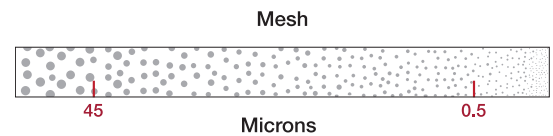
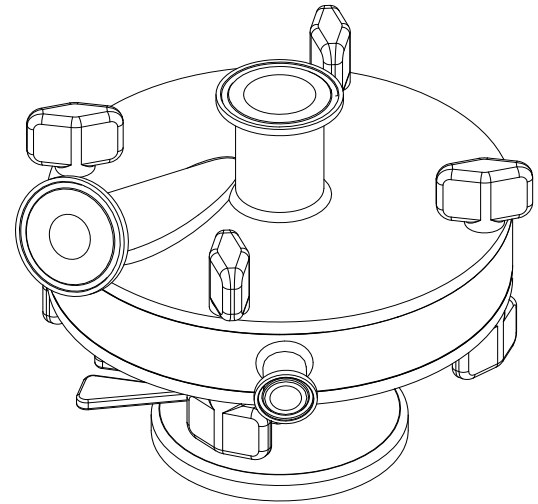


### PRODUCT BULLETIN

#### Features & Benefits:

- Documentation to Support FDA Validation
- Better Control Properties with API'S
- USDA Approved Design
- No Contamination
- Mills to Sub-Micron Particle Sizes
- No Tools Access for Easy Disassembly and Sterilization
- No Heat Build-Up
- Consistent Control Adjustments for Continuity

The Sanitary Micronizer® (SDM) is the first jet mill listed by the USDA for the sanitary design and fabrication of milling equipment. The Micronizer's Open Manifold Design allows complete access to the internal material grinding chamber and compressed air chamber for easy cleaning, product changeover or inspection. The SDM has no moving parts, intergrated jet nozzles and has quick release clamps for easy disassembly by hand without tools. Designed for high performance which surpasses the economical fineness limit of many mechanical grinders the Micronizer® can consistently produce particles as small as 0.5 microns without heat buildup or contamination.



Product Fineness: 45 microns - 0.5 microns  
 Capacity Range: 1/8-300 lbs/hr  
 Compressed Air Requirements: 8-350 SCFM @100 PSIG

#### How it Works:

The Sanitary Micronizer® utilizes a unique fluid energy grinding system to generate high-speed rotation that subjects material to particle-on-particle impact reduction. Centrifugal force holds larger particles in the grinding area while centripetal force drives preselected-sized fines towards the center for discharge. Rotation generates high-speed particle collision, creating increasingly smaller fines through particle-on-particle impact reduction.

#### Options:

- Wear Resistant Liners
- 316 Stainless Steel
- Alumina Oxide
- Dust Containers

#### Applications:

- Pharmaceutical
- Food Additives

#### SANITARY MICRONIZER®

MILL	ENERGY Requirements / Compressed Air /Gas SCFM	<sup>2</sup> bHP	CAPACITY LBS/HR	KG/HR
Qualification	8	2	1/8 – 1	.05 – .5
2"	20	5	1/2 – 2	.2 – .9
4"	55	13	2 – 40	.9 – 18
8"	130	31	10 – 100	4 – 45
12"	260	62	30 – 250	13 – 113
15"	350	83	50 – 300	22 – 136

<sup>1</sup>- Volume of free air at 60°F, 14.7 psi compressed to 100 PSIG. Includes air consumed by feed injector nozzle.

<sup>2</sup>- Approximate HP necessary to generate 100 PSIG compressed air.