

# Conventional Series Features and Benefits

## Durability

- 1 300-grade stainless steel fluid passages offer waterborne compatibility, corrosion resistance and protection from harsh, self-etching primers.
- 2 Drop forged aluminum gun bodies are strong, durable and lightweight.
- 3 Trigger strike pad makes trigger action smooth and extends air valve life.
- 4 Trigger is designed with reinforced wear points.
- 5 All gun components have been life cycle tested to ensure reliability in production environments.
- 6 Long-life needle packings.

## Performance

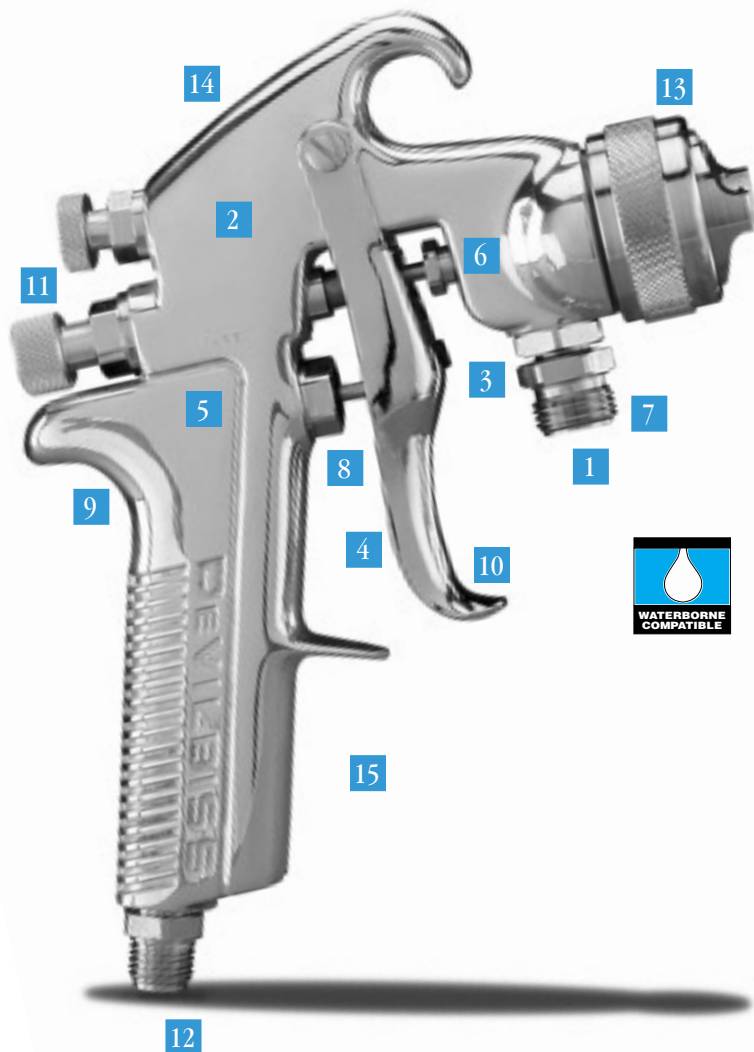
- 7 Dual-seal fluid inlet assures a positive seal.
- 8 Cartridge-type air valve is designed for positive sealing and quick trigger action.
- 9 Lightweight and precision-balanced for operator comfort.
  - Sized to fit both the operator and the application, in standard-size and mid-size models.

## Easy to Use

- 10 Large “two-finger” trigger provides light trigger action for easy operation and comfort.
- 11 Knurled knobs for easy adjustment of pattern and fluid flow.
- 12 1/4" air inlet connects to any standard compressor system.

## Maintenance

- 13 Replaceable baffle with aluminum air cap retaining ring threads eliminates the need to replace the gun body, should threads become damaged.
- 14 Simple, straightforward design for easy care and maintenance.
- 15 Economical replacement parts are available and easy to install.



# Selecting Conventional Air Spray Guns

GUN MODEL	USAGE/MATERIALS	PAGE NO.	FEED TYPE	CONSTRUCTION	
				BODY	WETTED PARTS
<i>Manual Spray High Production</i>					
JGA-510	General Purpose, Standard Finishes	20	Pressure Suction	Drop-Forged Aluminum	300, 400-Grade Stainless Steel
MSA-510	General Purpose, Standard Finishes	21	Pressure Suction	Drop-Forged Aluminum	300, 400-Grade Stainless Steel
MBC-510	General Purpose, Standard Finishes	22	Pressure Suction	Drop-Forged Aluminum	400-Grade Stainless Steel Plated Brass
<i>Manual Spray Special Purpose</i>					
EGA-503	Detail, Touch-Up, Standard Finishes	23	Pressure Suction	Drop-Forged Aluminum	400-Grade Stainless Steel Aluminum
GFG-618	Gravity Feed Standard Finishes	24	Gravity	Drop-Forged Aluminum	300, 400-Grade Stainless Steel, Aluminum Cup
<i>Automatic Spray</i>					
AGX-550	Most Common Materials	25	Pressure Circulating	Machined Aluminum	300, 400-Grade Stainless Steel Teflon®
AGX-552	Abrasive Materials	25	Pressure Circulating	Machined Aluminum	300, 400-Grade Stainless Steel Carbolloy, Teflon®
AGX-553*	Waterbornes, Mildly Abrasive/Corrosive Mtrls.	25	Pressure Circulating	Machined Aluminum	300-Grade Stainless Steel Teflon®
AGF-506	Compact, Standard Finishes	26	Pressure	Cast Alloy (Aluminum)	400-Grade Stainless Steel, Aluminum

\* Models include "premium" fluid tip constructed of 300-grade stainless steel with U.H.M.W. polyethylene insert (needle seat) for extended service life.

# JGA Standard-Size Manual Spray Gun

Setting industry standards for high-production performance, the JGA standard-size manual spray gun also offers the comfortable fit and feel operators prefer. An economical option for waterborne and solvent-based material applications, the JGA stainless steel air spray gun delivers the quality results you need for tough applications.

- 300-grade stainless steel fluid passages offer waterborne compatibility, corrosion resistance and protection from harsh self-etching primers.

For gun, cap and tip information see charts on pages 28 & 29.

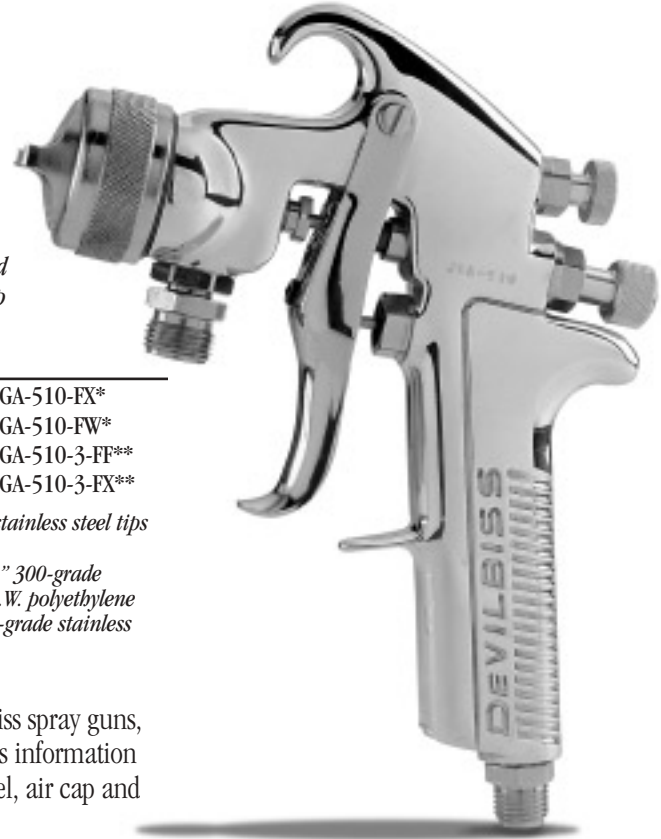
## Productivity and Finish Quality

The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination.

