Tips for Using Spray Guns

- Spray Guns provide excellent atomization of paint finishes, and are what most professional painters use to apply automotive finishes.
- Spray guns required compressed air to operate.
- Spray guns require cleaning and maintenance to continue performing optimally.
- Gravity Feed spray guns (pictured top left) have the spray cup on top of the gun.
- Siphon Feed spray guns (pictured bottom left) have the spray cup on the bottom of the gun.
- Pressure Feed spray guns (not pictured) uses fluid and air hoses to connect to a pressure pot (which is pressurized with compressed air). Pressure Feed guns are great for spraying very large surfaces such as tractor trailers.
- Both Gravity Feed and Siphon Feed spray guns atomize paint finishes very well, and you can purchase different fluid tip set ups to spray different types of materials. Some general recommendations on using fluid tips is outlined below:
 - Heavy-bodied primers and primer surfacers work best when you use a nozzle size of 1.7 to 2.2.
 - Basecoats should be sprayed with a 1.2 to 1.4 nozzle.
 - Clearcoats should be sprayed with a 1.4 to 1.6 nozzle.
 - Sealers and single-stage urethanes should be sprayed with 1.5 to 1.8 nozzles.
- To be compliant with EPA regulations, spray guns must be High Volume Low Pressure or HVLP, have a minimum transfer efficiency (paint applied to surface and not sprayed in the air) of 65%, and have no more than 10 psi at the air cap. This pertains to all spray guns with cup sizes larger than 3 ounces. ¹⁰

Spray Equipment / Spray Guns



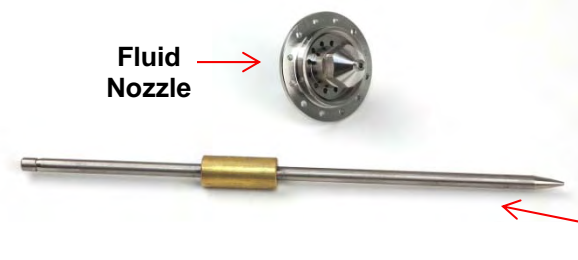
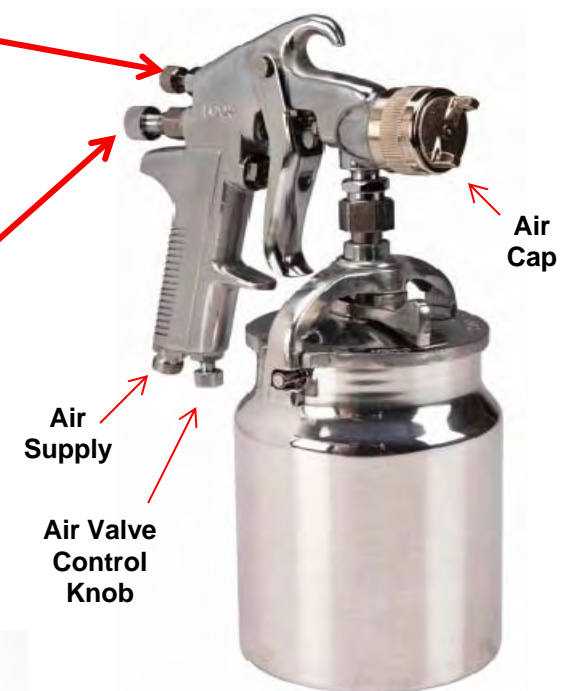
**Siphon Feed Spray Gun
MAX W9814**

**Siphon Feed Spray Gun
CPN 69708**



Fan Control
(Controls your spray fan pattern).

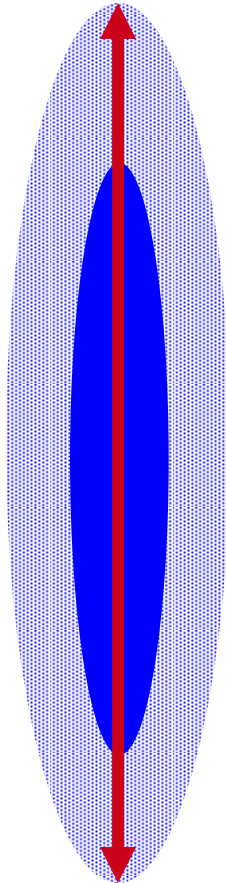
Fluid Control Adjustment
(Controls the amount of material being sprayed).



