

## Atomizing Spray Nozzles

All stainless steel construction for durability and corrosion resistance!

### What Are Atomizing Nozzles?

EXAIR's Atomizing Spray Nozzles atomize fluids (most commonly water) in a range of spray patterns for a variety of uses. They combine liquid and compressed air to create a mist of atomized liquid that can be easily adjusted to meet the needs of your application. All models use stainless steel construction for durability and corrosion resistance. Atomizing spray nozzles are available in 1/8 NPT, 1/4 NPT and 1/2 NPT sizes.



A Model AN1010SS Internal Mix Narrow Angle Round Atomizing Nozzle is used to mark strips of steel before they leave the mill.

EXAIR's atomizing nozzles are available in 3 basic families:

#### Internal Mix:

Internal mix nozzles mix the liquid and air inside the air cap and produce the finest atomization. Internal mix nozzles can be used on liquids with a viscosity up to 300 cP. Both air and liquid sides are pressure fed.

#### External Mix:

External mix nozzles have the highest flow rates and allow the air and liquid flows to be adjusted independently. These nozzles are best where precise liquid flow is needed. External mix nozzles can be used on liquids with a viscosity above 300 cP. Both air and liquid sides are pressure fed.

#### Siphon Fed:

Siphon fed nozzles require no liquid pressure and can be used with gravity fed liquids or liquids from a siphon height as much as 36 inches (91cm). Siphon fed nozzles can be used on liquids with a viscosity up to 200 cP.



A Model SR1010SS is used to supply a cooling mist for a drilling operation.

### Why Atomizing Nozzles?

With EXAIR's atomizing nozzles, you can coat, cool, treat and paint a variety of products. Used with water, they are an efficient way to cool hot items in your automated process. These nozzles are also an excellent choice for dust mitigation.

Sound levels for the individual Atomizing Spray Nozzles are not provided. The fluid, pressure, surfaces being treated and surrounding enclosures used in conjunction with the Atomizing Spray Nozzle to form the system will determine the actual sound levels (which can vary greatly). Max temperature is 400°F (204°C) for Atomizing Spray Nozzles. All atomizing nozzles are CE compliant.



(2) Model EB1030SS atomizing nozzles are used to give a final sanitary rinse prior to labeling wine bottles.

#### Applications

- Washing
- Rinsing
- Coating
- Cooling
- Quenching
- Wetting (moistening)
- Humidification
- Dust Control

#### Advantages

- Fully adjustable
- Maximizes liquid dispersion
- Minimizes liquid consumption
- All stainless steel construction
- Compact
- Versatile
- Interchangeable liquid and air caps
- Minimizes air consumption
- Fine atomization



Mounting Brackets are available - Model 901786 for 1/8 NPT, Model 901318 for 1/4 NPT and Model 901556 for 1/2 NPT atomizing nozzles.

For more information about droplet size and spray angle, see page 95.

## Internal Mix Narrow Angle Round Pattern - 1/8 NPT

### Model AN8010SS, AN8020SS, AN8030SS, AN8040SS and AN8050SS

1/8 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 16 feet away! They are often used for precision application of lubricants during assembly, or marking items as they move through an assembly line. Narrow angle round pattern atomizing nozzles are capable of delivering the most liquid of any of our 1/8 NPT internal mix atomizing nozzles.

**Model: AN8010SS**

**Material:** Type 303 Stainless Steel

**Model: AN8020SS**

**Material:** Type 303 Stainless Steel

**Model: AN8030SS**

**Material:** Type 303 Stainless Steel

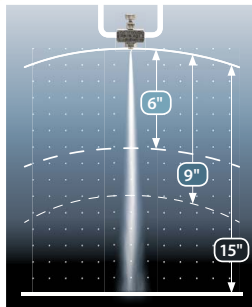
**Model: AN8040SS**

**Material:** Type 303 Stainless Steel

**Model: AN8050SS**

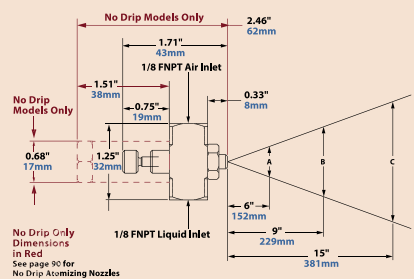
**Material:** Type 303 Stainless Steel

### For pressure fed applications not requiring independent air and liquid control.



The modifiable spray pattern can generate a heavy or precision engineered mist for distances over 16 feet!

### Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																											
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure		Width			Max. Depth feet/m																						
																Air PSI/BAR	Liquid PSI/BAR	A	B	C		in	cm	in	cm	in	cm																
AN8010SS	10	0.7	0.97	3.7	0.25	7.1	14	1.0	1.83	6.9	0.32	9.1	24	1.7	1.97	7.5	0.52	14.7	32	2.2	2.23	8.4	0.67	19.0	50	3.4	2.63	10.0	0.98	27.7	10	0.7	10.0	0.7	3	8	3.5	9	4.5	11	3.5	11	
	12	0.8	0.80	3.0	0.32	9.1	18	1.2	1.5	5.7	0.39	11.0	28	1.9	1.7	6.4	0.59	16.7	36	2.5	1.97	7.5	0.74	20.9	54	3.7	2.37	9.0	1.02	28.9	18	1.2	14.0	1.4	3	8	4	10	5	13	5	15	
	14	1.0	0.60	2.3	0.4	11.3	22	1.5	1.27	4.8	0.52	14.7	32	2.2	1.37	5.2	0.71	20.1	40	2.8	1.67	6.3	0.84	23.8	58	4.0	2.1	7.9	1.12	31.7	32	2.2	30.0	2.1	3	8	4	10	5.5	14	7	21	
AN8020SS	—	—	—	—	—	—	26	1.8	0.73	2.8	0.67	19.0	38	2.6	0.8	3.0	0.93	26.3	48	3.3	1.00	3.8	1.09	30.9	66	4.6	1.7	6.4	1.21	34.3	48	3.3	40.0	2.8	3	8	4.5	11	6	15	8	24	
	10	0.7	1.33	5.0	0.43	12.2	18	1.2	1.83	6.9	0.71	20.1	24	1.7	2.27	8.6	0.91	25.8	30	2.1	2.63	10.0	1.05	29.7	40	2.8	3.33	12.6	1.31	37.1	10	0.7	10.0	0.7	2	5	3	8	4	10	5	15	
	12	0.8	1.17	4.4	0.5	14.2	20	1.4	1.73	6.5	0.75	21.2	28	1.9	2.07	7.8	0.99	28.0	34	2.3	2.47	9.3	1.12	31.7	46	3.2	3.13	11.8	1.4	39.6	20	1.4	20.0	1.4	2.5	6	3.5	9	4.5	11	7	21	
AN8030SS	14	1.0	1.03	3.9	0.6	17.0	22	1.5	1.63	6.2	0.84	23.8	32	2.2	1.9	7.2	1.09	30.9	38	2.6	2.39	8.8	1.20	34.0	52	3.6	2.87	10.9	1.6	45.3	32	2.2	30.0	2.1	2.5	6	3.5	9	4.5	11	7	21	
	—	—	—	—	—	—	—	—	—	—	—	—	40	2.8	1.57	5.9	1.45	41.0	48	3.3	1.87	7.1	1.53	43.3	70	4.8	2.2	8.3	2.2	62.3	70	4.8	60.0	4.1	3.5	9	4.5	11	6.5	17	10	30	
	12	0.8	2.20	8.3	0.47	13.3	18	1.2	2.49	11.0	0.75	21.2	30	2.1	3.7	14.0	0.96	27.2	36	2.5	4.47	16.9	1.09	31.7	48	3.3	6.3	23.8	1.28	36.2	12	0.8	10.0	0.7	2	5	3	8	4	10	5	11	6
AN8040SS	16	1.1	1.60	6.1	0.56	15.9	26	1.8	2.53	9.2	0.82	23.2	34	2.3	3.2	12.1	1.00	28.3	40	2.8	4.17	15.8	1.12	31.7	52	3.6	5.87	22.2	1.3	36.8	26	1.8	20.0	1.4	2.5	6	3.5	9	4.5	11	6	1.8	
	24	1.7	0.67	2.5	0.95	26.9	38	2.6	1.13	4.3	1.35	38.2	46	3.2	1.8	6.8	1.45	41.0	52	3.6	2.67	10.1	1.49	42.2	64	4.4	4.56	17.3	1.59	45.0	52	3.6	40.0	2.8	3	8	4	10	6	15	11	3.4	
	28	1.9	1.47	1.8	1.07	30.3	42	2.9	0.77	2.9	1.53	43.3	52	3.6	1.4	5.3	1.76	49.8	60	4.1	2.00	7.6	1.87	52.9	70	4.8	3.8	14.4	1.84	52.1	70	4.8	60.0	4.1	4	10	5	13	6.5	17	3.4		
AN8050SS	11	1.487	9.6	2.54	7.19	28	1.9	0.60	2.50	3.64	103.0	40	2.8	783	29.7	40.0	132.9	48	3.3	933.5	35.40	15.9	65	4.5	12.0	45.4	67.0	19.0	16.1	11.0	0.7	2.5	6	3	8	4	10	10	30				
	20	1.4	3.57	11.0	2.92	82.6	32	2.2	5.60	21.2	3.98	112.6	44	3.0	6.87	26.0	4.99	141.3	55	3.8	8.17	30.9	5.98	16.9	7.5	5.2	10.8	41.0	7.57	21.4	32	2.2	20.0	1.4	3	8	4	10	5.5	14	11	3.4	
	26	1.8	1.87	13.6	3.60	101.8	44	3.0	2.43	9.2	5.16	146.1	60	4.1	2.80	10.6	6.43	182.0	80	5.5	2.53	9.6	8.58	24.3	10.0	6.2	8.17	30.9	9.03	25.6	80	5.5	40.0	2.8	3	8	4	10	5.5	14	13	4.0	
AN8050SS	30	2.1	1.03	15.4	4.06	115.0	34	3.4	1.33	5.0	5.92	167.7	70	4.8	1.23	4.7	7.78	220.4	90	6.2	1.27	4.8	6.51	27.2	100	6.9	6.13	23.2	29.0	28.0	100	6.9	60.0	4.1	3.5	9	4.5	11	6	15	15	4.6	
	12	0.8	7.60	28.8	1.76	49.8	20	1.4	11.63	44.0	2.37	67.1	30	2.1	13.5	51.1	3.42	96.8	38	2.6	15.4	58.2	3.99	11.3	54	3.7	18.9	71.7	51.7	14.6	12	0.8	10.0	0.7	3	8	4	10	6	15	9	2.7	
	14	1.0	6.10	23.1	1.97	55.8	22	1.5	10.53	39.9	2.85	80.7	34	2.3	11.37	43.0	3.92	111.0	42	2.9	14.1	53.3	4.50	12.7	60	4.1	17.2	65.1	58.3	16.5	28	2.2	20.0	1.4	3	8	4	10	6	15	11	3.4	
—	—	11	4.80	18.2	2.18	61.7	24	1.7	9.43	35.7	3.11	88.0	38	2.6	11.67	44.9	4.4	124.6	46	3.2	12.3	46.7	4.95	14.0	65	4.5	15.7	59.4	64.5	18.3	38	2.6	20.0	1.4	3	8	4	10	6	15	14	4.3	
—	—	—	—	—	—	32	2.2	5.07	19.2	4.19	118.6	46	3.2	5.6	21.2	5.52	156.3	56	3.9	7.7	29.0	6.24	17.7	85	5.9	8.13	30.8	8.58	24.3	85	5.9	60.0	4.1	4	10	5	13	6.5	17	16	4.9		

# Atomizing Nozzles

## Internal Mix Wide Angle Round Pattern - 1/8 NPT



**Model: AW8010SS**  
**Material: Type 303 Stainless Steel**



**Model: AW8020SS**  
**Material: Type 303 Stainless Steel**



**Model: AW8030SS**  
**Material: Type 303 Stainless Steel**

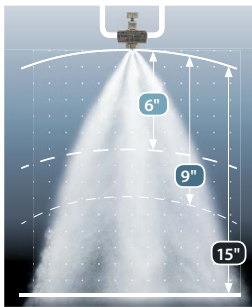


**Model: AW8040SS**  
**Material: Type 303 Stainless Steel**

### Model AW8010SS, AW8020SS, AW8030SS and AW8040SS

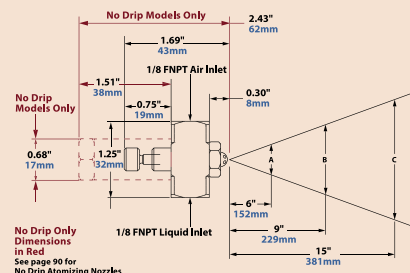
EXAIR's 1/8 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles are also perfect for applying a coating to parts packed in large containers, for example, misting a container of stamped steel parts with oil to prevent oxidation prior to shipment.

For pressure fed applications not requiring independent air and liquid control.



1/8 NPT Internal Mix Wide Angle Round Pattern atomizing nozzles are perfect for covering broad areas. They are ideal for dust migration, humidification and a variety of cooling applications.

### Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m																											
	Air PSI/BAR	Liquid PSI/BAR	A	B	C																																											
AW8010SS	8	0.6	1.10	4.2	0.31	8.8	14	1.0	1.60	6.1	0.33	9.4	22	1.5	2.00	7.6	0.43	12.3	30	2.1	2.00	7.6	0.61	17.2	44	3.0	2.60	9.8	0.69	19.7	8	0.6	10	0.7	5	13	6.5	17	7.5	19	2	0.6						
	10	0.7	0.70	2.6	0.27	7.6	16	1.1	1.40	5.3	0.43	12.1	26	1.8	1.80	6.8	0.52	14.7	34	2.3	1.80	6.8	0.65	18.4	48	3.3	2.20	8.3	0.87	24.6	16	1.1	2.0	1.4	6	15	8	20	10	25	3	0.9						
	—	—	—	—	—	—	—	22	1.5	0.60	2.3	0.60	16.9	—	—	—	—	—	—	—	—	—	—	—	—	65	4.5	0.60	2.3	1.56	44.2	26	1.8	3.0	2.1	7	18	9.0	23	11	28	4	1.2					
AW8020SS	12	0.8	3.73	14.1	1.65	46.7	24	1.5	5.07	19.2	2.28	64.7	30	2.1	6.40	24.2	2.67	75.4	38	2.6	8.00	30.3	80.5	86.2	54	3.7	9.83	37.2	3.81	10.8	12	0.8	10	0.7	8	20	9.5	24	11	28	6	1.8						
	14	1.0	3.00	11.4	1.90	53.9	24	1.7	4.43	16.8	2.54	71.9	32	2.2	6.00	22.7	2.92	82.6	42	2.9	6.73	25.5	3.55	100.6	56	3.9	9.33	35.3	4.06	11.5	24	1.7	2.0	1.4	8	20	10	25	13	33	8	2.4						
	—	—	—	—	—	—	—	26	1.8	3.83	14.5	2.79	79.0	36	2.5	4.93	18.7	3.43	97.0	46	3.2	5.77	21.8	4.06	115.0	60	4.1	8.33	31.5	4.57	12.9	36	2.5	3.0	2.1	8	20	10	25	13	33	10	3.0					
AW8030SS	10	0.7	6.37	24.1	1.3	36.8	30	1.4	7.87	29.8	1.87	52.8	30	2.1	10.0	37.9	2.52	71.3	40	2.8	11.3	42.9	3.04	86.0	56	3.9	15.0	56.8	3.21	90.9	12	0.8	10	0.7	7.5	19	10	25	13.5	34	8	2.3						
	12	0.8	5.10	19.3	1.65	46.7	22	1.5	6.73	25.5	2.17	61.4	32	2.2	9.33	35.3	2.73	77.4	42	2.9	10.3	39.1	3.30	93.4	58	4.0	14.5	54.9	3.91	11.1	22	1.5	2.0	1.4	7.5	19	10	25	13.5	34	9	2.7						
	14	1.0	3.47	13.1	1.91	54.1	24	1.7	5.93	22.5	2.43	68.8	36	2.5	6.83	25.9	3.39	95.8	46	3.2	8.33	31.5	3.95	111.8	65	4.5	12.0	45.4	4.90	13.9	36	2.5	3.0	2.1	7.5	19	10	25	13.5	34	10	3.0						
AW8040SS	18	1.2	11.3	42.9	2.89	81.8	30	2.1	14.5	54.9	4.16	117.8	44	3.0	16.3	61.8	5.53	156.5	60	4.1	18.0	68.7	7.04	199.3	80	5.5	22.3	84.5	8.89	25.2	18	1.2	1.0	0.7	8	20	10.5	27	12	30	9	2.7						
	26	1.8	9.33	33.3	3.74	105.9	38	2.6	12.7	47.9	5.04	142.8	55	3.8	15.0	56.8	6.72	190.2	80	5.5	14.7	55.5	11.8	259.9	90	6.2	21.0	79.5	9.89	28.0	38	2.6	2.0	1.4	8	20	10	25	12	30	11	3.4						
	34	2.3	6.67	25.2	4.58	129.7	60	4.1	6.7	25.2	7.27	205.7	80	5.5	8.67	32.8	9.18	259.9	100	6.9	10.0	37.9	11.1	315.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



# Atomizing Nozzles

## External Mix Narrow Angle Flat Fan Pattern - 1/8 NPT



**Model: EF8010SS**  
Material: Type 303 Stainless Steel



**Model: EF8020SS**  
Material: Type 303 Stainless Steel



**Model: EF8030SS**  
Material: Type 303 Stainless Steel



**Model: EF8040SS**  
Material: Type 303 Stainless Steel

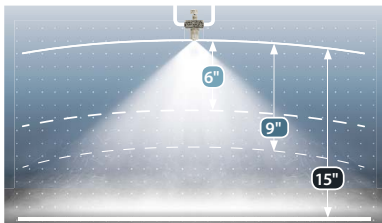


**Model: EF8050SS**  
Material: Type 303 Stainless Steel

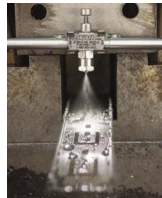
### Model EF8010SS, EF8020SS, EF8030SS, EF8040SS and EF8050SS

1/8 NPT external mix narrow angle flat fan pattern nozzles are great where liquid is needed over a more concentrated area than the internal mix flat fan nozzles. Since they are external mix, airflow and liquid flow can be controlled independently. External mix flat fan pattern nozzles are the best choice where thicker liquids for a heavier coating are needed over a narrow band, such as a paint line.

### For pressure fed applications with independent air and liquid control.

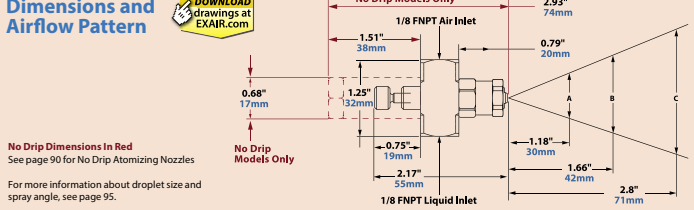


1/8 NPT External Mix Flat Fan atomizing nozzles are very versatile. They can apply a light or heavy film coating to products on a variety of different products.



**Model EF8010SS** applies lubricant to a drawer slide.

### Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

Model	10 PSI/0.7 BAR Liquid				20 PSI/1.4 BAR Liquid				30 PSI/2.1 BAR Liquid				40 PSI/2.8 BAR Liquid				Spray Dimensions												
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air PSI/BAR	Liquid PSI/BAR	Width			Max. Depth feet/m								
																	A	B	C										
EF8010SS	10	0.7		1.20	34.0		10	0.7		1.20	34.0		10	0.7		1.20	34.0	10	0.7	4	10	4	10	4	1.2				
	30	2.1	1.22	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	10	5	13	6	15	6	1.8		
	50	3.4		3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	1.4	10	5	13	6	15	6	1.8		
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	4	10	5	13	8	20	8	2.4
EF8020SS	10	0.7		1.20	34.0		10	0.7		1.20	34.0		10	0.7		1.20	34.0	10	0.7	3	8	4.5	11	4	10	4	1.2		
	30	2.1	2.00	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	3	8	4.5	11	6	15	6	1.8	
	50	3.4		3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	1.4	3	8	4.5	11	7	18	7	2.1	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	4	10	5	13	6	15	6	1.8
EF8030SS	10	0.7		1.20	34.0		10	0.7		1.20	34.0		10	0.7		1.20	34.0	10	0.7	4	10	5	13	5	13	5	1.5		
	30	2.1	4.47	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	2.29	64.8	30	2.1	1.4	4	10	5	13	7	18	7	2.1	
	50	3.4	16.9	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	3.41	96.5	50	3.4	1.4	4	10	5	13	8	20	8	2.4	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	4	10	5	13	8	20	8	2.4
EF8040SS	20	1.4		1.95	55.2		20	1.4		1.95	55.2		20	1.4		1.95	55.2	20	1.4	10	0.7	5.5	14	7	18	7	18	7	2.1
	30	2.1	8.67	2.50	70.8	30	2.1	2.50	70.8	30	2.1	2.50	70.8	30	2.1	2.50	70.8	30	2.1	1.4	10	5.5	14	7	18	9	23	9	2.7
	40	2.8	32.8	3.13	88.6	40	2.8	3.13	88.6	40	2.8	3.13	88.6	40	2.8	3.13	88.6	40	2.8	1.4	10	5.5	14	7	18	10	25	10	3.0
	50	3.4		3.68	104.2	50	3.4	3.68	104.2	50	3.4	3.68	104.2	50	3.4	3.68	104.2	50	3.4	1.4	10	5.5	14	7	18	11	28	11	3.4
EF8050SS	30	2.1		2.28	64.5	30	2.1	2.28	64.5	30	2.1	2.28	64.5	30	2.1	2.28	64.5	30	2.1	10	0.7	7	18	9	23	9	23	9	2.7
	40	2.8	12.6	2.84	80.4	40	2.8	2.84	80.4	40	2.8	2.84	80.4	40	2.8	2.84	80.4	40	2.8	1.4	7	18	9	23	10	25	10	3.0	
	60	4.1		3.87	109.6	60	4.1	3.87	109.6	60	4.1	3.87	109.6	60	4.1	3.87	109.6	60	4.1	1.4	7	18	9	23	12	30	12	3.7	
	70	4.8		4.45	126.0	70	4.8	4.45	126.0	70	4.8	4.45	126.0	70	4.8	4.45	126.0	70	4.8	1.4	7	18	9	23	12	30	12	3.7	

## Siphon Fed Round Pattern - 1/8 NPT



**Model: SR8010SS**  
Material: Type 303 Stainless Steel



**Model: SR8020SS**  
Material: Type 303 Stainless Steel



**Model: SR8030SS**  
Material: Type 303 Stainless Steel



**Model: SR8040SS**  
Material: Type 303 Stainless Steel

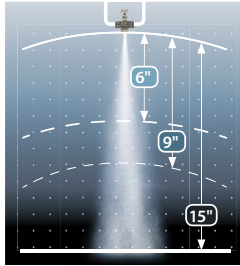


**Model: SR8050SS**  
Material: Type 303 Stainless Steel

### Model SR8010SS, SR8020SS, SR8030SS, SR8040SS and SR8050SS

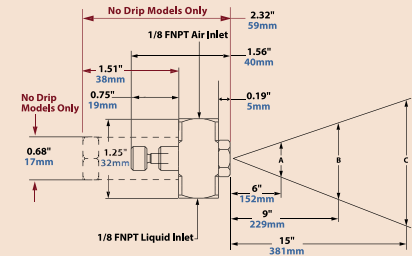
1/8 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

### Siphon or gravity fed for non-pressurized applications.



The amount of liquid applied by the Siphon Fed atomizing nozzles varies depending on valve or inlet pressures.

### Dimensions and Airflow Pattern



For more information about droplet size and spray angle, see page 95.

### Liquid Flow in GPH/LPH

### Spray Dimensions at 8" (20cm) Siphon Height

Model	Liquid Flow in GPH/LPH																Spray Dimensions at 8" (20cm) Siphon Height													
	Air				Gravity Head					Siphon Height							Air		Width			Max. Depth feet/m								
	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	in	cm		A	B	C					
SR8010SS	10	0.7	0.48	13.6	0.35	1.3	0.33	1.2	0.27	1.0	0.21	0.8	0.21	0.8	0.17	0.7	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	20	1.4	0.68	19.2	0.41	1.6	0.40	1.5	0.43	1.6	0.27	1.0	0.26	1.0	0.24	0.9	0.23	0.9	—	—	20	1.4	1.5	4	2	5	3	8	1.5	0.5
	40	2.8	1.35	38.3	0.49	1.9	0.48	1.8	0.46	1.7	0.35	1.3	0.32	1.2	0.30	1.1	0.26	1.0	0.23	0.9	40	2.8	1.5	4	2	5	3	8	2	0.6
	60	4.1	2.12	59.9	0.53	2.0	0.52	2.0	0.50	1.9	0.40	1.5	0.42	1.6	0.33	1.3	0.28	1.1	0.25	0.9	60	4.1	1.5	4	2	5	3	8	3	0.9
SR8020SS	10	0.7	0.59	16.7	0.61	2.3	0.53	2.0	0.48	1.8	0.35	1.3	0.33	1.2	0.24	0.9	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	20	1.4	1.16	32.8	0.73	2.8	0.7	2.6	0.66	2.5	0.58	2.2	0.55	2.1	0.4	1.5	0.35	1.3	—	—	20	1.4	1.5	4	2	5	3	8	2	0.6
	40	2.8	1.9	53.8	0.88	3.3	0.8	3.0	0.76	2.9	0.66	2.5	0.58	2.2	0.53	2.0	0.45	1.7	0.38	1.4	40	2.78	1.5	4	2	5	3	8	3	0.9
	60	4.1	2.62	74.2	0.96	3.6	0.92	3.5	0.82	3.1	0.75	2.8	0.68	2.6	0.6	2.3	0.52	2.0	0.46	1.7	60	4.1	1.5	4	2	5	3	8	4	1.2
SR8030SS	10	0.7	0.55	15.6	1.31	5.0	1.22	4.6	0.96	3.6	0.76	2.9	0.61	2.3	0.53	2.0	—	—	—	—	10	0.7	1.5	4	2	5	3	8	1.5	0.5
	20	1.4	1.06	30.0	1.66	6.3	1.59	6.0	1.23	4.7	1.07	4.1	1.13	4.3	0.92	3.5	0.76	2.9	—	—	20	1.4	1.5	4	2	5	3	8	3	0.9
	40	2.8	1.86	52.7	1.89	7.2	1.8	6.8	1.53	5.8	1.34	5.1	1.49	5.6	1.19	4.5	1.05	4.0	0.82	3.1	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	2.45	69.4	1.98	7.5	1.86	7.0	1.58	6.0	1.46	5.5	1.74	6.6	1.34	5.1	1.29	4.9	1.04	3.9	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8040SS	10	0.7	1.40	39.5	2.65	10.0	2.43	9.2	2.12	8.0	1.22	4.6	1.00	3.8	—	—	—	—	—	—	10	0.7	1.5	4	2	5	3	8	3	0.9
	20	1.4	2.03	57.5	3.01	11.4	2.86	10.8	2.53	9.6	1.78	6.7	1.57	6.0	1.37	5.2	—	—	—	—	20	1.4	1.5	4	2	5	3	8	4	1.2
	40	2.8	3.17	89.8	3.58	13.6	3.55	13.4	3.29	12.0	2.54	9.6	2.48	9.4	2.18	8.2	1.98	7.5	1.22	4.6	40	2.78	1.5	4	2	5	3	8	4	1.2
	60	4.1	4.42	125	4.09	15.5	3.99	15.1	3.75	14.0	3.03	11.5	2.98	11.3	2.85	11.0	2.59	9.8	2.11	8.0	60	4.1	1.5	4	2	5	3	8	5	1.5
SR8050SS	10	0.7	1.84	52.1	1.84	7.0	4.16	15.7	3.83	14.0	3.28	12.4	3.1	11.7	2.45	9.3	0.74	2.8	—	—	20	1.4	1.5	4	2	5	3	8	5	1.5
	20	1.4	2.93	82.9	2.93	11.1	5.53	20.9	3.7	14.0	4.12	15.6	3.51	13.3	3.98	15.0	3.35	12.7	1.8	6.8	40	2.8	1.5	4	2	5	3	8	7	2.1
	40	2.8	4.02	114	4.02	15.2	5.83	22.1	4.39	17.0	4.6	17.4	4.31	16.3	5.08	19.0	4.16	15.7	2.93	11.1	60	4.1	1.5	4	2	5	3	8	9	2.7
	60	4.1	5.12	145	5.12	19.4	5.92	22.4	5.56	21.0	5.5	20.8	5.09	19.3	5.33	20.0	5.18	19.6	3.84	14.5	80	5.5	1.5	4	2	5	3	8	10	3.0

# Atomizing Nozzles

## Siphon Fed Flat Fan Pattern - 1/8 NPT



**Model: SF8010SS**

**Material:** Type 303 Stainless Steel



**Model: SF8020SS**

**Material:** Type 303 Stainless Steel



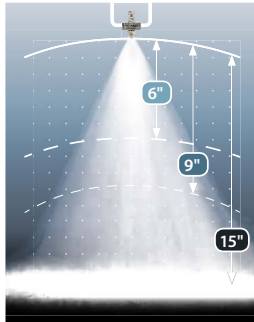
**Model: SF8030SS**

**Material:** Type 303 Stainless Steel

### Model SF8010SS, SF8020SS and SF8030SS

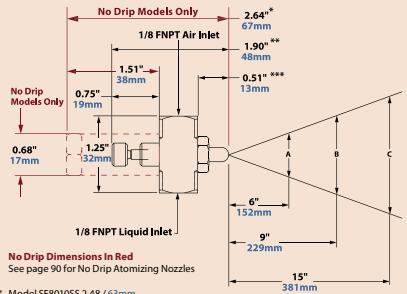
1/8 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed flat fan pattern nozzles are the best choice where liquid is needed over a broad band such as a moving assembly line.

