

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 68

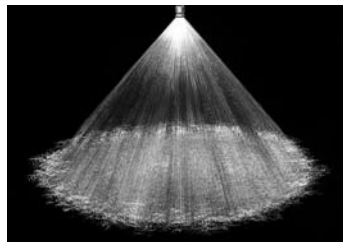
Flow rates: 1.61 to 75.6 l/min

Spray angles:

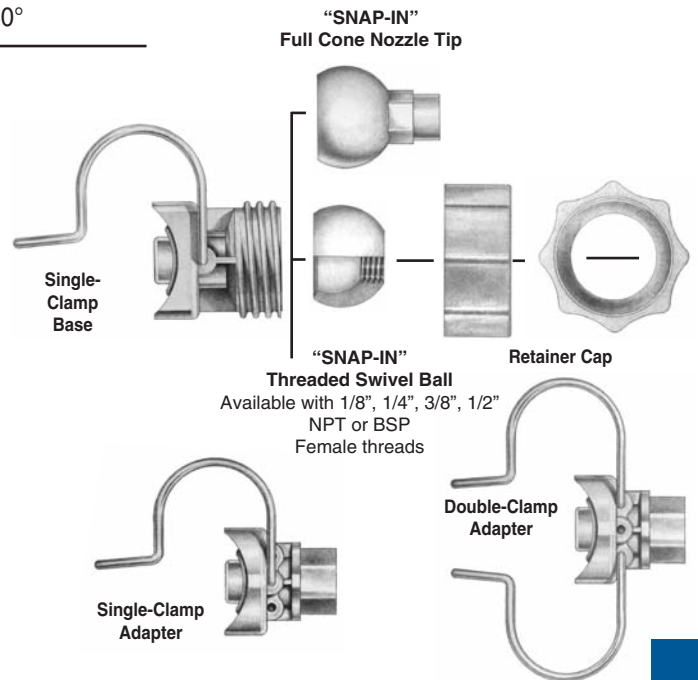
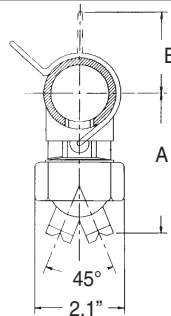
Full Cone: 35°, 65°, 80°



FULL CONE



80° Full Cone



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"

Nozzle Number	Available Spray Angle	K Factor	LITERS PER MINUTE @ BAR								Pipe Size	Body Color	Approx Dim. (mm)		Wt. (g)
			0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	10 bar			A	B	
SF31FC	35°	7.596	5.45	6.40	7.60	10.6	12.9	16.4	19.3	22.9	1"	blue	83.8	43.2	62.4
SF32FC	80°	7.855	5.63	6.62	7.86	11.0	13.3	17.0	20.0	23.7	1-1/4"	red	86.4	48.3	62.4
SF102FC	65°	25.02	17.9	21.1	25.0	34.9	42.4	54.2	63.7	75.6	1-1/2"	purple	91.4	50.8	62.4
											2"	green	94.0	55.9	62.4

$$\text{Flow Rate (l/min)} = K (\text{bar})^{0.48}$$

Standard Materials: Polypropylene, 302 Stainless Steel clamp, EPDM seal.
Optional Materials: 303 Stainless Steel clamp, Viton seal.

NOTE: Drill 16.7mm (21/32") hole in pipe to install SF.

NOTE: Maximum recommended pressures for SF assemblies: With single clamp 5 bar for 1" pipe; 3.5 bar for 1-1/4" and 1-1/2" pipe; and 2 bar for 2" pipe; with double clamp up to 10 bar.

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

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Full Cone: page 31

Flat Fan: page 68

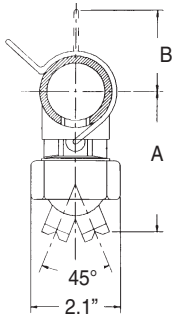
Flow rates: 2.42 - 72.1 l/min

Spray angles:

Fan: 40°, 50°, 65°, 80°, 95°

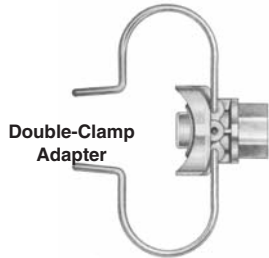
Hollow Cone: 50°, 65°, 90°

Full Cone: 35°, 65°, 80°

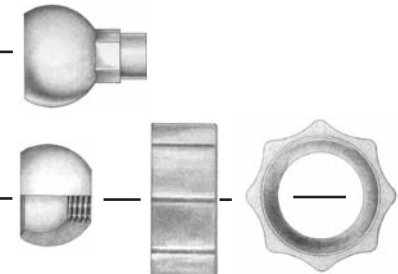


CLAMP-ON ADAPTER

- 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

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"

