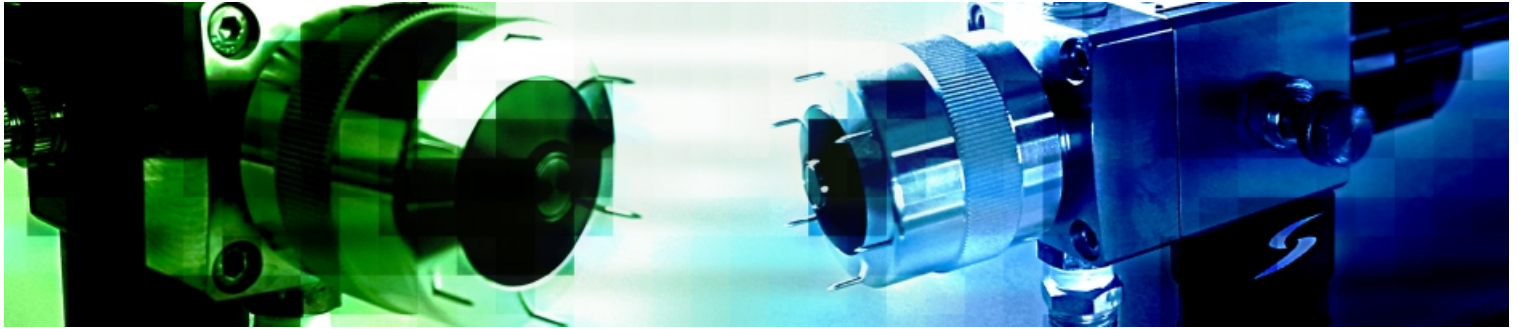


Vortemail VEC

[Automatic applicator for enamels or charged waterborne materials.



INDUSTRIAL APPLICATION

A solution to spray automatically non-solvent based materials, like porcelain enamels, ceramics, or charged waterborne materials.

The Vortemail VEC is designed for spraying liquid porcelain enamel and non-solvent based materials. A component of an automatic system, its needle and nozzle combination provide a clean triggering of the material and a possibility for remote adjustment of the pattern. Its standard mount is stationary or on a reciprocating machine, but may also accommodate a robot.

Spraying with the Vortemail VEC provides the benefits of electrostatics to the customer, and a perfect finish from the finest atomization. Transfert efficiency is much higher than that of a conventional atomizer, providing substantial materials savings. Coating times are reduced, as are booth maintenance and cleaning operations.

CUSTOMERS BENEFITS

The diaphragm technology of the Vortemail VEC provides longevity, resistance to abrasion, flow control during spraying.

- Reliability: the technology provides a lifespan 4 or 5 times longer than a regular atomizer
- triggering at the gun: even with high numbers of triggers, we maintain perfect sealing
- Complete and thorough flushing of the gun: low chamber volume, no wetted spring .
- East maintenance: the needle tip is a clip-on type
- Excellent resistance to abrasion of the needle tip and nozzle
- Possibility to circulate the material directly at the gun, to avoid material sedimentation in the tubes when at rest.
- Excellent finish: the atomization of the product is finer when used with the Vortex nozzles
- Adaptability: the size of the pattern may be adjusted to spraying requirements, saving even more material.



[Vortemail VEC

USE

Materials are supplied from SAMES peristaltic pumps **[F]** and isolated tank **[G]**. Their principle of operation consists in flattening a piece of tube with three wheels rotated by a motor, which provides an accurate and constant flow control for the system. By changing this tube:

- one changes at will the caliber of the pump and changes the flow ranges:

2.1 cc/rev = 500 cc/min, max

3.1 cc/rev = 750 cc/min, max

4.6 cc/rev = 1000 cc/min, max

- one as certain easy and fast maintenance operation, without special tooling.

SAMES recommends to install 2 pumps in parallel to a gun, to reduce pulsating at the nozzle, and increase flows when needed.