**Siphon or gravity fed for non-pressurized applications.**



1/8 NPT Siphon Fed Flat Fan atomizing nozzles apply a light coating of liquid over a wide band.

### Dimensions and Airflow Pattern



No Drip Dimensions In Red  
See page 90 for No Drip Atomizing Nozzles

\* Model SF8010SS 2.48 / 63mm

\*\* Model SF8010SS 1.74 / 44mm

\*\*\* Model SF8010SS 0.36 / 9mm

For more information about droplet size and spray angle, see page 95.

Model	Liquid Flow in GPH/LPH															Spray Dimensions at 8" (20cm) Siphon Height														
	Air		Gravity Head					Siphon Height								Air		Width			Max. Depth feet/cm									
	Pressure PSI/BAR	SCFM/ SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR	A in cm		B in cm	C in cm							
SF8010SS	10	0.7	1.07	30.3	0.32	1.2	0.30	1.1	0.25	1.0	0.24	0.9	0.23	0.9	0.17	0.7	0.14	0.5	10	0.7	7	18	9	23	12	30	2	0.6		
	20	1.4	1.31	37.1	0.36	1.4	0.35	1.3	0.31	1.2	0.31	1.2	0.30	1.1	0.25	0.9	0.23	0.9	0.19	0.7	7	18	9	23	12	30	2	0.6		
	60	4.1	1.69	47.9	0.43	1.6	0.40	1.5	0.35	1.3	0.34	1.3	0.32	1.2	0.27	1.0	0.26	1.0	0.24	0.9	30	2.1	7	18	9	23	12	30	2	0.6
SF8020SS	20	1.4	1.81	51.3	1.52	5.8	1.33	5.0	1.10	4.2	0.80	0.9	0.76	2.9	0.71	2.7	0.50	1.9	0.36	1.4	20	1.4	8	20	9	23	12	30	2	0.6
	30	2.1	2.30	65.1	1.18	4.5	1.16	4.4	1.06	4.0	0.85	3.2	0.79	3.0	0.77	2.9	0.52	2.0	0.44	1.7	30	2.1	9	23	11	28	13	33	2	0.6
	40	2.8	2.83	80.2	1.01	3.8	0.90	3.4	0.83	3.1	0.70	2.6	0.67	2.5	0.63	2.4	0.42	1.6	0.27	1.0	40	2.8	9	23	10	25	13	33	2	0.6
SF8030SS	50	3.4	3.34	94.6	0.85	3.2	0.71	2.7	0.59	2.2	0.48	1.8	0.41	1.6	0.51	1.9	0.32	1.2	—	—	50	3.4	7	18	8	20	9	23	3	0.9
	20	1.4	1.78	50.3	1.45	5.5	1.40	5.3	1.38	5.2	0.94	3.6	0.90	3.4	0.77	2.9	0.72	2.7	0.61	2.3	20	1.4	7	18	8	20	9.5	24	2	0.6
	30	2.1	2.24	63.5	1.16	4.4	1.12	4.2	1.10	4.2	1.00	3.8	0.98	3.7	0.86	3.2	0.81	3.1	0.69	2.6	30	2.1	7	18	8	20	9.5	24	2	0.6
SF8030SS	40	2.8	2.75	77.8	0.98	3.7	0.96	3.6	0.85	3.2	0.90	3.4	0.87	3.3	0.79	3.0	0.66	2.5	0.52	2.0	40	2.8	7	18	8	20	9.5	24	3	0.9
	50	3.4	3.00	85.0	0.83	3.2	0.79	3.0	0.70	2.6	0.75	2.8	0.69	2.6	0.66	2.5	0.51	1.9	0.44	1.7	50	3.4	7	18	8	20	9.5	24	3	0.9



# Atomizing Nozzles

## Internal Mix Narrow Angle Round Pattern - 1/4 NPT



### Model AN1010SS, AN1020SS, AN1030SS, and AN1040SS

1/4 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, they can apply a heavy coat up close or send a very fine mist over 30 feet away! They are often used for precision application of lubricants during assembly, or marking items as they move through an assembly line. Narrow angle round pattern atomizing nozzles are capable of delivering the most liquid of any of our 1/4 NPT internal mix atomizing nozzles.

For pressure fed applications not requiring independent air and liquid control.



**Model: AN1010SS**  
Material: Type 303 Stainless Steel



**Model: AN1020SS**  
Material: Type 303 Stainless Steel



**Model: AN1030SS**  
Material: Type 303 Stainless Steel

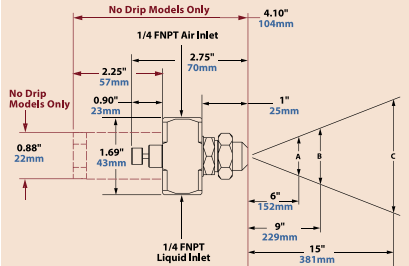


**Model: AN1040SS**  
Material: Type 303 Stainless Steel



The amount of liquid applied can be greatly varied by adjusting the valve or inlet pressures.

### Dimensions and Airflow Pattern



No Drip Only  
Dimensions in Red  
See page 90 for  
No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Spray Nozzles

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m																					
	Air PSI/BAR	LIQ	AIR	Air PSI/BAR	LIQ	AIR	Air PSI/BAR	LIQ	AIR	Air PSI/BAR	LIQ	AIR	Air PSI/BAR	LIQ	AIR	Air PSI/ Liquid PSI/BAR	A in	B cm	C in	C cm																						
AN1010SS	10	0.7	1.4	5.3	0.6	17	18	1.2	1.8	6.8	0.9	25	24	1.7	2.3	8.7	1.0	28	30	2.1	2.7	10.2	1.2	34	40	2.8	3.3	12.5	1.5	42	12	0.8	1.0	0.7	2.3	6	3.3	8	5.0	13	6	1.8
	12	0.8	1.2	4.5	0.7	20	22	1.5	1.6	6.1	1.0	28	32	2.2	1.9	7.2	1.3	37	38	2.6	2.3	8.7	1.5	42	52	3.6	2.8	10.6	1.9	54	20	1.4	2.0	1.4	2.8	7	3.8	10	6.0	15	8	2.4
	14	1.0	1.1	4.2	0.8	23	24	1.7	1.5	5.7	1.1	31	36	2.5	1.6	6.1	1.5	42	44	3.0	1.9	7.2	1.7	48	62	4.3	2.3	8.7	2.4	68	42	2.9	4.0	2.1	3.0	8	4.3	11	6.5	17	10	3.0
AN1020SS	16	1.1	3.7	14.0	2.8	79	28	1.9	5.2	19.7	4.0	113	40	2.8	6.0	22.7	5.2	147	48	3.3	7.0	26.5	5.9	167	65	4.5	9.9	37.5	7.0	198	24	1.7	1.0	0.7	2.5	6	3.5	9	5.5	14	11	3.4
	20	1.4	2.5	9.5	3.4	96	36	2.5	2.7	10.2	5.1	144	48	3.3	3.8	14.4	6.4	181	65	4.5	3.6	13.6	8.1	229	80	5.5	6.6	25.0	8.6	244	38	2.6	2.0	1.4	2.8	7	4.0	10	6.5	17	12	3.7
	24	1.7	1.4	5.3	4.0	113	40	2.8	1.7	6.4	5.7	161	55	3.8	2.1	7.9	7.3	207	75	5.2	1.4	5.3	9.8	277	90	6.2	4.5	17.0	10.1	286	65	4.5	6.0	4.1	4.0	1.0	5.0	13	7.0	18	11	3.4
AN1030SS	28	1.9	0.6	2.3	4.6	130	44	3.0	0.8	3.0	6.4	181	60	4.1	1.1	4.2	8.1	229	80	5.5	0.8	3.0	10.2	289	100	6.9	2.4	9.1	11.3	320	85	5.9	6.0	4.1	4.0	1.0	5.5	14	7.5	19	18	5.5
	12	0.8	7.8	29.5	1.9	54	20	1.4	12.9	48.8	2.5	71	30	2.1	1.5	1.5	3.4	96	38	2.6	18.0	68.1	4.1	116	54	3.7	23.0	87.1	5.3	150	14	1.0	1.0	0.7	2.8	7	4.0	11	6.5	17	10	3.0
	14	1.0	6.0	22.7	2.2	62	24	1.7	9.8	37.1	3.0	85	38	2.6	9.4	35.6	4.5	127	46	3.2	13.1	49.6	5.1	144	65	4.5	17.1	64.7	6.7	190	26	1.8	2.0	1.4	3.8	8	5.0	13	7.0	18	16	4.9
AN1040SS	16	1.1	4.4	16.7	2.6	74	28	1.9	7.0	26.5	3.6	102	42	2.9	7.0	26.5	5.1	144	52	3.6	9.6	36.3	6.0	170	75	5.2	12.3	46.6	8.0	227	50	3.4	4.0	2.8	4.0	1.0	6.0	15	8.0	20	22	6.7
	18	1.2	3.3	12.5	2.9	82	32	2.2	4.1	15.5	4.4	125	46	3.2	5.0	18.9	5.9	167	56	3.9	7.3	27.6	6.6	187	85	5.9	7.3	27.6	9.6	272	70	4.8	6.0	4.1	4.0	1.0	6.0	15	8.0	20	26	7.9
	14	1.0	6.3	23.8	3.5	99	20	1.4	24.0	90.8	3.0	85	28	1.9	33.0	125	3.4	96	32	2.2	46.5	176	2.8	79	42	2.9	66.0	250	2.7	76	14	1.0	1.0	0.7	3.0	8	4.5	11	6.5	17	12	5.2
16	1.1	3.0	11.4	4.2	119	24	1.7	13.0	49.2	4.2	119	32	2.2	24.0	90.8	4.6	130	40	2.8	30.0	114	5.1	144	50	3.4	54.0	204	4.3	122	34	1.7	2.0	1.4	3.5	9	6.0	15	7.5	19	21	6.4	
18	1.2	3.3	12.5	2.9	82	26	1.8	9.0	34.1	4.9	139	36	2.5	12.5	47.3	5.9	167	46	3.2	16.5	62.5	6.8	193	58	4.0	30.0	148	6.6	187	44	3.0	4.0	2.8	4.5	11	7.0	18	8.5	22	30	9.1	
20	1.4	2.5	9.5	3.4	96	28	1.9	5.5	20.8	5.6	159	40	3.0	6.0	22.7	7.4	210	50	3.4	10.3	39.2	8.2	232	70	4.8	15.8	60	10	229	64	4.4	6.1	4.1	5.0	13	7.0	18	20	23	35	10.7	



# Atomizing Nozzles

## Internal Mix Wide Angle Round Pattern - 1/4 NPT



**Model: AW1010SS**  
Material: Type 303 Stainless Steel



**Model: AW1020SS**  
Material: Type 303 Stainless Steel



**Model: AW1030SS**  
Material: Type 303 Stainless Steel



**Model: AW1040SS**  
Material: Type 303 Stainless Steel

### Model AW1010SS, AW1020SS, AW1030SS, and AW1040SS

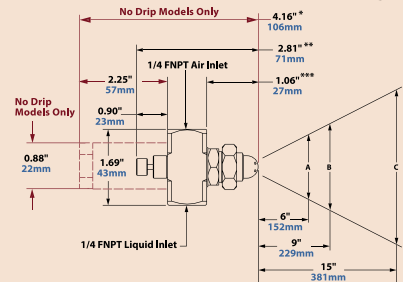
EXAIR's 1/4 NPT internal mix wide angle round pattern atomizing nozzles are great for covering a broad area. They can be adjusted for a light mist or a heavy soaking spray. They are popular for dust mitigation, humidification, and cooling of products, people or livestock in a broad area. These nozzles are also perfect for applying a coating to parts packed in large containers, for example, misting a container of stamped steel parts with oil to prevent oxidation during shipment.

For pressure fed applications not requiring independent air and liquid control.



**A Model AW1030SS is used to keep dust down during charcoal briquette production.**

### Dimensions and Air/Liquid Pattern



No Drip Only Dimensions in Red  
See page 99 for No Drip Atomizing Nozzles

\*\*Model AW1010SS: 4.03\"/>

For more information about droplet size and spray angle, see page 95.



Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																			
	Air Pressure PSI/BAR	GPH/SLPM	SCFM/SLPM	Air Pressure PSI/BAR	GPH/SLPM	SCFM/SLPM	Air Pressure PSI/BAR	GPH/SLPM	SCFM/SLPM	Air Pressure PSI/BAR	GPH/SLPM	SCFM/SLPM	Air Pressure PSI/BAR	GPH/SLPM	SCFM/SLPM	Pressure PSI/BAR	Width Liquid/PSI/BAR	A in	B in	C in	Max. Depth feet/m																														
AW1010SS	8	0.6	1.8	6.8	0.3	8	14	1.0	2.4	9.1	0.4	11	18	1.2	2.1	7.9	0.5	14	30	2.1	2.3	8.7	0.7	20	38	2.6	2.6	9.8	0.8	23	65	4.5	2.5	9.5	1.3	37	42	29.0	10.7	10	0.7	10	0.7	7	18	9	23	14	36	5	1.5
AW1020SS	10	0.7	1.6	6.1	0.4	11	18	1.2	2.1	7.9	0.5	14	30	2.1	2.3	8.7	0.7	20	38	2.6	2.6	9.8	0.8	23	55	3.8	3.1	11.7	1.1	31	34	2.3	3.0	2.1	10	25	12	28	15	38	6	1.8									
AW1030SS	12	0.8	1.5	5.7	0.4	11	22	1.5	1.9	7.2	0.6	17	36	2.5	1.9	7.2	0.8	23	46	3.2	2.1	7.9	1.0	28	65	4.5	2.5	9.5	1.3	37	42	29.0	10.7	10	0.7	10	0.7	25	13	33	17	43	9	2.7							
AW1040SS	14	1.0	1.3	4.9	0.5	14	26	1.8	1.6	6.1	0.7	20	40	2.8	1.6	6.1	0.9	25	50	3.4	1.9	7.2	1.1	31	75	5.2	2.1	7.9	1.5	42	60	4.1	6.0	4.1	10	25	12	30	16	41	12	3.7									
AW1010SS	12	0.8	2.8	10.6	1.7	48	22	1.5	4.0	15.1	2.3	65	30	2.1	5.4	20.4	2.5	71	38	2.6	6.4	24.2	2.9	82	54	3.7	8.5	32.2	3.5	99	12	0.8	10	0.7	10	0.7	25	13	33	17	43	9	2.7								
AW1020SS	14	1.0	1.6	6.1	2.0	57	24	1.7	3.1	11.7	2.5	71	34	2.3	3.8	14.4	3.2	91	44	3.0	4.4	16.7	3.9	110	58	4.0	7.0	26.5	4.1	116	34	2.3	3.0	2.1	11	28	13	33	18	46	11	3.4									
AW1030SS	14	1.0	2.2	8.3	1.9	54	24	1.7	4.5	17.0	2.3	65	38	2.6	1.8	6.8	4.0	113	48	3.3	2.6	9.8	4.6	130	65	4.5	5.4	20.4	5.2	147	46	3.2	4.0	2.8	11	28	14	36	18	46	14	4.3									
AW1040SS	16	1.3	1.6	5.7	2.5	82	26	1.8	2.0	7.6	2.9	82	40	2.8	0.9	3.4	4.5	127	52	3.6	1.0	3.8	5.4	153	75	5.2	1.7	6.4	7.1	201	60	4.1	6.0	4.1	11	28	14	36	16	41	12	3.7									
AW1010SS	10	0.7	6.8	25.7	1.1	31	20	1.4	8.5	32.2	1.5	42	30	2.1	9.0	34.1	2.0	57	40	2.8	10.0	37.9	2.6	74	56	3.9	15.0	56.8	2.9	82	12	0.8	10	0.7	10	0.7	25	13	33	18	46	9	2.7								
AW1020SS	12	0.8	4.5	17.0	1.4	40	22	1.5	6.0	22.7	1.9	54	34	2.3	5.8	22.0	2.8	79	44	3.0	7.0	26.5	3.4	96	60	4.1	12.0	45.4	3.5	99	24	1.7	2.0	1.4	11	28	13	33	18	46	11	3.4									
AW1030SS	14	1.0	2.2	8.3	1.9	54	24	1.7	4.5	17.0	2.3	65	38	2.6	2.4	9.1	3.8	108	48	3.3	3.7	14.0	4.2	119	70	4.8	5.0	18.9	5.6	159	46	3.2	4.0	2.8	11	28	14	36	19	48	15	4.6									
AW1040SS	16	1.3	1.6	5.7	2.5	82	26	1.8	2.0	7.6	2.9	82	40	2.8	1.4	5.3	4.3	122	52	3.6	1.5	5.7	5.2	147	70	4.8	5.0	18.9	3.0	7.7	218	65	4.5	6.0	4.1	11	28	14	36	20	51	19	5.8								
AW1010SS	24	1.7	6.0	22.7	5.4	153	38	2.6	9.3	35.2	7.7	218	48	3.3	15.5	58.7	8.4	238	60	4.1	19.3	73.1	10.3	292	85	5.9	24.0	91.1	13.8	391	68	3.2	4.0	2.8	14	28	14	36	18	46	11	3.4									
AW1020SS	28	1.9	4.0	15.1	6.1	173	44	3.0	5.5	20.8	9.1	258	56	3.9	9.0	34.1	10.6	300	70	4.8	12.0	45.4	12.8	362	90	6.2	21.3	80.6	15.2	430	60	4.1	3.0	2.1	12	30	16	41	21	53	21	6.4									
AW1030SS	30	2.1	2.5	9.5	6.7	190	48	3.3	3.5	13.2	10.0	283	62	4.3	6.0	22.7	12.1	343	80	5.5	6.5	24.6	14.7	416	90	6.5	18.7	70.0	16.5	467	70	5.2	4.0	2.8	12	30	16	41	22	56	24	7.3									
AW1040SS	32	2.2	2.0	7.6	7.3	207	52	3.6	1.9	7.2	10.8	306	70	4.8	2.8	10.6	13.4	379	90	6.2	2.8	10.6	17.2	487	100	6.9	15.8	59.8	17.3	490	75	6.2	4.1	12	30	16	41	23	58	25	8.5										

## Internal Mix Flat Fan Pattern - 1/4 NPT



Model AF1010SS, AF1020SS, AF1030SS, AF1040SS, and AF1050SS

1/4 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, their broad thin pattern makes efficient use of your expensive liquids. Their output can be adjusted for a very light film or a heavy coat of whatever liquid you're working with. Whether it's applying paint to hanging sheet metal, or using a water mist to cool a laminate web, flat fan atomizing nozzles cover a wide flat area, ideal for products moving on a conveyor.

For pressure fed applications not requiring independent air and liquid control.



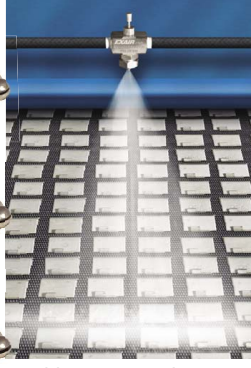
**Model: AF1010SS**  
Material: Type 303 Stainless Steel

**Model: AF1020SS**  
Material: Type 303 Stainless Steel

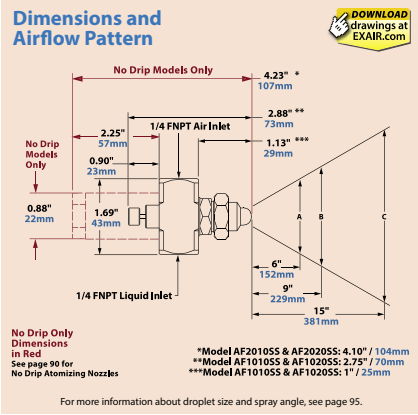
**Model: AF1030SS**  
Material: Type 303 Stainless Steel

**Model: AF1040SS**  
Material: Type 303 Stainless Steel

**Model: AF1050SS**  
Material: Type 303 Stainless Steel



A Model AF1030SS is used to spray an anti-corrosion coating on stamped steel parts as they travel on a conveyor.



Spray Nozzles

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																																
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	Liquid/Bar	Width	Max. Depth feet/m																													
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C																														
AF1010SS	10	0.7	1.6	6.1	0.7	20	18	1.2	2.1	7.9	1.0	28	28	1.9	2.4	9.1	1.4	4.0	38	2.6	2.6	9.8	1.7	48	55	3.8	3.2	12.1	2.2	6.2	16	11.0	0.7	9	23	12	30	15	38	5	1.5							
	14	1.0	1.4	5.3	0.9	25	26	1.8	1.7	6.4	1.3	37	40	2.8	1.8	6.8	1.8	5.1	50	3.4	2.0	7.6	2.1	59	75	5.2	2.3	8.7	3.0	8.5	20	14.0	1.1	28	13	33	17	43	6	1.8								
	18	1.2	1.1	4.2	1.1	31	34	2.3	1.2	4.5	1.7	48	48	3.3	1.4	5.3	2.1	59	60	4.1	1.6	6.1	2.5	71	90	6.2	1.6	6.1	3.6	10.2	50	28	30	2.1	12	30	16	20	5.1	6	1.8							
AF1020SS	22	1.5	0.8	3.0	1.3	37	40	2.8	0.8	3.0	1.9	54	55	3.8	1.0	3.8	2.4	68	70	4.8	1.2	4.5	3.0	85	100	6.9	1.3	4.9	4.1	11.6	85	59	60	4.1	14	36	17	43	23	58	7	2.1						
	12	0.8	2.4	9.1	0.7	20	20	1.4	3.9	10.9	0.9	25	30	2.1	3.9	14.8	1.2	34	38	2.6	4.6	17.4	1.4	40	60	6.5	4.5	4.7	17.8	2.2	6.2	16	11.0	0.7	11	28	14	36	19	48	5	1.5						
	16	1.1	1.8	6.8	0.9	25	28	1.9	2.4	9.1	1.2	34	38	2.6	2.9	11.0	1.5	42	50	3.4	3.2	12.1	1.9	54	75	5.2	3.7	14.0	2.6	7.4	50	29	30	2.1	14	36	17	43	21	53	6	1.8						
AF1030SS	18	1.2	1.1	5.8	1.0	28	32	2.2	1.8	6.8	1.5	42	46	3.2	2.0	7.6	1.9	54	60	4.1	2.2	8.3	2.3	65	85	5.9	2.8	10.6	3.0	8.5	50	34	40	2.8	16	41	19	48	26	66	7	2.1						
	20	1.4	1.3	4.9	1.1	31	36	2.5	1.4	5.3	1.7	48	50	3.4	1.6	6.1	2.1	59	70	4.8	1.4	5.3	2.8	79	95	6.6	2.1	7.9	3.6	10.2	80	55	60	4.1	16	41	21	53	29	74	8	2.4						
	16	1.1	4.5	17.0	2.0	57	28	1.9	6.0	22.7	2.8	79	38	2.6	7.0	26.5	3.5	99	46	3.2	8.5	32.2	4.0	113	65	4.5	11.0	41.6	5.3	15.0	32	12.2	10	11	28	14	15	38	17	43	23	58	11	3.4				
AF1040SS	20	1.4	3.3	12.5	2.4	68	32	2.2	5.0	18.9	3.1	88	48	3.3	6.3	23.8	4.1	116	52	3.6	7.5	28.4	4.5	127	60	4.1	7.9	29.9	4.8	136	90	6.2	8.5	32.2	6.8	19.3	56	39	40	2.8	20	51	25	64	33	84	14	4.3
	24	1.7	2.4	9.1	2.7	76	38	2.4	4.5	17.0	3.3	99	46	3.2	5.5	20.8	4.1	116	58	4.0	6.3	23.8	4.9	139	80	6.0	5.8	30.3	6.4	18.1	45	29	60	4.1	20	51	26	66	35	89	15	4.6						
	28	1.9	1.5	5.7	3.1	88	36	2.5	3.9	14.8	3.5	99	48	3.3	5.1	19.3	4.4	125	60	4.1	6.2	22.7	5.2	147	90	6.2	6.4	24.2	7.2	20.4	47	52	60	4.1	21	53	29	74	8	2.4								
AF1050SS	12	0.8	8.1	30.7	1.4	40	22	1.5	12.0	45.4	1.9	54	34	2.3	13.1	49.6	2.7	76	46	3.2	14.3	54.1	3.4	96	65	4.5	18.3	69.3	4.5	12.7	16	11.0	0.7	14	36	18	46	24	61	10	3.0							
	16	1.1	5.9	22.3	1.8	51	30	2.1	7.1	26.9	2.7	76	42	2.9	8.9	33.7	3.4	96	54	3.7	10.3	39.0	4.1	116	80	5.5	11.9	45.0	5.9	16.7	42	29	30	2.1	16	41	21	53	29	74	12	3.7						
	18	1.2	5.0	18.9	2.0	57	34	2.3	5.6	21.2	3.1	88	48	3.3	6.3	23.8	4.1	116	60	4.1	7.9	29.9	4.8	136	90	6.2	8.5	32.2	6.8	19.3	56	39	40	2.8	20	51	25	64	33	84	14	4.3						
AF1010SS	22	1.5	3.3	12.5	2.4	68	38	2.6	4.1	15.5	3.5	99	52	3.6	5.0	18.9	4.5	127	70	4.8	4.6	17.4	5.8	164	100	6.9	6.2	22.7	7.9	22.4	85	59	60	4.1	21	53	29	74	8	2.4								
	12	0.8	8.8	33.3	3.0	85	26	1.8	11.5	43.5	4.3	122	34	2.3	20.8	78.7	4.6	130	42	2.9	30.0	114	4.8	136	58	4.0	6.2	20.2	15.9	5.5	15.6	16	11.0	0.7	14	36	18	46	24	61	10	3.0						
	16	1.1	5.3	20.1	3.7	105	28	1.9	7.8	29.5	4.9	139	36	2.5	17.0	64.3	4.9	139	46	3.2	20.5	77.6	6.1	173	65	4.5	30.0	114	6.8	19.3	38	2.6	30	2.1	16	41	21	53	24	61	14	4.9						
18	1.2	4.8	17.0	3.1	85	40	2.8	9.0	34.1	6.1	173	50	3.4	13.5	51.1	7.3	207	80	4.8	21.0	79.5	8.7	246	48	3.3	40	2.8	17	43	20	51	25	67	19	48	18	5.5											
20	1.4	3.6	13.3	3.0	85	42	2.9	6.3	23.8	7.0	193	54	3.7	7.5	28.4	8.4	238	80	4.8	14.5	52.2	11.2	317	100	6.9	6.2	22.7	7.9	22.4	85	59	60	4.1	21	53	29	74	8	2.4									

# Atomizing Nozzles

## Internal Mix Deflected Flat Fan Pattern - 1/4 NPT



**Model: AD101055**  
Material: Type 303 Stainless Steel



A Model AD101055 is used to apply a protective coating to wood panels.

### Model AD101055

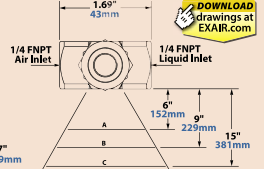
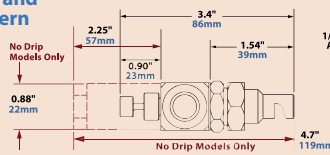
1/4 NPT internal mix deflected flat fan nozzles are designed for applications where space is at a premium. The flat fan pattern sprays at a right angle to the nozzle's orientation, allowing spray to be placed precisely where it's needed in close quarters. These nozzles are ideal for coating the inside of enclosures and ductwork.

For pressure fed applications not requiring independent air and liquid control.

### Dimensions and Airflow Pattern

No Drip Dimensions In Red  
See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.



