

# CC NOZZLE

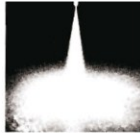
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## Narrow angle nozzles for 15°



fission type(BBG)



BB Series narrow angle nozzles feature a full cone spray pattern with a round impact area and spray angles of 30° or 15°.

They produce a uniform distribution of medium to large sized drops and provide significantly higher impact per unit area than wider angle nozzles at the same flow rate, and all have removable cap and vanes.

The size 1/8" and 1-1/4" are made from steel bar while size 1-1/2" and larger are cast-in-block. The narrow angle nozzle is made of thick and thin process, which realizes the accurate specification to ensure the best performance. Unique vane design provides superior control and uniform distribution.

### Performance data

\* in the specified pressure(bar)

| Nozzle inlet connect (in.) | Nozzle type |        |      | Capacity Size | Rated Orifice Dia. (mm) | Capacity(l/min)* |      |      |      |      |      |      |      |      |      |     |     |     |    |    | Spray Angle(°)* |  |  |
|----------------------------|-------------|--------|------|---------------|-------------------------|------------------|------|------|------|------|------|------|------|------|------|-----|-----|-----|----|----|-----------------|--|--|
|                            | BG-15       | BBG-15 | B-15 |               |                         | 0.7              | 1.5  | 2    | 3    | 4    | 6    | 7    | 10   | 15   | 20   | 0.7 | 3   | 7   |    |    |                 |  |  |
|                            | 1/8         | •      | •    |               |                         |                  | 1507 | 1.6  | 1.3  | 2.0  | 2.3  | 2.8  | 3.2  | 3.9  | 4.2  | 5.0 | 6.2 | 7.1 | 13 | 15 | 15              |  |  |
|                            | •           | •      |      | 1514          | 2.4                     | 2.7              | 3.9  | 4.5  | 5.5  | 6.4  | 7.8  | 8.4  | 10.1 | 12.4 | 14.3 | 13  | 15  | 15  |    |    |                 |  |  |
| 1/4                        | •           | •      |      | 1530          | 3.2                     | 5.7              | 8.4  | 9.7  | 11.8 | 13.7 | 16.8 | 18.1 | 22   | 26   | 31   | 13  | 15  | 15  |    |    |                 |  |  |
| 3/8                        | •           | •      |      | 1550          | 4.4                     | 9.5              | 14.0 | 16.1 | 19.7 | 23   | 28   | 30   | 36   | 44   | 51   | 13  | 15  | 15  |    |    |                 |  |  |
| 1/2                        | •           | •      |      | 1590          | 5.6                     | 17.2             | 25   | 29   | 36   | 41   | 50   | 54   | 65   | 79   | 92   | 13  | 15  | 15  |    |    |                 |  |  |
| 3/4                        |             |        | •    | 15150         | 7.5                     | 29               | 42   | 48   | 59   | 68   | 84   | 90   | 108  | 132  | 153  | 13  | 15  | 15  |    |    |                 |  |  |
| 1                          |             |        | •    | 15280         | 9.9                     | 53               | 78   | 90   | 111  | 128  | 156  | 169  | 202  | 247  | 285  | 13  | 15  | 15  |    |    |                 |  |  |
| 1-1/4                      |             |        | •    | 15430         | 12.3                    | 82               | 120  | 139  | 170  | 196  | 240  | 259  | 310  | 380  | 438  | 14  | 15  | 15  |    |    |                 |  |  |
| 1-1/2                      |             |        | •    | 15630         | 15.1                    | 120              | 176  | 203  | 249  | 288  | 352  | 381  | 455  | 557  | 643  | 14  | 15  | 15  |    |    |                 |  |  |
| 2                          |             |        | •    | 151150        | 20.2                    | 219              | 321  | 371  | 454  | 524  | 642  | 694  | 829  | 1015 | 1172 | 14  | 15  | 15  |    |    |                 |  |  |
| 2-1/2                      |             |        | •    | 151750        | 24.6                    | 334              | 489  | 564  | 691  | 798  | 977  | 1055 | 1261 | 1545 | 1784 | 14  | 15  | 15  |    |    |                 |  |  |
| 3                          |             |        | •    | 152500        | 29.4                    | 477              | 698  | 806  | 987  | 1140 | 1396 | 1508 | 1802 | 2207 | 2548 | 14  | 15  | 15  |    |    |                 |  |  |
| 4                          |             |        | •    | 154500        | 39.7                    | 858              | 1256 | 1451 | 1777 | 2051 | 2513 | 2714 | 3244 | 3973 | 4587 | 14  | 15  | 15  |    |    |                 |  |  |
| 5                          |             |        | •    | 157000        | 48.8                    | 1335             | 1954 | 2257 | 2764 | 3191 | 3908 | 4222 | 5046 | 6180 | 7136 | 14  | 15  | 15  |    |    |                 |  |  |

