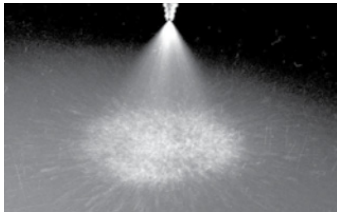


Threaded Nozzles – Full Cone Series S



| Model | Dimension A (mm) | Dimension L (mm) |
|-------|------------------|------------------|
| 1/8S | 11 HEX | 21 |
| 1/4S | 14 HEX | 24 |
| 3/8S | 17 HEX | 29 |
| 1/2S | 22 HEX | 33 |
| 3/4FS | 27 HEX | 52 |
| 3/4S | 35 HEX | 40 |
| 1FS | 32 HEX | 26 |
| 1S | 42 dia. | 68 |

SPRAY CHARACTERISTICS:

Full cone spray pattern, with uniform distribution throughout the cone.

TYPICAL APPLICATIONS:

- Chemical Processing
- Cooling Sprays
- Foam Breaking
- Continuous Casting

CONSTRUCTION:

The nozzle contains a patented insert with larger flow passages than older styles, and is less susceptible to clogging. Standard materials are brass, 303 stainless steel, and 316 stainless steel. Some models are also stocked in PVC, CPVC, and polypropylene. For molded plastic models, please see page 29.