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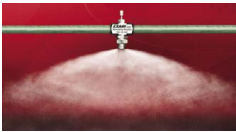
Spray Nozzles

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure Air PSI/BAR Liquid PSI/BAR	Width A in cm B in cm C in cm	Max. Depth in/cm																								
AD101055	6	0.4	3.0	11.5	1.4	4.1	14	1.0	4.0	15.1	2.3	6.6	22	1.5	4.6	17.6	3.2	9.0	26	1.8	5.7	21.4	3.5	9.8	38	2.6	6.9	26.0	4.7	13.3	12	0.8	10	0.7	9	23	14	36	16	41	26	91
	8	0.6	2.7	10.1	1.8	5.0	18	1.2	3.3	12.4	2.9	8.2	26	1.8	4.1	15.4	3.7	10.5	32	2.2	4.9	18.6	4.3	12.1	54	3.7	5.3	20.1	6.6	18.8	22	1.5	20	1.4	11	28	13	33	16	41	42	107
	10	0.7	2.2	8.3	2.1	5.9	20	1.4	2.9	11.0	3.2	9.1	30	2.1	3.4	12.9	4.3	12.2	38	2.6	4.2	15.7	5.1	14.4	62	4.3	4.6	17.3	7.8	22.1	34	2.3	30	2.1	8	20	12	30	16	41	45	114
	12	0.8	1.8	6.9	2.4	6.9	22	1.5	2.3	8.9	3.6	10.1	34	2.3	2.8	10.4	5.0	14.0	46	3.2	2.7	10.3	6.3	18.0	70	4.8	3.1	11.9	9.1	25.8	46	3.2	40	2.8	9	23	12	30	15	38	48	122
																															70	4.8	60	4.1	12	30	15	38	18	46	42	107

## Internal Mix 360° Hollow Circular Pattern - 1/4 NPT



**Model: AT101055**  
Material: Type 303 Stainless Steel



This 360° circular pattern nozzle can be used to coat inside diameters or cover a broad area of over 4' (1219mm).

### Model AT101055

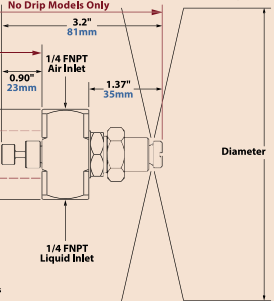
1/4 NPT internal mix 360° nozzles are designed for applications where the spray pattern must be oriented away from the nozzle in all directions. 360° nozzles are ideal where a smooth, even coating is needed on the ID of pipe or similar ductwork. They also work great for operations where a mist over a broad area is needed, such as dust suppression, humidification and cooling.

For pressure fed applications not requiring independent air and liquid control.

### Dimensions and Airflow Pattern

No Drip Dimensions In Red  
See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.



DOWNLOAD drawings at EXAIR.com

## External Mix Round Pattern - 1/4 NPT



**Model: ER1010SS**  
Material: Type 303 Stainless Steel



**Model: ER1020SS**  
Material: Type 303 Stainless Steel



**Model: ER1030SS**  
Material: Type 303 Stainless Steel



**Model: ER1040SS**  
Material: Type 303 Stainless Steel



**Model: ER1050SS**  
Material: Type 303 Stainless Steel

### Model ER1010SS, ER1020SS, ER1030SS, ER1040SS and ER1050SS

1/4 NPT external mix round pattern nozzles are great where a high volume of liquid is needed over a specific area or general area, but not in a flat pattern.

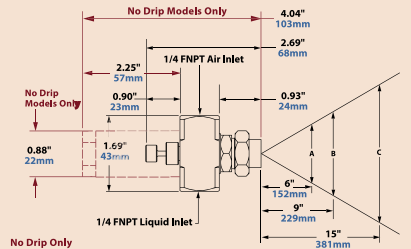
Applications include spot treatments of parts, covering irregularly shaped objects or covering a container of parts with a heavy coat. They are also an excellent choice for controlling heavy dust and particulates. Since they are external mix, airflow and liquid flow can be controlled independently.

For pressure fed applications with independent air and liquid control.



(2) Model ER1020SS atomizing nozzles are used to apply a fire retardant coating to wood trim.

## Dimensions and Airflow Pattern



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Spray Nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions																
	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m											
	in	cm	in	in	cm	in	in	cm	in	in	cm	in	in	cm	Air PSI/ BAR	Liquid PSI/ BAR	A	B	C													
ER1010SS	5	0.3	0.9	25.5	5	0.3	0.9	25.5	10	0.7	1.3	36.8	20	1.4	1.9	53.8	20	1.4	1.9	53.8	10	0.7	3	0.2	30	7.6	43	10.9	63	16.0	9	2.7
	10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	1.9	53.8	40	2.8	3.0	85.0	40	2.8	3.0	85.0	20	1.4	5	0.3	33	8.4	45	11.4	6.8	17.3	11	3.4
	20	1.4	1.9	53.8	30	2.1	2.4	68.0	40	2.8	4.1	116	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
ER1020SS	6	0.4	0.9	25.5	10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	1.9	53.8	40	2.8	3.0	85.0	20	1.4	5	0.3	33	8.4	45	11.4	6.8	17.3	11	3.4
	10	0.7	1.3	36.8	20	1.4	1.9	53.8	20	1.4	1.9	53.8	40	2.8	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
	20	1.4	1.9	53.8	30	2.1	2.4	68.0	40	2.8	4.1	116	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
ER1030SS	10	0.7	1.3	36.8	10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	1.9	53.8	40	2.8	3.0	85.0	20	1.4	5	0.3	33	8.4	45	11.4	6.8	17.3	11	3.4
	20	1.4	1.9	53.8	30	2.1	2.4	68.0	40	2.8	4.1	116	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
	40	2.8	3.0	85.0	50	3.4	3.5	99.1	60	4.1	4.1	116	90	6.2	5.7	161	90	6.2	5.7	161	60	4.1	20	1.4	4.0	10.2	5.5	14.0	8.0	20.3	15	4.6
ER1040SS	10	0.7	1.3	36.8	10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	1.9	53.8	40	2.8	3.0	85.0	20	1.4	5	0.3	33	8.4	45	11.4	6.8	17.3	11	3.4
	20	1.4	1.9	53.8	30	2.1	2.4	68.0	40	2.8	4.1	116	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
	40	2.8	3.0	85.0	50	3.4	3.5	99.1	60	4.1	4.1	116	90	6.2	5.7	161	90	6.2	5.7	161	60	4.1	20	1.4	4.0	10.2	5.5	14.0	8.0	20.3	15	4.6
ER1050SS	10	0.7	1.3	36.8	10	0.7	1.3	36.8	10	0.7	1.3	36.8	20	1.4	1.9	53.8	40	2.8	3.0	85.0	20	1.4	5	0.3	33	8.4	45	11.4	6.8	17.3	11	3.4
	20	1.4	1.9	53.8	30	2.1	2.4	68.0	40	2.8	4.1	116	60	4.1	4.1	116	60	4.1	4.1	116	40	2.8	10	0.7	35	8.9	5.3	13.5	7.5	19.1	13	4.0
	40	2.8	3.0	85.0	50	3.4	3.5	99.1	60	4.1	4.1	116	90	6.2	5.7	161	90	6.2	5.7	161	60	4.1	20	1.4	4.0	10.2	5.5	14.0	8.0	20.3	15	4.6

Note: When air pressure is 10x or more than liquid pressure, liquid flow may diminish.

# Atomizing Nozzles

## External Mix Narrow Angle Flat Fan Pattern - 1/4 NPT



**Model: EF1010SS**  
Material: Type 303 Stainless Steel

### Model EF1010SS, EF1020SS, EF1030SS and EF1040SS

1/4 NPT external mix narrow angle flat fan pattern nozzles are great where a high volume of liquid is needed over a concentrated area. Since they are external mix, airflow and liquid flow can be controlled independently. External mix narrow angle flat fan pattern nozzles are the best choice where thicker liquids for a heavy coating are needed over a narrow band, such as a paint line.



**Model: EF1020SS**  
Material: Type 303 Stainless Steel

For pressure fed applications with independent air and liquid control.



**Model: EF1030SS**  
Material: Type 303 Stainless Steel

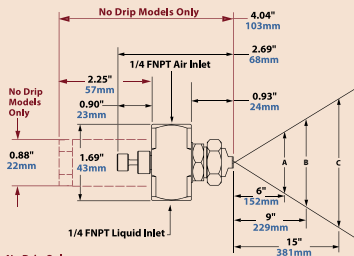


**Model: EF1040SS**  
Material: Type 303 Stainless Steel



A Model EF1020SS is used to supply humidification for a corrosion test chamber.

### Dimensions and Airflow Pattern



DOWNLOAD drawings at EXAIR.com

No Drip Only Dimensions in Red See page 99 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions																						
	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Air Pressure PSI/ BAR	GPH/ LPH	SCFM/ SLPM	Pressure		Width			Max. Depth feet/m																	
																Air PSI/ BAR	Liquid PSI/ BAR	A	B	C																		
EF1010SS	5	0.3		0.8	22.7	10	0.7		1.0	28.3	15	1.0		1.3	36.8	25	1.7		1.8	51.0	45	3.1		2.7	76.5	5	0.3	0.2	4.0	10.2	5.8	14.7	9.5	24.1	6	1.8		
	10	0.7		1.0	28.3	20	1.4		1.5	42.5	25	1.7		1.8	51.0	40	2.8		2.0	56.6	40	2.8		3.4	96.3	25	1.7	0.3	5.5	14.0	8.0	20.3	10.0	25.4	12	3.7		
	20	1.4	1.0	3.8																																		
	40	2.8		2.5	70.8	50	3.4		2.9	82.1	60	4.1		3.4	96.3	90	6.2		4.7	133	95	6.5		5.1	144	75	5.2	0.4	6.5	16.5	9.5	24.1	13.0	33.0	18	5.5		
EF1020SS	10	0.7		1.0	28.3	15	1.0		1.3	36.8	20	1.4		1.5	42.5	25	1.7		2.2	62.3	50	3.4		2.9	82.1	10	0.7	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7		
	20	1.4		1.5	42.5	25	1.7		1.8	51.0	30	2.1		2.0	56.6	40	2.8		2.9	82.1	60	4.1		3.4	96.3	30	2.1	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3		
	30	2.1	2.5	9.5																																		
	50	3.4		2.9	82.1	60	4.1		3.4	96.3	70	4.8		3.8	108	90	6.2		4.7	133	100	6.9		5.2	147	75	5.2	0.4	6.5	16.5	10.0	27.9	16.0	40.6	17	5.2		
EF1030SS	10	0.7		1.0	28.3	15	1.0		1.3	36.8	20	1.4		1.5	42.5	25	1.7		2.2	62.3	50	3.4		2.9	82.1	10	0.7	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7		
	20	1.4		1.5	42.5	25	1.7		1.8	51.0	30	2.1		2.0	56.6	40	2.8		2.9	82.1	60	4.1		3.4	96.3	30	2.1	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3		
	30	2.1	2.5	9.5																																		
	50	3.4		2.9	82.1	60	4.1		3.4	96.3	70	4.8		3.8	108	90	6.2		4.7	133	100	6.9		5.2	147	75	5.2	0.4	6.5	16.5	10.0	27.9	16.0	40.6	17	5.2		
EF1040SS	10	0.7		1.0	28.3	15	1.0		1.3	36.8	20	1.4		1.5	42.5	25	1.7		2.2	62.3	50	3.4		2.9	82.1	10	0.7	0.2	4.5	11.4	7.0	17.8	11.0	27.9	9	2.7		
	20	1.4		1.5	42.5	25	1.7		1.8	51.0	30	2.1		2.0	56.6	40	2.8		2.9	82.1	60	4.1		3.4	96.3	30	2.1	0.3	6.0	15.2	10.0	25.4	14.0	35.6	14	4.3		
	30	2.1	4.4	16.7																																		
	50	3.4		2.9	82.1	60	4.1		3.4	96.3	70	4.8		3.8	108	90	6.2		4.7	133	100	6.9		5.2	147	75	5.2	0.4	6.5	16.5	10.0	27.9	16.0	40.6	17	5.2		

## External Mix Wide Angle Flat Fan Pattern - 1/4 NPT



**Model: EB1010SS**  
Material: Type 303 Stainless Steel



**Model: EB1020SS**  
Material: Type 303 Stainless Steel



**Model: EB1030SS**  
Material: Type 303 Stainless Steel



**Model: EB1040SS**  
Material: Type 303 Stainless Steel

### Model EB1010SS, EB1020SS, EB1030SS and EB1040SS

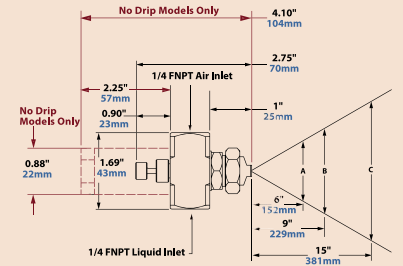
1/4 NPT external mix wide angle flat fan pattern nozzles are great where a high volume of liquid is needed over a wide area such as a conveyor line. Because they are external mix, airflow and liquid flow can be controlled independently. Common applications are those which require a moderate application of liquid over a broad area, such as cooling or coating wide webs.

**For pressure fed applications with independent air and liquid control.**



(2) Model EB1040SS nozzles are used to rinse wine bottles after capping.

### Dimensions and Airflow Pattern



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

DOWNLOAD drawings at EXAIR.com

Spray Nozzles

Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			40 PSI/2.8 BAR Liquid			Spray Dimensions												
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure Air PSI/BAR	Liquid PSI/BAR	Width			Max. Depth feet/m							
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	in	cm	in	cm									
EB1010SS	5 0.3	0.9	25.5	5 0.3	1.4	5.3	0.9	25.5	8 0.6	1.1	31.1	10 0.7	2.7	10.2	1.3	36.8	15 1.0	1.7	48.1	10 0.7	5 0.3	8.0	20.3	110	279	140	35.6	9 2.7
	8 0.6	1.0	3.8	1.1	31.1	10 0.7	1.3	36.8	10 0.7	1.7	48.1	20 1.4	5.9	22.3	2.0	56.6	30 2.1	2.6	73.6	20 1.4	10 0.7	9.0	22.9	120	30.5	170	43.2	11 3.4
	15 1.0	1.7	48.1	20 1.4	2.0	56.6	30 2.1	2.6	73.6	35 2.4	3.0	85.0	35 2.4	3.0	85.0	3.0	85.0	25 1.7	40.2	2.8	110	279	150	38.1	210	53.3	14 4.3	
EB1020SS	6 0.4	1.0	28.3	6 0.4	3.2	12.1	1.0	28.3	6 0.4	1.0	28.3	10 0.7	1.3	36.8	20 1.4	2.0	56.6	8 0.6	5 0.3	110	279	160	40.6	190	48.3	8 2.4		
	7 0.5	1.1	31.1	8 0.6	1.1	31.1	8 0.6	1.1	31.1	12 0.8	1.3	36.8	15 1.0	1.5	42.5	25 1.7	2.3	65.1	15 1.0	20 1.4	110	279	160	40.6	210	53.3	11 3.4	
	8 0.6	1.1	31.1	9 0.6	1.2	34.0	10 0.7	1.3	36.8	15 1.0	1.5	42.5	20 1.4	1.7	48.1	30 2.1	2.6	74.0	20 1.4	20 1.4	120	30.5	170	43.2	220	55.9	12 3.7	
EB1030SS	8 0.6	1.3	36.8	10 0.7	1.3	36.8	12 0.8	1.3	36.8	15 1.0	1.5	42.5	20 1.4	2.0	56.6	35 2.4	3.0	85.0	30 2.1	40.2	2.8	130	33.0	190	48.3	240	61.0	14 4.3
	15 1.0	3.4	96.3	10 0.7	3.8	108	15 1.0	4.8	136	35 2.4	8.4	238	50 3.4	11.0	311	110 311	15 1.0	3 0.2	110	279	170	43.2	210	53.3	13 4.0			
	20 1.4	4.4	16.7	4.8	136	20 1.4	5.9	167	25 1.7	7.6	215	45 3.1	11.0	416	12.3	348	25 1.7	10 0.7	120	30.5	180	45.7	230	58.4	16 4.9			
EB1040SS	20 1.4	5.9	167	25 1.7	7.6	215	35 2.4	8.4	238	55 3.8	11.7	331	85 5.9	15.7	445	60 4.1	30 2.1	140	35.6	180	45.7	240	61.0	210	53.3	16 4.9		
	25 1.7	6.7	190	30 2.1	7.6	215	40 2.8	9.3	263	60 4.1	12.0	349	95 6.5	16.8	476	70 4.8	20 1.4	140	35.6	180	45.7	240	61.0	30 9.1				
	10 0.7	3.8	108	15 1.0	4.8	136	25 1.7	6.7	190	45 3.1	10.1	286	75 5.2	13.7	388	30 2.1	5 0.3	130	33.0	190	48.3	240	61.0	17 5.2				
EB1010SS	15 1.0	4.8	136	20 1.4	5.9	167	30 2.1	7.6	215	50 3.4	11.0	311	85 5.9	15.7	445	65 4.5	20 1.4	140	35.6	200	50.8	260	66.0	19 5.8				
	20 1.4	5.9	167	30 2.1	7.6	215	40 2.8	9.3	263	70 4.8	13.4	379	95 6.5	16.8	476	80 5.5	2 0.1	150	38.1	210	53.3	270	68.6	23 7.0				
	25 1.7	6.7	190	35 2.4	8.4	238	45 3.1	8.1	286	80 5.5	14.8	419	100 6.9	18.3	518	90 6.2	2 0.1	160	40.6	220	55.9	280	71.1	26 7.9				