## Ordering Information

The JGA standard-size spray gun is available with the following air cap and fluid tip set-ups, factory-assembled for immediate delivery. However, these are only the most popular set-ups – for other air cap and tip combinations that can be ordered separately, see the charts on pages 28 and 29.

Part No.	
JGA-510-30EX	JGA-510-765E
JGA-510-704E	JGA-510-765FF
JGA-510-704FF	JGA-510-765EX
JGA-510-704FX	JGA-510-797FF
	JGA-510-80EX



*These guns with fluid tip and needle can be ordered separately without air cap and retaining ring:*

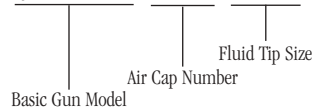
Part No.	
JGA-510-D*	JGA-510-FX*
JGA-510-E*	JGA-510-FW*
JGA-510-EX*	JGA-510-3-FF**
JGA-510-FF*	JGA-510-3-FX**

\* Models include 400-grade stainless steel tips and needles.

\*\* Models include "premium" 300-grade stainless steel tip with U.H.M.W. polyethylene insert (needle seat) and 300-grade stainless steel needle.

When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.

Example: JGA-510-



## Technical Specifications

Body:	Drop forged aluminum
Weight:	21.6 oz. (613 gr) with air cap and ring
Air Inlet:	100 psi max, 1/4" NPS (M)
Fluid Inlet:	150 psi max, 3/8" NPS (M)
Fluid Passages:	300-grade stainless steel
Feed Type:	Pressure feed Suction feed (EX)
Service Bulletin:	SB-2-252
Gun Repair Kit:	KK-4987-2

## Accessories

- Hose assemblies, air control, pressure tanks, cups, gun and hose cleaning equipment and other accessories are also available.
- For optional tip and needle sets, see page 29.

# MSA Mid-Size Manual Spray Gun

Designed to help reduce operator fatigue while offering excellent comfort and control, the MSA mid-size spray gun is lighter and more compact than our standard-size JGA gun. That means you get the same quality and high-efficiency performance provided by our JGA-Plus spray gun, in a smaller model that weighs only 17 ounces.

- 300-grade stainless steel fluid passages offer waterborne compatibility, corrosion resistance and protection from harsh self-etching primers.
- Air caps and replacement parts are interchangeable with JGA spray guns (the air inlet fitting is the only exception).

## Productivity and Finish Quality

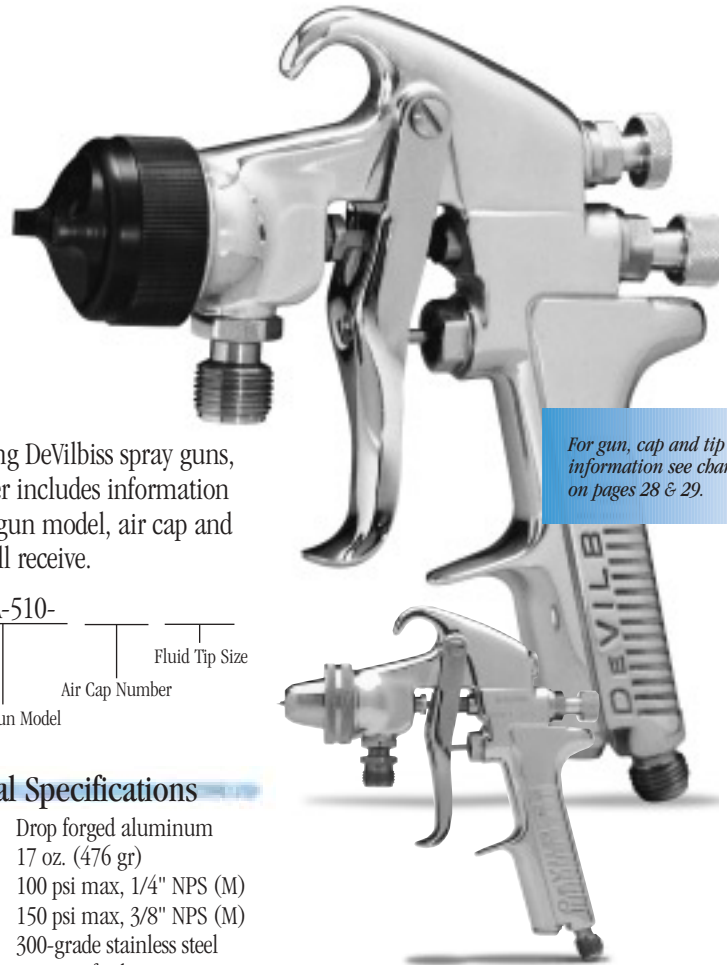
The productivity and finish quality of any DeVilbiss conventional air spray gun are determined by the air cap and fluid tip combination.

*These guns with fluid tip and needle can be ordered separately without air cap and retaining ring:*

Part No.	
MSA-510-E*	MSA-510-3-E**
MSA-510-EX*	MSA-510-3-FF**
MSA-510-FF*	MSA-510-3-FX**
MSA-510-FX*	

\* Models include 400-grade stainless steel tips and needles.

\*\* Models include "premium" 300-grade stainless steel tip with U.H.M.W. polyethylene insert (needle seat) and 300-grade stainless steel needle.



When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.

Example: MSA-510-  

	Air Cap Number	Fluid Tip Size
Basic Gun Model		

## Technical Specifications

Body:	Drop forged aluminum
Weight:	17 oz. (476 gr)
Air Inlet:	100 psi max, 1/4" NPS (M)
Fluid Inlet:	150 psi max, 3/8" NPS (M)
Fluid Passages:	300-grade stainless steel
Feed Type:	Pressure feed
	Suction feed
Service Bulletin:	SB-2-257
Gun Repair Kit:	KK-4987-2

## Accessories

- Hose assemblies, air control, pressure tanks, cups, gun and hose cleaning equipment and other accessories are also available.
- For optional tip and needle sets, see page 29.

## Decorator Spray Gun MSA-510-DEC

The MSA-510-DEC decorator spray gun features a spatter cap to create decorative textured finishes.