| "S" one piece body | | Thread BSPT | MAXIMUM FREE PASSAGE (mm) | CAPACITY (L/min) AT VARIOUS PRESSURES (bar) | | | | | | | | | | | | Spray Angle @ | | |
|--------------------|----------|----------------|------------------------------------|---|------------|------------|------------|----------|------------|----------|----------|----------|----------|----------|----------|---------------|------------|----------|
| Female | Male | | | 0.2 bar | 0.3 bar | 0.5 bar | 0.7 bar | 1 bar | 1.5 bar | 2 bar | 3 bar | 4 bar | 5 bar | 6 bar | 8 bar | 0.5 bar | 1.5 bar | 5 bar |
| | 1/8 S1 | 1/8" | 0.84 | -- | -- | -- | -- | 0.46 | 0.56 | 0.64 | 0.79 | 0.91 | 1.02 | 1.12 | 1.29 | -- | 55° | 52° |
| | 1/8 S1.5 | 1/8" | 1.17 | -- | -- | -- | 0.57 | 0.68 | 0.84 | 0.97 | 1.18 | 1.37 | 1.53 | 1.67 | 1.93 | -- | 65° | 57° |
| | 1/8 S2 | 1/8" | 1.30 | -- | -- | 0.64 | 0.76 | 0.91 | 1.12 | 1.29 | 1.58 | 1.82 | 2.04 | 2.23 | 2.58 | 54° | 59° | 60° |
| | 1/8 S3 | 1/8" | 1.30 | -- | 0.75 | 0.97 | 1.14 | 1.37 | 1.67 | 1.93 | 2.37 | 2.73 | 3.06 | 3.30 | 3.90 | 50° | 53° | 60° |
| | 1/8 S3.5 | 1/8" | 1.30 | 0.71 | 0.87 | 1.13 | 1.33 | 1.6 | 1.95 | 2.26 | 2.76 | 3.20 | 3.60 | 3.90 | 4.50 | 48° | 58° | 61° |
| | 1/8 S5 | 1/8" | 1.63 | 1.02 | 1.25 | 1.61 | 1.91 | 2.28 | 2.79 | 3.20 | 3.90 | 4.60 | 5.10 | 5.60 | 6.40 | 60° | 75° | 70° |
| | 1/8 S6 | 1/8" | 1.63 | 1.22 | 1.50 | 1.93 | 2.29 | 2.73 | 3.30 | 3.90 | 4.70 | 5.50 | 6.10 | 6.70 | 7.70 | 67° | 72° | 70° |
| | 1/4 S5 | 1/4" | 2.06 | 1.02 | 1.25 | 1.61 | 1.91 | 2.28 | 2.79 | 3.20 | 3.90 | 4.60 | 5.10 | 5.60 | 6.40 | 58° | 68° | 62° |
| | 1/4 S6.5 | 1/4" | 2.31 | 1.32 | 1.62 | 2.09 | 2.48 | 2.96 | 3.60 | 4.20 | 5.10 | 5.90 | 6.60 | 7.30 | 8.40 | 48° | 56° | 50° |
| | 1/4 S7.5 | 1/4" | 2.31 | 1.53 | 1.87 | 2.42 | 2.86 | 3.40 | 4.20 | 4.80 | 5.90 | 6.80 | 7.60 | 8.40 | 9.70 | 55° | 65° | 48° |
| | 1/4 S8.5 | 1/4" | 2.31 | 1.73 | 2.12 | 2.74 | 3.20 | 3.90 | 4.70 | 5.50 | 6.70 | 7.70 | 8.70 | 9.50 | 11.0 | 58° | 65° | 63° |
| | 1/4 S10 | 1/4" | 2.31 | 2.04 | 2.50 | 3.20 | 3.80 | 4.60 | 5.60 | 6.40 | 7.90 | 9.10 | 10.2 | 11.2 | 12.9 | 60° | 65° | 62° |
| | 1/4 S14 | 1/4" | 2.31 | 2.85 | 3.50 | 4.51 | 5.30 | 6.40 | 7.80 | 9.00 | 11.1 | 12.8 | 14.3 | 15.6 | 18.0 | 78° | 85° | 75° |
| | 3/8 S9.5 | 3/8" | 2.59 | 1.94 | 2.37 | 3.06 | 3.60 | 4.30 | 5.30 | 6.10 | 7.50 | 8.70 | 9.70 | 10.6 | 12.2 | 58° | 68° | 62° |
| | 3/8 S10 | 3/8" | 2.59 | 2.04 | 2.50 | 3.02 | 3.80 | 4.60 | 5.60 | 6.40 | 7.90 | 9.10 | 10.2 | 11.2 | 12.9 | 55° | 65° | 50° |
| | 3/8 S15 | 3/8" | 2.59 | 2.85 | 3.50 | 4.80 | 5.30 | 6.80 | 8.40 | 9.70 | 11.8 | 13.7 | 15.3 | 16.7 | 19.3 | 63° | 65° | 60° |
| | 3/8 S18 | 3/8" | 2.59 | 3.70 | 4.50 | 5.80 | 6.90 | 8.20 | 10.0 | 11.6 | 14.2 | 16.4 | 18.3 | 20.1 | 23.2 | 85° | 88° | 76° |
| | 3/8 S20 | 3/8" | 2.59 | 4.10 | 5.00 | 6.40 | 7.60 | 9.10 | 11.2 | 12.9 | 15.8 | 18.2 | 20.4 | 22.3 | 25.8 | 76° | 82° | 75° |
| | 3/8 S22 | 3/8" | 2.90 | 4.50 | 5.50 | 7.10 | 8.40 | 10.0 | 12.3 | 14.2 | 17.4 | 20.1 | 22.4 | 24.6 | 28.4 | 76° | 78° | 76° |
| | 1/2 S16 | 1/2" | 3.66 | 3.30 | 4.00 | 5.20 | 6.10 | 7.30 | 8.90 | 10.3 | 12.6 | 14.6 | 16.3 | 17.9 | 20.6 | 55° | 60° | 55° |
| | 1/2 S25 | 1/2" | 3.66 | 5.10 | 6.20 | 8.10 | 9.50 | 11.4 | 14.0 | 16.1 | 19.7 | 22.8 | 25.5 | 27.9 | 32.0 | 68° | 73° | 65° |
| | 1/2 S32 | 1/2" | 3.66 | 6.50 | 8.0 | 10.3 | 12.2 | 14.6 | 17.9 | 20.6 | 25.3 | 29.2 | 33.0 | 36.0 | 41.0 | 80° | 90° | 75° |
| | 1/2 S40 | 1/2" | 4.11 | 8.20 | 10.0 | 12.9 | 15.3 | 18.2 | 22.3 | 25.8 | 32.0 | 36.0 | 41.0 | 45.0 | 52.0 | 86° | 90° | 81° |
| | 3/4 FS30 | 3/4" | 4.11 | 6.10 | 7.5 | 9.70 | 11.4 | 13.7 | 16.7 | 19.3 | 23.7 | 27.3 | 30.6 | 33.0 | 39.0 | 50° | 52° | 49° |
| | 3/4 FS50 | 3/4" | 4.95 | 10.2 | 12.5 | 16.1 | 19.1 | 22.8 | 27.9 | 32.0 | 39.0 | 46.0 | 51.0 | 56.0 | 64.0 | 65° | 70° | 65° |
| | 3/4 FS83 | 3/4" | 4.95 | 16.9 | 20.7 | 26.7 | 32.0 | 38.0 | 46.0 | 53.0 | 66.0 | 76.0 | 85.0 | 93.0 | 107 | 93° | 97° | 86° |
| | 1FS83 | 1S83 | 1" | 16.9 | 20.7 | 26.7 | 32.0 | 38.0 | 46.0 | 53.0 | 66.0 | 76.0 | 85.0 | 93.0 | 107 | 71° | 78° | 75° |
| | 1FS106 | 1S106 | 1" | 21.6 | 26.5 | 34.0 | 40.0 | 48.0 | 59.0 | 68.0 | 84.0 | 97.0 | 108 | 118 | 137 | 86° | 89° | 80° |
| | 1FS120 | 1S120 | 1" | 24.5 | 30.0 | 39.0 | 46.0 | 55.0 | 67.0 | 77.0 | 95.0 | 109 | 122 | 134 | 155 | 80° | 94° | 85° |
| | 1FS142 | 1S142 | 1" | 28.9 | 35.0 | 46.0 | 54.0 | 65.0 | 79.0 | 92.0 | 112 | 129 | 145 | 159 | 183 | 88° | 92° | 83° |