A connection for recirculation is also possible **[D]**.

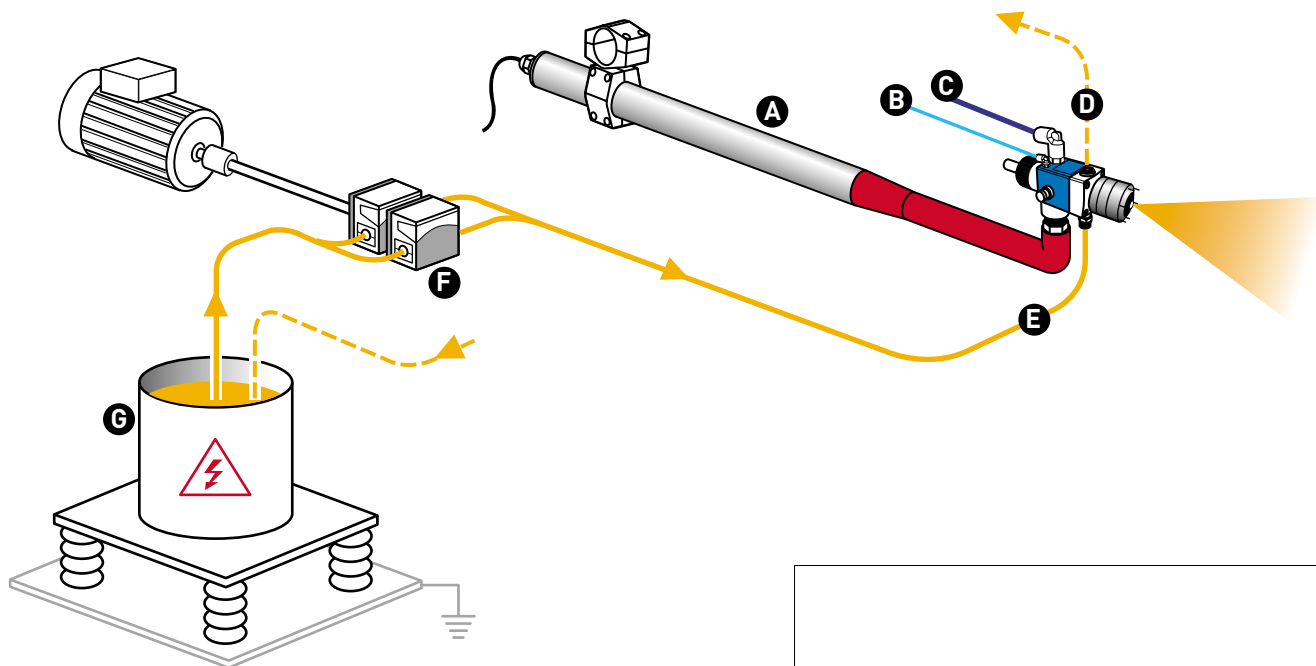
TECHNICAL CHARACTERISTICS

Supplies

- Atomizing air: 6 bar (90 psi) max **[C]**
- Pilot air: 5.5 bar (80 psi) mini **[B]**
- Fluid pressure: 3 bar (45 psi) max **[E]**
- Fluid flow: 1000 cc/min max
- Air consumption: 60 m³/hr, at 5bar (75psi)
- Voltage (U): 100 kV max **[A]**
- Operating temperature: 50C (122F) max
- Weight (w/o holder): 1.2 kg (2.65 lbs)

Connections

	Gun	Recommended tube
Fluid	F 3/8 NPS	Int. Ø 5 mm
Atomizing air	F 1/4 NPS	Ø 6 x 8 mm
Pilot air	F 1/8 NPS	Ø 4 x 6 mm



SAMES Technologies
13, chemin de Malacher Z.I.R.S.T. - B.P. 86
38243 Meylan cedex - France
Ph. +33 (0)4 76 41 60 60 - Fax. +33 (0)4 76 41 60 90
www.sames.com