Spray Equipment / Spray Gun Patterns

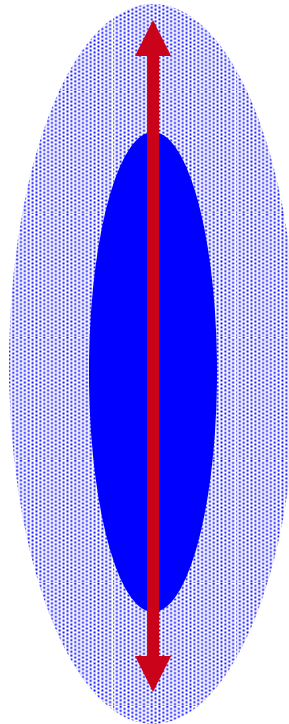


Base Color Spray
Pattern



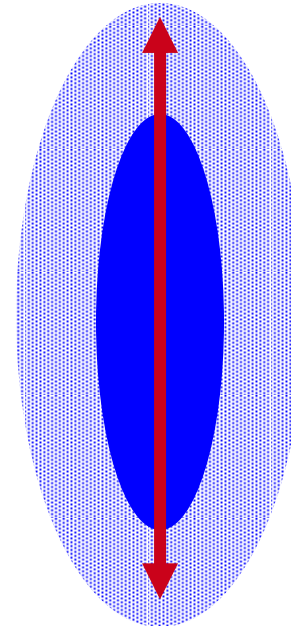
Spray pattern size
~ 8 - 10 inches
1.2 to 1.4 Nozzle

Clear & Gloss Color
Spray Pattern



Spray pattern size
~ 7 - 9 inches
1.4 to 1.6 Nozzle

Primer Filler &
Sealer



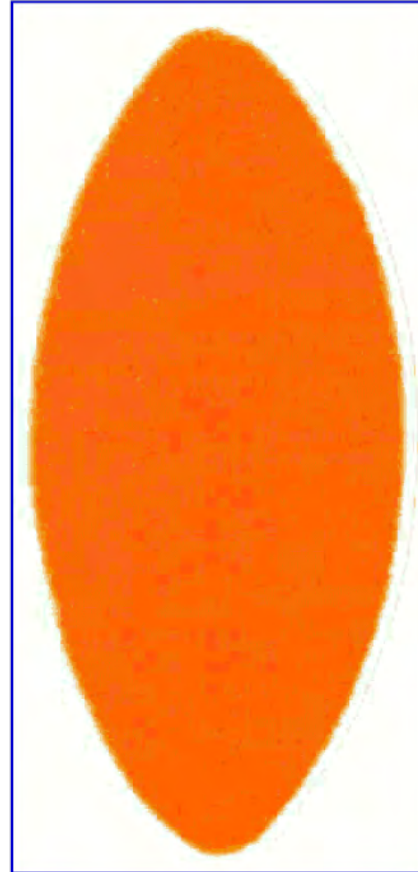
Spray pattern size
~ 5 - 7 inches
1.8 to 2.0 Nozzle

Spray Equipment / Trouble Shooting



Heavy Center Pattern

- Viscosity too high
- Air or material pressure incorrectly set
- Nozzle too large.

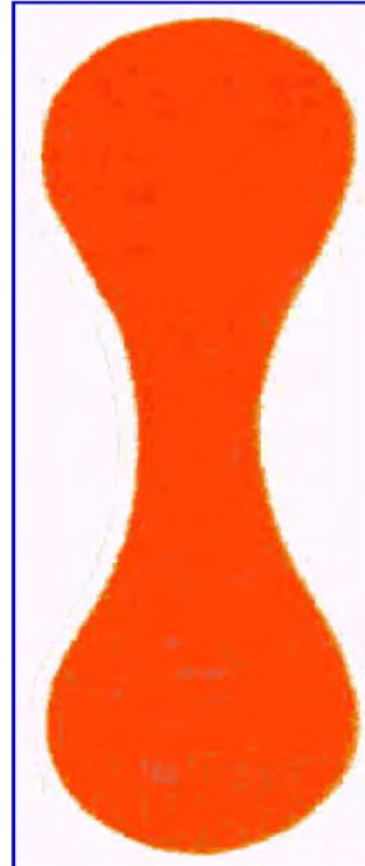


Spray Equipment / Trouble Shooting



Split Spray Pattern

- Supply of paint too low
- Air or material pressure incorrectly set.

