

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

Flow rates: 1.61 to 75.6 l/min

Spray angles:

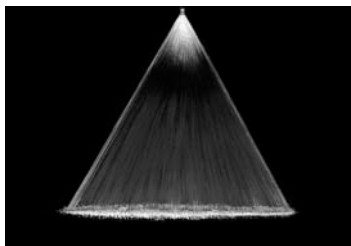
Fan: 40°, 50°, 65°, 80°, 95°

Hollow Cone: 50°, 65°, 90°

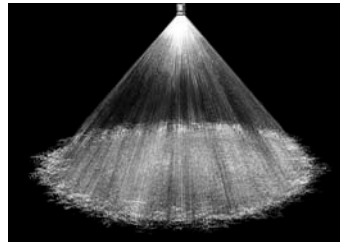
Full Cone: 35°, 65°, 80°



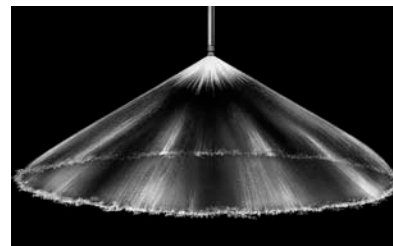
Snap-In Fan Tip



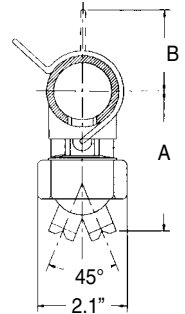
50° Fan



80° Full Cone



90° Hollow Cone



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

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 | | | | | | |
| SF30 | 65° | 6.832 | 4.83 | 5.72 | 6.83 | 9.66 | 11.8 | 15.3 | 18.1 | 21.6 | 3.6 | 1-1/4" | red | 42.16 | 86.4 | 48.3 | 62.4 |
| SF40 | 65° | 9.109 | 6.44 | 7.62 | 9.11 | 12.9 | 15.8 | 20.4 | 24.1 | 28.8 | 4.0 | | | | | | |
| SF50 | 40° 50° 65° | 11.40 | 8.06 | 9.54 | 11.4 | 16.1 | 19.7 | 25.5 | 30.2 | 36.1 | 4.4 | 1-1/2" | purple | 48.26 | 91.4 | 50.8 | 62.4 |
| 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 | | | | | | |
| SF70 | 50° 80° | 16.00 | 11.3 | 13.4 | 16.0 | 22.6 | 27.7 | 35.8 | 42.3 | 50.6 | 5.2 | 2" | green | 60.33 | 94.0 | 55.9 | 62.4 |
| 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: 303 Stainless Steel clamp, Viton seal.

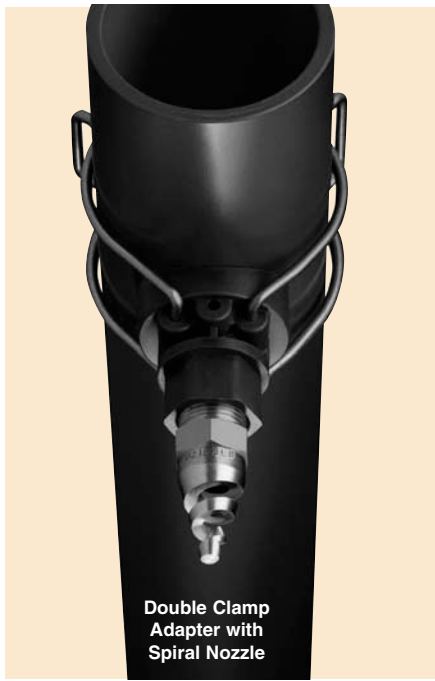
NOTE: Drill 16.7mm (21/32") hole in pipe to install SF.

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.

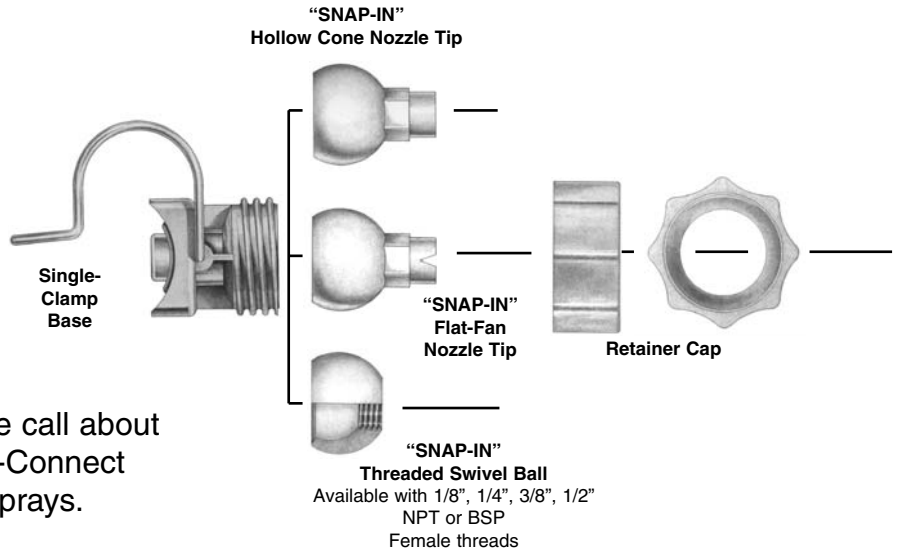
Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

SPECIAL PURPOSE

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



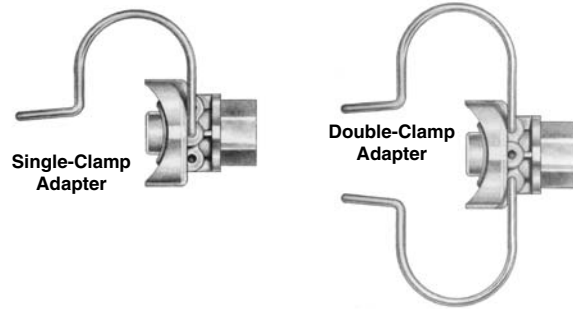
Double Clamp Adapter with Spiral Nozzle



Please call about Quick-Connect Flat Sprays.

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 or BSP female threads (BSP threads available only in 1/8" size)
- Available with single or double clamp.
- **TO ORDER ADAPTER Specify: Pipe Size, thread size, thread type, number of clamps, materials.**



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 |

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

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

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 |

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

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

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