

Professional Metal Finisher's Equipment Selection Guide



Selecting The Right Equipment

Table of Contents

Overview2 - 3
Prime Time Solutions4 - 5
Smart Finishing Strategies6 - 7
Total Top-Coat Tactics8 - 9
Metal Finishing Accessories 10
Spray Booth Performance & Safety Products11

Find Your Solutions

Toll Free Customer Support and Technical Assistance 800-992-4657 USA & Canada Only

Toll Free Fax 888-246-5732 USA & Canada Only

MSDS sheets are available on the web www.binks.com • www.devilbiss.com

Ask Us About



It's Critical to Use the Right Equipment for Each Application



Using the right equipment for each step of any spray finishing process is typically the difference between hitting quality, productivity and

profitability targets – and not hitting them. Additionally, the ever increasing diversity of finishes dictates careful selection and proper use of equipment.

With nearly 220 years of collective leadership in the spray finishing industry, Binks and DeVilbiss continue to set the equipment standards other brands strive to achieve. Regardless of metal type, new and varied coating materials, or other special requirements,

Binks and DeVilbiss are dedicated to supporting you with a team

of experts - Metal Finishing Specialists,

Equipment Design Engineers, Technicians,

Trainers and Customer Service Professionals.

We're here to help you improve every aspect of your spray finishing operation –

Higher Quality, Increased Productivity,

New Cost-Efficiencies, Reduced Downtime,

Environmental Compliances...and Improved Bottom-Line Results.







Spray Application Processes

Atomization Technology Options

Conventional, HVLP, LVMP (Trans-Tech), Air Assist Airless and Airless are all types of Atomization technology, each has slightly different operating parameters.

Conventional Air Atomizing

The most established method of air atomizing, used on spray guns for decades. It uses high velocity air jets to produce a very high atomization power. However; this speed results in low transfer efficiency due to considerable "bounce-back" and overspray. Air pressure exiting the air cap during use is typically 30 to 60 psi (2 to 4 bar) with typical air consumption of 6 to 25 cfm (170 to 700 l/min).

High Volume Low Pressure (HVLP)

Although not new, this method first became important in the early 1990s when environmental legislation started to be introduced. It uses larger air volumes (11 to 30 cfm or 300 to 840 I/min) at low pressure to atomize the coating. HVLP has a much higher transfer efficiency than conventional air atomizing due to the lower air pressures. The droplet sizes produced tend to be slightly larger, sometimes resulting in a lower quality finish. Officially HVLP is limited by Government Environmental Legislation to a maximum of 10 psi (0.7 bar) atomizing pressure measured at the air cap.

Trans-Tech (LVMP)

This equipment type was first seen in the mid 1990s and is a mixture of Conventional and HVLP atomization methods. Trans-Tech makes more energy available for the atomization process but gives a higher transfer efficiency of coating material than the Conventional air atomizing method. To gualify as Trans-Tech the air cap must be able to transfer at least 65% of the sprayed material to the sprayed component (BSEN 13966 Determination of Transfer Efficiency of atomizing and spraying equipment for liquid coating materials). Air cap pressure is typically in the region of 20 to 45 psi (1.3 psi to 3 bar) while using 9 to 20 cfm (250 to 560 l/min) to carry out its work.

Air Assist Airless

To maximize efficiency, the best features of air spray and airless atomization are combined. This process is called Air Assist Airless. The pattern is formed by the spray tip and air is used to eliminate tails and adjust the shape. Air Assist Airless provides fast application of materials, a soft spray that reduces fog, and the ability to penetrate into recesses and cavities. This is especially important in the wood industry where intricate shapes require a fine finish.

Airless

Fluid is atomized by high pressure usually 500 to 4500 PSI and pushed through an orifice in the spray nozzle. The shape of the fluid orifice determines the fan pattern. The particle size is larger than other spray methods so it is not generally used for fine finishes.

Advantages: Airless spray has a high transfer efficiency, allows for high speed production, and provides less overspray.

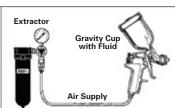
Fluid Delivery Options

Siphon-Feed

Siphon-feed hookups (external atomization) use vacuum Clean Ai Gun created at the nozzle to draw fluid from a cup. Advantages: This fluid cup system offers quick material / color changes. Δi Siphon Cup Pressure-Feed This option uses an external pressure source (pressure tank, piston pump, or diaphragm pump) to force air and fluid to the spray gun nozzle. Air and fluid are then mixed outside the nozzle Ai (external mix air caps). Advantages: This method delivers higher volumes of fluids than other gun set ups, and will spray a wider range of materials. It also enables independent control of fluid pressures. Pressure Tank Fluid Gravity-Feed On Gravity-feed guns the cup is located above the gun. The force of gravity pushes the fluid Extractor into the gun. Gravity Cup with Fluid Advantages: This method offers quick color changes and convenience on small jobs or touch-up applications. Gravity guns are able to use all of the coating – reducing waste.







