

Spray guns for Adhesive and related equipment

Adhesive-01

News feed for Adhesive, Mold-release agent, Functional material, and Edible liquid.

Spray? Ask "ANEST IWATA"! Not only Paint, but also Adhesive !

Adhesive market is our existing neighbors ?

Adhesive is a substance used for sticking objects or materials together, and there are various types to meet your needs; in various circumstances and various or example, automotive interiors, anti-vibration rubbers, wood products, and cargo collapse prevention (logistics).

Our customers may have manufacturing processes to use adhesive, or may use our general spray guns already. And there are possibilities the customer have some difficulties in spraying adhesive with general spray guns.

Let us introduce our solutions for Adhesive market, focusing on automobile interior segment.

ANEST IWATA do have spray guns for Adhesive !

Not many adhesive manufactures instruct which spray guns to apply their materials, and people believes general spray guns will do, or the only choice they have.

In automobile interior segment, WIDER2-12G2P and WA-200-122P are popular to spray adhesive since they can spray with a wider pattern width than other general spray guns.

That said, adhesive have higher viscosity to atomize with general spray guns. No matter how the users try several settings to spray, there are poor adhesion due to poor atomization.

There are 3 big reasons for poor adhesion;

①Uneven spray: Due to high viscous materials, it's hard for general spray guns to atomize in fine particles with even dispersion.

②Cobwebbing: Adhesive droplets are drying out in mid-air especially when spraying from longer distance to get wider spray pattern.

③Spit: Adhesive accumulate on air cap and tip of fluid nozzle, and causes spit results in poor adhesion with uneven surface.

To solve these spray troubles, ANEST IWATA established Fluid Application division which specialized in applying liquids other than paint. The team succeeded in developing a special spray gun series for adhesive, COG series that "can atomize adhesive in fine particle with even dispersion", "achieve wide pattern width in short spray distance", and "less adhesive accumulation on air cap and fluid nozzle".

Since COG looks like general spray guns, you might think there cannot be much differences in spray ability. Well, please take a look at the comparison below and see the difference.

[Recommendation]

WIDER2-12G2P ⇒ COG-200-12

WA-200-122P ⇒ COG-A200-12

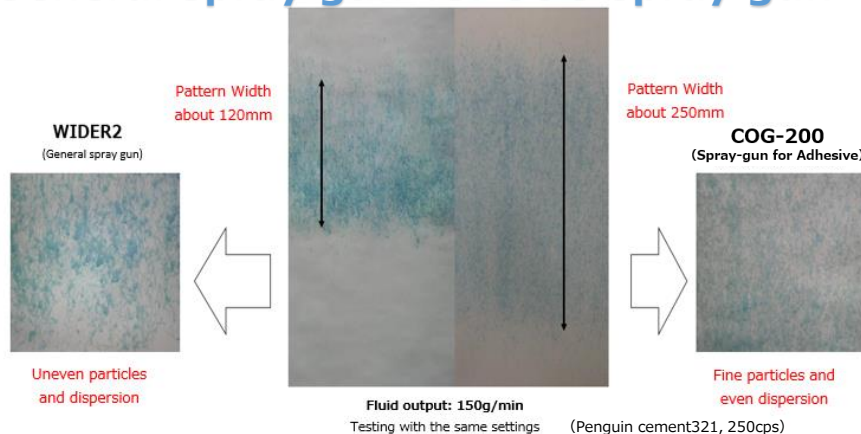
Big Nozzle and High Air Pressure for Adhesive?

Maybe the popular theory is not always the best solution. Do you believe me if I said Adhesive can be sprayed with 0.8mm, 1.2mm, and 1.8mm like paints for cars?

"Big nozzle and high air pressure" means "excessive fluid output," and you might keep the trigger movement minimum to adjust. These methods may cause adhesive dog easily.

Rather than struggling with general spray guns, please give COG a shot for your adhesive application.

General spray gun vs. COG spray gun



Special design for adhesive

[Nozzle]

Nozzle's air paths are especially designed for spraying adhesive; providing high air volume for fine atomization and controlled air stream to create a wide and even pattern. You'll have a fine and even particle dispersion with a wide spray pattern without struggling with settings.

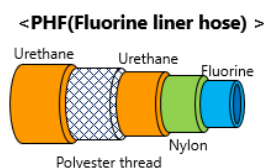
[Needle]

Needle is designed in unique shape so that adhesive will not easily stick to Air cap and nozzle. This nozzle prevents clog and spits to lower poor adhesion possibilities, means you will have better QC and less failure costs.

stainless-steel pressure tank has a simple structure and mirror-polished finish so that maintenance should be easy.

Fluorine liner hose's smoothness and water repellency makes it easy to clean, and prevents moist intrusion to protect moisture-curing adhesive.

If you install Nitrogen gas generator (NM-07) in between air compressor and feeding equipment, you can prevent troubles due to thickening of moisture-curing adhesive, and prolong pot life.



<Pressure tank with Mirror polished inside surface>



Specialized related equipment

ANEST IWATA provides you with specialized related equipment for adhesive market. Inside of

Total Solution Proposal

☆ **Stable Quality (Less failure)**
Specially-designed nozzle and needle creates a wide spray pattern with fine and even particle, and prevents spits from the tip of spray guns.

☆ **User friendly**
Simple-structure stainless-steel pressure tank has mirror-polishing finish inside, and fluorine liner hose has smoothness and water repellency. They are easy to do maintenance and cleaning.

☆ **Save time and costs**
Nitrogen gas generator prolongs pot-life by protecting adhesive from moisture, and you can avoid troubles due to adhesive thickening. It will help you save time and costs.



Specifications of COG series

| Type | Model | Feed type | Nozzle size (mm) | Operation Air Pressure (MPa) | | Air Consumption (L/min.) | Fluid Output (ml/min.) | Pattern Width (mm) | Connect Size | Mass (g) | | | |
|--------------------------------|-------------|-----------|------------------|------------------------------|------|--------------------------|----------------------------|--------------------|------------------------------|----------|-----|----------------------------|-----|
| Manual gun | COG-101-08 | Pressure* | 0.8 | 0.29 | Fan | 395 | 150 | 220 | Air : G1/4 Fluid : G3/8 | 310 | | | |
| | COG-101-12 | | 1.2 | | | | 200 | 250 | | | | | |
| | COG-101-18 | | 1.8 | | | | 250 | 280 | | | | | |
| Manual gun | COG-200-18S | Suction | 1.8 | | | | 410 | 110 | | | 270 | Air : G1/4 Fluid : G3/8 | 380 |
| | COG-200-12 | Pressure | 1.2 | | | | 440 | 150 | | | 265 | | |
| | | | 1.8 | | | | | 250 | | | 390 | | |
| Automatic gun | COG-A200-12 | Pressure | 1.2 | 440 | 150 | 265 | Air : G1/4 Fluid : G3/8 | 500 | | | | | |
| | COG-A200-18 | | 1.8 | | 250 | 390 | | | | | | | |
| High-performance automatic gun | COG-R200-12 | Pressure | 1.2 | Atomizin g 0.2 | 0.15 | 340 | 150 | 265 | Air : Rc1/8 Fluid : Rc1/8 | 310 | | | |
| | COG-R200-18 | | 1.8 | 250 | | | 390 | | | | | | |

*Suction feed can be possible depending on fluid characteristics.

*Specifications above are a test results with lacquer paint.