

仕様 Specifications

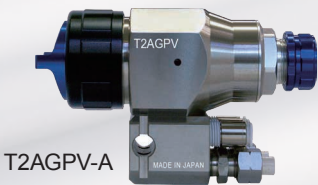
※ 仕様および外観は、改良のため予告なく変更することがありますのでご了承ください。 * For improvement purposes, Design & Specifications may change without prior notice.

Combination of Air cap & Fluid tip

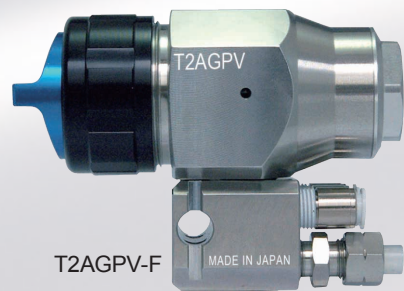
*: ガン手元圧力 0.3MPa / Gun Inlet Pressure 0.3MPa



DeVILBISS®



T2AGPV



ロボット搭載用自動スプレーガン

Automatic Spray Gun for Robot-mount

コンパクトなロボット搭載用自動スプレーガンで定評の T-AGPV に、さらに耐久性・洗浄性・メンテナンス性を圧倒的に高めたハイクラス自動スプレーガン T2AGPV が加わりました。

耐久性・洗浄性・メンテナンス性を高めるため、ガンボディははじめガンベースやエアキャップほか全部品を新設計。

ハードな環境での使用、また塗料のみならず多様な液体塗布にも使える強靱な耐久性を実現しました。

ガン本体のメンテナンスが容易にできると好評のベースとガン本体部が分離できる連結プレート型を踏襲。さらに取付部と塗料ノズル先端部の相対寸法は T2AGPV に更新しても面倒なロボットティーチングを再度やり変える必要がない完全互換仕様です。さらにエアキャップ寸法も現行品と互換性があり塗装条件の再設定も不要です。

特長

耐久性 UP

- ガンボディおよびベースには耐久性に優れたステンレスを採用。
衝撃に強く撓動・ネジ部の摩耗も大幅に改善（アルミニウム仕様もあります）
- ニードル軸径を 4.0mm（現行品 3.6mm）とし強度 UP
- ソフトシート付塗料ノズルを標準搭載し、ノズル先端からの塗料漏れをさらに改善
- ニードルパッキンは、塗料の固着を大幅に減らした新設計で、塗料漏れを防止
- 塗料継手にもステンレスを採用した究極の高耐久性設計

洗浄性 UP

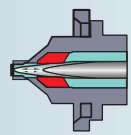
- 塗料溜りによる塗装不良を極力排除する段差がなく洗浄性の高い塗料通路
- ボディとシール部を新たに設計した塗料ノズルは、ネジ部への塗料侵入を起こさず洗浄性が UP

メンテナンス性 UP

- エアキャップ角部は面取りされた新設計
エア乱流を減らしキャップ表面の汚れを軽減
- ピストン部分の部品点数を大幅削減し、組付けも容易

さらに！

- 吐出量調整は、ニードルストロークの固定タイプと可変タイプから、ご使用の塗料供給システムに合わせ選択可能
- スプレーパターンの膜厚分布が台形形状でワイドな新設計エアキャップ（807MT2）を追加



■ ソフトシート /Soft seat
■ 塗料 /Paint
■ ニードル /Needle

■ ソフトシート
ノズルの先端からの塗料漏れをほぼ完全に解消：デビルビスのスプレーガンには、塗料ノズル内面にソフトシート（フッ素樹脂）が埋め込まれ、ニードル先端での塗料漏れを解消。

■ Soft Seat tip

Issues with fluid leakage from the fluid tip are almost completely resolved: DeVILBISS spray guns have embedded soft seat (PTFE) in the fluid tips, allowing for the resolution of issues of the fluid leakage at the needle point.

Built upon the company's reputable, compact automatic spray gun designed for robot mounting the T-AGPV, the new T2AGPV is a high-class automatic spray gun that features incredibly enhanced durability and ease of cleaning, as well as ease of maintenance.

The product features completely new designs in terms of not only the gun body itself, but also in terms of manifold and air caps, as well as all other parts of the gun so as to enhance its durability and ease of cleaning, as well as maintainability.

We have made the T2AGPV to be robust and durable that it can be used within demanding environments for not just painting/coating, but for all different kinds of liquid application tasks as well.

The T2AGPV features a well-received detachable-type design, which means that the main body portion of the spray gun can be detached from the manifold. This makes for easy maintenance of the gun body.

The relative dimensions of the mounting hole in manifold and the apical end of the fluid tip are the same as seen in the T-AGPV. This means that upgrading your old T-AGPV to the T2AGPV does not require reprogramming of the robot using the device, since product specifications will already be completely compatible with your present set-up.

The dimensions of the air caps are also made be compatible with that of the current product, meaning that no reconfiguration of coating conditions/requirements is needed as well.

Features

More durable

- The gun body and manifold both employ incredibly durable stainless steel. Huge improvements have been made in terms of resistance to shocks and for friction that occurs in the sections of the device that slide and of the threads (for the requirement of lighter weight gun, aluminum version is also available).
- The diameter of the needle shaft has been increased from 3.6 mm to 4.0 mm for increased strength.
- The product comes equipped standard with a fluid tip with a soft seat, meaning that any issues with respect to leakage from the tip of the fluid tip have been improved.
- The needle packing features a new design that greatly decreases the problem of sticking coating material, which results in preventing leakage.
- The fluid connectors also employ stainless steel for a design that features an extremely high level of durability.