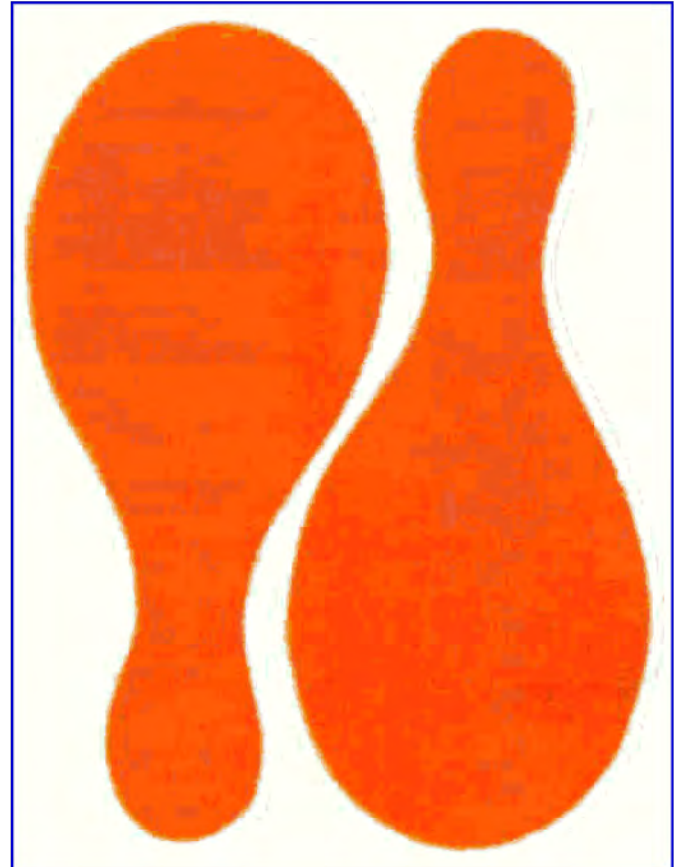


Spray Equipment / Trouble Shooting



Heavy Top or Bottom Pattern

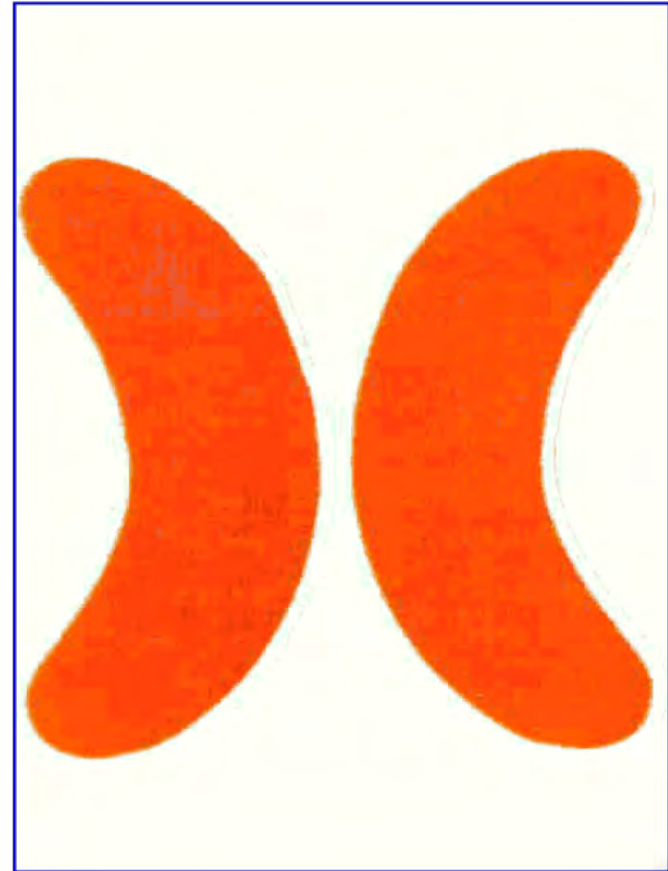
- Nozzle or air cap dirty
- Clean air cap carefully
- Replace air cap and/or nozzle, including fluid needle, if necessary.



