DeVilbiss
By Binks




# DV1 Basecoat Spray Gun

The Next Generation Spray Gun

GRAVITY, PRESSURE & SUCTION

# The DeVilbiss DV1 delivers advancements in atomization and performance.

Professional painters understand the importance of proven spraying equipment. It is critical to have tools that not only deliver optimal performance, but also enable painters to be more successful at their trade.

The leading technicians, engineers and designers at DeVilbiss have worked with these professional painters to create a spray gun designed specifically for painters who demand consistent, exceptional performance from their spray gun.

The DV1 is a revolutionary spray gun platform from DeVilbiss Automotive Refinishing – and set the standard in basecoat spray painting equipment.

Featuring technical innovations and atomization advancements unmatched in the industry today, the DV1 is optimized to spray the latest basecoats from the leading coatings providers. The best atomization is the right atomization for the paint being sprayed, and the DV1 is best in class at managing basecoat applications. For the painter, this means more control of their material, an improved painting experience and confidence to get the job done right, the first time, every time.

With the DV1, DeVilbiss continues a legacy of innovation and pushes it further forward with groundbreaking levels of performance and efficiency. The DV1 redefines spray gun performance.



# Features:

### Improved Transfer Efficiency
A noticeable improvement in transfer efficiency resulting in significant savings in paint consumption to achieve a high-quality finish.

### More Efficient
Maintains superior atomization and fine particle size with reduced air consumption (CFM) and inlet pressure (PSI).

### Quieter
The DV1 sprays noticeably quieter for a more enjoyable painting experience.

### Less Mottling
The DV1 produces an even distribution of particles resulting in less clouding – or "mottling" - of finish material and a flawless finish.

### Balanced Spray Pattern
Particle distribution is optimized symmetrically around the center line of the spray pattern to create the most even and consistent spray fan.

### Stabilized Air Distribution
Reduction of turbulent energy in the atomization zone resulting in a significantly more stable and consistent spray pattern.

### Superior Atomization
More atomizing air velocity at the air cap, along with lower pressure, results in finer atomization and a smoother finish with better blending ability.

### Consistent Performance
The DV1 offers consistent performance in a variety of environments and conditions, with all types of painters, making it easier to achieve a quality finish.

### Optimal Color Match
Provides the right finish, with the perfect film build, to produce the correct and uniform color every time.

### Easy to Maintain
The DV1 features redesigned internal components that simplify serviceability and make the gun easy to take apart, clean and re-assemble.

### Improved Ergonomics
The DV1 employs the latest generation ergonomics and lightweight materials for an ultra-comfortable fit and feel. When spraying the DV1, painters will experience a delightfully efficient spraying experience and minimal fatigue.

# Welcome to the next generation spray gun.

**The new front end of the DV1 features an improved Air and Fluid Management Architecture** to create superior atomization performance and to meet the requirements of spraying the most challenging basecoats on the market today. The DV1 produces a perfectly balanced and consistent spray pattern to achieve precise color matches, seamless transitions and blends and remarkably smooth finishes – as well as superlative metallic orientation and control.

### Precision Digital Gauge

The DV1 is equipped with an integrated digital gauge to provide precise inlet pressures for optimal gun performance and perfect color matching. The gauge is designed and placed in-line at eye-level for quick, easy checking – keeping it out of the way where it won't be covered by the painter's hand.

### Simplified Air Valve

The newly designed air valve cartridge features a True-Balance design to maximize fluid needle alignment, minimize component wear and maximize durability. Plus, this new design allows for easier removal and serviceability.

### Next Generation Gun Body

The DV1 gun body features a reduced profile and a smoother, streamlined design to create a well-balanced gun with the right feel in the painter's hand. Painters will get a sense of more control, and experience less fatigue, with a spray gun that is also easier to clean.

### Reconfigured Air Adjusting Valve

The DV1 combines the air inlet and the air-adjusting valve into a single "co-axial" component and places it in an ergonomic location that is more comfortable to use. The air-adjusting valve also features 12x sensitivity for precise air control adjustments and smoother air flow through the spray gun.

### Models Include:

- DV1 Basecoat Spray Gun
- DV1-B PLUS HVLP Air Cap
- Multiple Fluid Tips
- Integrated Digital Gauge
- Tool Kit: Valve Tool, Torx Driver and Tip Wrench




### Quick Release Air Cap

The hard-anodized air cap retaining ring features a quick release thread, requiring less than a full-turn rotation for fast and easy air cap removal. Painters will experience quick and easy changes of the air cap and access to the fluid tip.

### Revolutionary Air Cap

The new DV1-B PLUS air cap represents the next generation of atomization performance. This new HLVP air cap delivers high efficiency performance but at HVLP pressures, producing a smooth, fine finish even with the most stubborn basecoats. The DV1-B PLUS air cap is suitable for both water-based and solvent-based materials.

