

SONICAIR

ATOMIZING SYSTEMS

FEATURES AND BENEFITS

- volumes down to 0.3 μ l
- high repeatability
- 5-50 micron droplet size
- low-pressure spray field
- atomization achieved as low as 3psi
- autoclavable
- corrosion resistant
- 316 stainless steel
- nozzle diameters down to 5mm OD
- nozzle lengths to 90mm
- heated applications
- no moving parts
- alternative gases may be used
- capable of high speed manufacturing

TYPICAL APPLICATIONS

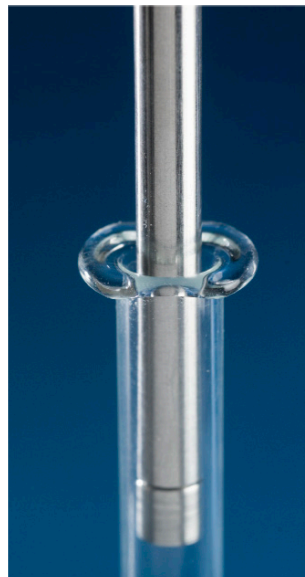
- silicone atomization
- syringe barrel coatings
- needle coatings
- stent coatings
- blood collection tubes
- sterilization chambers
- catheter coatings
- pharmaceutical bottles
- atomizing emulsions
- atomizing reagents
- spray dryer applications
- atomizing electrolytes
- plasticizers for solvent bonding
- aromatic additives
- hydration additives
- and many more



sonicaire nozzle spray
90mm x 5mm



sonicaire: body block, fitting connections & heater slot
33.2mm x 9.27mm x 31.5mm



sonicaire nozzle coating glass syringe



sonicaire nozzle coating plastic syringe

ISO 9001 CERTIFIED

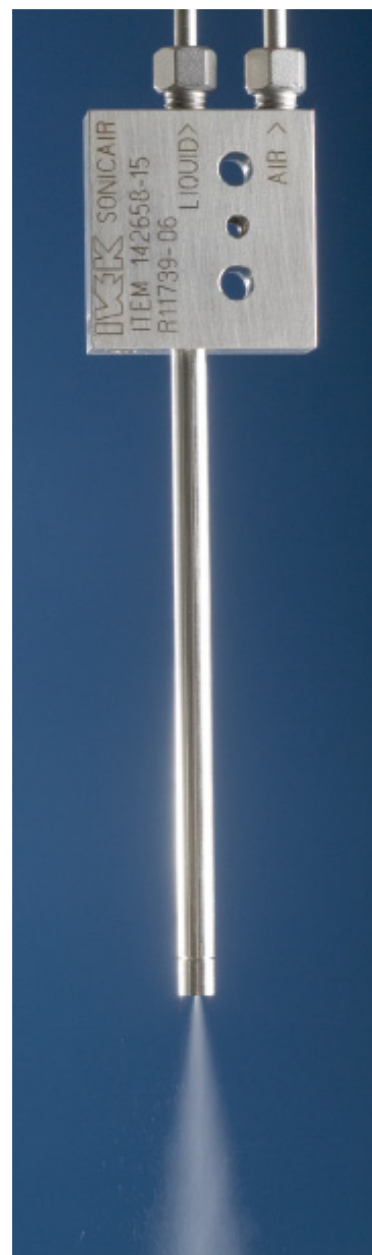


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IVEK's Sonicair Atomizing System is utilized for applications requiring a consistent and precise coating method. The Sonicair nozzle is manufactured from 316 stainless steel and there are no moving parts or valves that can compromise the effectiveness of the spray. Unlike many air nozzles that depend on time and pressure to atomize fluids, a ceramic positive displacement pump feeds the IVEK Sonicair nozzle. This delivers a precise volume of fluid to the nozzle, injecting it into an air stream creates an atomized field that exits the nozzle through a precision orifice. The outcome is a uniform and consistent conical or beam spray pattern. The airflow exiting the nozzle also helps to expand the spray pattern by nebulizing the spray as it travels further away from the orifice.

The Sonicair nozzle is designed to be used with IVEK systems resulting in a precise atomization that is appropriate for validated processes. The Sonicair can atomize aqueous and viscous solutions as well as suspensions with particulates. There are many different parameters that may affect a spray including temperature, viscosity and surface tension. IVEK tests each application to ensure the equipment meets compliance to customer specifications.

IVEK's Sonicair system is particularly effective in barrel syringe and needle coatings. The system offers a solution for manufacturers looking to eliminate solvent-based lubrication formulations from their process. Many cross-linking silicones are solvent based and require dispensing in higher volumes. Evaporating solvents can cause fluctuations in the coating volume, are difficult to control and are potentially a health risk. The Sonicair nozzle has successfully atomized silicones ranging up to 100,000cps in volumes below 1mg per spray dose. Unique designs include nozzle diameters to 5mm and lengths to 90mm.



sonicair nozzle

PRECISION ENGINEERED FLUIDIC SOLUTIONS SINCE 1979

IVEK Corporation is committed to quality and customer support. Our product has always been relied upon for critical applications and our policy states customer satisfaction as the number one priority. As our customer you will experience exceptional performance and reliability for your most demanding applications. IVEK Corporation is ISO 9001 certified.



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