A Series Common Nozzle

## Narrow angle nozzles for 30°

### Performance data

\* in the specified pressure(bar)

| Nozzle inlet connect (in.) | Nozzle type |        |       | Capacity Size | Rated Orifice Dia. (mm) | Capacity(l/min)* |        |      |      |      |      |      |      |      |      |     |     |     |    |    | Spray Angle(°)* |  |  |
|----------------------------|-------------|--------|-------|---------------|-------------------------|------------------|--------|------|------|------|------|------|------|------|------|-----|-----|-----|----|----|-----------------|--|--|
|                            | BG-30       | BBG-30 | BB-30 |               |                         | 1                | 1.5    | 2    | 3    | 4    | 6    | 7    | 10   | 15   | 20   | 1   | 3   | 7   |    |    |                 |  |  |
|                            | 1/8         | •      | •     |               |                         |                  | 3001.4 | .79  | .32  | .39  | .45  | .55  | .64  | .78  | .84  | 1.0 | 1.2 | 1.4 | 17 | 30 | 31              |  |  |
|                            | •           | •      |       | 3002.5        | .79                     | .57              | .70    | .81  | .99  | 1.1  | 1.4  | 1.5  | 1.8  | 2.2  | 2.5  | 17  | 30  | 32  |    |    |                 |  |  |
|                            | •           | •      |       | 3004          | 1.2                     | .91              | 1.1    | 1.3  | 1.6  | 1.8  | 2.2  | 2.4  | 2.9  | 3.5  | 4.1  | 26  | 30  | 32  |    |    |                 |  |  |
|                            | •           | •      |       | 3007          | 1.6                     | 1.6              | 2.0    | 2.3  | 2.8  | 3.2  | 3.9  | 4.2  | 5.0  | 6.2  | 7.1  | 23  | 30  | 30  |    |    |                 |  |  |
| 1/4                        | •           | •      |       | 3009          | 2.0                     | 2.1              | 2.5    | 2.9  | 3.6  | 4.1  | 5.0  | 5.4  | 6.5  | 7.9  | 9.2  | 23  | 30  | 30  |    |    |                 |  |  |
| 3/8                        | •           | •      |       | 3014          | 2.4                     | 3.2              | 3.9    | 4.5  | 5.5  | 6.4  | 7.8  | 8.4  | 10.1 | 12.4 | 14.3 | 25  | 30  | 30  |    |    |                 |  |  |
| 1/2                        | •           | •      |       | 3030          | 3.2                     | 6.8              | 8.4    | 9.7  | 11.8 | 13.7 | 16.8 | 18.1 | 22   | 26   | 31   | 26  | 30  | 31  |    |    |                 |  |  |
| 3/4                        | •           | •      |       | 3050          | 4.4                     | 11.4             | 14.0   | 16.1 | 19.7 | 23   | 28   | 30   | 36   | 44   | 51   | 26  | 30  | 31  |    |    |                 |  |  |
| 1                          |             |        | •     | 3070          | 5.2                     | 16.0             | 19.5   | 23   | 28   | 32   | 39   | 42   | 50   | 62   | 71   | 27  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30100         | 6.4                     | 23               | 28     | 32   | 39   | 46   | 56   | 60   | 72   | 88   | 102  | 27  | 30  | 30  |    |    |                 |  |  |
| 1-1/4                      |             |        | •     | 30150         | 7.5                     | 34               | 42     | 48   | 59   | 68   | 84   | 90   | 108  | 132  | 153  | 27  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30200         | 8.7                     | 46               | 56     | 64   | 79   | 91   | 112  | 121  | 144  | 177  | 204  | 27  | 30  | 30  |    |    |                 |  |  |
| 1-1/2                      |             |        | •     | 30250         | 9.5                     | 57               | 70     | 81   | 99   | 114  | 140  | 151  | 180  | 221  | 255  | 27  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30300         | 10.3                    | 68               | 84     | 97   | 118  | 137  | 168  | 181  | 216  | 265  | 306  | 27  | 30  | 30  |    |    |                 |  |  |
| 2                          |             |        | •     | 30350         | 11.1                    | 80               | 98     | 113  | 138  | 160  | 195  | 211  | 252  | 309  | 357  | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30400         | 11.9                    | 91               | 112    | 129  | 158  | 182  | 223  | 241  | 288  | 353  | 408  | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30500         | 13.5                    | 114              | 140    | 161  | 197  | 228  | 279  | 302  | 360  | 441  | 510  | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30600         | 14.7                    | 137              | 168    | 193  | 237  | 274  | 335  | 362  | 432  | 530  | 612  | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 30700         | 15.9                    | 160              | 195    | 226  | 276  | 319  | 391  | 422  | 505  | 618  | 714  | 28  | 30  | 30  |    |    |                 |  |  |
| 2-1/2                      |             |        | •     | 301000        | 19.1                    | 228              | 279    | 322  | 395  | 456  | 558  | 603  | 721  | 883  | 1019 | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 301100        | 19.8                    | 251              | 307    | 355  | 434  | 501  | 614  | 663  | 793  | 971  | 1121 | 28  | 30  | 30  |    |    |                 |  |  |
|                            |             |        | •     | 301200        | 20.6                    | 274              | 335    | 387  | 474  | 547  | 670  | 724  | 865  | 1059 | 1223 | 28  | 30  | 30  |    |    |                 |  |  |



fission type(BBG)



fission type(BG)



single type(BB)

### ordering info

**BBG 1/8 — SS 1507**

↓ single nozzle type    ↓ Inlet size    ↓ material code    ↓ capacity size

### ordering info

**BBG 1/8 — SS — 3001.4**

↓ Single nozzle type    ↓ Inlet size    ↓ Material code    ↓ Capacity size