BII

Prime Time Solutions

Consistently achieving the desired finishes on different types of metals is no small accomplishment. It requires knowledge, skill and the best equipment available.

Primer is used to prepare the surface of nearly every piece of professionally finished metal product - therefore making the priming process one of the most critical process for achieving uniform overall finish.

The Binks and DeVilbiss spray guns below have been painstakingly selected as your very best equipment available for achieving optimum results in all your spray priming applications.

To consult with one of our Metal Finishing Specialists call us at the toll-free number on the back of this brochure - or visit our web site: www.binks.com or

www.devilbiss.com.

Conventional: Siphon-Feed Conventional: Pressure-Feed DeVilbiss Binks **DeVilbiss DeVilbiss** Binks 2100 Gun 63BSS - 63PB 2100 Gun 66SS - 66SD JGA-510 Gun JGA-510 Gun MBC-510 Gun Part # 2100-2800-7 Part # JGA-510-704FF Part # MBC-510-704E (needs a TLC-555 cup) (needs a 81-800 cup) Part # 2100-4307-9 Part # JGA-510-30EX Trans-Tech: Siphon-Feed / Pressure-Feed / Gravity-Feed Automatic Airless Binks PitBull 3500 PSI Gun 2-Finger (shown): Part # 1108-3500-2 Binks MAG HVLP Gun DeVilbiss DeVilbiss **DeVilbiss DeVilbiss** 4-Finger **Compact Trans-Tech** Compact Trans-Tech Gun **Compact Trans-Tech** w/ Manifold (less tip) (not shown): Compact Siphon Gun w/ 1-qt. Cup Trans-Tech Gun w/ 1-ltr. Cup MINI Gun w/94 Fluid Nozzle, Part # 1108-3500-4 Part # Part # Part # Part # COMM-TS1-10 Order Air Cap Separately **Reference Bulletin** Part # 4006-1200-0 COM-PS510G-18-01 COM-PS522G-14-00 COM-G510G-14-02 77-5621 for Tip HVLP: Siphon-Feed / Pressure-Feed / Gravity-Feed





Part # 6202-1204-4

DeVilbiss Compact HVLP Gun Part # COM-PS507B-14-00



Binks MAG AA Gun w/ Manifold (less tip) Part # 4001-0000-4

Selection & Accessories



2-Finger (not shown): Part # 1108-7500-2

4-Finger (shown): Part # 1108-7500-4

Reference Bulletin 77-5621 for Tip Selection & Accessories





Prime Time Finishing

A considerable amount of time and resources have been invested in selecting and assembling these packages – for maximum up-time and minimum maintenance with Binks and DeVilbiss products. The equipment packages shown on this page have been carefully selected to help metal finishing professionals consistently achieve optimum application results. Your local finishing expert will assist you with additional information about all types of specific finishing applications, including surface preparation.

Conventional: Pressure-Feed



Binks 2100 Gun w/ Pressure Feed 2-qt. Aluminum Cup, Valve & Hoses Part # 98-1067



Binks 2100 Gun 63SS - 63PB w/ 83C-220 2.8-gal. (Zinc-Plated) Tank & 25' Hose Set **Part # 98C-357**



Binks 2100 Gun 68SS - 68PB w/ 83Z-220 2.8-gal. SS Fitted Tank & 25' Hose Set **Part # 98Z-358**



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; – gun not included) & 25' Hose Set **Part # 98-1229**

HVLP: Pressure-Feed



Mach 1 Gun SL 94 - 94P w/ 2-qt. Aluminum SS Pressure Cup, Regulator, & 6' Hose Set Part # 98-1131



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; & 25' Hose Set – gun not included) Part # 98-1229



Mach 1 SL 94 - 94P Gun w/ 1/2" Pail-Mount 1:1 Diaphragm Pump (7 GPM), 2 Regulators, Fluid Regulator & 25' Hose Set **Part # 98-3022**