### Innovative Fluid Tip Design

The DV1 features an overhauled fluid tip design, replicated through an expanded fluid tip size range, to tackle a broad range of coating types and flow rates in all climatic conditions. This new design dramatically increases the air velocity at the tip, while maximizing fluid suction through the gun, yielding an increased and more stable fluid flow for better color reproduction – particularly with the latest, low viscosity basecoats.

### Redesigned Trigger

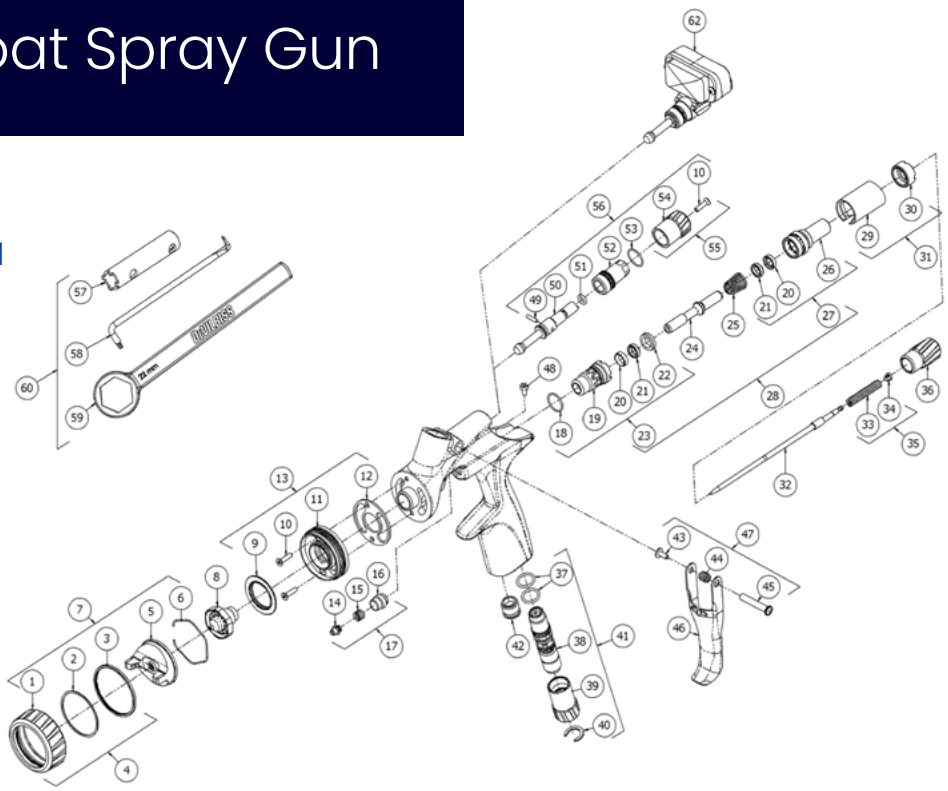
The DV1 features an innovative trigger design to remove sideways and rotary play from the trigger action, while maintaining the signature DeVilbiss fit and feel. Painters will enjoy a silent-action trigger with an exceptionally smooth, soft pull.

## DV1 Basecoat Spray Gun

| ORDER NO. | AIR CAP | NEEDLE/NOZZLE | CUP TYPE |
|---|---|---|---|
| **704504 DV1-B PLUS Basecoat (HVLP)** | DV1-B PLUS | 1.2mm, 1.3mm, 1.4mm | Uncupped, includes DPC adapter |

# DV1 Basecoat Spray Gun

## DV1 BASECOAT SPRAY GUN SYSTEM COMPONENTS & ORDER NUMBERS



### PARTS LISTING

| IMAGE REFERENCE | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | - | Retaining Ring | 1 |
| 2 | - | Slip Ring | 1 |
| 3 | - | Retaining Ring Seal | 1 |
| 4 | 704425 | Retaining Ring Sub Assembly | 1 |
| 5 | - | Air Cap | 1 |
| 6 | 191972 | Spring Clip (Kit of 10) | 1 |
| 7 | See Table 1 | Air Cap & Retaining Ring | 1 |
| 8 | See Table 2 | Fluid Tip | 1 |
| 9 | 704402 | Deflector Plate | 1 |
| 10+ | 704403 | Screw (Kit of 3) | 3 |
| 11 | - | Sprayhead | 1 |
| 12+ | 704401 | Gasket (Kit of 2) | 1 |
| 13 | 704400 | Spray Head Kit | 1 |
| 14 | - | Needle Packing | 1 |
| 15 | - | Packing Spring | 1 |
| 16 | - | Packing Nut | 1 |
| 17+ | 702731 | Packing, Spring & Packing Nut Kit | 1 |
| 18 | - | O Ring | 1 |
| 19 | - | Air Valve Cage | 1 |
| 20 | - | Seal | 2 |
| 21* | - | Seal Guide | 2 |
| 22* | - | Valve Seat | 1 |
| 23# | 704422 | Front Cage Assembly | 1 |
| 24 | - | Air Valve Stem | 1 |
| 25# | - | Air Valve Spring | 1 |
| 26 | - | Rear Seal Housing | 1 |
| 27 | 704423 | Rear Seal Assembly | 1 |
| 28+ | 704424 | Air Valve Assembly | 1 |
| 29 | - | Identification Sleeve | 1 |
| 30 | - | Sleeve Nut | 1 |
| 31 | 704428 | Sleeve Kit | 1 |