## Technical Specifications

Body:	Drop forged aluminum
Weight:	18.4 oz. (515 gr)
Air Inlet:	100 psi max, 1/4" NPS (M)
Fluid Inlet:	150 psi max, 3/8" NPS (M)
Fluid Passages:	300-grade stainless steel
Wetted Parts:	300 and 400-grade stainless steel
	Hardened alloy
Feed Type:	Pressure feed
Service Bulletin:	SB-2-319
Gun Repair Kit:	KK-4987-2

# MBC-510 Manual Spray Gun With Removable-Head

Combining a drop forged aluminum body with a forged removable spray head, the MBC-510 spray gun is ideal for applications that require maximum output and quick changeovers.

- Removable spray head allows for reduced downtime on nozzle combination changeovers.
- MBC spray guns have nickel-plated brass fluid passages and 400-grade stainless steel fluid tip and needle.

*For gun, cap and tip information see charts on pages 28 & 29.*

## Productivity and Finish Quality

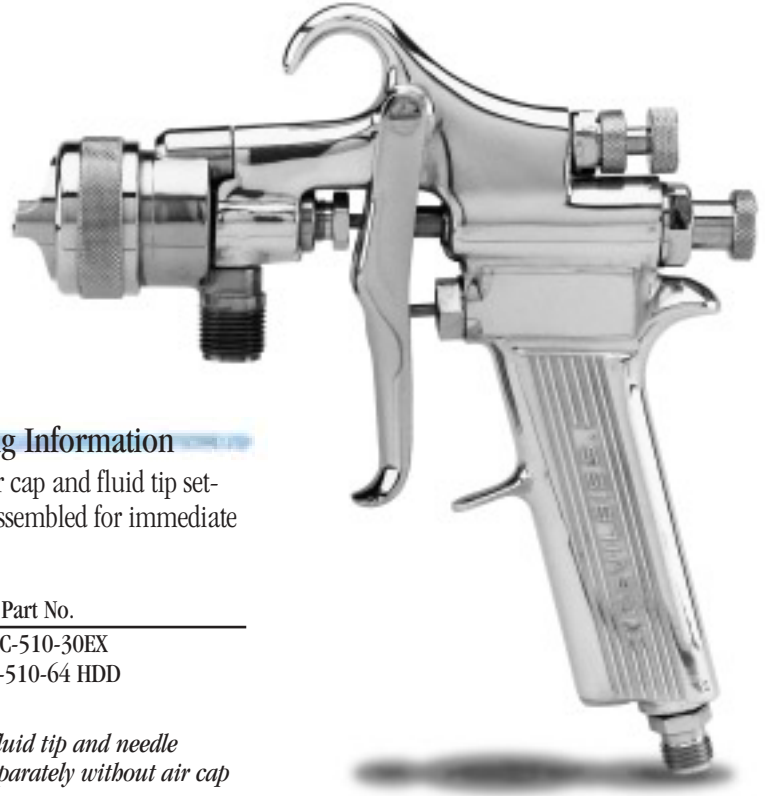
The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination

## Technical Specifications

Body:	Drop forged aluminum
Weight:	27 oz. (756 gr) with air cap and ring
Air Inlet: (M)	100 psi max, 1/4" NPS
Fluid Inlet: (M)	100 psi max, 3/8" NPS
Fluid Passages:	Nickel-plated brass
Wetted Parts:	Nickel-plated brass 400-grade stainless steel
Feed Type:	Pressure feed Suction feed
Service Bulletin:	SB-2-301
Gun Repair Kit:	KK-4058-1

## Accessories

- Hose assemblies, air control, pressure tanks, cups, gun and hose cleaning equipment and other accessories are available.



## Ordering Information

The following air cap and fluid tip set-ups are factory assembled for immediate delivery.

### Part No.

MBC-510-30EX  
MBC-510-64 HDD

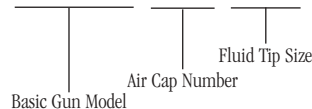
*These guns with fluid tip and needle can be ordered separately without air cap and retaining ring:*

### Part No.

MBC-510-AC	MBC-510-EX
MBC-510-D	MBC-510-FF
MBC-510-E	MBC-510-FX

When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.

*Example:* MBC-510-



# EGA Touch-Up Manual Spray Gun

The gun of choice for touch-up, shading, edging and detail decorating, the EGA touch-up gun provides precise control for any type of delicate spray finishing applications. The gun features a forefinger trigger to enhance operator control, and a long needle taper to make detail work easy.

- Equipped with stainless steel tip and needle.
- Knurled knobs allow fine spray adjustments for fluid and pattern control.

## Productivity and Finish Quality

The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination.

## Ordering Information

The EGA touch-up gun is available with the following air cap and fluid tip set-up, factory-assembled for immediate delivery.

Part No.

EGA-503-390F



*For gun, cap and tip information see charts on pages 28 & 29.*

## Technical Specifications

Body:	Drop forged aluminum
Weight:	7 oz. (196 gr) with air cap and ring
Air Inlet:	1/4" NPS (M)
Fluid Inlet:	1/4" NPS (M)
Wetted Parts:	Aluminum 400-grade stainless steel
Feed Type:	Pressure feed Suction feed
Service Bulletin:	SB-2-163
Gun Repair Kit:	KK-5044

## Accessories

- Hose assemblies, air control, pressure tanks, cups, gun and hose cleaning equipment and other accessories are also available.

# GFG Gravity Feed Manual Spray Gun

Combining the advantages of gravity feed fluid delivery with advanced quality and performance, the GFG-618 conventional air spray gun offers high transfer efficiency for small applications that require full, uniform coverage. Fitted with a top-mounted gravity feed cup that makes filling simple and quick, the GFG-618 spray gun uses virtually every drop of paint in the cup, even when working with very small amounts of material.



Shown with E-Z Liner™ disposable cup liner

For gun, cap and tip information see charts on pages 28 & 29.

- 300-grade stainless steel fluid passages offer waterborne compatibility,

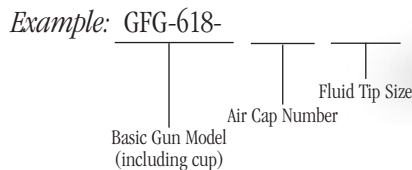
corrosion resistance and protection from harsh self-etching primers.

- Standard equipment includes a 32 ounce aluminum cup and booth-mount gun hook.
- Includes E-Z Liner™ disposable cup liners to speed-up cleaning, and allows upside-down spraying.
- Drip check in the cup lid virtually eliminates leaks and spills from the vent hole.

## Productivity and Finish Quality

The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination.

When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.



## Ordering Information

The GFG-618 gravity feed spray gun and cup is available with the following air cap and fluid tip set-ups, factory-assembled for immediate delivery.

Part No.
GFG-618-80FW
GFG-618-90FF*
GFG-618-90FW*

\* Models include #9000 air cap.

See pages 28 and 29 for Air Cap, Tip and Needle Selection Guide.

## Technical Specifications

Body:	Drop forged aluminum
Weight:	27.5 oz. (770 gr) with paint cup
Air Inlet:	100 psi max, 1/4" NPS (M)
Fluid Inlet:	3/8" BSP (F)
Wetted Parts:	300 and 400-grade stainless steel, aluminum cup
Feed Type:	Gravity feed
Service Bulletin:	SB-2-179
Gun Repair Kit:	KK-5025

## Accessories

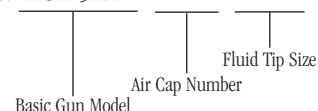
- 20 oz. delrin cup (GFC-501)
- 32 oz. aluminum cup (GFC-502).
- Disposable E-Z Liner™ cup liners (OMX-70-K48)
- Hose assemblies, air control, gun and hose cleaning equipment and other accessories are also available.