Binks Mach 1 SL 94 - 94P Gun w/ 1/2" Wall-Mount 1:1 Diaphragm Pump (7 GPM), Fluid Filter, 25' Hose Set, 55-gal. Siphon Set & 2 Air Regulators **Part # 98-3024**

Airless Pump





Binks Comet 4B Airless 30:1 Ratio Pump Cart-Mount w/ PitBull 3500 PSI 2-Finger Gun & 25' Hose **Part # 98-972**



Binks BX Piston 5-gal. Outfit (Includes PitBull Gun)

36:1 Ratio (shown): Part # BX-36-36-CCS-125

57:1 Ratio (not shown): Part # BX-36-57-CCS-325



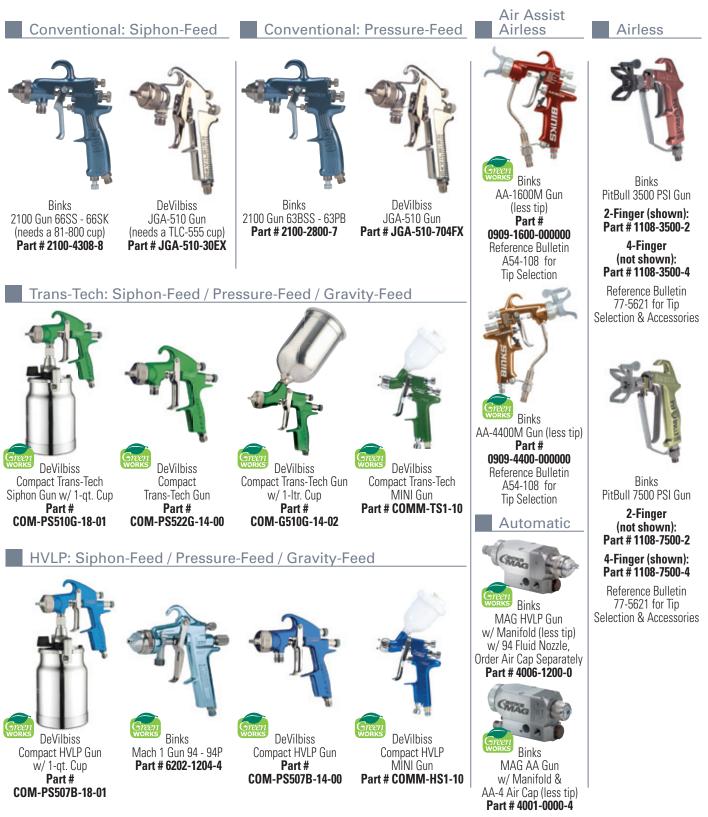
5

Smart Metal Finishing Strategies

Not all spray equipment is suitable for cost-efficient and top quality metal finishing. However, after decades of R&D, endless testing and engineering advancements, Binks and DeVilbiss guns and accessories clearly set the industry standards for excellence.

The equipment listed on this page has

been designed, manufactured and field-tested to produce the highest quality finishes utilizing sealer applications. For Technical Support, call us toll-free at 888-992-4657.



DEVILBISS

BINKS

Smart Metal Finishing Outfit Strategies

Optimum spray gun performance is largely the result of all the related spray finishing components that enhance the gun's overall operation. To provide professionals like you with the best possible equipment outfits, metal finishing specialists and engineers and technicians worked tirelessly to design and field-test thousands of equipment combinations to deliver the best possible combinations.

Why settle for less than the best? Insist on Binks and DeVilbiss products.

Conventional: Pressure-Feed



Binks 2100 Gun w/ Pressure Feed 2-qt. Aluminum Cup, Valve & Hoses Part # 98-1067



Binks 2100 Gun 63SS - 63PB 83C-220 2.8 gal. (Zinc-Plated) Tank & 25' Hose Set **Part # 98C-357**



Binks 2100 Gun 68SS - 68PB w/ 83Z-220 2.8-gal. SS Fitted Tank & 25' Hose Set **Part # 98Z-358**



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; – gun not included) & 25' Hose Set **Part # 98-1229**

HVLP: Pressure-Feed



Mach 1 Gun SL 94 - 94P w/ 2-qt. Aluminum SS Pressure Cup, Regulator, & 6' Hose Set **Part # 98-1131**



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; & 25' Hose Set – gun not included) Part # 98-1229



Mach 1 SL 94 - 94P Gun w/ 1/2" Pail-Mount 1:1 Diaphragm Pump (7 GPM), 2 Regulators, Fluid Regulator & 25' Hose Set **Part # 98-3022**



