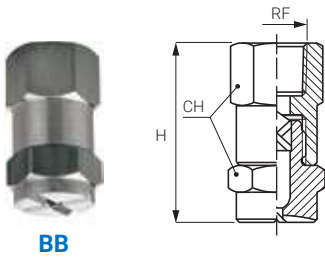
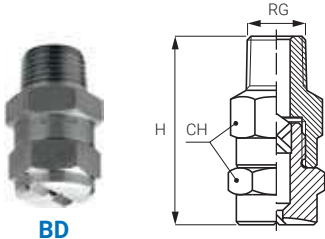


# BB / BD ( FULL CONE NOZZLES / CLEANABLE )



BB



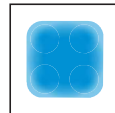
BD

## X VANE / SQUARE SPRAY PATTERN / THREE-PIECE DESIGN / EASY CLEAN

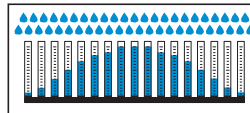
BB/BD series full cone nozzles offer a three-piece design made of body, X-vane and connection. BB/BD series nozzles supply a square section spray pattern and are suitable for working environments that strictly require a uniform coverage. The most important feature of BB/BD series nozzle is their X-vane which can be easily disassembled. It is mounted between its body and connection, allowing the narrowest passage to avoid clogging. The best choice to solve clogging problems.

### THREAD SPECIFICATION:

- BD: Male ( BSPT, NPT )
- BB: Female ( BSP, NPT )



Spray section



Convex distribution



### SQUARE SPRAY

| BBQ<br>Female | BDQ<br>Male | CODE | RF<br>RG<br>inch | D<br>mm | D1<br>mm | Capacity<br>at different pressure values |      |      |      |      |      |      | Spray angle<br>at pressure |     |     |
|---------------|-------------|------|------------------|---------|----------|--|------|------|------|------|------|------|----------------------------|-----|-----|
|               |             |      |                  |         |          | (l/min)<br>(bar)                         |      |      |      |      |      |      | (°)<br>(bar)               |     |     |
|               |             |      |                  |         |          | 0.7                                      | 1.0  | 2.0  | 3.0  | 5.0  | 7.0  | 10   | 0.5                        | 1.5 | 6.0 |
| •             | •           | 1270 | 1/8"             | 1.8     | 1.0      | 1.30                                     | 1.56 | 2.20 | 2.70 | 3.49 | 4.12 | 4.93 | 40°                        | 52° | 47° |
| •             | •           | 1360 |                  | 1.9     | 1.3      | 1.74                                     | 2.08 | 2.94 | 3.60 | 4.65 | 5.50 | 6.57 | 48°                        | 63° | 57° |
| •             | •           | 1440 |                  | 2.1     | 1.3      | 2.13                                     | 2.54 | 3.59 | 4.40 | 5.68 | 6.72 | 8.03 | 60°                        | 66° | 60° |
| •             | •           | 1740 | 1/4"             | 2.8     | 1.6      | 3.57                                     | 4.27 | 6.04 | 7.40 | 9.55 | 11.3 | 13.5 | 62°                        | 67° | 61° |
| •             | •           | 1890 |                  | 3.2     | 1.6      | 4.30                                     | 5.14 | 7.27 | 8.90 | 11.5 | 13.6 | 16.2 | 70°                        | 75° | 68° |
| •             | •           | 2110 |                  | 3.8     | 1.6      | 5.31                                     | 6.35 | 8.98 | 11.0 | 14.2 | 16.8 | 20.1 | 78°                        | 82° | 75° |
| •             | •           | 2133 | 3/8"             | 3.8     | 2.4      | 6.42                                     | 7.68 | 10.9 | 13.3 | 17.2 | 20.3 | 24.3 | 71°                        | 75° | 68° |
| •             | •           | 2210 | 1/2"             | 5.6     | 3.0      | 10.1                                     | 12.1 | 17.1 | 21.0 | 27.1 | 32.1 | 38.3 | 71°                        | 75° | 68° |
| •             | •           | 2270 |                  | 6.4     | 3.2      | 13.0                                     | 15.6 | 22.0 | 27.0 | 34.9 | 41.2 | 49.3 | 78°                        | 82° | 75° |

BB/BD series nozzles produce a square spray pattern. The flat spray orientation is set with a 10°-15° offset angle from the main manifold axis to avoid jet overlapping. Therefore the correct alignment of these nozzles is very important and must be done properly. Please refer to the table below.



### DIMENSIONS AND WEIGHTS

| NOZZLE TYPE | RF inch | H mm | WS mm | W kg |
|-------------|---------|------|-------|------|
| BB Female   | 1/8"    | 30   | 14    | 0.03 |
|             | 1/4"    | 37   | 17    | 0.04 |
|             | 3/8"    | 46   | 19    | 0.07 |
|             | 1/2"    | 57   | 25    | 0.20 |

| NOZZLE TYPE | RG inch | H mm | WS mm | W kg |
|-------------|---------|------|-------|------|
| BD Male     | 1/8"    | 32   | 14    | 0.02 |
|             | 1/4"    | 39   | 17    | 0.04 |
|             | 3/8"    | 47   | 19    | 0.07 |
|             | 1/2"    | 57   | 25    | 0.20 |

### TYPICAL APPLICATIONS

- Washing: exhaust scrubbers, parts cleaning, pre-treatment for coating processes
- Cooling: exhaust gas cooling, tank cooling
- Coating: oil coating, spray of chemicals
- Other applications: dust control, leak test

### HOW TO MAKE UP THE NOZZLE CODE

Ex.: BBQ 1270 B1

