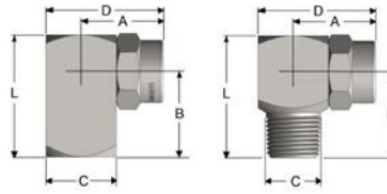
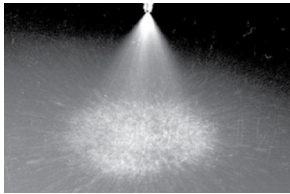


Threaded Nozzles – Full Cone Series HGS



| Thread (BSPT) | Dim. A (mm) | Dim. B (mm) | Dim. C (mm) | Dim. D (mm) | Dim. L (mm) |
|---------------|-------------|-------------|-------------|-------------|-------------|
| 1/8HGS | 18 | 18 | 16 | SQ | 26 |
| 1/4HGS | 23 | 25 | 18 | SQ | 33 |
| 3/8HGS | 26 | 27 | 21 | SQ | 38 |
| 1/2HGS | 30 | 35 | 26 | SQ | 43 |
| 1/8FHGS | 17 | 18 | 16 | SQ | 23 |
| 1/4FHGS | 23 | 25 | 18 | SQ | 33 |
| 3/8FHGS | 26 | 27 | 21 | SQ | 38 |
| 1/2FHGS | 30 | 35 | 26 | SQ | 48 |

SPRAY CHARACTERISTICS:

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

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

TYPICAL APPLICATIONS:

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

| "HGS" two piece body | | Thread BSPT | MAX. 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 |
| | 1/8HGS1 | 1/8" | 0.84 | -- | -- | -- | 0.46 | 0.56 | 0.64 | 0.79 | 0.91 | 1.02 | 1.12 | 1.29 | -- | 55° | 52° | |
| | 1/8HGS1.5 | 1/8" | 1.17 | -- | -- | 0.57 | 0.68 | 0.84 | 0.97 | 1.18 | 1.37 | 1.53 | 1.67 | 1.93 | -- | 65° | 57° | |
| | 1/8HGS2 | 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° |
| | 1/8HGS3 | 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° |
| | 1/8HGS3.5 | 1/8" | 1.30 | 0.71 | 0.87 | 1.13 | 1.33 | 1.60 | 1.95 | 2.26 | 2.76 | 3.20 | 3.60 | 3.90 | 4.50 | 48° | 58° | 61° |
| | 1/8HGS5 | 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° |
| | 1/8HGS6 | 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° |
| | 1/4HGS5 | 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° |
| | 1/4HGS6.5 | 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° |
| | 1/4HGS7.5 | 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° |
| | 1/4HGS8.5 | 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° |
| | 1/4HGS10 | 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° |
| | 1/4HGS14 | 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° |
| | 3/8HGS9.5 | 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° |
| | 3/8HGS10 | 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° |
| | 3/8HGS15 | 3/8" | 2.59 | 2.85 | 3.50 | 4.80 | 5.30 | 6.80 | 8.40 | 9.7 | 11.8 | 13.7 | 15.3 | 16.7 | 19.3 | 63° | 65° | 60° |
| | 3/8HGS18 | 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° |
| | 3/8HGS20 | 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° |
| | 3/8HGS22 | 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° |
| | 1/2HGS16 | 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° |
| | 1/2HGS25 | 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° |
| | 1/2HGS32 | 1/2" | 3.66 | 6.50 | 8.00 | 10.3 | 12.2 | 14.6 | 17.9 | 20.6 | 25.3 | 29.2 | 33.0 | 36.0 | 41.0 | 80° | 90° | 75° |
| | 1/2HGS40 | 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° |
| 3/4FHGS30 | 3/4HGS30 | 3/4" | 4.11 | 6.10 | 7.50 | 9.70 | 11.4 | 13.7 | 16.7 | 19.3 | 23.7 | 27.3 | 30.6 | 33.0 | 39.0 | 50° | 52° | 49° |
| 3/4FHGS50 | 3/4HGS50 | 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° |
| 3/4FHGS83 | 3/4HGS83 | 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° |
| 1FHGS83 | 1HGS83 | 1" | 5.56 | 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° |
| 1FHGS106 | 1HGS106 | 1" | 5.56 | 21.6 | 26.5 | 34.0 | 40.0 | 48.0 | 59.0 | 68.0 | 84.0 | 97.0 | 108 | 118 | 137 | 86° | 89° | 80° |
| 1FHGS120 | 1HGS120 | 1" | 5.56 | 24.5 | 30.0 | 39.0 | 46.0 | 55.0 | 67.0 | 77.0 | 95.0 | 109 | 122 | 134 | 155 | 80° | 94° | 85° |
| 1FHGS142 | 1HGS142 | 1" | 5.56 | 28.9 | 35.0 | 46.0 | 54.0 | 65.0 | 79.0 | 92.0 | 112 | 129 | 145 | 159 | 183 | 88° | 92° | 83° |