# AGX Automatic Spray Gun



When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.

*Example:* AGX-5XX-



*For gun, cap and tip information see charts on pages 28 & 29.*

Built to withstand the rigors of high-speed production lines and harsh finishing conditions, the AGX automatic air spray gun is engineered for rugged reliability. Designed for use with industrial robots, reciprocators and stationary mounting, the AGX spray gun's compact size allows mounting in tight areas.

- Simplified gun design for greater reliability and ease of maintenance.
- Detachable spray head for fast needle packing replacement.
- AGX-550 spray gun comes with a 400-grade stainless steel tip for use with many waterborne materials and chlorinated solvents. AGX-552 guns are specially equipped with carbolloy fluid tip and needle for use with water-mix materials and abrasives. AGX-553 guns include "premium" 300-grade stainless steel fluid tip with U.H.M.W. polyethylene insert (needle seat) and 300-grade stainless steel needle for use with mildly abrasive or corrosive materials. All AGX models include 300-grade stainless steel fluid passages.
- Circulating capability standard.

## Productivity and Finish Quality

The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination.

## Ordering Information

AGX spray guns are available with the following air cap and fluid tip set-ups, factory-assembled for immediate delivery.

### Part No.

AGX-550-704E
AGX-550-704FF
AGX-550-704FX

*These guns with fluid tip and needle can be ordered separately without air cap and retaining ring:*

### Part No.

AGX-550-AC	AGX-552-D
AGX-550-D	AGX-552-EE
AGX-550-E	AGX-552-FF
AGX-550-FF	AGX-553-E
AGX-550-FX	AGX-553-FF
AGX-550-G	AGX-553-FX
AGX-552-AC	

See pages 28 and 29 for Air Cap, Tip and Needle Selection Guide.

## Technical Specifications

Body:	Machined aluminum
Weight:	26 oz. (728 gr) without mounting stud 30.5 oz. (854 gr) with mounting stud
Air Inlet:	100 psi max, 1/4" NPS (M)
Cylinder Air Pressure:	100 psi max, 50 psi min.
Fluid Inlet:	100 psi max, 3/8" NPS (M)
Wetted Parts:	
AGX-550	300 & 400-grade stainless steel, Teflon®
AGX-552	300 & 400-grade stainless steel, Carbolloy, U.H.M.W. polyethylene
AGX-553	300-grade stainless steel, U.H.M.W. polyethylene, Teflon®
Mounting Stud:	3/4" dia.
Service Bulletin:	SB-2-624
Gun Repair Kit:	KK-4992-1

## Accessories

- Convert to HVLP by changing the spray head, air cap and baffle. See Service Bulletin SB-2-628.
- Fluid regulators, fluid strainers, air control, gun and hose cleaning equipment and other accessories are also available.
- KK-5046 Mounting block kit for mounting gun on 1/2" rod.
- Fan control kit – for remote operation (KK-4955)



# AGF Compact Automatic Spray Gun

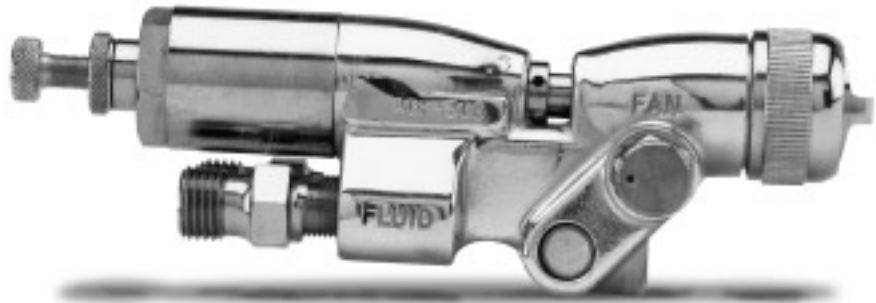
The AGF compact automatic air spray gun is designed for use with conventional materials. Ideal for applying coatings and finishes to small manufactured parts, the AGF spray gun works well in a wide range of automatic and semi-automatic production situations.

- Compact gun size allows mounting in limited spaces.
- Adaptable to multi-gun configuration environments.

## Productivity and Finish Quality

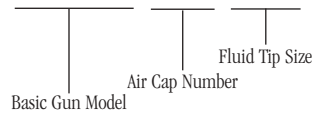
The productivity and finish quality of any DeVilbiss conventional air spray gun is determined by the air cap and fluid tip combination.

*For gun, cap and tip information see charts on pages 28 & 29.*



When ordering DeVilbiss spray guns, the part number includes information on the specific gun model, air cap and fluid tip you will receive.

*Example:* AGF-506-



See pages 28 and 29 for Air Cap, Tip and Needle Selection Guide.

## Technical Specifications

Body:	Cast aluminum alloy
Weight:	16 oz. (448 gr)
Air Inlet:	100 PSI Max, 1/4" NPS (M)
Fluid Inlet:	100 PSI Max, 1/4" NPS (M)
Wetted Parts:	Aluminum 400-grade stainless steel
Mounting Hole:	3/8" dia.
Piston Op. Pressure:	60 psi min.
Service Bulletin:	SB-2-781

## Accessories

- Fluid regulators, fluid strainers, air control, gun and hose cleaning equipment and other accessories are also available.

## Ordering Information

AGF-506 spray guns are available with the following air cap and fluid tip set-ups, factory-assembled for immediate delivery.

Part No.
AGF-506-90F
AGF-506-92E

# DGD-515 Duster Gun

The DGD-515 duster gun, constructed of reinforced composite material, features an angled extended nozzle for effective removal of dirt from flat and recessed surfaces. Its lightweight, ergonomic design features a comfortable, four finger trigger with variable trigger flow and complies with OSHA federal safety standards.

## Technical Specifications

Air Inlet:	1/4" NPT
Maximum Inlet Pressure:	185 psi
Air Consumption:	11 cfm @ 50 psi
Service Bulletin:	SB-3-146



# Selecting the Air Cap, Fluid Tip and Needle

The air cap directs compressed air into the material stream to atomize the fluid and form the spray pattern. The fluid tip and needle meter direct the flow of material from the gun into the air stream.

Because they all affect the quality of the spray pattern, the air cap, fluid tip and needle are usually selected as a unit. Together, these three items are referred to as the nozzle combination.