### PARTS LISTING

| IMAGE REFERENCE | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 32 | See Table 3 | Fluid Needle | 1 |
| 33 | - | Needle Spring | 1 |
| 34 | - | Spring Pad | 1 |
| 35#+ | 704405 | Needle Spring Kit | 1 |
| 36 | 704404 | Fluid Adjusting Knob | 1 |
| 37 | - | O Ring | 2 |
| 38 | - | Flow Valve Body | 1 |
| 39 | - | Flow Valve Knob | 1 |
| 40 | - | Circlip | 1 |
| 41 | 704417 | Inline Flow Valve | 1 |
| 42 | - | Plug | 1 |
| 43 | - | Trigger Screw | 1 |
| 44 | - | Spring | 1 |
| 45 | - | Trigger Stud | 1 |
| 46 | - | Trigger | 1 |
| 47 | 704406 | Trigger, Stud, Spring & Screw Kit | 1 |
| 48 | - | Screw | 1 |
| 49#+ | - | Spreader Valve Pin | 1 |
| 50 | - | Spreader Valve Stem | 1 |
| 51#+ | - | O Ring | 1 |
| 52 | - | Valve Body | 1 |
| 53#+ | - | O Ring | 1 |
| 54 | - | Spreader Valve Adjusting Knob | 1 |
| 55 | 704419 | Spreader Knob Kit (Not For Use With Digital Gauge) | 1 |
| 56 | 704418 | Spreader Valve Assembly (Not For Use With Digital Gauge) | 1 |
| 57 | - | Valve Tool | 1 |
| 58 | - | Torx Driver | 1 |
| 59 | - | Tip Wrench | 1 |
| 60 | 704429 | Tool Kit | 1 |

### PARTS LISTING

| | | |
|---|---|---|
| **Gauges** | | |
| 61 | 704426 | Atex Approved (EU)<br>Digital Pressure Gauge (bar) |
| | 704427 | FM Approved (US, Canada)<br>Digital Pressure Gauge (psi) |
| **Service Parts** | | |
| | 704430 | Minor Service Kit<br>Includes Items Marked # |
| | 704431 | Major Service Kit<br>Includes Items Marked + |

### TABLE 1: DV1 AIR CAP PERFORMANCE GUIDE

| Part Number | Air Cap & Type | | Recommended Air Inlet Pressure At Digital Gauge (with gun fully triggered) | Air Consumption | Typical Fan Pattern Size |
|---|---|---|---|---|---|
| 704407 | DV1-B | HVLP | 1.0 bar [15 psi] | 400 L/min [14.1 scfm] | 325 mm [12.8 in] |
| 704408 | DV1-B PLUS | HVLP | 1.5 bar [22 psi] | 300 L/min [10.5 scfm] | 330 mm [13 in] |

### TABLE 2: DV1 FLUID TIPS & NEEDLES

| FLUID TIP | | | NEEDLE | |
|---|---|---|---|---|
| PART NUMBER | FLUID TIP SIZE | MARKING | PART NUMBER | MARKING |
| 704409 | 0.9 | DV1-0.9 B | | |
| 704410 | 1.0 | DV1-1.0 B | | |
| 704411 | 1.1 | DV1-1.1 B | | |
| 704412 | 1.2 | DV1-1.2 B | 704416 | DV1-300 |
| 704413 | 1.3 | DV1-1.3 B | | |
| 704414 | 1.4 | DV1-1.4 B | | |
| 704415 | 1.5 | DV1-1.5 B | | |

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|---|---|---|
| **Americas** | 1.800.992.4657 | marketing@binks.com |
| **EMEA** | 44.0.120 257.1111 | marketing-eu@binks.com |
| **China** | 86.21.33730108 | mkt_cn@binks.com |
| **Japan Sales Office** | 81.45.785.6421 | jp-rans-tokyosales@binks.com |
| **Japan Binks/DeV** | 81.45.785.6421 | jp-binks-devi@binks.com |
| **India/SE Asia** | 44.0.120 257.1111 | marketing-roa@binks.com |

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