Works Binks Mach 1 SL 94 - 94P Gun w/ 1/2" Wall-Mount 1:1 Diaphragm Pump (7 GPM), Fluid Filter. 25' Hose Set, 55-gal. Siphon Set & 2 Air Regulators Part # 98-3024





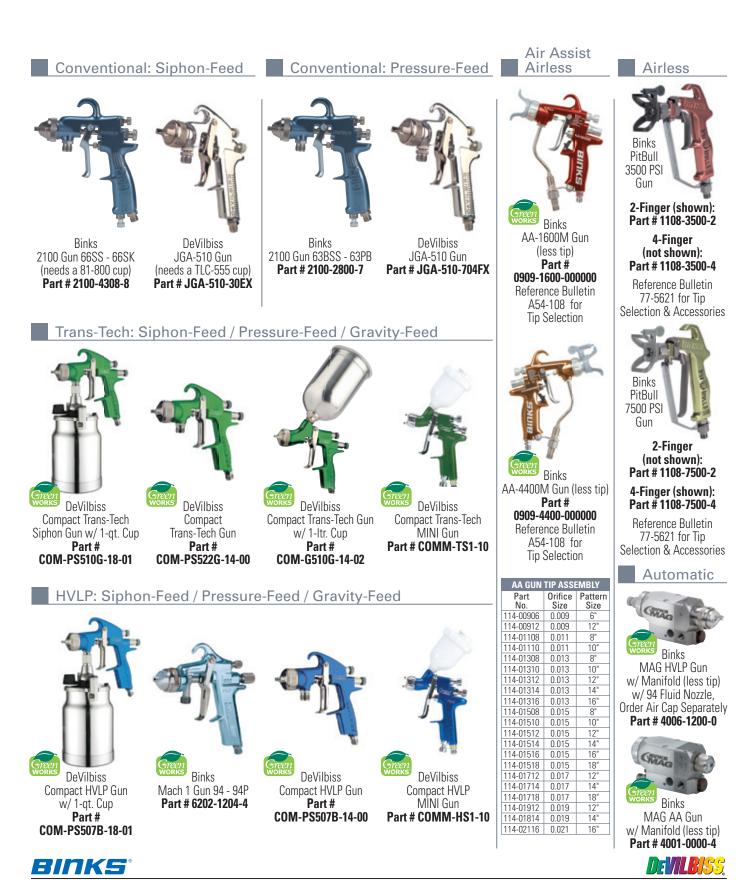


Total Top-Coat Tactics

Quite simply, top-coats provide build and protection. It's at this final stage of the spray finishing process that each finished piece is either beautifully and professionally finished, or set aside for a re-work (because the top-coat quality level was not achieved). The Binks and DeVilbiss spray guns on

this page are proven performers in metal

finishing applications requiring high quality top-coats. There is a top performing spray gun for every type of operation - regardless of your productivity or volume requirements.



Top-Coat Outfits

Because top-coats are typically the last step in most metal finishing processes, they are also typically the most visible aspect of finished products. The equipment packages below have been carefully field-tested and selected for their ability to consistently deliver top-coats you'll be proud of. There is a top-coat spray finishing package below to meet your every production requirement and volume application.

Conventional: Pressure-Feed



Binks 2100 Gun w/ Pressure Feed 2-qt. Aluminum Cup, Valve & Hoses Part # 98-1067



Binks 2100 Gun 63SS - 63PB 83C-220 2.8 gal. (Zinc-Plated) Tank & 25' Hose Set **Part # 98C-357**



Binks 2100 Gun 68SS - 68PB w/ 83Z-220 2.8-gal. SS Fitted Tank & 25' Hose Set **Part # 98Z-358**



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; – gun not included) & 25' Hose Set **Part # 98-1229**

HVLP: Pressure-Feed



Mach 1 Gun SL 94 - 94P w/ 2-qt. Aluminum SS Pressure Cup, Regulator, & 6' Hose Set **Part # 98-1131**



Binks Use any Binks or DeVilbiss Pressure-Feed Gun w/ this 83Z-220 2.8-gal. Pressure Tank Outfit (w/ SS lid & wetted parts; & 25' Hose Set – gun not included) Part # 98-1229



Works Binks Mach 1 SL 94 - 94P Gun w/ 1/2" Pail-Mount 1:1 Diaphragm Pump (7 GPM), 2 Regulators, Fluid Regulator & 25' Hose Set **Part # 98-3022**