## Types of Air Caps

Air caps are defined by their methods of delivering and mixing the spray finishing materials. Delivery methods include pressure feed, suction feed and gravity feed. *Chart 1 depicts flow rate range, fluid tip size and recommended air caps for a typical product finish. See page 28 for more air cap details.*

## Types of Fluid Tips

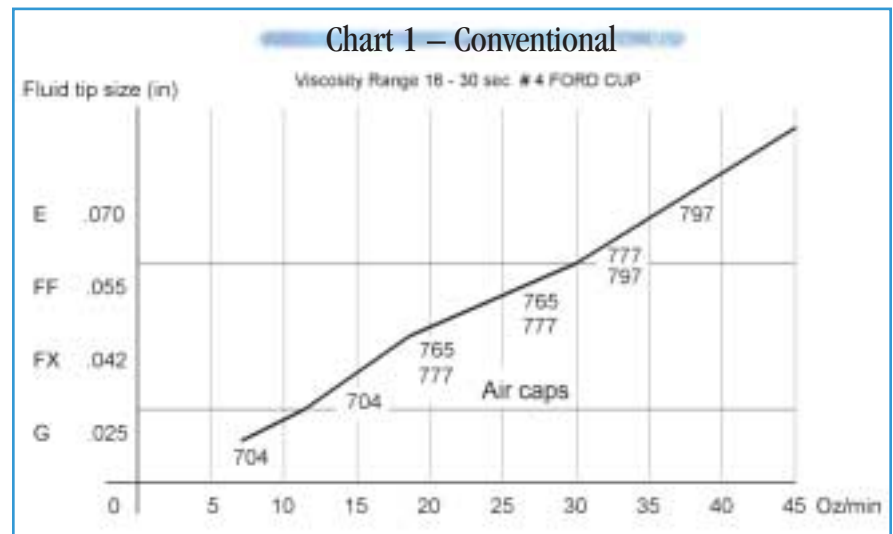
Fluid tips are made from a variety of metals. The application determines the type of fluid tip to use. Stainless steel tips are ideal for corrosive materials. The

standard tip on most DeVilbiss guns is 400-grade stainless steel; 300-grade “premium” fluid tips with U.H.M.W. polyethylene insert (needle seat) are also available. We also offer carbolloy fluid tips for extremely abrasive materials.

The amount of material discharged from a pressure feed gun depends on a number of factors: the material viscosity, the fluid tip inside diameter, the length and size of hose, and the pressure on the material. Generally, the larger the opening, the more material discharged.

However, if the fluid tip is too large, the operator will lose control over the material discharge. And if the fluid tip opening is too small, the discharge velocity will be too high. This means the air coming from the cap will not atomize the material properly, and the pattern will be distorted.

With a suction feed gun, the fluid flow in ounces per minute is relatively stable because it is determined by atmospheric pressure. It is also determined by the material viscosity and air cap pressure.



**Chart 2 – Flow Rates for Fluid Tips**

Fluid Tip	ID Size in (mm)	Flow Rate Or Material
<b>Pressure Feed</b>		
G	.028" (.70)	Up to 12 oz./min.
GX	.034" (.85)	Up to 16 oz./min.
F	.041" (1.0)	Up to 18 oz./min.
FX	.042" (1.1)	Up to 20 oz./min.
FF	.055" (1.4)	Up to 30 oz./min.
FW	.062" (1.6)	Up to 35 oz./min.
E	.070" (1.8)	40 oz./min. and over
EE	.070" (1.8)	Porcelain enamel
D	.086" (2.2)	Heavy-body materials
AC	.110" (2.8)	Heavy-body materials
<b>Suction Feed</b>		
EX	.070" (1.8)	Up to 12 oz./min.
<b>Gravity Feed</b>		
FF	.055" (1.4)	Up to 12 oz./min.
FW	.062" (1.6)	Up to 14 oz./min.

# Air Cap Selection Guide

TYPICAL MATERIALS	VISCOSITY RANGE <sup>(1)</sup>			AIR CAP MODEL NO.	AIR CAP PART NO.	OPERATING RANGE		TYPICAL PATTERN SIZE IN. (MM)	FLUID TIP NO. & SIZE IN. (MM)	TYPE OF FEED <sup>(2)</sup>
	LOW	MED	HIGH			PSI	SCFM			
Adhesives		•	•	24	AV-40-24 <sup>(3)</sup>	50	14	4-7 (100-175)	D .086 (2.2) E .070 (1.8) FF .055 (1.4)	P
Enamels, Lacquers, Metallics	•	•		30	MB-4039-30 <sup>(9)</sup>	50	12	8-10 (200-250)	EX .070 (1.8) FF .055 (1.4) FX .042 (1.1)	S
Gen. Purpose	•	•		35L	AV-1239-35L <sup>(4)</sup>	50	4.8	4-6 (100-150)	E .070 (1.8) FF .055 (1.4) FX .042 (1.1)	P, S
Gen. Purpose, Enamels, Lacquers	•			58	AV-439-58 <sup>(9)</sup>	40	6	9 (225)	E .070 (1.8) EX .070 (1.8) FF .055 (1.4) FX .042 (1.1)	P, S
Heavy Body			•	62HD	MB-4039-62HD <sup>(9)</sup>	80	19	8 (200)	AC .110 (2.8)	P
Porcelain Glazes			•	64HD	MB-4039-64HD <sup>(9)</sup>	80	22	13-14 (325-350)	D .086 (2.2)	P
Gen. Purpose, Enamels, Lacquers	•	•		80	MB-4039-80 <sup>(9)</sup>	60	14	13 (325)	EX .070 (1.8) FW .062 (1.6) FF .055 (1.4)	S, G
Gen. Purpose, All Finishes		•		704	AV-1239-704 <sup>(5)</sup>	70	21	10-12 (250-300)	E .070 (1.8) FF .055 (1.4) FX .042 (1.1)	P
Metallics, High Solids		•	•	765	AV-1239-765 <sup>(5)</sup>	80	22	15 (375)	E .070 (1.8) FF .055 (1.4)	P
Automotive, High Solids, Base/Clear Coats, Urethanes		•	•	777	31767-777 <sup>(5)</sup>	70	23	13-14 (325-350)	E .070 (1.8) FF .055 (1.4)	P
Automotive, Metallics High Solids		•	•	797	AV-1239-797 <sup>(5)</sup>	70	21	17 (425)	E .070 (1.8) FF .055 (1.4)	P
Gen. Purpose, Automotive Finishes	•	•	•	9000	AV-440-9000 <sup>(9)</sup> AV-9000 <sup>(10)</sup>	45	12	10 (250)	FW .062 (1.6) FF .055 (1.4)	G, S
Gen. Purpose, Stains, Lacquer Sealers	•			90 <sup>(7)</sup>	CV-39-90 <sup>(5)</sup>	40	4	4.5 (112)	F .042 (1.1)	P, S
Heavy Body, Primers		•	•	92 <sup>(7)</sup>	CV-439-92 <sup>(9)</sup>	50	6	4.5 (112)	E .070 (1.8)	P, S
Detail, Touch-Up, Stains, Lacquer	•			390 <sup>(8)</sup>	EGA-40-390 <sup>(6)</sup>	30	3	3 (75)	F .042 (1.1)	P, S

(1) Viscosity Cup Reference:  
 Low = Up to 23 Seconds ZAHN #2  
 Medium = 23-28 Seconds ZAHN #2  
 High = 28+ Seconds ZAHN #2

