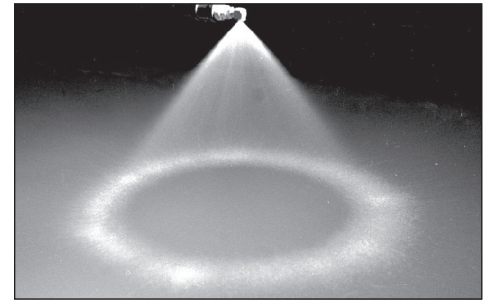
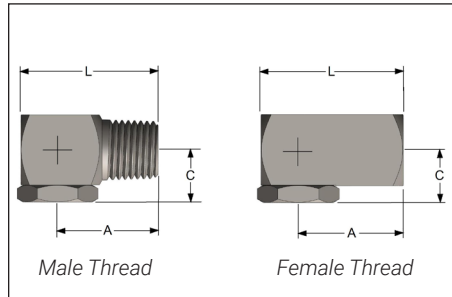




# HW SERIES SPRAY NOZZLES

HOLLOW CONE • THREADED CONNECTION

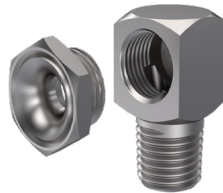


## SPRAY CHARACTERISTICS:

A hollow cone spray pattern, emerging at right angles to the centerline of the pipe connection. The standard included angle of the spray cone is 120° at 10 p.s.i. At low pressures hollow cone nozzles produce medium size, uniform droplets. At higher pressures finer droplets are produced.

## CONSTRUCTION:

The models listed are machined from bar stock, and are two piece construction.



## TYPICAL APPLICATIONS:

- Water Cooling
- Roof Cooling
- Air Cooling
- Air Washing

| Female Size | Dim 'A' | Dim 'C' | Dim 'L' | Male Size | Dim 'A' | Dim 'C' | Dim 'L' |
|-------------|---------|---------|---------|-----------|---------|---------|---------|
| 1/8FHW      | 11/16   | 3/8     | 1       | 1/8HW     | 11/16   | 3/8     | 1       |
| 1/4FHW      | 15/16   | 1/2     | 1 1/4   | 1/4HW     | 15/16   | 1/2     | 1 1/4   |
| 3/8FHW      | 1       | 9/16    | 1 3/8   | 3/8HW     | 1       | 9/16    | 1 1/2   |
| 1/2FHW      | 1 3/8   | 3/4     | 1 7/8   | 1/2HW     | 1 3/8   | 3/4     | 1 7/8   |
| 3/4FHW      | 1 9/16  | 7/8     | 2 1/4   | 3/4HW     | 1 5/8   | 7/8     | 2 1/4   |

