



## SPRAY TECHNOLOGY FOR FLUID BED APPLICATIONS

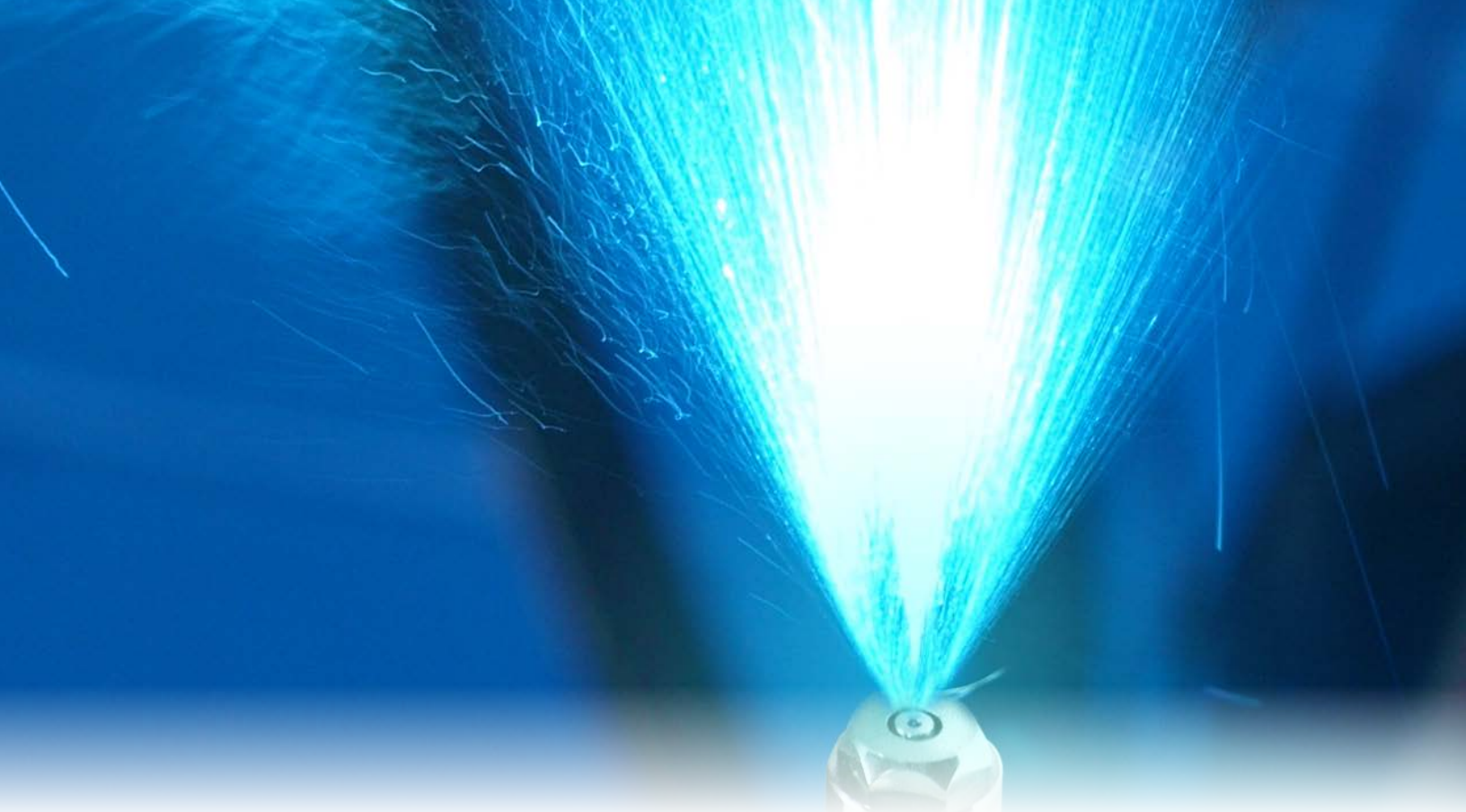


FLUID BED COATING, TOP-SPRAY  
GRANULATION, LANCES, CUSTOM



***Spraying Systems Co.***<sup>®</sup>

Experts in Spray Technology



# SUPERIOR SPRAY PERFORMANCE FOR FLUID BED APPLICATIONS

## IMPROVE GRANULATION AND COATING WITH NOZZLES AND LANCES

From small laboratory research and development batches to full production scale, Spraying Systems Co. has the solution for your fluid bed applications. We offer a complete line of customizable nozzles and lances for top-spray granulating and Wurster coating designed to simplify your scale-up and validation, reduce maintenance, and improve product quality.