# Atomizing Nozzles

## Siphon Fed Round Pattern - 1/4 NPT



### Model SR1010SS, SR1020SS, SR1030SS and SR1040SS

1/4 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a thin coating is needed at a specific area. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

Siphon or gravity fed for non-pressurized applications.



Model: SR1010SS  
Material: Type 303 Stainless Steel



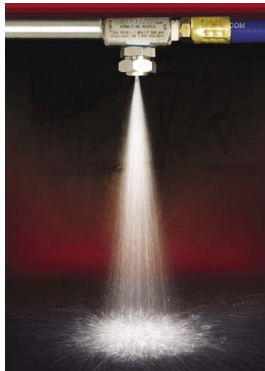
Model: SR1020SS  
Material: Type 303 Stainless Steel



Model: SR1030SS  
Material: Type 303 Stainless Steel

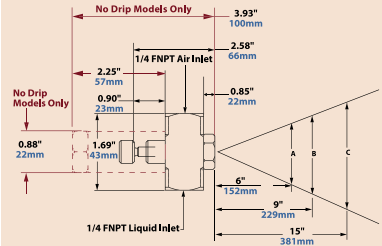


Model: SR1040SS  
Material: Type 303 Stainless Steel



The SR1020SS has a focused, round pattern for precision application of coatings or coolant.

### Dimensions and Airflow Pattern



No Air Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

Liquid Flow in GPH/LPH													Spray Dimensions at 8" (20cm) Siphon Height																	
Model	Air				Gravity Head					Siphon Height				Air		Width				Max. Depth feet/m										
	Pressure PSI/BAR	SCFM/SLPM	18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	36"	91cm	Pressure PSI/BAR		A in	cm	B in	cm	C in	cm				
SR1010SS	10	0.7	0.5	14.2	0.6	2.3	0.5	1.9	0.4	1.5	0.2	0.8	0.2	0.8	---	---	---	---	10	0.7	2.5	6	4.0	10	5.8	15	7	2.1		
	20	1.4	0.7	19.8	0.6	2.3	0.6	2.3	0.5	1.9	0.4	1.5	0.4	1.5	0.3	1.1	---	---	20	1.4	3.3	8	4.3	11	6.0	15	9	2.7		
	40	2.8	1.2	34.0	0.7	2.6	0.7	2.6	0.6	2.3	0.5	1.9	0.5	1.9	0.4	1.5	0.3	1.1	0.2	0.8	2.8	3.8	10	5.0	13	6.8	17	10	3.0	
	60	4.1	1.6	45.3	0.8	3.0	0.8	3.0	0.7	2.6	0.6	2.3	0.5	1.9	0.5	1.9	0.4	1.5	0.2	0.8	60	4.1	3.8	10	5.0	13	6.8	17	11	3.4
SR1020SS	10	0.7	19.8	1.1	4.2	0.9	3.4	0.8	3.0	0.5	1.9	0.4	1.5	0.3	1.1	---	---	---	10	0.7	3.3	8	4.8	12	6.8	17	9	2.7		
	20	1.4	1.1	31.1	1.3	4.9	1.1	4.2	1.0	3.8	0.8	3.0	0.7	2.6	0.6	2.3	0.3	1.1	---	20	1.4	3.5	9	5.0	13	7.0	18	11	3.4	
	40	2.8	1.7	48.1	1.6	6.1	1.5	5.7	1.4	5.3	1.2	4.5	1.0	3.8	1.0	3.8	0.7	2.6	0.4	1.5	40	2.8	3.8	10	5.5	14	7.5	19	14	4.3
	60	4.1	2.3	65.0	1.9	7.2	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5	1.2	4.5	0.9	3.4	0.5	1.9	60	4.1	4.0	10	5.8	15	8.0	20	16	4.9
SR1030SS	20	1.4	2.0	56.6	4.3	16.3	3.8	14.4	3.3	12.5	2.5	9.5	1.8	6.8	1.3	4.9	0.3	1.1	---	20	1.4	3.5	9	5.0	13	7.0	18	12	3.7	
	40	2.8	3.2	90.6	5.0	18.9	4.4	16.7	4.0	15.1	3.3	12.5	2.9	11.0	2.5	9.5	1.3	4.9	1.0	3.8	40	2.8	3.8	10	5.3	13	7.5	19	13	4.0
	60	4.1	4.3	122	5.5	20.8	4.9	18.5	4.5	17.0	3.7	14.0	3.4	12.9	3.1	11.7	1.9	7.2	1.5	5.7	60	4.1	3.8	10	5.5	14	8.0	20	15	4.6
	80	5.5	5.6	158	5.8	22.0	5.3	20.1	4.9	18.5	4.1	15.5	3.9	14.8	3.7	14.0	2.6	9.8	1.7	6.4	80	5.5	4.0	10	5.8	15	8.3	21	18	5.5
SR1040SS	30	2.1	5.7	161	12.3	46.6	11.0	41.6	9.3	35.2	6.3	23.8	5.3	20.1	4.5	17.0	0.6	2.3	---	30	2.1	4.8	12	6.5	17	8.8	22	19	5.8	
	40	2.8	6.9	195	13.0	49.2	11.8	44.7	10.0	37.9	7.3	27.6	6.5	24.6	5.5	20.8	1.5	5.7	0.3	1.1	40	2.8	5.2	13	7.0	18	9.3	24	21	6.4
	60	4.1	9.5	269	14.3	54.1	13.0	49.2	11.5	43.5	8.5	32.2	7.5	28.4	6.5	24.6	2.3	8.7	1.5	5.7	60	4.1	5.5	14	7.5	19	9.8	25	24	7.3
	80	5.5	12.0	340	15.0	56.8	13.5	51.1	12.5	47.3	9.5	36.0	8.5	32.2	7.5	28.4	3.5	13.2	1.9	7.2	80	5.5	5.8	15	7.8	20	10.0	25	27	8.2



## Siphon Fed Flat Fan Pattern - 1/4 NPT



**Model: SF1010SS**

**Material:** Type 303 Stainless Steel



### Model SF1010SS, SF1020SS and SF1030SS

1/4 NPT siphon fed flat fan pattern nozzles are great where no liquid pressure is available and a thin coating is needed over a wide band. Flow rate is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 36" (914mm) or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the airflow. Siphon fed flat fan pattern nozzles are the best choice where liquid is needed over a broad band such as a moving assembly line.



**Model: SF1020SS**

**Material:** Type 303 Stainless Steel



### Siphon or gravity fed for non-pressurized applications.



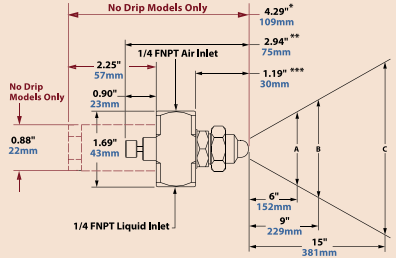
**Model: SF1030SS**

**Material:** Type 303 Stainless Steel



A Model SF1020SS is used to apply a light coating of oil to prevent sockets from rusting prior to a packaging operation.

### Dimensions and Airflow Pattern



No Drip Only Dimensions in Red  
See page 90 for No Drip Atomizing Nozzles

\*Model SF2010SS: 4.15" / 105mm  
\*\*Model SF1010SS: 2.80" / 71mm  
\*\*\*Model SF1010SS: 1.05" / 27mm

For more information about droplet size and spray angle, see page 95.

Liquid Flow in GPH/LPH													Spray Dimensions at 8" (20cm) Siphon Height																	
Model	Air			Gravity Head			Siphon Height						Pressure PSI/BAR	Width			Max. Depth feet/m													
	Pressure PSI/BAR	SCFM/SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"		20cm	12"	30cm		24"	61cm	36"	91cm	A	B	C						
SF1010SS	10	0.7	0.9	25.5	0.4	1.5	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	0.2	0.8	0.1	0.1	0.4	10	0.7	9	23	11	28	13	33	5	1.5	
	20	1.4	1.3	36.8	0.4	1.5	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.2	0.8	0.2	0.8	20	1.4	10	25	12	30	14	36	6	1.8
	30	2.1	1.7	48.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	0.3	1.1	---	---	---	---	---	---	30	2.1	11	28	13	33	15	38	7	2.1
SF1020SS	20	1.4	2.3	65.1	1.2	4.5	1.1	4.2	1.0	3.8	0.9	3.4	0.8	3.0	0.8	3.0	0.6	2.3	0.5	1.9	20	1.4	10	25	14	36	19	48	6	1.8
	30	2.1	2.9	82.1	1.1	4.2	1.1	4.2	1.0	3.8	0.8	3.0	0.8	3.0	0.8	3.0	0.6	2.3	0.5	1.9	30	2.1	11	28	15	38	21	53	7	2.1
	40	2.8	3.5	99.1	1.0	3.8	0.9	3.4	0.8	3.0	0.7	2.6	0.7	2.6	0.7	2.6	0.5	1.9	0.4	1.5	40	2.8	13	33	16	41	23	58	6	1.8
SF1030SS	20	1.4	2.2	62.3	1.8	6.8	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.1	4.2	1.0	3.8	20	1.4	9	23	11	28	15	38	8	2.4
	30	2.1	2.8	79.2	1.9	7.2	1.8	6.8	1.8	6.8	1.7	6.4	1.7	6.4	1.6	6.1	1.4	5.3	1.2	4.5	30	2.1	10	25	13	33	17	43	9	2.7
	40	2.8	3.3	93.4	1.8	6.8	1.8	6.8	1.7	6.4	1.6	6.1	1.6	6.1	1.5	5.7	1.3	4.9	1.2	4.5	40	2.8	11	28	14	36	17	43	10	3.0
50	3.4	4.0	113	1.6	6.1	1.5	5.7	1.4	5.3	1.4	5.3	1.3	4.9	1.3	4.9	1.1	4.2	1.0	3.8	50	3.4	11	28	14	36	18	46	11	3.4	

# Atomizing Nozzles

## Internal Mix Narrow Angle Round Pattern - 1/2 NPT

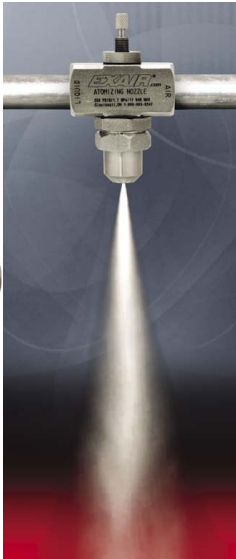
### Model AN5010SS and AN5020SS

1/2 NPT internal mix narrow angle round pattern nozzles are excellent for spraying a concentrated mist of liquid. Because of the versatility of their adjustments, these larger atomizing nozzles can apply a heavy coat up close or send a very fine mist over 40 feet away! They are often used for higher volume application of lubricants during assembly, or marking items as they move through an assembly line.

For pressure fed applications not requiring independent air and liquid control.

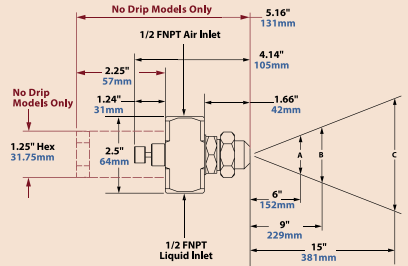


Model: AN5010SS  
Material: Type 303 Stainless Steel



Model: AN5020SS  
Material: Type 303 Stainless Steel

### Dimensions and Airflow Pattern



No Drip Only Dimensions in Red  
See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

For more information about droplet size and spray angle see page 95.

With adjustable liquid flow, these nozzles can be used to apply a heavy coat or a precise volume of liquid.

