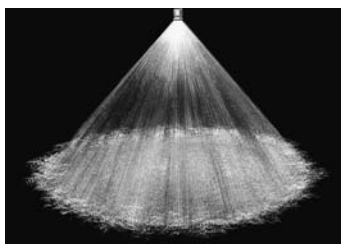


SF

Snap Release Nozzle System

DESIGN FEATURES

- Nozzles can be quickly changed and aligned by hand without tools
- Clamp-on adapter fits any style nozzle
- Quick set-up system features special "Snap-in" tips
- Polypropylene, resistant to most acids and alkalis
- Double clamp base or adapter available for higher pressure operation



80° Full Cone

SPRAY CHARACTERISTICS

- Quick Set-up System can be provided with fan, hollow or full cone spray tips
- Full 45° alignment of spray without tools

More SF Nozzle Systems:

Hollow Cone: page 48

Flat Fan: page 64

Flow rates: 0.35 to 15.8 gpm

Spray angles:

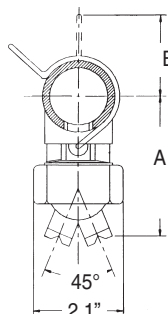
Full Cone: 35°, 65°, 80°



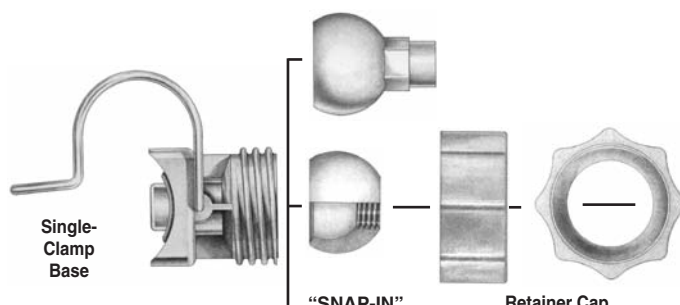
Double Clamp Adapter with Spiral Nozzle



FULL CONE

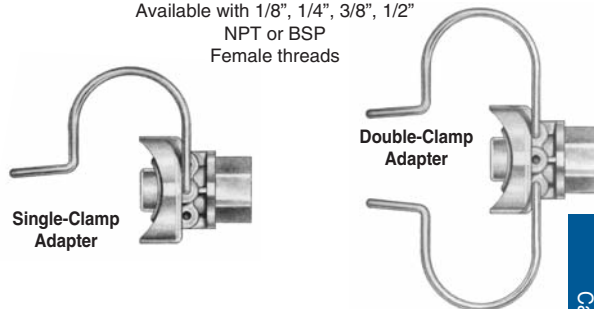


"SNAP-IN" Full Cone Nozzle Tip



Threaded Swivel Ball

Available with 1/8", 1/4", 3/8", 1/2" NPT or BSP Female threads



CLAMP-ON ADAPTER

- Available for 1", 1-1/4", 1-1/2" and 2" pipe.
- Available with 1/8", 1/4", 3/8", 1/2" NPT female threads; or 1/8" BSP female threads
- Available with single or double clamp.
- **TO ORDER ADAPTER Specify: Pipe Size, thread size, thread type, number of clamps, materials.**

SF Flow Rates and Dimensions

SF Full Cone 35°, 65° and 80° Spray Angles 1", 1-1/4", 1-1/2" and 2" Pipe Sizes

Nozzle Number	Available Spray Angle	K Factor	GALLONS PER MINUTE @ PSI									Pipe Size	Body Color	Approx Dim. (in.)		Wt. (oz.)
			5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI			A	B	
SF31FC	35°	0.527	1.14	1.59	1.94	2.22	2.70	3.10	3.77	4.32	4.81	1"	blue	3.3	1.7	2.0
SF32FC	80°	0.545	1.18	1.64	2.00	2.29	2.79	3.20	3.89	4.46	4.97	1-1/4"	red	3.4	1.9	2.2
SF102FC	65°	1.736	3.76	5.24	6.37	7.31	8.88	10.2	12.4	14.2	15.8	1-1/2"	purple	3.6	2.0	2.2
												2"	green	3.7	2.2	2.2

$$\text{Flow Rate (GPM)} = K(\text{PSI})^{0.48}$$

Standard Materials: Polypropylene, 302 Stainless Steel clamp, EPDM seal.

