

# SPIRAL HOLLOW CONE NOZZLE

WIDE RANGE OF FLOWS AND ANGLES



### APPLICATION

Dust Control  
Evaporative Cooling  
Flue Gas  
Desulphurisation  
Gas Cooling

### DESCRIPTION

The spiral hollow cone nozzle produces a hollow cone spray pattern through its unique nozzle design, the nozzle has clog resistant performance with no internal parts and is constructed in one piece. The nozzle has a hexagon body design for easy installation. Male threaded connection is standard.

### MATERIALS AVAILABLE

Brass  
Stainless steel  
PVC  
Polypropylene  
PTFE  
Other materials available on request.

### SPRAY ANGLES AVAILABLE

50°, 60°, 90°, 120°, 180°

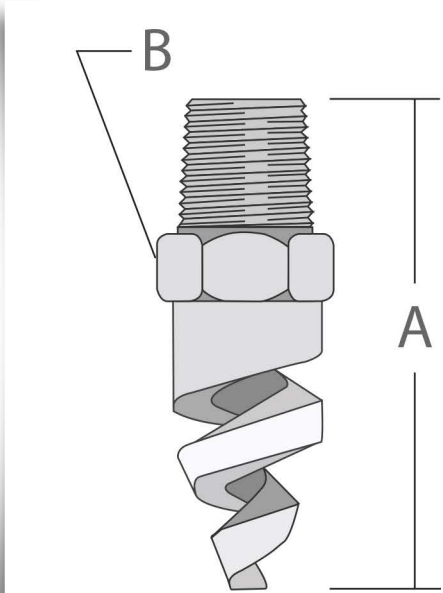
### ORDERING EXAMPLE

Spiral Nozzle Hollow Cone Stainless Steel 1" 40 - 120°

### FEATURES

One piece construction  
No internal parts  
Clog resistant performance  
Fine atomisation  
High energy efficiency  
Wide range of flow rates and spray angles  
Hexagon body for easy installation

| Male Pipe Size | Nozzle Reference | Flow (L/min) @ Pressur (bar) |       |       |       |       |       |        |        | Approx. Orif. Dia. | (mm) Free Pass Dia. |
|----------------|------------------|------------------------------|-------|-------|-------|-------|-------|--------|--------|--------------------|---------------------|
|                |                  | 0.5                          | 0.7   | 1.0   | 2.0   | 3.0   | 5.0   | 10.0   | 20.0   |                    |                     |
| 1/4            | 6                | 2.26                         | 2.67  | 3.19  | 4.50  | 5.50  | 7.10  | 10.10  | 14.30  | 2.38               | 2.38                |
| 1/4            | 8                | 4.19                         | 4.96  | 5.93  | 8.40  | 10.30 | 13.20 | 18.70  | 26.50  | 3.18               | 3.18                |
| 1/4            | 10               | 6.45                         | 7.63  | 9.12  | 12.90 | 15.80 | 20.40 | 28.80  | 40.80  | 3.97               | 3.18                |
| 3/8            | 12               | 9.67                         | 11.40 | 13.70 | 19.30 | 23.70 | 30.60 | 43.20  | 61.10  | 4.76               | 3.18                |
| 3/8            | 14               | 13.10                        | 15.40 | 18.50 | 26.10 | 32.00 | 41.30 | 58.40  | 82.60  | 5.56               | 3.18                |
| 3/8            | 16               | 17.10                        | 20.20 | 24.20 | 34.20 | 41.80 | 54.00 | 76.40  | 108.00 | 6.35               | 3.18                |
| 3/8            | 20               | 26.60                        | 31.50 | 37.60 | 53.20 | 65.10 | 84.10 | 119.00 | 168.00 | 7.94               | 3.18                |
| 1/2            | 24               | 38.8                         | 46.0  | 54.9  | 77.7  | 95.1  | 123   | 174    | 246    | 9.53               | 4.76                |
| 1/2            | 28               | 53.2                         | 62.9  | 75.2  | 106   | 130   | 168   | 238    | 336    | 11.1               | 4.76                |
| 3/4            | 32               | 67.7                         | 80.1  | 95.7  | 135   | 166   | 214   | 303    | 428    | 12.7               | 4.76                |
| 1              | 40               | 108                          | 128   | 153   | 216   | 264   | 341   | 483    | 683    | 15.9               | 6.35                |
| 1              | 48               | 153                          | 181   | 216   | 306   | 375   | 484   | 685    | 968    | 19.1               | 6.35                |
| 1 1/2          | 56               | 208                          | 246   | 294   | 416   | 509   | 657   | 930    | 1320   | 22.2               | 7.94                |
| 1 1/2          | 64               | 272                          | 322   | 385   | 545   | 667   | 861   | 1220   | 1720   | 25.4               | 7.94                |
| 1 1/2          | 72               | 309                          | 366   | 438   | 619   | 758   | 978   | 1380   | 1960   | 28.6               | 7.94                |
| 2              | 88               | 451                          | 534   | 638   | 902   | 1110  | 1430  | 2020   | 2850   | 34.9               | 11.1                |
| 2              | 96               | 570                          | 674   | 806   | 1140  | 1400  | 1800  | 2550   | 3600   | 38.1               | 11.1                |
| 3              | 112              | 825                          | 976   | 1170  | 1650  | 2020  | 2610  | 3690   | 5220   | 44.5               | 14.3                |
| 3              | 128              | 1090                         | 1290  | 1550  | 2190  | 2680  | 3460  | 4891   | 6920   | 50.8               | 14.3                |
| 4              | 160              | 1690                         | 2000  | 2390  | 3380  | 4140  | 5350  | 7570   | 10700  | 63.5               | 15.9                |



### DIMENSIONS

| Size   | A Dimension (Length) mm | B Dimension (Hexagon) mm |
|--------|-------------------------|--------------------------|
| 1/4"   | 47.6                    | 14.3                     |
| 3/8"   | 47.6                    | 17.5                     |
| 1/2"   | 63.5                    | 22.2                     |
| 3/4"   | 69.9                    | 28.6                     |
| 1"     | 92.1                    | 34.9                     |
| 1 1/2" | 111                     | 50.8                     |
| 2"     | 176                     | 63.5                     |
| 3"     | 219                     | 88.9                     |
| 4"     | 257                     | 114                      |