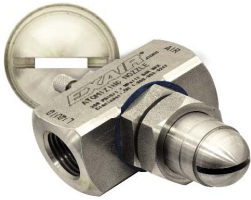
Model	Spray Dimensions								Max. Depth feet/m			
	Pressure				Width							
	Air PSI/BAR	Liquid PSI/BAR			A cm	B cm	C cm					
AN5010SS	20	1.4	5	0.3					22	6.7		
	36	2.5	15	1.0					30	9.1		
	50	3.4	25	1.7	3.5	9	5.75	14.6	8.5	22	34	10.4
	60	4.1	35	2.4							37	11.3
AN5020SS	10	0.7	5	0.3	4	10	6	15.2	8.5	22	20	6.1
	32	2.2	25	1.7	5.5	14	7.5	19.1	10	25	27	8.2
	44	3.0	35	2.4	6	15	9	22.9	10.5	27	35	10.7
	64	4.4	55	3.8	6	15	9	22.9	10.5	27	42	12.8

Model	5 PSI/0.3 BAR Liquid				15 PSI/1.0 BAR Liquid				25 PSI/1.7 BAR Liquid				35 PSI/2.4 BAR Liquid				55 PSI/3.8 BAR Liquid																											
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM		Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM																									
AN5010SS	18	1.2	9	34.1	12	339.8			28	1.9	27	102.2	14.5	411			38	2.6	51.6	195.3	16.4	464			48	3.3	75.6	286	18.4	521														
	20	1.4	7	26.5	12.8	362.5			32	2.2	20	75.7	16.2	459			44	3.0	32.4	122.6	19.5	552			60	4.1	36.6	139	25.3	716														
	22	1.5	6	22.7	13.6	385.2			38	2.6	20	75.7	19	538			54	3.7	22	83.3	24.3	688			72	5.0	21.6	82	31.0	878														
	24	1.7	4.5	17.0	14.5	410.6			42	2.9	12.5	47.3	20.4	578			60	4.1	18	68.1	26.9	762			78	5.4	16.8	64	33.7	954														
AN5020SS	10	0.7	30	113.6	13.7	388.0			18	1.2	98.4	372.4	15.6	442			26	1.8	159	601.8	17.6	498			36	2.5	183	693	20.0	566			54	3.7	231	874.3	26.0	736						
	12	0.8	18.6	70.4	16.2	458.8			20	1.4	73.2	277.1	17.9	507			32	2.2	99	374.7	23.7	671			42	2.9	126	477	26.1	739			60	4.1	168	635.9	33.4	946						
	---	---	---	---	---	---			22	1.5	63.6	240.7	20.3	575			36	2.5	75	283.9	28.6	810			46	3.2	96	363	31.0	878			72	5.0	76	287.7	47.2	1337						
	---	---	---	---	---	---			24	1.7	52.8	199.8	22.6	640			40	2.8	57.6	218.0	33.0	935			52	3.6	71	269	37.7	1068			76	5.2	54	204.4	51.3	1453						



# Atomizing Nozzles

## Internal Mix Flat Fan Pattern - 1/2 NPT



**Model: AF5010SS**  
Material: Type 303 Stainless Steel

### Model AF5010SS and AF5020SS

1/2 NPT internal mix flat fan pattern atomizing nozzles are designed with efficiency in mind. Especially good for vertical or horizontal assembly lines, the broad thin pattern of these larger atomizing nozzles makes efficient use of your expensive liquids. Their output can be adjusted for a very light film or a heavy coat of atomized liquid. Whether it's applying paint to hanging sheet metal, or using a water mist to cool a laminate web, flat fan atomizing nozzles cover a wide flat area, ideal for products moving on a conveyor.

For pressure fed applications not requiring independent air and liquid control.

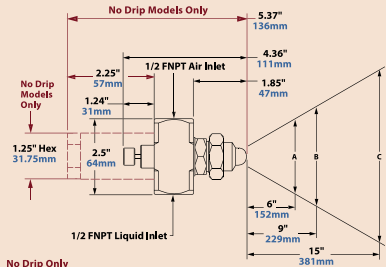


Use the adjustable liquid valve to apply just the right amount of liquid upon your application.



**Model: AF5020SS**  
Material: Type 303 Stainless Steel

## Dimensions and Airflow Pattern



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles

For more information about droplet size and spray angle, see page 95.

## Need Help Choosing The Best Atomizing Nozzle For Your Application?

Not sure which atomizing nozzle is required?

Our Application Engineers can assist you in determining the correct model.

Call 1-800-903-9247 to speak with an Application Engineer.

### Spray Dimensions

Model	Pressure		Width						Max. Depth feet/m			
	Air PSI/ BAR	Liquid PSI/ BAR	A		B		C					
			in	cm	in	cm						
AF5010SS	20	1.4	10	0.7	25	64	34	86	45	114	14	4.3
	40	2.8	20	1.4	28	71	36	91	46	117	18	5.5
	50	3.4	25	1.7	29	74	38	97	48	122	22	6.7
	70	4.8	40	2.8	32	81	42	107	51	130	27	8.2
AF5020SS	10	0.7	5	0.3	21	53	27	69	36	91	13	4.0
	20	1.4	15	1.0	34	86	42	107	52	132	15	4.6
	44	3.0	35	2.4	39	99	47	119	64	163	19	5.8
	64	4.4	55	3.8	40	102	50	127	68	173	20	6.1

Model	5 PSI/0.3 BAR Liquid					15 PSI/1.0 BAR Liquid					25 PSI/1.7 BAR Liquid					35 PSI/2.4 BAR Liquid					55 PSI/3.8 BAR Liquid									
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM									
AF5010SS	---	---	---	---	---	28	1.9	33.6	127	23.4	663	44	3.0	38.4	145	32.4	918	58	4.0	46.2	175	40.3	1141	---	---	---	---	---		
	---	---	---	---	---	30	2.1	25.2	95	25.3	716	48	3.3	35.8	136	36.2	1025	62	4.3	34.8	132	43.5	1232	---	---	---	---	---		
	---	---	---	---	---	34	2.3	12.6	48	28.7	813	50	3.4	18	68	38.0	1076	65	4.5	25.2	95	46.0	1303	---	---	---	---	---		
	---	---	---	---	---	36	2.5	11.5	44	31.2	884	60	4.1	3.5	13	46.0	1303	70	4.8	16.2	61	49.7	1408	---	---	---	---	---		
AF5020SS	10	0.69	18	68	18.0	510	18	1.2	87.6	332	15.6	442	26	1.8	150	568	17.9	507	36	2.5	177	670	22.3	632	54	3.7	231	874	29.3	830
	12	0.83	6	23	6.0	170	20	1.4	62.4	236	18.4	521	30	2.1	99	375	22.3	632	40	2.8	132	500	26.6	753	60	4.1	186	704	35.6	1008
	---	---	---	---	---	22	1.5	45.6	173	20.6	583	36	2.5	50.4	191	29.9	847	46	3.2	76.8	291	34.4	974	68	4.7	108	409	44.4	1257	
	---	---	---	---	---	24	1.7	30.6	116	23.3	660	40	2.8	26.4	100	35.2	997	52	3.6	38.4	145	41.5	1175	76	5.2	66	250	53.13	1505	

## Internal Mix 360° Hollow Circular Pattern - 1/2 NPT



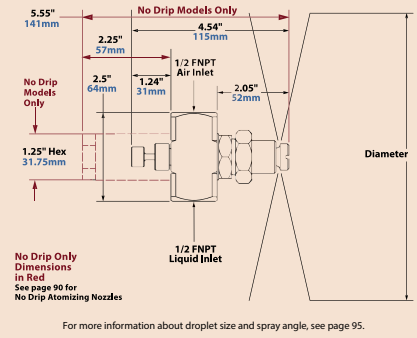
**Model: AT501055**  
**Material: Type 303 Stainless Steel**

### Model AT501055

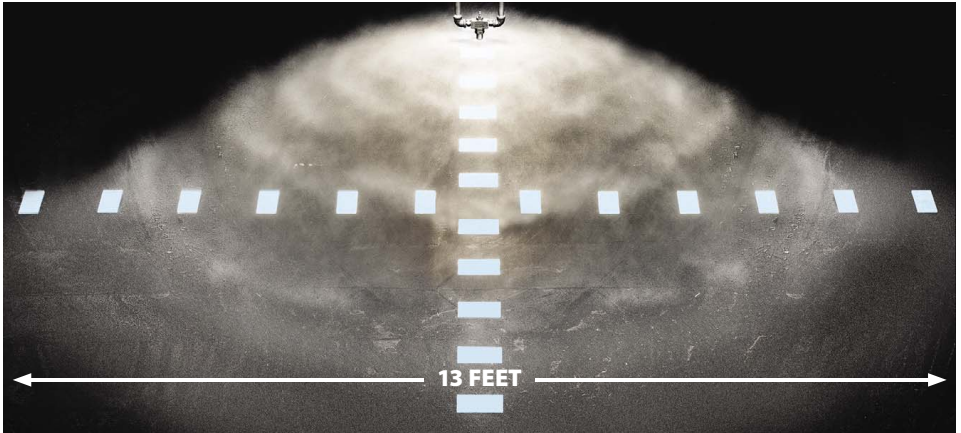
1/2 NPT internal mix 360° nozzles are designed for applications where the spray pattern must be oriented away from the nozzle in all directions. These larger 360° nozzles are ideal where a smooth, even coating is needed on the ID of pipe or similar ductwork. They also work great for operations where a mist over a broad area is needed, such as dust suppression, humidification and cooling.

**For pressure fed applications not requiring independent air and liquid control.**

### Dimensions and Airflow Pattern



Spray Nozzles



360° circular pattern nozzles can be used to coat inside diameters or cover a broad area up to 13' (4m).

Model	10 PSI/0.7 BAR Liquid			20 PSI/1.4 BAR Liquid			30 PSI/2.1 BAR Liquid			40 PSI/2.8 BAR Liquid			60 PSI/4.1 BAR Liquid			Spray Dimensions																				
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure		Diameter																		
	Air PSI/BAR	Liquid PSI/BAR	in	cm																																
AT501055	14	1.0	54	204	13.7	388	24	1.7	100	379	17.3	490	36	2.5	114	431	23.7	671	48	3.3	132	500	29.6	838	72	5.0	150	568	41.5	1175	16	1.1	10	0.7	56	142
	16	1.1	33.6	127	16.3	462	28	1.9	66	250	21.8	617	40	2.8	83	314	28.0	793	54	3.7	85	322	36.2	1025	76	5.2	120	454	45.6	1291	42	2.9	30	2.1	112	284
	18	1.2	16.8	64	18.5	524	32	2.2	32.5	123	26.7	756	46	3.2	38.4	145	34.6	980	60	4.1	42	159	42.7	1209	78	5.4	108	409	47.9	1357	56	3.9	40	2.8	144	366
	20	1.4	10.8	41	20.0	566	36	2.5	12	45	30.8	872	50	3.4	14.4	55	39.1	1107	66	4.6	15.6	59	49.9	1413	82	5.7	84	318	51.5	1458	80	5.5	60	4.1	156	396

# Atomizing Nozzles

## External Mix Narrow Angle Flat Fan Pattern - 1/2 NPT



**Model: EF5010SS**  
**Material: Type 303 Stainless Steel**

### Model EF5010SS

1/2 NPT external mix narrow angle flat fan pattern nozzles are great where a high volume of liquid is needed over a concentrated area. Since they are external mix, airflow and liquid flow can be controlled independently. External mix narrow angle flat fan pattern nozzles are the best choice where thicker liquids for a heavy coating are needed over a narrow band, such as a paint line.

For pressure fed applications with independent air and liquid control.



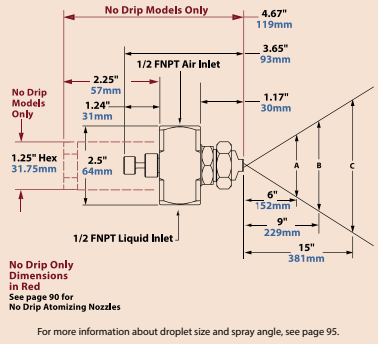
External mix narrow angle flat fan nozzles provide a high volume of liquid in a concentrated area.

Spray Nozzles



See page 4 for complete details.

### Dimensions and Airflow Pattern



Model	3 PSI/0.2 BAR Liquid			5 PSI/0.3 BAR Liquid			7 PSI/0.5 BAR Liquid			10 PSI/0.7 BAR Liquid			15 PSI/1.0 BAR Liquid			Spray Dimensions																										
	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Air Pressure PSI/BAR	GPH/LPH	SCFM/SLPM	Pressure		Width			Max. Depth feet/m																					
	Air PSI/BAR	Liquid PSI/BAR	A	B	C																																					
EF5010SS	30	2.1		30.2	85.4		40	2.8		36.6	1037		45	3.1		39.9	1130		55	3.8		46.4	1314	80	5.5		56.0	1586	35	2.4	3	0.2	15	38	18.5	47	22	56	25	76		
	35	2.4		34.0	96.1		45	3.1		40.4	1144		49.75	1409		50	3.4	5	0.3	15	38	19	48	23	58	31	9.4	60.0	1699	50	3.4	5	0.3	15	38	19	48	23	58	31	9.4	
	40	2.8	141	534	37.3	1055		55	3.8		47.4	1342		60	4.1		49.5	1402	70	4.8		52.84	1496		90	6.2	303	1147	61.4	1739	70	4.8	10	0.7	15	38	20	51	25	64	33	10.1
	45	3.1		40.8	1155		60	4.1		50.0	1416		70	4.8		56.8	1609		80	5.5		59.7	1691		100	6.9		67.6	1914	90	6.2	15	1.0	15	38	20	51	25	64	35	10.7	



## Siphon Fed Round Pattern - 1/2 NPT



**Model:** SR5010SS  
**Material:** Type 303 Stainless Steel

### Model SR5010SS

1/2 NPT siphon fed round pattern nozzles are great where no liquid pressure is available and a heavy coating is needed at a specific area. Flow rate of these larger atomizing nozzles is adjustable via the adjusting valve. Siphon nozzles work best with a suction height of 24" or less. Since these nozzles are siphon fed, the compressed airflow draws the liquid in and mixes it internally. Liquid flow is dependent both on the gravity or suction height and the air flow. 1/2 NPT siphon fed round pattern nozzles provide the most liquid flow of any siphon fed nozzle.

Siphon or gravity fed for non-pressurized applications.



Use a siphon fed nozzle when no liquid pressure is available.

Spray Nozzles

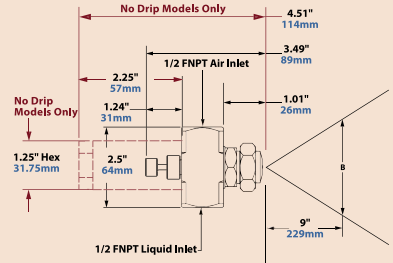
## Air and Liquid Caps are Interchangeable!



Changing liquid volume and/or liquid air pattern can be done in the field. EXAIR's vast selection of caps are all interchangeable!

## Dimensions and Airflow Pattern

DOWNLOAD drawings at EXAIR.com



No Drip Only Dimensions in Red See page 90 for No Drip Atomizing Nozzles For more information about droplet size and spray angle, see page 95.