Spray Equipment / Trouble Shooting

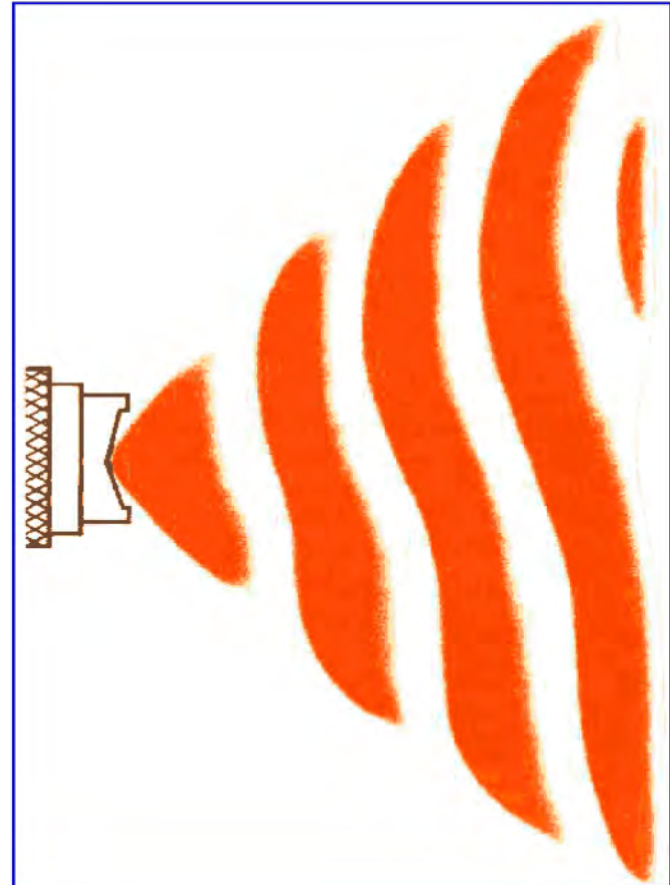
Heavy Right or Left Side Pattern

- Nozzle or air cap soiled
- Clean air cap and air nozzle carefully
- Replace air cap and/or nozzle, including fluid needle, if necessary.



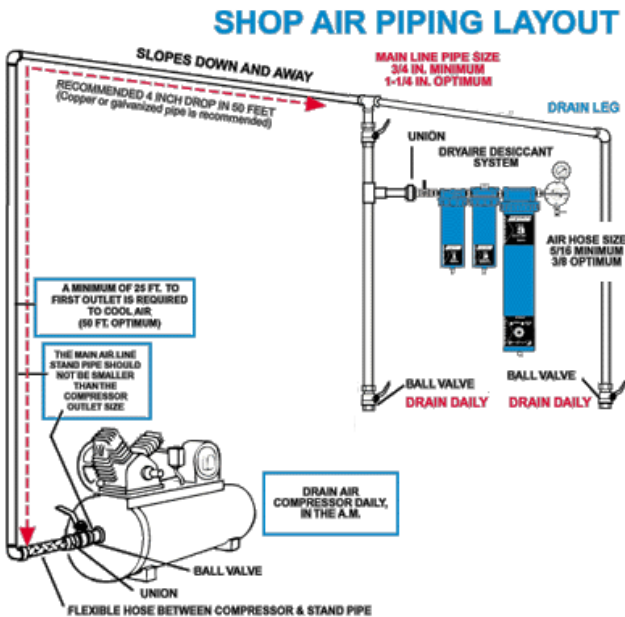
Spitting or Fluttering

- Flow of material interrupted or insufficient paint in gun
- Nozzle loose
- Fluid needle packing or packing screw loose
- Vent hole clogged.



Spray Equipment / Best Practices

- Always use sufficient compressed air to power your spray gun or air brush. This is especially critical with HVLP spray guns.
- Air must be clean and dry: free from oil, dust, condensation, dirt, and silicone.
- The pressure in the piping system must remain constant for spray guns (make sure your compressor is suited to run your spray gun).



Air Supply Layout



Air Regulator



In Line Air Filters

Spray Equipment / Best Practices



- Always use a strainer to filter out any debris before it gets into your paint finish.



- Red
- Coarse Mesh
- 177 Micron
- PN 81-84
- Use for Primer Fillers



- Blue
- Medium Mesh
- 149 Micron
- PN 81-83
- Use for Clears & Gloss Color



- White
- Fine Mesh
- 100 Micron
- PN 81-82
- Use for Base Color



- White
- Economy Paper Filter
- 190 Micron
- PN XL-STR
- Use for Primer

Spray Equipment / Best Practices



- Always clean your equipment after use.



- Enclosed Spray Gun Cleaner
- EPA Compliant



- Enclosed Air Brush Cleaner
- EPA Compliant
- CPN 68154



- Spray Gun Cleaning Set
- CPN 99634



- Air Brush Cleaning Set
- CPN 68155



Spray Equipment Tech Tips

Please email any questions that you may have to
info@touchupzone.com