Nozzle Number	Available Spray Angle	K Factor	LITERS PER MINUTE @ BAR								Pipe Size	Body Color	Approx. Dim. (mm)		Wt. (g)
			0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	10 bar			A	B	
SF15HC	90°	3.416	2.42	2.86	3.42	4.83	5.92	7.64	9.04	10.8	1"	blue	83.8	43.2	62.4
SF58HC	50°	13.22	9.35	11.1	13.2	18.7	22.9	29.6	35.0	41.8	1-1/4"	red	86.4	48.3	62.4
SF100HC	65°	22.79	16.1	19.1	22.8	32.2	39.5	51.0	60.3	72.1	1-1/2"	purple	91.4	50.8	62.4
											2"	green	94.0	55.9	62.4

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

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

Optional Materials: 303 Stainless Steel clamp, Viton seal.

NOTE: Drill 16.7mm (21/32") hole in pipe to install SF.

NOTE: Maximum recommended pressures for SF assemblies: With single clamp 5 bar for 1" pipe; 3.5 bar for 1-1/4" and 1-1/2" pipe; and 2 bar for 2" pipe; with double clamp up to 10 bar.

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Full Cone: page 31

Hollow Cone: page 48

Flow rates: 1.61 to 75.6 l/min

Spray angles:

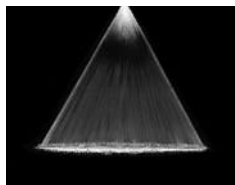
Fan: 40°, 50°, 65°, 80°, 95°

Hollow Cone: 50°, 65°, 90°

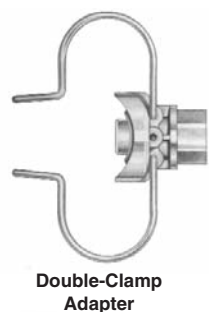
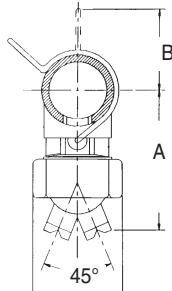
Full Cone: 35°, 65°, 80°



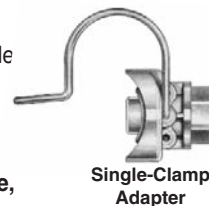
Snap-In Fan Tip



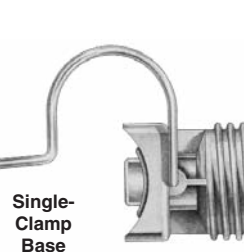
50° Fan



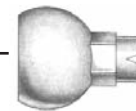
Double-Clamp Adapter



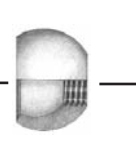
Single-Clamp Adapter



Single-Clamp Base



"SNAP-IN" Flat-Fan Nozzle Tip



"SNAP-IN" Threaded Swivel Ball



Retainer Cap

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 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° and 90° Spray Angles 1", 1-1/4", 1-1/2" and 2"

Nozzle Number	Available Spray Angles	K Factor	LITERS PER MINUTE @ BAR										Approx. Orifice Dia. (mm)	Pipe Size	Body Color	Pipe O.D. (mm)	Approx. Dim. (mm)		Wt. (g)
			0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	10 bar	A	B							
SF10	80°	2.277	1.61	1.91	2.28	3.22	3.94	5.09	6.03	7.20	2.0	1"	blue	33.40	83.8	43.2	62.4		
SF20	65°	4.556	3.22	3.81	4.55	6.44	7.89	10.2	12.1	14.4	2.8	1-1/4"	red	42.16	86.4	48.3	62.4		
SF30	65°	6.832	4.83	5.72	6.83	9.66	11.8	15.3	18.1	21.6	3.6								
SF40	65°	9.109	6.44	7.62	9.11	12.9	15.8	20.4	24.1	28.8	4.0	1-1/2"	purple	48.26	91.4	50.8	62.4		
SF50	40° 50° 65°	11.40	8.06	9.54	11.4	16.1	19.7	25.5	30.2	36.1	4.4								
SF60	50° 65° 80° 95°	13.68	9.67	11.4	13.7	19.3	23.7	30.6	36.2	43.3	4.8	2"	green	60.33	94.0	55.9	62.4		
SF70	50° 80°	16.00	11.3	13.4	16.0	22.6	27.7	35.8	42.3	50.6	5.2								
SF100	50°	22.7	16.1	19.1	22.8	32.2	39.4	50.9	60.3	72.0	6.4								

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

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

Optional Materials: Viton seal.

NOTE: Drill 16.7mm (21/32") hole in pipe to install SF.

NOTE: Maximum recommended pressures for SF assemblies: With single clamp 5 bar for 1" pipe; 3.5 bar for 1-1/4" and 1-1/2" pipe; and 2 bar for 2" pipe; with double clamp up to 10 bar.

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

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.