Binks Mach 1 SL 94 - 94P Gun w/ 1/2" Wall-Mount 1:1 Diaphragm Pump (7 GPM), Fluid Filter. 25' Hose Set, 55-gal. Siphon Set & 2 Air Regulators Part # 98-3024

Air Assist Airless HVLP Outfits

Airless Pump



Binks Comet 4B Airless 30:1 Ratio Pump Pail-Mount w/ PitBull 3500 PSI 2-Finger Gun & 25' Hose **Part # 98-973**



Binks Comet 4B Airless 30:1 Ratio Pump Cart-Mount w/ PitBull 3500 PSI 2-Finger Gun & 25' Hose **Part # 98-972**



36:1 Ratio (shown): Part # BX-36-36-CCS-125

57:1 Ratio (not shown): Part # BX-36-57-CCS-325



MX4-12 5-gal. Cart-Mount 12:1 Pump Outfit (Includes AA-1600M Gun) Part # MX412UC-FDC1S25



MX4-12 5-gal. Wall-Mount 12:1 Pump Outfit (Includes AA-1600M Gun) Part # MX412UC-FDW1S25





Metal Finishing Accessories

The world's best spray finishing professionals can't perform at their maximum potential without properly using the best auxiliary equipment components.

That's why we offer a full complement of accessories you can count on every day. Cups for lower volume tasks. Tanks for larger volume projects. All the right capacities. All the right technologies. All the right features.

We also offer classes, workshops, and seminars to help you hit your quality and productivity targets. We offer everything you need to maximize your spray finishing performance.



Gravity-Feed & Siphon-Feed Cups



DeVilbiss Gravity-Feed 4-oz. Nylon Cup 12 Pack, 4 each of the 3 different colors (for SRI, Binks Cub 1-gt. Aluminum Cup SLG & Compact MINI Guns) Part # SRI-478-K12



DeVilbiss Siphon-Feed Part # TLC-555

Binks

Siphon-Feed

1-gt. Aluminum Cup

Part # 81-800



DeVilbiss Remote Pressure-Feed 2-gt. Aluminum Cup Part # KB-555

Binks

Pressure Feed SG2 Plus

2-gt. Aluminum Cup

Part # 80-600

Binks Siphon-Feed 1-gt. Stainless Steel Cup Part # 81-820

Binks

SG2 Plus Tank Liner

Part # 80-356



DeVilbiss DeKups Gravity-Feed Reusable Cup & Lid (2 per box)

9-oz. (not shown): Part # DPC-607

24-oz. (shown): Part # DPC-606

34-oz. (not shown): Part # DPC-608

DeVilbiss DeKups disposable cup system fits most spray guns. Ask your Binks rep for complete info.

Fluid & Air Hoses



DeVilbiss Air & Fluid Hose Set 5/16" I.D. x 6' - Air Hose 1/4" I.D. x 6' - Fluid Hose Part # KB-4006



Binks 3/8" I.D. x 25' Fluid Hose Part # 71-3303



Binks 3/8" I.D. x 25' ErgoFlex™ Air Hose Assy. Part # 71-31101



DeVilbiss Bypass Air Regulator 60 CFM Part # HAR-511



DeVilbiss Air Pressure Regulator 60 CFM Part # HAR-507

Solvent Saver







Binks 2-gal. Solvent Saver Galvanized Steel, Aluminum, & Brass Construction Part # 83GZ-5200





Binks 2.8-gal. Zinc-Plated Tank (1 Regulator) Part # 83C-210



Binks 2.8-gal. Zinc-Plated Tank (w/ SS lid & wetted parts; 1 Regulator) Part # 83Z-210



Binks 2.8-gal. Zinc-Plated Tank (2 Regulators) Part # 83C-220



Binks 2.8-gal. Zinc-Plated Tank (w/ SS lid & wetted parts; 2 Regulators) Part # 83Z-220





Binks 2.8-gal. Zinc-Plated Tank (w/ SS lid & wetted parts; Ágitator; 2 Regulators) Part # 83Z-221

Spray Booth Performance & Safety Products

Hand Cleaner Towels



Binks Hand Cleaner Towels in a convenient bucket Scrubs are pre-moistened with a patented, citrus based formula to remove paints, adhesives, inks, oil, soil, etc. **Part # 29-3100-K6** Case of (6) Buckets, (72) towels per bucket. See Sales Bulletin # 77-5239.

