

**DESCRIPTION**

- Full cone spray pattern with uniform drop distribution and large spray angle
- X-twist vertebrae, which are resistant to clogging
- BSPT external thread or BSPP internal thread
- Materials: brass, SS303 or SS316L
- Other materials and spray angles on request



**TECHNICAL DATA**

| TYPE | Thread |      |      |      |      |    | Free passage<br>mm @90° | Flow rate (lpm) @ pressure (Bar) |       |       |       |       |       |        |        | Spray angle (°) @ pressure (Bar) |     |     |
|------|--------|------|------|------|------|----|-------------------------|----------------------------------|-------|-------|-------|-------|-------|--------|--------|----------------------------------|-----|-----|
|      | 1/8"   | 1/4" | 3/8" | 1/2" | 3/4" | 1" |                         | 0.35                             | 0.7   | 1     | 1.5   | 2     | 3     | 6      | 8      | 0.7                              | 2   | 6   |
| 6    | ☑      | ☑    | -    | -    | -    | -  | 1.55                    | 0.88                             | 1.25  | 1.50  | 1.88  | 2.18  | 2.65  | 3.41   | 3.76   | 110                              | 100 | 90  |
| 8    | ☑      | ☑    | -    | -    | -    | -  | 2.05                    | 1.30                             | 1.86  | 2.28  | 2.84  | 3.23  | 4.00  | 5.38   | 5.97   | 125                              | 120 | 100 |
| 11   | ☑      | ☑    | -    | -    | -    | -  | 2.50                    | 1.86                             | 2.79  | 3.23  | 3.86  | 4.31  | 5.15  | 6.73   | 7.70   | 115                              | 120 | 95  |
| 15   | -      | ☑    | -    | -    | -    | -  | 2.80                    | 2.60                             | 3.67  | 4.50  | 5.26  | 5.59  | 6.64  | 8.70   | 9.70   | 115                              | 110 | 90  |
| 18   | -      | ☑    | -    | -    | -    | -  | 3.00                    | 3.10                             | 4.4   | 5.39  | 6.30  | 6.70  | 7.96  | 10.43  | 11.63  | 120                              | 120 | 95  |
| 22   | -      | ☑    | ☑    | -    | -    | -  | 3.60                    | 3.95                             | 5.58  | 6.84  | 8.00  | 8.50  | 10,10 | 13.23  | 14.75  | 113                              | 110 | 90  |
| 25   | -      | -    | ☑    | -    | -    | -  | 3.75                    | 4.27                             | 6.04  | 7.24  | 8.43  | 9.32  | 11.01 | 14.65  | 16.26  | 120                              | 120 | 100 |
| 28   | -      | -    | ☑    | -    | -    | -  | 3.90                    | 4.49                             | 6.34  | 7.58  | 8.66  | 10.0  | 11.76 | 17.32  | 20.00  | 120                              | 110 | 90  |
| 32   | -      | -    | ☑    | -    | -    | -  | 4.00                    | 5.90                             | 7.70  | 9.15  | 10.80 | 11.92 | 14.30 | 18.90  | 21.26  | 115                              | 110 | 85  |
| 39   | -      | -    | ☑    | -    | -    | -  | 4.20                    | 7.20                             | 9.4   | 11.15 | 13.14 | 14.52 | 17.4  | 23.00  | 25.90  | 120                              | 120 | 90  |
| 46   | -      | -    | ☑    | ☑    | -    | -  | 4.30                    | 8.13                             | 11.62 | 13.64 | 15.86 | 17.27 | 19.29 | 25.45  | 29.39  | 125                              | 112 | 90  |
| 48   | -      | -    | ☑    | ☑    | -    | -  | 4.40                    | 8.33                             | 12.52 | 15.25 | 16.87 | 18.18 | 23.13 | 29.80  | 34.34  | 125                              | 120 | 90  |
| 59   | -      | -    | -    | ☑    | -    | -  | 4.60                    | 9.29                             | 13.23 | 15.96 | 19.29 | 22.32 | 26.06 | 34.64  | 40.70  | 130                              | 128 | 100 |
| 65   | -      | -    | -    | ☑    | -    | -  | 4.85                    | 12.00                            | 15.65 | 18.60 | 21.92 | 24.21 | 29.00 | 38.37  | 43.20  | 115                              | 110 | 85  |
| 73   | -      | -    | -    | ☑    | -    | -  | 5.00                    | 13.50                            | 17.6  | 20.88 | 24.50 | 27.19 | 32.60 | 43.10  | 48.50  | 115                              | 120 | 90  |
| 82   | -      | -    | -    | -    | ☑    | -  | 5.50                    | 15.35                            | 20.00 | 23.74 | 27.98 | 30.91 | 37.07 | 48.99  | 55.15  | 115                              | 112 | 90  |
| 94   | -      | -    | -    | -    | ☑    | -  | 5.80                    | 16.77                            | 22.32 | 26.87 | 32.72 | 35.45 | 41.92 | 56.26  | 63.33  | 119                              | 120 | 91  |
| 98   | -      | -    | -    | -    | ☑    | -  | 5.90                    | 18.08                            | 23.23 | 27.78 | 34.24 | 37.27 | 44.34 | 59.59  | 67.87  | 112                              | 120 | 90  |
| 136  | -      | -    | -    | -    | -    | ☑  | 7.25                    | 24.14                            | 35.25 | 42.32 | 48.18 | 51.41 | 60.20 | 81.20  | 91.41  | 118                              | 115 | 75  |
| 153  | -      | -    | -    | -    | -    | ☑  | 7.40                    | 27.88                            | 38.08 | 46.97 | 53.93 | 57.97 | 67.47 | 91.30  | 108.07 | 125                              | 120 | 85  |
| 200  | -      | -    | -    | -    | -    | ☑  | 7.70                    | 29.69                            | 42.32 | 51.41 | 62.62 | 75.95 | 88.68 | 120.19 | 139.38 | 118                              | 125 | 90  |

**DIMENSIONS**



| Thread | MALE |      |    | FEMALE |    |    |
|--------|------|------|----|--------|----|----|
|        | SW   | L    | LG | SW     | L  | LG |
|        | (mm) |      |    | (mm)   |    |    |
| 1/8"   | 11   | 17.5 | 7  | 13     | 25 | 7  |
| 1/4"   | 14   | 22   | 10 | 17     | 34 | 10 |
| 3/8"   | 17   | 25   | 10 | 22     | 38 | 10 |
| 1/2"   | 22   | 32   | 13 | 25     | 45 | 13 |
| 3/4"   | 27   | 38   | 15 | 30     | 55 | 15 |
| 1"     | 36   | 50   | 17 | 36     | 70 | 17 |

**HOW TO ORDER**

Thread BNM (male) / BNF (female) type material

**3/4" BNM 94 SS303**