(2) Type of Feed Reference:  
 G = Gravity  
 P = Pressure  
 S = Suction

(3) Retaining Ring Required: Part No. MBC-368 or MSA-1  
 (4) Retaining Ring Required: Part No. MSA-1 or MBC-368  
 (5) Retaining Ring Required: Part No. TGA-31  
 (6) Retaining Ring Required: Part No. EGA-11  
 (7) Used with AGF-506 Automatic Spray Gun  
 (8) Used with EGA-503 Manual Spray Gun  
 (9) Includes Retaining Ring  
 (10) Retaining Ring Required: Part No. MBC-368 or MSA-1

# Fluid Tip and Needle Selection Guide

GUN MODEL	FLUID TIP	TIP PART NO. <sup>(1,2)</sup>	NEEDLE PART NO.	LAPPED SET PART NO.
<b>400-Grade Stainless Steel Tips and Needles</b>				
JGA-510	AC	AV-650-AC	JGA-402-C	JGA-4040-AC
MSA-510	D	AV-650-D	JGA-402-DEX	JGA-4040-D
GFG-618	E	AV-650-E	JGA-402-E	JGA-4040-E
	EX	AV-650-EX	JGA-402-DEX	JGA-4040-EX <sup>(3)</sup>
	FF	AV-650-FF	JGA-402-FF	JGA-4040-FF
	FW	AV-650-FW	JGA-402-FF	JGA-4040-FW <sup>(3)</sup>
	FX	AV-650-FX	JGA-402-FX	JGA-4040-FX
	GX	AV-650-GX	JGA-402-GX	JGA-4040-GX
MBC-510	AC	AV-650-AC	MBC-496-C	—
	D	AV-650-D	MBC-496-DEX	MBC-4395-D
	E	AV-650-E	MBC-444-E	MBC-4395-E
	EX	AV-650-EX	MBC-496-DEX	—
	FF	AV-650-FF	MBC-444-FF	MBC-4395-FF
	FX	AV-650-FX	MBC-444-FX	MBC-4395-FX
EGA-503	E	—	—	EGA-4000-E
	F	—	—	EGA-4000-F
AGX-550	AC	—	—	AGX-4402-AC
	D	—	—	AGX-4402-D
	E	—	—	AGX-4402-E
	FF	—	—	AGX-4402-FF
	FX	—	—	AGX-4402-FX
	G	—	—	AGX-4402-G
AGF-506	E	CV-30-E	AGF-404-E	—
	F	CV-30-F	AGF-404-F	—
<b>300-Grade Stainless Steel Tips and Needles (Tip includes U.H.M.W. polyethylene insert)</b>				
JGA-510	D	—	JGA-421-DEX	JGA-4056-D <sup>(3)</sup>
MSA-510	E	—	JGA-421-E	JGA-4056-E <sup>(3)</sup>
	FF	—	JGA-421-FF	JGA-4056-FF <sup>(3)</sup>
	FX	—	JGA-421-FX	JGA-4056-FX <sup>(3)</sup>
	G	—	JGA-421-G	JGA-4056-G <sup>(3)</sup>
AGX-553	E	—	—	AGX-4300-E <sup>(3)</sup>
	FF	—	—	AGX-4300-FF <sup>(3)</sup>
	FX	—	—	AGX-4300-FX <sup>(3)</sup>
MBC-510	D	—	—	MBC-4397-D <sup>(3)</sup>
	E	—	—	MBC-4397-E <sup>(3)</sup>
	FF	—	—	MBC-4397-FF <sup>(3)</sup>
<b>Carbolloy Tips and Needles</b>				
JGA-510	AC	AV-617-AC	—	—
MSA-510	D	AV-617-D	JGA-409-D	—
GFG-618	EE	AV-617-EE	JGA-409-DEEE	—
	FF	AV-617-FF	JGA-409-FF	—
AGX-552	D	—	—	AGX-4410-D
	EE	—	—	AGX-4410-EE
	FF	—	—	AGX-4410-FF

## Fluid Tip Replacement Guide

To assure a leak-free seal, lapped tip and needle sets are recommended (see selection chart). However, you can also order individual tips with gaskets. To replace an individual fluid tip, point the tip straight up and look for the part number on the outermost surface.

OLD TIP NO.	ORDER NEW TIP/GASKET NO.
AV-15-xx	AV-650-xx
AV-1115-xx	AV-650-xx
AV-1415-xx	AV-617-xx
AV-2115-xx	AV-650-xx

xx = Insert letters to indicate the fluid tip size:  
G, GX, FX, FF, E, EE, EX, D, AC or FX.

- (1) AV-601 and AV-641 fluid tips have been replaced by the AV-650 tip.
- (2) To order AV tip replacements, refer to the Fluid Tip Replacement Guide on this page.
- (3) Matched tip and needle set.

# Pressure, Suction and Gravity Feed Cups



**Stainless Steel Pressure Feed Cup  
KB-545-SS**

**Aluminum Pressure Feed Cup  
KB-555**

KB II Series 2-quart cups feature a “pistol grip” carrying handle, and right- or left-handed design for comfort and ease of handling. An easy-open lid and wide cup mouth allow for fast filling and cleanup. KB II Series cups also feature a solvent-resistant check valve, a 0-30 psi air gauge and a wide base for greater stability.

KB II Cups are supplied with disposable cup liners, which reduce clean-up and solvent use. The unique lid liner also protects the underside of the lid, preventing check valve problems. Order KK-5051 (Box of 20 Liners).

Typical use: Ideal for a wide variety of materials and a broad range of fluid flows. Fluid pressure range of 2-30 psi.

- KB-545-SS stainless steel cup is designed for use with waterbornes, halogenated hydrocarbons and other corrosive materials.
- KB-555 aluminum cup is compatible with most coating materials and solvents.

Air/Fluid Hose: Order assemblies separately. Part KB-4006 for 6' hose lengths.



**20 oz. Acetal Gravity Feed Cup  
GFC-501**



**32 oz. Aluminum Gravity Feed Cup  
GFC-502**

DeVilbiss gravity feed cups are made of strong, lightweight acetal, or aluminum for durability. In addition, an integral drip check in the cup lid virtually eliminates leaks from the vent hole. These cups can be used with E-Z Liner™ disposable cup liners, which reduce clean-up time and solvent use. Order liner kit OMX-70-K48.



**Teflon-Lined Suction Cup  
TLC-555**

Aluminum 1-quart cup featuring a Teflon® lining for fast, easy cleaning and reduced color contamination. The lid design has a two-position valve which allows for operation as a “drip-free” cup or as a conventional suction cup. For use with all suction feed spray guns.



**Stainless Steel Suction Cup  
TSC-595**

Made from 300-grade stainless steel, this 1-quart cup is designed for use with water-based materials and exempt solvents. The .030" wall thickness makes it more durable than competitive cups, yet it is still lightweight. And the fluid tube is stainless steel for added durability and corrosion resistance.

## Low Pressure Cups

**TLC-576\***

Aluminum 1-quart low pressure, Teflon®-lined for fast, easy cleaning.

**TSC-591\***

Stainless steel 1-quart low pressure.

*\* Requires KK-4980 for cup air regulation (order separately).*



# Pressure, Suction and Gravity Feed Cups

(Continued)



**1-Quart Aluminum Suction Cup**  
TGC-545



**1-Pint Aluminum Suction Cup**  
TGC-536



**8 oz. Polyethylene Suction Cup**  
TGS-503

Aluminum suction cups incorporate a two-position valve, which allows for operation as a “drip-free” cup or as a conventional suction feed cup. Smooth metal surfaces make cleanup and changeovers fast and easy. For use with all suction feed spray guns.