All dimensions are in inches

| Model      |           | Max. Free Passage | Capacities at Various Pressures |       |       |        |        |        |        |        |        |        |         |        | Spray Angle |        |        |  |
|------------|-----------|-------------------|---------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|-------------|--------|--------|--|
| Female     | Male      |                   | 3 psi                           | 5 psi | 7 psi | 10 psi | 15 psi | 20 psi | 30 psi | 40 psi | 60 psi | 80 psi | 100 psi | 10 psi | 20 psi      | 40 psi | 80 psi |  |
| 1/8FH1W    | 1/8H1W    | 0.055             | 0.055                           | 0.071 | 0.084 | 0.100  | 0.122  | 0.141  | 0.173  | 0.200  | 0.245  | 0.283  | 0.32    | --     | 115         | 107    | 95     |  |
| 1/8FH2W    | 1/8H2W    | 0.077             | 0.110                           | 0.141 | 0.167 | 0.200  | 0.245  | 0.283  | 0.35   | 0.40   | 0.49   | 0.57   | 0.63    | 120    | 117         | 105    | 97     |  |
| 1/8FH3W    | 1/8H3W    | 0.093             | 0.164                           | 0.212 | 0.251 | 0.300  | 0.37   | 0.42   | 0.52   | 0.60   | 0.73   | 0.85   | 0.95    | 120    | 116         | 109    | 92     |  |
| 1/8FH5W    | 1/8H5W    | 0.109             | 0.274                           | 0.35  | 0.42  | 0.50   | 0.61   | 0.71   | 0.87   | 1.00   | 1.22   | 1.41   | 1.58    | 120    | 116         | 107    | 90     |  |
| 1/4FH1W    | 1/4H1W    | 0.055             | 0.055                           | 0.071 | 0.084 | 0.100  | 0.122  | 0.141  | 0.173  | 0.200  | 0.245  | 0.283  | 0.32    | 120    | 110         | 102    | 90     |  |
| 1/4FH2W    | 1/4H2W    | 0.077             | 0.110                           | 0.141 | 0.167 | 0.200  | 0.245  | 0.283  | 0.35   | 0.40   | 0.49   | 0.57   | 0.63    | 120    | 110         | 105    | 92     |  |
| 1/4FH3W    | 1/4H3W    | 0.093             | 0.164                           | 0.212 | 0.251 | 0.300  | 0.37   | 0.42   | 0.52   | 0.60   | 0.73   | 0.85   | 0.95    | 120    | 114         | 104    | 90     |  |
| 1/4FH5W    | 1/4H5W    | 0.109             | 0.274                           | 0.35  | 0.42  | 0.50   | 0.61   | 0.71   | 0.87   | 1.00   | 1.22   | 1.41   | 1.58    | 120    | 113         | 107    | 98     |  |
| 1/4FH7.5W  | 1/4H7.5W  | 0.158             | 0.41                            | 0.53  | 0.63  | 0.75   | 0.92   | 1.06   | 1.30   | 1.50   | 1.84   | 2.12   | 2.37    | 120    | 115         | 110    | 92     |  |
| 1/4FH10W   | 1/4H10W   | 0.170             | 0.55                            | 0.71  | 0.84  | 1.00   | 1.22   | 1.41   | 1.73   | 2.00   | 2.45   | 2.83   | 3.2     | 120    | 115         | 110    | 93     |  |
| 1/4FH12.5  | 1/4H12.5W | 0.188             | 0.68                            | 0.88  | 1.05  | 1.25   | 1.53   | 1.77   | 2.17   | 2.50   | 3.06   | 3.5    | 4.0     | 120    | 118         | 110    | 94     |  |
| 1/4FH15W   | 1/4H15W   | 0.201             | 0.82                            | 1.06  | 1.26  | 1.50   | 1.84   | 2.12   | 2.60   | 3.00   | 3.7    | 4.2    | 4.7     | 120    | 115         | 108    | 92     |  |
| 3/8FH5W    | 3/8H5W    | 0.109             | 2.74                            | 3.5   | 4.2   | 5.0    | 6.1    | 7.1    | 8.7    | 10.0   | 12.2   | 14.1   | 15.8    | 120    | 117         | 107    | 99     |  |
| 3/8FH7.5W  | 3/8H7.5W  | 0.158             | 4.1                             | 5.3   | 6.3   | 7.5    | 9.2    | 10.6   | 13.0   | 15.0   | 18.4   | 21.2   | 23.7    | 120    | 113         | 110    | 93     |  |
| 3/8FH10W   | 3/8H10W   | 0.170             | 0.55                            | 0.71  | 0.84  | 1.00   | 1.22   | 1.41   | 1.73   | 2.00   | 2.45   | 2.83   | 3.2     | 120    | 115         | 110    | 93     |  |
| 3/8FH12.5W | 3/8H12.5W | 0.188             | 0.68                            | 0.88  | 1.05  | 1.25   | 1.53   | 1.77   | 2.17   | 2.50   | 3.06   | 3.5    | 4.0     | 120    | 115         | 108    | 94     |  |
| 3/8FH15W   | 3/8H15W   | 0.201             | 0.82                            | 1.06  | 1.26  | 1.50   | 1.84   | 2.12   | 2.60   | 3.00   | 3.7    | 4.2    | 4.7     | 120    | 115         | 108    | 92     |  |

\* TABLE CONTINUES ON FOLLOWING PAGE



HW SPRAY NOZZLE SPECIFICATIONS  
HOLLOW CONE • THREADED CONNECTION

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| Model    |         | Max. Free Passage | Capacities at Various Pressures |       |       |        |        |        |        |        |        |        |         |        | Spray Angle |        |        |  |
|----------|---------|-------------------|---------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|-------------|--------|--------|--|
| Female   | Male    |                   | 3 psi                           | 5 psi | 7 psi | 10 psi | 15 psi | 20 psi | 30 psi | 40 psi | 60 psi | 80 psi | 100 psi | 10 psi | 20 psi      | 40 psi | 80 psi |  |
| 3/8FH20W | 3/8H20W | 0.234             | 1.10                            | 1.41  | 1.67  | 2.00   | 2.45   | 2.83   | 3.5    | 4.0    | 4.9    | 5.7    | 6.3     | 120    | 118         | 116    | 110    |  |
| 3/8FH25  | 3/8H25W | 0.265             | 1.37                            | 1.77  | 2.09  | 2.50   | 3.06   | 3.5    | 4.3    | 5.0    | 6.1    | 7.1    | 7.9     | 120    | 117         | 115    | 110    |  |
| 3/8FH30W | 3/8H30W | 0.280             | 1.64                            | 2.12  | 2.51  | 3.00   | 3.7    | 4.2    | 5.2    | 6.0    | 7.3    | 8.5    | 9.5     | 120    | 115         | 110    | 102    |  |
| 1/2FH50W | 1/2H50W | 0.358             | 2.74                            | 3.5   | 4.2   | 5.0    | 6.1    | 7.1    | 8.7    | 10.0   | 12.2   | 14.1   | 15.8    | 120    | 115         | 108    | 103    |  |
| 3/4FH80W | 3/4H80W | 0.468             | --                              | 5.7   | 6.7   | 8.0    | 9.8    | 11.3   | 13.9   | 16.0   | 19.6   | 22.6   | 25.3    | 120    | 117         | 110    | 103    |  |