- The right combination of science and technology to granulate and coat
- Nozzles and lances available in production scale, pilot scale, and laboratory scale
- Wurster coating of powders, granules, beads and tablets
- Top-spray granulation
- Complete systems available at [fluidairinc.com](http://fluidairinc.com)

### APPLICATIONS

- Fluid Bed Granulation
- Wurster Coating



## NOZZLES AND LANCES FOR FLUID BED COATING

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### 46910/46915 WURSTER FLUID BED COATER NOZZLES

- For pilot/production scale applications
- Fine spray
- Materials: 316L stainless steel, EPDM O-rings, 1.5mm, 2.2mm and 4.0 nozzle orifice sizes available
- Spray pattern: narrow full cone (bottom-up spray)
- Air actuated liquid shut-off needle
- Custom nozzle lengths available



46915 Fluid Bed Coater Nozzle

### 7/16-20-FBCAU-\_316L/7/16-20-FBCAUS-\_316L WURSTER FLUID BED COATER NOZZLES

- For R&D scale applications
- Medium to fine spray
- Materials: 316SS, EPDM O-rings, FDA-approved Teflon® gaskets
- Available in 0.5mm, 0.8mm, 1.0mm, and 1.2mm nozzle orifice sizes
- Spray pattern: bottom-up full circular cone



54057 Fluid Bed Coater Nozzle

## NOZZLES AND LANCES FOR FLUID BED AND TOP-SPRAY GRANULATION

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### 46920/46925 CLUSTER HEAD TOP-SPRAY GRANULATION NOZZLES

- For pilot/production scale applications
- Fine spray
- Materials: 316L stainless steel, EPDM O-rings, FDA-approved Teflon® gaskets
- Modular design for quick assembly
- 0.4mm, 0.5mm, 0.7mm, 0.9mm, 1.0mm, 1.5mm, and 2.5mm nozzle orifice sizes available
- Spray pattern: wide cone (top-down spray)



46920 Cluster Head Top-Spray Granulation Nozzle

## CUSTOM LANCES

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### HYGENIC DESIGN & FABRICATION

In addition to nozzles, custom lances are designed and manufactured to customer specifications for R&D, pilot, and production size fluid beds ensuring superior spray performance at every scale.



## NOZZLES AND LANCES FOR FLUID BED AND TOP-SPRAY GRANULATION (CONTINUED)

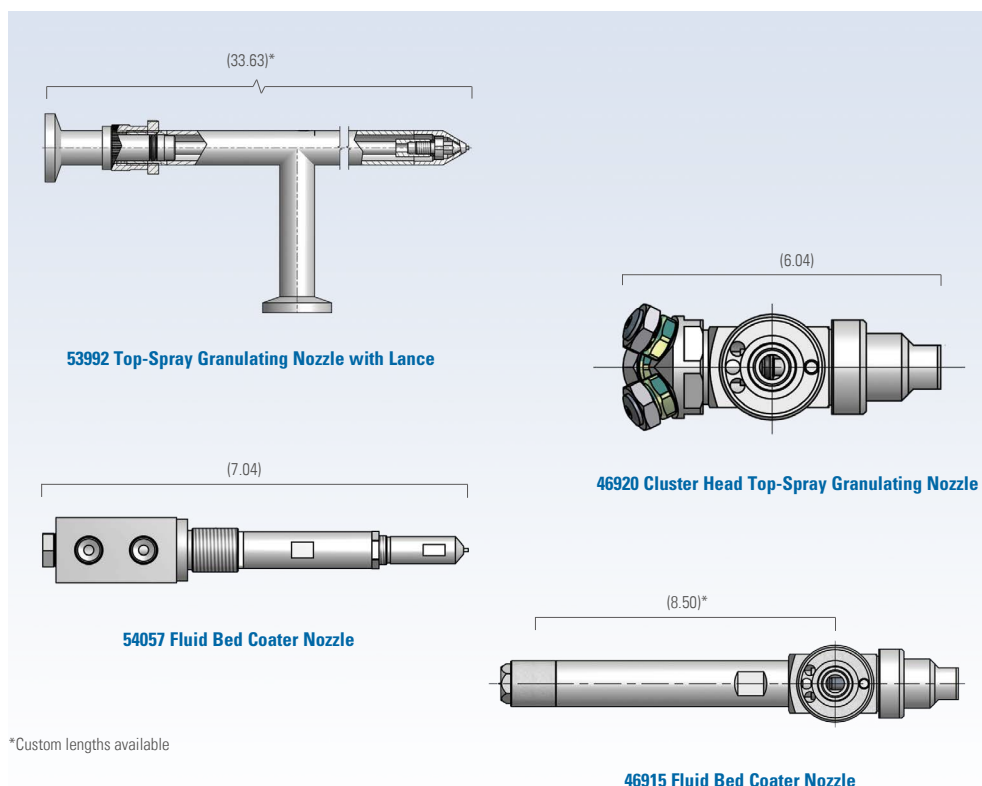
### 53992 TOP-SPRAY NOZZLE WITH LANCE

- For R&D scale applications
- Medium to fine spray
- Materials: 316LSS
- Available in 0.4mm, 0.5mm and 0.7mm
- Spray pattern: full circular cone (top-down spray)
- Welded air cap
- Sanitary design and connections
- Seamless tubing
- Available with insertion graduations to ensure optimal performance
- Anti-bearding setups



53992 Top-Spray Nozzle with Lance

### DIMENSIONS



**Spraying Systems Co.**  
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