

# BJH

Low Flow

## DESIGN FEATURES

- Interchangeable spray tips
- Integral strainer available
- Male and female connections
- Tips can be used with BETE HydroPulse and BJ assemblies
- Tungsten carbide orifice inserts for maximum wear resistance and service life
- Male and Female Pipe Sizes: 1/8", 1/4", 3/8", and 1/2"

## SPRAY CHARACTERISTICS

- Relatively coarse atomization
- Uniform distribution with tapered edges for use in overlapping sprays

**Spray pattern:** Flat Fan

**Spray angles:** 5° to 120°

**Flow rate:** 0.048 to 16.6 L/min



Metal

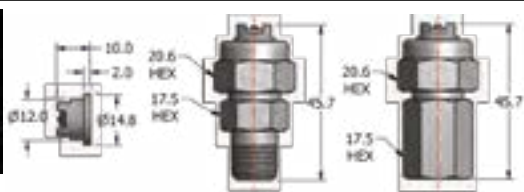
## To Order: Spray Set-up Number

1/4 BJH 0.18 25 -S -B 316

pipe size | series | nozzle number | specify assembly material if BSP (R/Rp) thread | spray angle | optional strainer, see below for size



Fan 80°



## BJH Flow Rates, Spray Angles, and Dimensions

Fan, 5° to 120° Spray Angles, 1/8", 1/4", 3/8", and 1/2" Pipe Size, Male and Female