Easier to clean

- The product features a fluid passage that is very easy to clean, since there is no steps therein that preventing from poor finishing caused by the stagnant paint.
- Fluid tips that comprise the newly designed body and seal sections do not allow coating materials to leak into the thread part, making for an improvement in terms of ease of cleaning.

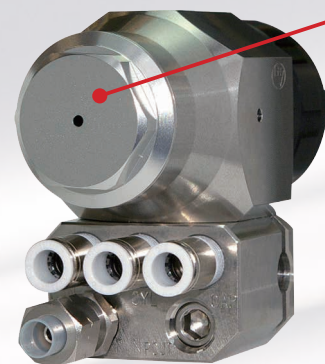
Easier to maintain

- The new design features arr caps in which the horn sections have been chamfered. This decreases air turbulence, resulting in less contamination at the air cap surfaces.
- The number of parts within the piston section has been greatly decreased, making assembly easy.

Other features

- We offer fixed-types and adjustable-types of the product for needle strokes which end users can select for their suitable coating system.
- In terms of the film thickness distribution of spray patterns, the newly designed 807MT2 air caps have flat/even trapezoidal pattern shape.

塗料吐出量調整は、ニードルストロークの「固定タイプ」と「可変タイプ」をご用意
A fixed needle pull length type and an adjustable needle pull length are both available to select

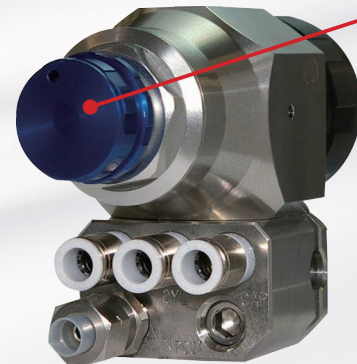


T2AGPV-F (固定タイプ)

- ニードルのストロークが固定タイプ（4mm）は、ギアポンプやエアオペ塗料レギュレータを使った塗料供給システムに適しています。

T2AGPV-F(Fixed type)

- Needle strokes are 4 mm fixed. They are suited for paint supply systems that use gear pumps or air operated fluid regulators.



T2AGPV-A (可変タイプ)

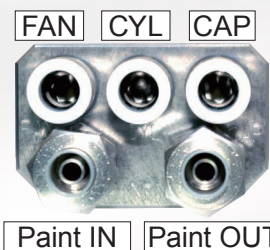
- ニードルのストロークがガン背面の調整ノブで可変できます。（0mm～4.0mm）

T2AGPV-A(Adjustable type)

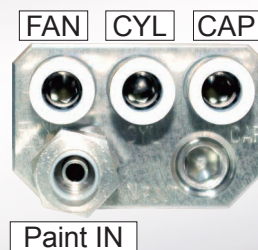
- Needle strokes can be changed using the needle adjustment knob on the rear side. (0 mm to 4.0 mm)

連結式プレート / Detachable manifold

循環式 Type for Circulation



非循環式 Type for Non-Circulation



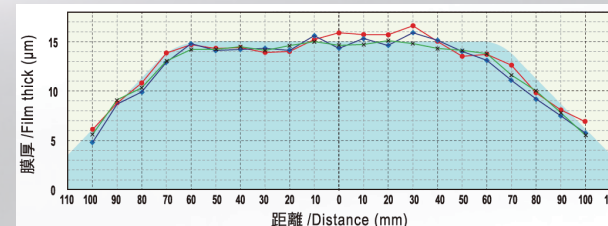
新設計エアキャップの追加 / Addition of newly designed air caps

- エアキャップ 807MT2（LVMP 低エア量・中圧霧化タイプ）
膜厚分布が台形形状で、スプレーパターンはよりワイドです。
大面積の塗装に適します。
- エアキャップ 805MT2（LVMP 低エア量・中圧霧化タイプ）
膜厚分布が台形形状で、小～中面積の塗装に適します。
- 807MT2 air caps (LVMP low-air volume, medium pressure atomization type) feature spray patterns that are wide with film thickness distribution that is trapezoidal in shape, making it suitable for coating on large surface areas.
- 805MT2 air caps (LVMP low-air volume, medium pressure atomization type) feature film thickness distribution that is trapezoidal in shape and is suitable for coating on smaller to medium-sized surfaces.

エアキャップ「807MT2」 Air cap



膜厚分布図 /Film thickness distribution

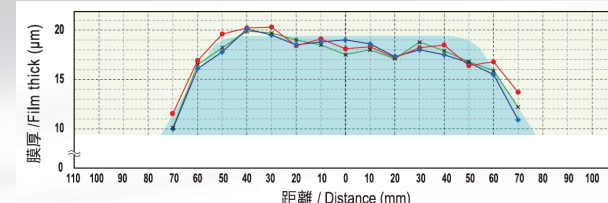


霧化パターン /Atomization pattern



テーパードエッジ /Taperd Edge

エアキャップ「805MT2」 Air cap



ブラントエッジ /Blunt Edge

測定条件：霧化エア圧 0.2MPa、パターンエア圧 0.2MPa、吐出量 100mL/min、ガン距離 200mm、塗料粘度 20sec/NK2
Measurement condition : Air pressure for atomization 0.2MPa, Pattern Air Pressure 0.2MPa, Flow rate 100mL/min, Distance 200mm, Viscosity 20sec/NK2



高塗着率

HIGH TRANSFER
EFFICIENCY

低エア消費量

LOW AIR
CONSUMPTION

高微粒化

FINE
ATOMIZATION

必要最小限のエア量と最適なエア圧力で、最高の微粒化と最大の塗着効率を実現したのがデビルビスが開発した **LVMP** 方式です。

Comparing the existing Air Spray Gun or HVLP gun, **LVMP** gun makes higher transfer efficiency and better atomization possible with less air consumption.