This 8 oz. cup combines an engineered resin lid with a translucent polyethylene cup that lets you see the liquid level. Lightweight and easy to clean, the non-staining cup has molded-in graduations for mixing ratios. Compatible with all solvents, it fits any suction feed gun with 1/4" NPS threads. Use an AD-404 adapter to adapt to spray guns with 3/8" NPS (M) inlets.

## Paint Cup Selection Guide

COMPLETE CUP ASSEMBLY PART NO.	CAPACITY	MATERIAL	FLUID CONNECTION	CUP ONLY PART NO.	SHIPPING WEIGHT <sup>(1)</sup>
<i>Pressure Feed</i>					
KB-555	2 qt.	Aluminum	3/8" NPS (M) <sup>(2)</sup>	KB-422	3 lb. 14 oz.
KB-545-SS	2 qt.	Stainless Steel	3/8" NPS (M) <sup>(2)</sup>	KB-442	5 lb. 2 oz.
TLC-576 <sup>(5)</sup>	1 qt.	Teflon®- lined Aluminum	3/8" NPS (F)	TLC-401	18 oz.
TSC-591 <sup>(5)</sup>	1 qt.	Stainless Steel	3/8" NPS (F)	TSC-400	20 oz.
<i>Suction Feed</i>					
TGC-536	1 pt.	Aluminum	3/8" NPS (F)	TGC-432	12 oz.
TGC-545	1 qt.	Aluminum	3/8" NPS (F)	KR-428-2	18 oz.
TGS-503 <sup>(3)</sup>	8 oz.	Polyethylene	1/4" NPS (F)	See Note <sup>(3)</sup>	3 oz.
TLC-555	1 qt.	Teflon®- lined Aluminum	3/8" NPS (F)	TLC-401	18 oz.
TSC-595	1 qt.	Stainless Steel	3/8" NPS (F)	TSC-400	20 oz.
<i>Gravity Feed</i>					
GFC-501 <sup>(4)</sup>	20 oz.	Acetal	3/8" BSP (M)	N/A	6 oz.
GFC-502 <sup>(4)</sup>	32 oz.	Aluminum	3/8" BSP (M)	N/A	9.4 oz.

(1) Approximate shipping weight for complete cup and lid assembly.  
 (2) Air connection thread size is 1/4" NPS (M).  
 (3) For cup and cover assembly, order part TGS-406.  
 (4) Use with GFG guns only.  
 (5) Order KK-4980 Regulator Kit in addition to the cup.

# Air Control Accessories



## Air Control Regulator HARG-510

The HARG-510 air control regulator and gauge combination fits any professional spray gun and is comfortable for both right- and left-handed operators. Precise and lightweight, this unit provides superior color matching capability. A swivel adapter allows fast installation, and a lock ring secures pressure settings to avoid inadvertent adjustment during spraying. Not recommended for HVLP spray guns.

### Specifications

Valve Type: Diaphragm, relieving  
Inlet Pressure: 250 psi max  
Outlet Pressure Range: 5-100 psi  
Regulator Gauge Ports (2): 1/8" NPT (F)



## Air Adjusting Valve P-H-5516

This convenient air adjustment valve attaches directly to the spray gun air inlet. Commonly used with spray guns, pressure tanks and pumps, the valve features a large knurled knob for adjusting the airflow.



## Air Regulator Lockout HAR-400

This device allows the painter to set the air regulator to guarantee proper atomization, as well as to assure compliance in areas where air cap pressure is limited to 10 psi or less. Includes one key per unit.



## Air Adjusting Valve HAV-500



## Air Adjusting Valve w/Gauge HAV-501

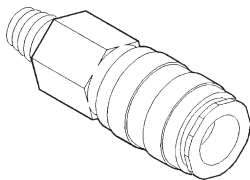
HAV air adjustment valves attach to the spray gun inlet, and allow the operator to control pressure at the gun. The HAV-501 includes an air gauge. The swivel top allows fast, easy installation. For use with all professional spray guns.

## Air Control Selection Guide

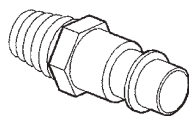
Air Inlet = 1/4" NPS (M)  
Air Outlet = 1/4" NPS (F) (Swivel)

PART NO.	NET WEIGHT	GAUGE RANGE	MAX. INLET PRESSURE	VALVE TYPE
HARG-510	10 oz.	0-160 psi	250	Diaphragm, Relieving
HAV-500	3.5 oz.	N/A	250	Straight
HAV-501	5 oz.	0-160 psi	250	With Gauge
P-H-5516	3 oz.	N/A	250	Straight

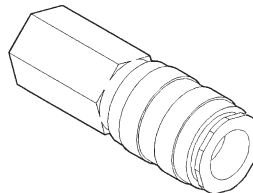
## Air Quick Detachable Connectors



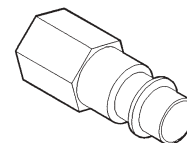
### HC-4699



### HC-1166



### HC-4700



### HC-4419

## High Flow Air Connections

These connections improve the performance of any air tool by delivering greater air flow with less pressure drop, and are ideal for HVLP applications because they won't ever "starve" the spray gun. In addition, the quick-detach connection assures smooth, easy lock and release.

## High Flow Q.D. Air Connectors & Stems

THREAD SIZE AND TYPE	PART NO.	MAX. WORKING PRESSURE (PSI)	MATERIAL OF CONSTRUCTION
1/4" NPT (M)	HC-4699	230	Plated Aluminum, Steel, Brass
1/4" NPT (M)	HC-1166	230	Plated Steel
1/4" NPT (F)	HC-4700	230	Plated Aluminum, Steel, Brass
1/4" NPS (F)	HC-4419	230	Plated Steel

## Construction

Precision manufactured light-weight aluminum body, with durable hardened steel sleeve.

# Air Spray Gun Accessories



## SolventSaver™ Hose/Gun Cleaners

Simple, easy-to-use cleaners speed up equipment cleaning and save solvent (up to 86% savings!), which reduces VOC emissions. With SolventSaver, a finely atomized blast of solvent travels through the hose and gun fluid pas-

sages. Operated with compressed air, metering permits adjustment of the air/solvent mix. Units have 1/4" NPS (M) air and 3/8" NPS (M) fluid connections, and are equipped with a safety valve.

PART NO.	CAPACITY	SHIPPING WEIGHT	MAX. WORKING PRESSURE	FLUID PASSAGES MATERIALS CONSTRUCTION
HD-503*	2 qt.	5 lb.	50 psi	Aluminum, nickel-plated brass, Teflon® and Thiokol gaskets
QMGZ-5200*	2 gal.	42 lb.	110 psi	Galvanized steel, aluminum, nickel-plated brass, Teflon and santoprene gaskets, polyethylene tank liner

\* Not suitable for use with chlorinated solvents, such as 1,1,1 trichloroethane or methylene chloride.