Tank Liners & Strainers

Binks Tank Liners

DITIKS TUTIK LITICIS	
PART #	DESCRIPTION
PT-78-K10	2.8-gal. Tank Liners (10 Pk)
PT-78-K60	2.8-gal. Tank Liners (60 Pk)
PL-5GAL-K40	5-gal. Pail Liner (11.25" ID,
	13" OD) 40 per case



Binks Prospector™ Material Strainers

PART #	MICRON / WIRE MESH	CASE QTY
PTS-2 GAL-K20-200	200 micron (approx. 65 wire mesh)	20 per case
PTS-2 GAL-K20-400	400 micron (approx. 37 wire mesh)	20 per case
PTS-2 GAL-K20-600	600 micron (approx. 28 wire mesh)	20 per case

Spray Booth Floor Paper

-		Binks Flame Retardant Paper 70 LB. Foot Traffic	
-	PART #	indinic	DESCRIPTION
	29-843		36" x 500' roll
	29-844		72" x 500' roll
80 LB. Heavi	er Traffic	100 LB. Fork	Lift Traffic
PART #	DESCRIPTION	PART #	DESCRIPTION
29-863	36" x 300' roll	29-872	36" x 300' roll
29-864	42" x 300' roll	29-875	42" x 300' roll
29-865	60" x 300' roll	29-873	60" x 300' roll
29-866	72" x 300' roll	29-874	72" x 300' roll

Spray Booth Exhaust Filters



Binks Exhaust Filters

PART #	DESCRIPTION	SIZE
29-3111	Receptor Filter Pad - 25/Case	20" x 20" x 2"
29-3112	Receptor Filter Pad - 25/Case	20" x 25" x 2"
29-3105	Receptor Filter Blanket	24" x 50' x 2"
29-3106	Receptor Filter Blanket	30" x 50' x 2"
29-3107	Receptor Filter Blanket	36" x 50' x 2"
29-3108	Receptor Filter Blanket	40" x 50' x 2"
29-3109	Receptor Filter Blanket	45" x 50' x 2"
29-3110	Receptor Filter Blanket	48" x 50' x 2"

Peelable Spray Booth Coating



Binks BoothCoat™ Peelable Spray Booth Coating PART # DESCRIPTION 29-248 1-gal. Can - Dries Clear - (Glass) 29-249 5-gal. Pail - Dries White - (Walls)

Air Adjusting Valves



DeVilbiss **Part # HAV-501** Gun-Mounted Air Adjusting Valve for accurate air pressure adjustment at the spray gun. DeVilbiss **Part # HAV-500** (same valve without gauge)

Quick Disconnects

Green DeVilbiss High Flow Air Quick Disconnects*		
	a Li	il
C.C.C	6	0
HC-4419	HC-4699	HC-4700
		THREAD
Hi-Flow C	1D Stem	1/4" NPT (m)
Hi-Flow C	1D Stem	1/4" NPT (f)
Hi-Flow C	1D Body	1/4" NPT (m)
Hi-Flow C	1D Body	1/4" NPT (f)
	HC-4419 DESCRIF Hi-Flow C Hi-Flow C Hi-Flow C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

*Ideal for HVLP applications. For other models, see Accessories Catalog A28-100.

CleanAir[™] Filter-Regulators



	ideally suited for use off pressure	talik ul ulapillayili
	pump outlet. Nickel plated body a	and stainless steel
	element screen for solvent or wa	terborne materials.
пг		

PART #	DESCRIPTION	S.S. ELEMENT SCREEN
	30 mesh, 590 microns	83-2705
83-2922	50 mesh, 297 microns	83-2089
83-2923	80 mesh, 177 microns	83-2596
83-2924	100 mesh, 149 microns	83-1256
83-2925	150 mesh, 96 microns	83-2405
83-2926	200 mesh, 74 microns	83-2706



11



Whether or not you are required to follow strict regulatory mandates for your geographic area and specific applications, you can conserve resources with our GreenWorks program. We can help you:

- Implement eco-tips that provide measurable cost savings
- Identify the Binks and DeVilbiss products with an immediate green payback for you
- Determine if your operation could benefit from the Binks and DeVilbiss Finishing TuneUp program

LOOK FOR THE GREEN LEAF SYMBOL TO IDENTIFY PRODUCTS THAT CONSERVE RESOURCES



Ask Us

About

Sales and Service Through A Global Network of Industrial Distributors

North American Office

195 Internationale Blvd. Glendale Heights, IL 60139 USA 630-237-5000 Toll Free Customer Support and Technical Assistance 800-992-4657 USA & Canada Only

Toll Free Fax 888-246-5732 USA & Canada Only