Optional Materials: Viton seal.

NOTE: Drill 21/32" hole in pipe to install SF.

NOTE: Maximum recommended working pressures for SF assemblies: with single clamp, 70 psi for 1" pipe; 50 psi for 1-1/4" and 1-1/2" pipe; and 35 psi for 2" pipe; with double clamp up to 150 psi.



SF

Snap Release Nozzle System

DESIGN FEATURES

- Nozzles can be quickly changed and aligned by hand without tools
- Clamp-on adapter fits any style nozzle
- Quick set-up system features special "Snap-in" tips
- Polypropylene, resistant to most acids and alkalis
- Double clamp base or adapter available for higher pressure operation

SPRAY CHARACTERISTICS

- Quick Set-up System can be provided with fan, hollow or full cone spray tips
- Full 45° alignment of spray without tools

More SF Nozzle Systems:

Full Cone: page 31

Flat Fan: page 64

Flow rates: 0.35 to 15.8 gpm

Spray angles:

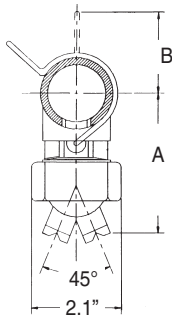
Fan: 40°, 50°, 65°, 80°, 95°

Hollow Cone: 50°, 65°, 90°

Full Cone: 35°, 65°, 80°

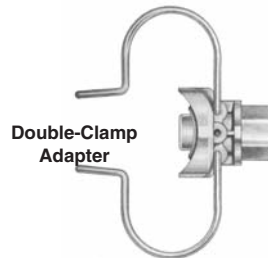


Double Clamp Adapter with Spiral Nozzle

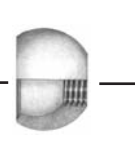


CLAMP-ON ADAPTER

- Available for 1", 1-1/4", 1-1/2" and 2" pipe.
- Available with 1/8", 1/4", 3/8", 1/2" NPT female threads; or 1/8" BSP female threads
- Available with single or double clamp.
- **TO ORDER ADAPTER Specify: Pipe Size, thread size, thread type, number of clamps, materials.**



"SNAP-IN" Hollow Cone Nozzle Tip



"SNAP-IN" Threaded Swivel Ball
Available with 1/8", 1/4", 3/8", 1/2" NPT or BSP Female threads

Retainer Cap

Dimensions are approximate. Check with BETE for critical dimension applications.

SF Flow Rates and Dimensions

SF Hollow Cone 50°, 65° and 90° Spray Angles 1", 1-1/4", 1-1/2" and 2" Pipe Sizes

	Available		GALLONS PER MINUTE @ PSI												Approx.		
Nozzle Number	Spray Angle	K Factor	5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	Pipe Size	Body Color	A	B	Wt. (oz.)	
SF15HC	90°	0.237	0.53	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	1"	blue	3.3	1.7	2.0	
SF58HC	50°	0.917	2.05	2.90	3.55	4.10	5.20	5.80	7.10	8.20	9.17	1-1/4"	red	3.4	1.9	2.2	
SF100HC	65°	1.581	3.53	5.00	6.12	7.07	8.65	10.0	12.2	14.1	15.8	1-1/2"	purple	3.6	2.0	2.2	
												2"	green	3.7	2.2	2.2	

$$\text{Flow Rate (GPM)} = K\sqrt{\text{PSI}}$$

Standard Materials: Polypropylene, 302 Stainless Steel clamp, EPDM seal.

Optional Materials: Viton seal.

NOTE: Drill 21/32" hole in pipe to install SF.