## Fluid Strainers and Screens



### In-Line Strainer VS-534

Stainless steel swivel strainer mounts to the tank or pump and has a 100 mesh replaceable, cylindrical filter.



### Gun-Mounted Mini Strainer PLH-MF-6-100

Lightweight stainless steel final filter.



### Gun-Mounted Strainer VS-531

This strainer is available in 100 mesh and can be attached to the gun inlet.



### Gun-Mounted Strainer VS-532

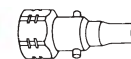
Designed for use with JGA spray guns, this strainer mounts on the fluid inlet and allows the filter screen to be cleaned or replaced without removing the strainer housing. It also functions as a trigger guard.

STRAINER PART NO.	MAX. WORKING PRESSURE	INLET THREADS	OUTLET THREADS	WETTED PARTS	SCREEN PART NO.	MESH SIZE	MICRON SIZE
<b>Gun Mounted Strainers</b>							
VS-531	300	3/8"NPS(M)	3/8"NPS(F)	CS	31144-310-K10	100	149
VS-532	300	3/8"NPS(M)	3/8"NPS(F)	PB	VS-58-K10	100	149
Swivel							
<b>Gun Mounted Mini Strainers</b>							
PLH-MF-6-100	250	3/8"NPS(M)	3/8"NPS(F)	SS	PLH-MFC-100	100	149
<b>In-Line or Tank/Pump Mounted Strainers</b>							
VS-534	300	3/8"NPS(F)	3/8"NPS(M)	SS	VS-58-K10	100	149
Swivel							

SS = Stainless Steel  
PB = Plated Brass  
CS = Carbon Steel



## Fluid Quick Detachable Connectors



### Threaded Connector Q.D.'s

MALE THREAD	CONNECTION NUMBER	MAXIMUM WORKING PRESSURE	MATERIAL OF CONSTRUCTION
3/8" NPS	P-HC-4808-1	500	Aluminum
3/8" NPS	HC-513-1	500	Stainless Steel
3/8" NPS	QDL-4808	500	Delrin®, Stainless Steel

### Male Stems for use with any Fluid Q.D. Connection

FEMALE THREAD	PASSAGE 1/4" I.D. STEM NO.	MAXIMUM WORKING PRESSURE	MATERIAL OF CONSTRUCTION
3/8" NPS Non-Swivel	P-HC-4482	750	Steel, Plated
3/8" NPS Swivel	HC-4691	500	Stainless Steel



# Other Equipment and Accessories



## Cleaning Brushes

For cleaning the threads and recesses of the gun body.

3/8" dia. brush: 42884-214-K5 (pkg. of 5)  
5/8" dia. brush: 42884-215-K10 (pkg. of 10)



## Spray Gun Lube SSL-10-K12

Specially formulated spray gun lube improves performance and extends the life of spray equipment. Contains no silicones or petroleum distillates to contaminate paint and coatings. Case of 12 (2-oz.) bottles. Not for use with air tools and high RPM equipment.



## Disposable Spray Gun Covers

Save money by reducing cleaning time and maintenance with these covers that also limit operator exposure to overspray.

GC-100-K4 (pkg. of 4)  
GC-100-K48 (pkg. of 48)

## Paint Cup Gasket Kits

These kits contain replacement gaskets for pressure and suction feed cups.

Cup Model	TGC, TLC, TSC
Gasket Type	Tri-Seal
Kit Part No.	TGC-9-K5
Quantity	(pkg. of 5)

Cup Model	KB II
Gasket Type	Santoprene
Kit Part No.	KB-80-K5
Quantity	(pkg. of 5)



## Mounting Stud AGA-414

Use this stud to attach automatic spray guns to 3/4" rods and increase the flexibility and versatility of your spray system. 16" long, 48 oz. (1344 gr) shipping weight.



## JGA Gun Fluid Tube JGA-444

Handy tube combines the fluid and air hoses at the gun handle to prevent twisted lines and keep hoses from dragging over work. 3/8" NPS thread.



## Thread Adapter

Thread adapters provide the correct hook-up for spray guns, hoses, tanks and other spray equipment. They work with most standard thread applications.

ADAPTER PART NO.	MALE	MALE	FEMALE
AD-404	—	1/4" NPS	3/8" NPS
P-H-4105	—	3/8" NPS	1/4" NPS
H-1766	1/8" NPT	1/4" NPS	—
H-2008	1/4" NPT	1/4" NPS	—
AD-31	1/4" NPS	1/4" NPS	—
AD-26	1/4" NPS	3/8" NPS	—
H-1580	1/4" NPT	3/8" NPS	—
H-1446	3/8" NPS	3/8" NPS	—
AD-11	3/8" NPS	3/8" NPT	—



## Universal Clamp AGA-415

This clamp attaches directly to the gun stud and clamps onto 3/4" rod, allowing the gun to rotate to any angle. 13.5 oz. (378 gr) shipping weight.



## Spray Gun Wrench WR-103

Versatile tool fits fluid and air hose connections, as well as adapters and packing nuts.

## Multiple Parts Kits

Parts kits include replacement gaskets, o-rings, packings and seals for spray gun repair and maintenance.

SPRAY GUN	PARTS DESCRIPTION	QUANTITY PER PKG.	KIT PART NO.
MBC	Needle Packing	10	A-23-K10
MBC, AGX	Tip Gasket	5	AV-1-K5
MBC	Gasket	5	CV-5-K5
JGA, MSA, GFG	Needle Packing	3	JGV-463-K3
JGA, MSA, GFG	Needle Packing	5	JGA-4035-K5
JGA, MSA	Leather Packing	10	JGA-52-K10
JGA, MSA	Polyethylene Seal	10	JGD-14-K10
EGA	Needle Packing	5	38273-136-K5

# System Solutions for Your Spray Finishing Needs



*More than just a spray gun manufacturer, DeVilbiss is your single source for practical solutions to all your spray finishing challenges.*

*To maximize your production output you need consistent, reliable performance, high-quality results and a responsive service partner who knows the industry and your business. And with DeVilbiss, you also get the expertise.*

*Since 1888, we've advanced the science of spray finishing by introducing innovative products and technological developments that set the standards for the industry. These efforts help ensure that we can deliver the best solution for your particular spray finishing applications.*

## Spray Guns

- Conventional air spray and HVLV
- Standard-size, mid-size, manual and automatic
- Waterborne compatible, stainless steel passages
- Shading and touch-up guns for precision control
- Decorative guns for textured finish
- Duster guns for tough cleaning applications
- Gravity feed, suction feed, pressure feed
- Internal mix and external mix atomization methods

## Cups and Tanks

- Pressure, gravity and suction feed cups
- Aluminum, stainless steel and polyethylene
- ASME-certified galvanized and stainless tanks
- Tank capacities from 2 gal. to 15 gal.
- Air motor drives

## Air Control

- Regulators and gauges
- Adjusting valves
- Centrifugal, coalescing, in-line and desiccant filters

## Hose

- Fluid and air hose
- Ball and air-adjusting valves
- Fittings and connections

## Additional Accessories

- Thread adapters
- SolventSaver™ gun and hose cleaners
- Gun-mounted fluid strainers
- Replacement parts kits
- Air cap test kits
- Fluid regulators