### Liquid Flow in GPH/LPH

### Spray Dimensions at 8" (20cm) Siphon Height

Model	Air			Gravity Head					Siphon Height							Air		Width		Max. Depth feet/m				
	Pressure PSI/BAR	SCFM/SLPM		18"	46cm	12"	30cm	6"	15cm	4"	10cm	8"	20cm	12"	30cm	24"	61cm	Pressure PSI/BAR			in	cm		
SR5010SS	20	1.4	19.3	547	---	---	---	---	---	22.1	84	14.3	54	---	---	---	---	20	1.4			22	6.7	
	30	2.1	25.2	714	---	---	---	---	---	28.6	108	25.7	97	12.3	47	---	---	30	2.1			25	7.6	
	40	2.8	32.8	929	---	---	56.8	215	41	155	31.5	119	28.4	107	19.6	74	---	40	2.8			28	8.5	
	50	3.4	36.7	1039	61	231	57.4	217	42.8	162	32.1	121	30.2	114	21.8	83	---	50	3.4	6	15	29	8.8	
	60	4.1	42.2	1195	59.1	224	57.4	217	43.8	166	33.1	125	33	125	25.7	97	9.9	37	60	4.1			31	9.4
	70	4.8	47.7	1351	66	250	58.6	222	43.8	166	35.3	134	35.3	134	29.7	112	12.5	47	70	4.8			35	10.7
	80	5.5	52.9	1498	68.3	259	59.1	224	44.5	168	44.6	169	36.9	140	31.5	119	17.5	66	80	5.5			37	11.3





## No Drip Atomizing Spray Nozzles

### Eliminate drips to conserve valuable liquids and improve product finishes!



Spray Nozzles

#### What Are No Drip Atomizing Nozzles?

EXAIR's patented<sup>†</sup> no drip atomizing spray nozzles work in the same way our standard atomizing nozzles do, but have the added benefit of positively stopping liquid flow when compressed air is shut off. All models use stainless steel construction for durability and corrosion resistance.

*EXAIR's no drip atomizing nozzles are available in 3 basic families:*

#### Internal Mix:

Internal mix nozzles mix the liquid and air inside the air cap and produce the finest atomization. Internal mix nozzles can be used on liquids with a viscosity up to 300 cP. Both air and liquid sides are pressure fed. **No Drip Internal Mix Atomizing Nozzles are for pressure fed applications not requiring independent air and liquid control.**

#### External Mix:

External mix nozzles have the highest flow rates and allow the air and liquid flows to be adjusted independently. These nozzles are best where precise liquid flow is needed. External mix nozzles can be used on liquids with a viscosity above 300 cP. Both air and liquid sides are pressure fed. **No Drip External Mix Atomizing Nozzles are for pressure fed applications with independent air and liquid control.**

#### Siphon Fed:

Siphon fed nozzles require no liquid pressure and can be used with gravity fed liquids or lift liquids from a siphon height as much as 36 inches (91cm). Siphon fed nozzles can be used on liquids with a viscosity up to 200 cP. **No Drip Siphon Fed Atomizing Nozzles are siphon or gravity fed for non-pressurized applications.**

<sup>†</sup> Patent #9156045

#### Why No Drip Atomizing Nozzles?

When spraying any type of liquid, post spray liquid flow can cause big problems. Unwanted drips can ruin product finishes on painted or coated surfaces. In addition, excess liquid flow wastes precious resources such as expensive coatings, chemicals or water. EXAIR's no drip atomizing nozzles are ideal where no post-spray drip is permissible. When the compressed air supply is shut off, the no drip nozzle positively seals off the flow of liquid eliminating the possibility of drips. They can be used in any situation that our standard atomizing nozzles can be used, including Siphon Fed applications. Unlike some manufacturers, there's no need to run a separate air line to control the no drip mechanism. The same compressed air used to combine and atomize liquid in a variety of patterns is used to open a valve allowing liquid to flow. That makes these ideal for use with EXAIR's money and energy saving EFC (see page 7).

EXAIR's no drip nozzles do not change flow rates from standard atomizing nozzles. Operations that require up to 180 cycles per minute can be achieved. Minimum operating air pressure of 30 PSIG (2.1 BAR) required for 1/4 and 1/2 NPT nozzles. 20 PSIG (1.4 BAR) is required for 1/8 NPT nozzles.



Mounting Brackets are available - Model 901786 for 1/8 NPT, Model 901318 for 1/4 NPT and Model 901556 for 1/2 NPT atomizing nozzles.



See page 4 for complete details.

#### Applications

- Painting
- Coating
- Rinsing
- Cooling
- Quenching
- Wetting (moistening)
- Humidification
- Dust Control

#### Advantages

- No post spray drip
- Adjustable
- Easily used with an EFC
- Minimizes air and liquid consumption
- All stainless steel construction
- Fine atomization
- Interchangeable liquid and air caps
- Compact

# No Drip Atomizing Nozzles

No Drip Internal Mix Atomizing Nozzles are for pressure fed applications not requiring independent air and liquid control.



Model	Description
<b>No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles</b>	
AN9010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 2.63 GPH/9.96 LPH Max, 1/8 NPT
AN9020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.33 GPH/12.61 LPH Max, 1/8 NPT
AN9030SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 6.3 GPH/23.85 LPH Max, 1/8 NPT
AN9040SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 12.00 GPH/45.42 LPH Max, 1/8 NPT
AN9050SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 18.93 GPH/71.66 LPH Max, 1/8 NPT
AN2010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 3.3 GPH/12.5 LPH Max, 1/4 NPT
AN2020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 9.9 GPH/37.5 LPH Max, 1/4 NPT
AN2030SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 23.0 GPH/87.1 LPH Max, 1/4 NPT
AN2040SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/4 NPT
AN6010SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 75.6 GPH/286 LPH Max, 1/2 NPT
AN6020SS	No Drip Internal Mix Narrow Angle Round Pattern Atomizing Nozzles, 231.0 GPH/874 LPH Max, 1/2 NPT
<b>No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles</b>	
AW9010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 2.60 GPH/9.84 LPH Max, 1/8 NPT
AW9020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 9.83 GPH/37.22 LPH Max, 1/8 NPT
AW9030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.00 GPH/56.78 LPH Max, 1/8 NPT
AW9040SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 22.33 GPH/84.54 LPH Max, 1/8 NPT
AW2010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 3.5 GPH/13.2 LPH Max, 1/4 NPT
AW2020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 8.5 GPH/32.2 LPH Max, 1/4 NPT
AW2030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
AW2040SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 24.0 GPH/91 LPH Max, 1/4 NPT
AW6010SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 66.0 GPH/250 LPH Max, 1/2 NPT
AW6020SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 115.0 GPH/435 LPH Max, 1/2 NPT
AW6030SS	No Drip Internal Mix Wide Angle Round Pattern Atomizing Nozzles, 264.0 GPH/999 LPH Max, 1/2 NPT

NO DRIP INTERNAL MIX ATOMIZING NOZZLES

Spray Nozzles

# No Drip Atomizing Nozzles

Spray Nozzles



Model	Description
<b>No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles</b>	
AF90105S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 3.47 GPH/13.12 LPH Max, 1/8 NPT
AF90205S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 4.27 GPH/16.15 LPH Max, 1/8 NPT
AF90305S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 17.00 GPH/64.35 LPH Max, 1/8 NPT
AF90405S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 28.00 GPH/105.99 LPH Max, 1/8 NPT
AF20105S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 3.2 GPH/12.1 LPH Max, 1/4 NPT
AF20205S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 4.7 GPH/17.8 LPH Max, 1/4 NPT
AF20305S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 11.0 GPH/41.6 LPH Max, 1/4 NPT
AF20405S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 18.3 GPH/69.3 LPH Max, 1/4 NPT
AF20505S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 42.0 GPH/159 LPH Max, 1/4 NPT
AF60105S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 46.2 GPH/175 LPH Max, 1/2 NPT
AF60205S	No Drip Internal Mix Flat Fan Pattern Atomizing Nozzles, 231.0 GPH/874 LPH Max, 1/2 NPT
<b>No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles</b>	
AD20105S	No Drip Internal Mix Deflected Flat Fan Pattern Atomizing Nozzles, 6.9 GPH/26 LPH Max, 1/4 NPT
<b>No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles</b>	
AT20105S	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 14.7 GPH/55.7 LPH Max, 1/4 NPT
AT60105S	No Drip Internal Mix 360° Hollow Circular Pattern Atomizing Nozzles, 150 GPH/568 LPH Max, 1/2 NPT

NO DRIP INTERNAL MIX ATOMIZING NOZZLES

# No Drip Atomizing Nozzles

No Drip External Mix Atomizing Nozzles are for pressure fed applications with independent air and liquid control.



Model	Description
<b>No Drip External Mix Round Pattern Atomizing Nozzles</b>	
ER2010SS	No Drip External Mix Round Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
ER2020SS	No Drip External Mix Round Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
ER2030SS	No Drip External Mix Round Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
ER2040SS	No Drip External Mix Round Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
ER2050SS	No Drip External Mix Round Pattern Atomizing Nozzles, 60.0 GPH/227 LPH Max, 1/4 NPT
<b>No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles</b>	
EF9010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 2.00 GPH/7.57 LPH Max, 1/8 NPT
EF9020SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 2.93 GPH/11.09 LPH Max, 1/8 NPT
EF9030SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 7.67 GPH/29.03 LPH Max, 1/8 NPT
EF9040SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 14.42 GPH/54.59 LPH Max, 1/8 NPT
EF9050SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 25.00 GPH/94.64 LPH Max, 1/8 NPT
EF2010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
EF2020SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
EF2030SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
EF2040SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT
EF6010SS	No Drip External Mix Narrow Angle Flat Fan Pattern Atomizing Nozzles, 303.0 GPH/1,147 LPH Max, 1/2 NPT
<b>No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles</b>	
EB2010SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 3.8 GPH/14.4 LPH Max, 1/4 NPT
EB2020SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 7.5 GPH/28.4 LPH Max, 1/4 NPT
EB2030SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 14.0 GPH/53.0 LPH Max, 1/4 NPT
EB2040SS	No Drip External Mix Wide Angle Flat Fan Pattern Atomizing Nozzles, 31.0 GPH/117 LPH Max, 1/4 NPT

Spray Nozzles

NO DRIP EXTERNAL MIX ATOMIZING NOZZLES

# No Drip Atomizing Nozzles

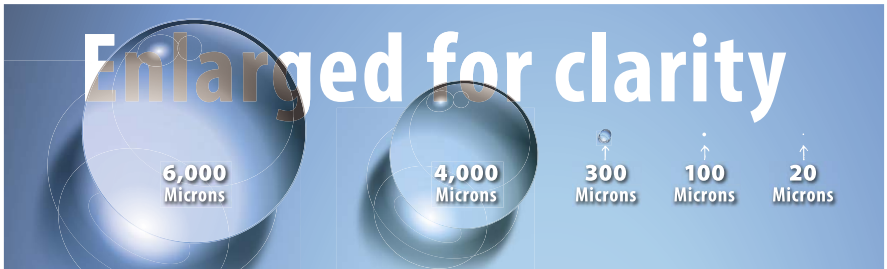
No Drip Siphon Fed Atomizing Nozzles are siphon or gravity fed for non-pressurized applications.

Siphon Nozzles



Model	Description
<b>No Drip Siphon Fed Round Pattern Atomizing Nozzles</b>	
SR9010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.53 GPH/2.02 LPH Max, 1/8 NPT
SR9020SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.96 GPH/3.63 LPH Max, 1/8 NPT
SR9030SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.98 GPH/7.50 LPH Max, 1/8 NPT
SR9040SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 4.09 GPH/15.48 LPH Max, 1/8 NPT
SR9050SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.12 GPH/19.38 LPH Max, 1/8 NPT
SR2010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 0.8 GPH/3.0 LPH Max, 1/4 NPT
SR2020SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 1.9 GPH/7.2 LPH Max, 1/4 NPT
SR2030SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 5.8 GPH/22.0 LPH Max, 1/4 NPT
SR2040SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 15.0 GPH/56.8 LPH Max, 1/4 NPT
SR6010SS	No Drip Siphon Fed Round Pattern Atomizing Nozzles, 68.3 GPH/259 LPH Max, 1/2 NPT
<b>No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles</b>	
SF9010SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.43 GPH/1.62 LPH Max, 1/8 NPT
SF9020SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.52 GPH/5.75 LPH Max, 1/8 NPT
SF9030SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.45 GPH/5.49 LPH Max, 1/8 NPT
SF2010SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 0.4 GPH/1.5 LPH Max, 1/4 NPT
SF2020SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.2 GPH/4.5 LPH Max, 1/4 NPT
SF2030SS	No Drip Siphon Fed Flat Fan Pattern Atomizing Nozzles, 1.9 GPH/7.2 LPH Max, 1/4 NPT

NO DRIP SIPHON FED ATOMIZING NOZZLES



## Droplet Size

One of the primary reasons atomizing spray nozzles are used is because of their fine droplet size. Benefits of fine droplet size include even coating and liquid conservation. For reference, a large raindrop is around 6,000 microns (0.236") in diameter. Standard liquid nozzles produce droplet sizes ranging from 4,000 microns (0.157") down to 300 microns (0.012") in diameter. EXAIR's Atomizing Nozzles produce minuscule droplet sizes in the range of 100 microns (0.004") to 20 microns (0.0008")!

Droplet size can be adjusted by varying either the air or liquid pressure. An increase in air pressure or decrease in liquid pressure will generally produce a smaller droplet size. Below is a chart showing various models of atomizing air nozzles and their droplet sizes at selected pressures.

Droplet Size			
Model	Liquid Pressure	Air Pressure	Droplet Size $\mu\text{m}^*$
AN1020SS	20 PSI	40 PSI	71
	40 PSI	65 PSI	83
ER1020SS	5 PSI	40 PSI	39
	20 PSI	40 PSI	57
SR1020SS	4" Siphon Height	20 PSI	25
	4" Siphon Height	40 PSI	22

\* Volume Median Diameter  $D_{V(50.0)}$  of liquid droplets.  
 $1 \mu\text{m} = 1 \text{ micron} = 0.00004"$ . All tests performed with water.

## Spray Angle

The Spray Angle is the trigonometric angle created by the width of the spray pattern and the distance at which it is measured. This angle can vary greatly within a given family of atomizing nozzles depending on flow rates and pressures, but will generally fall into the ranges below:

Spray Angle		
Family	Minimum Angle	Maximum Angle
Internal Mix Narrow Angle Round Pattern - AN1010SS, AN2010SS, etc.	20°	45°
Internal Mix Wide Angle Round Pattern - AW1010SS, AW2010SS, etc.	50°	90°
Internal Mix Flat Fan Pattern - AF1010SS, AF2010SS, etc.	50°	120°
Internal Mix Deflected Flat Fan Pattern - AD1010SS, AD2010SS, etc.	67°	90°
External Mix Round Pattern - ER1010SS, ER2010SS, etc.	25°	60°
External Mix Narrow Angle Flat Fan Pattern - EF1010SS, EF2010SS, etc.	35°	70°
External Mix Wide Angle Flat Fan Pattern - EB1010SS, EB2010SS, etc.	50°	105°
Siphon Fed Round Pattern - SR1010SS, SR2010SS, etc.	20°	50°
Siphon Fed Flat Fan Pattern - SF1010SS, SF2010SS, etc.	50°	100°