NOTE: Maximum recommended working pressures for SF assemblies: with single clamp, 70 psi for 1" pipe; 50 psi for 1-1/4" and 1-1/2" pipe; and 35 psi for 2" pipe; with double clamp up to 150 psi.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

SF

Snap Release Nozzle System

DESIGN FEATURES

- Nozzles can be quickly changed and aligned by hand without tools
- Clamp-on adapter fits any style nozzle
- Quick set-up system features special "Snap-in" tips
- Polypropylene, resistant to most acids and alkalis
- Double clamp base or adapter available for higher pressure operation

SPRAY CHARACTERISTICS

- Quick Set-up System can be provided with fan, hollow or full cone spray tips
- Full 45° alignment of spray without tools

More SF Nozzle Systems:

Hollow Cone: page 48

Flat Fan: page 64

Flow rates: 0.35 to 15.8 gpm

Spray angles:

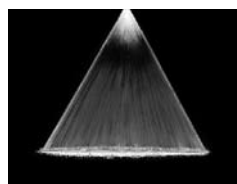
Fan: 40°, 50°, 65°, 80°, 95°

Hollow Cone: 50°, 65°, 90°

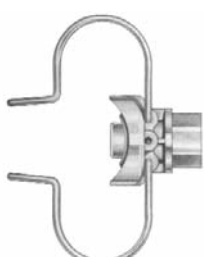
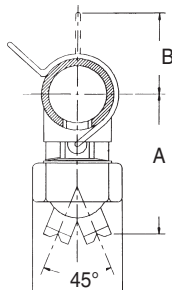
Full Cone: 35°, 65°, 80°



Snap-In Fan Tip



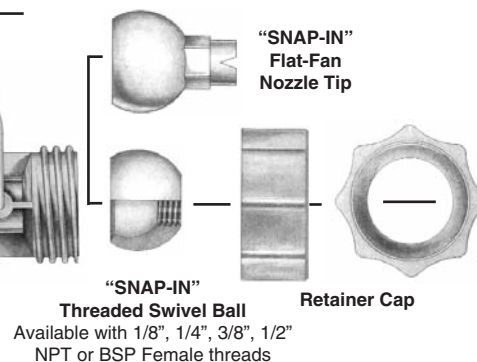
50° Fan



Double-Clamp Adapter



Single-Clamp Adapter



CLAMP-ON ADAPTER

- Available for 1\", 1-1/4\", 1-1/2\" and 2\" pipe.
- Available with 1/8\", 1/4\", 3/8\", 1/2\" NPT female or 1/8\" BSP female threads
- Available with single or double clamp.

TO ORDER ADAPTER

Specify: Pipe Size, thread size, thread type, number of clamps, materials.

SF Flow Rates and Dimensions

SF Fan 40°, 50°, 65°, 80°, 95° Spray Angles 1\", 1-1/4\", 1-1/2\" and 2\" Pipe Sizes

Nozzle No.	Available Spray Angles	K Factor	GALLONS PER MINUTE @ PSI									Equiv. Orifice Dia. (in.)	Pipe Size	Body Color	Approx. Dim. (in.)			Wt. (oz.)
			5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI				A	B		
SF10	80°	0.158	0.35	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	0.078	1"	blue	3.3	1.7	2.0	
SF20	65°	0.316	0.71	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.16	0.109	1-1/4"	red	3.4	1.9	2.2	
SF30	65°	0.474	1.06	1.50	1.84	2.12	2.60	3.00	3.67	4.24	4.74	0.141						
SF40	65°	0.632	1.41	2.00	2.45	2.83	3.46	4.00	4.90	5.66	6.32	0.156	1-1/2"	purple	3.6	2.0	2.2	
SF50	40° 50° 65°	0.791	1.77	2.50	3.06	3.54	4.33	5.00	6.12	7.07	7.91	0.172						
SF60	50° 65° 80° 95°	0.949	2.12	3.00	3.67	4.24	5.20	6.00	7.35	8.49	9.49	0.188	2"	green	3.7	2.2	2.2	
SF70	50° 80°	1.11	2.47	3.50	4.29	4.95	6.06	7.00	8.57	9.90	11.1	0.203						
SF100	50°	1.58	3.53	5.00	6.12	7.07	8.65	10.0	12.2	14.1	15.8	0.250						

$$\text{Flow Rate (GPM)} = K \sqrt{\text{PSI}}$$

Standard Materials: Polypropylene, 302 Stainless Steel clamp, EPDM seal.

Optional Materials: Viton seal.

NOTE: Drill 21/32" hole in pipe to install SF.

NOTE: Maximum recommended working pressures for SF assemblies: with single clamp, 70 psi for 1" pipe; 50 psi for 1-1/4" and 1-1/2" pipe; and 35 psi for 2" pipe; with double clamp up to 150 psi.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

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