| Nozzle Number | K Factor | LITERS PER MINUTE @ BAR |       |       |       |        |        |        | Equivalent Orifice Dia. (mm) | Available Spray Angles                                        | Optional Strainer Mesh Size | Wt. (g) |
|---------------|----------|-------------------------|-------|-------|-------|--------|--------|--------|------------------------------|---------------------------------------------------------------|-----------------------------|---------|
|               |          | 2 bar                   | 3 bar | 4 bar | 7 bar | 30 bar | 50 bar | 70 bar |                              |                                                               |                             |         |
| BJH-0.18      | 0.018    | -                       | -     | -     | 0.048 | 0.099  | 0.127  | 0.151  | 0.18                         | 5°, 10°, 15°, 20°, 25°, 30°, 33°, 40°, 50°                    | 400                         | 28      |
| BJH-0.23      | 0.029    | -                       | -     | -     | 0.077 | 0.159  | 0.205  | 0.243  | 0.23                         | 5°, 10°, 15°, 20°, 25°, 30°, 33°, 40°, 50°, 65°               | 400                         | 28      |
| BJH-0.28      | 0.043    | -                       | -     | -     | 0.114 | 0.236  | 0.304  | 0.360  | 0.28                         | 5°, 10°, 20°, 33°, 40°, 50°, 65°, 73°                         | 400                         | 28      |
| BJH-0.33      | 0.059    | -                       | -     | -     | 0.156 | 0.323  | 0.417  | 0.494  | 0.33                         | 5°, 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°               | 400                         | 28      |
| BJH-0.38      | 0.079    | -                       | -     | -     | 0.209 | 0.433  | 0.559  | 0.661  | 0.38                         | 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°             | 400                         | 28      |
| BJH-0.43      | 0.100    | -                       | -     | -     | 0.265 | 0.548  | 0.707  | 0.837  | 0.43                         | 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120° | 400                         | 28      |
| BJH-0.45      | 0.110    | 0.156                   | 0.191 | 0.220 | 0.291 | 0.602  | 0.778  | 0.920  | 0.45                         |                                                               |                             |         |
| BJH-0.48      | 0.125    | 0.177                   | 0.217 | 0.250 | 0.331 | 0.685  | 0.884  | 1.05   | 0.48                         |                                                               |                             |         |
| BJH-0.53      | 0.152    | 0.215                   | 0.263 | 0.304 | 0.402 | 0.833  | 1.07   | 1.27   | 0.53                         |                                                               |                             |         |
| BJH-0.58      | 0.183    | 0.259                   | 0.317 | 0.366 | 0.484 | 1.00   | 1.29   | 1.53   | 0.58                         |                                                               |                             |         |
| BJH-0.63      | 0.216    | 0.305                   | 0.374 | 0.432 | 0.571 | 1.18   | 1.53   | 1.81   | 0.63                         | 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120° | 200                         | 28      |
| BJH-0.66      | 0.237    | 0.335                   | 0.410 | 0.474 | 0.627 | 1.30   | 1.68   | 1.98   | 0.66                         |                                                               |                             |         |
| BJH-0.68      | 0.251    | 0.355                   | 0.435 | 0.502 | 0.664 | 1.37   | 1.77   | 2.10   | 0.68                         |                                                               |                             |         |
| BJH-0.73      | 0.289    | 0.409                   | 0.501 | 0.578 | 0.765 | 1.58   | 2.04   | 2.42   | 0.73                         |                                                               |                             |         |
| BJH-0.78      | 0.330    | 0.467                   | 0.572 | 0.660 | 0.873 | 1.81   | 2.33   | 2.76   | 0.78                         |                                                               |                             |         |
| BJH-0.84      | 0.383    | 0.542                   | 0.663 | 0.766 | 1.01  | 2.10   | 2.71   | 3.20   | 0.84                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°      | 100                         | 28      |
| BJH-0.89      | 0.430    | 0.608                   | 0.745 | 0.860 | 1.14  | 2.36   | 3.04   | 3.60   | 0.89                         |                                                               |                             |         |
| BJH-0.94      | 0.480    | 0.679                   | 0.831 | 0.960 | 1.27  | 2.63   | 3.39   | 4.02   | 0.94                         |                                                               |                             |         |
| BJH-0.99      | 0.532    | 0.752                   | 0.921 | 1.06  | 1.41  | 2.91   | 3.76   | 4.45   | 0.99                         |                                                               |                             |         |
| BJH-1.04      | 0.587    | 0.830                   | 1.02  | 1.17  | 1.55  | 3.22   | 4.15   | 4.91   | 1.04                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°      | 100                         | 28      |
| BJH-1.09      | 0.645    | 0.912                   | 1.12  | 1.29  | 1.71  | 3.53   | 4.56   | 5.40   | 1.09                         |                                                               |                             |         |
| BJH-1.14      | 0.706    | 0.998                   | 1.22  | 1.41  | 1.87  | 3.87   | 4.99   | 5.91   | 1.14                         |                                                               |                             |         |
| BJH-1.19      | 0.769    | 1.09                    | 1.33  | 1.54  | 2.03  | 4.21   | 5.44   | 6.43   | 1.19                         |                                                               |                             |         |
| BJH-1.24      | 0.835    | 1.18                    | 1.45  | 1.67  | 2.21  | 4.57   | 5.90   | 6.99   | 1.24                         |                                                               |                             |         |
| BJH-1.29      | 0.904    | 1.28                    | 1.57  | 1.81  | 2.39  | 4.95   | 6.39   | 7.56   | 1.29                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°            | 100                         | 28      |
| BJH-1.32      | 0.945    | 1.34                    | 1.64  | 1.89  | 2.50  | 5.18   | 6.68   | 7.91   | 1.32                         |                                                               |                             |         |
| BJH-1.35      | 0.990    | 1.40                    | 1.71  | 1.98  | 2.62  | 5.42   | 7.00   | 8.28   | 1.35                         |                                                               |                             |         |
| BJH-1.40      | 1.06     | 1.50                    | 1.84  | 2.12  | 2.80  | 5.81   | 7.50   | 8.87   | 1.40                         |                                                               |                             |         |
| BJH-1.45      | 1.14     | 1.61                    | 1.97  | 2.28  | 3.02  | 6.24   | 8.06   | 9.54   | 1.45                         |                                                               |                             |         |
| BJH-1.50      | 1.22     | 1.73                    | 2.11  | 2.44  | 3.23  | 6.68   | 8.63   | 10.2   | 1.50                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°                  | 100                         | 28      |
| BJH-1.55      | 1.31     | 1.85                    | 2.27  | 2.62  | 3.47  | 7.18   | 9.26   | 11.0   | 1.55                         |                                                               |                             |         |
| BJH-1.57      | 1.34     | 1.90                    | 2.32  | 2.68  | 3.55  | 7.34   | 9.48   | 11.2   | 1.57                         |                                                               |                             |         |
| BJH-1.60      | 1.39     | 1.97                    | 2.41  | 2.78  | 3.68  | 7.61   | 9.83   | 11.6   | 1.60                         |                                                               |                             |         |
| BJH-1.65      | 1.48     | 2.09                    | 2.56  | 2.96  | 3.92  | 8.11   | 10.5   | 12.4   | 1.65                         |                                                               |                             |         |
| BJH-1.70      | 1.57     | 2.22                    | 2.72  | 3.14  | 4.15  | 8.60   | 11.1   | 13.1   | 1.70                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°                        | 100                         | 28      |
| BJH-1.75      | 1.66     | 2.35                    | 2.88  | 3.32  | 4.39  | 9.09   | 11.7   | 13.9   | 1.75                         |                                                               |                             |         |
| BJH-1.80      | 1.76     | 2.49                    | 3.05  | 3.52  | 4.66  | 9.64   | 12.4   | 14.7   | 1.80                         |                                                               |                             |         |
| BJH-1.83      | 1.82     | 2.57                    | 3.15  | 3.64  | 4.82  | 9.97   | 12.9   | 15.2   | 1.83                         |                                                               |                             |         |
| BJH-1.85      | 1.86     | 2.63                    | 3.22  | 3.72  | 4.92  | 10.2   | 13.2   | 15.6   | 1.85                         |                                                               |                             |         |
| BJH-1.91      | 1.98     | 2.80                    | 3.43  | 3.96  | 5.24  | 10.8   | 14.0   | 16.6   | 1.91                         | 20°, 33°, 40°, 50°, 65°, 73°, 80°                             | 100                         | 28      |

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

Spray angle performance varies with pressure.

Contact BETE for specific data on critical applications.

## Standard Materials:

Body and Cap Nut: Brass, 303 Stainless Steel, and 316 Stainless Steel  
Tungsten Carbide Insert with 303 Stainless Steel Housing

