



NCS

FULL CONE

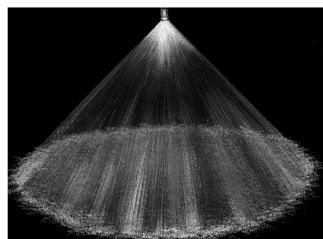
Stubbies/Minimize Head Space

DESIGN FEATURES

- Takes no more room than pipe plug, yet performs like full-size nozzle
- Small projection
- Can be used with standard pipe couplings to form female nozzle, with elbows to form right angle nozzle, or with tees or crosses for multiple installations
- Male connection
- Metal and plastic materials

SPRAY CHARACTERISTICS

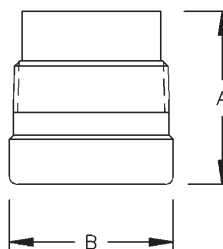
Spray pattern: Full Cone
 Spray angles: 70°, 90° and 110° standard
 Flow rates: 7.50 to 1596 l/min (Special flow rates available)



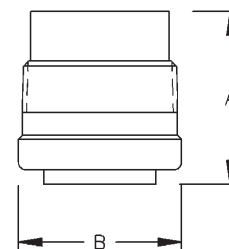
Full Cone 90° (M)



Full Cone 110° (W)



Plastic 70°-90°



Plastic 110°

Dimensions are approximate. Check with BETE for critical dimension applications.

NCS Flow Rates and Dimensions

Full Cone, Narrow 70° (N), Medium 90° (M) and Wide 110° (W) Spray Angles, 1" to 4" Pipe Sizes, BSP or NPT

| Male Pipe Size | Nozzle Number | K Factor | LITERS PER MINUTE @ BAR | | | | | | | | Approx. Orifice Dia. (mm) | Approx. Free Pass. Dia. (mm) | Dim. (mm) | | Wt. PVC (g) |
|----------------|---------------|----------|-------------------------|---------|---------|-------|-------|-------|-------|-------|---------------------------|------------------------------|-----------|------|-------------|
| | | | 0.2 bar | 0.5 bar | 0.7 bar | 1 bar | 2 bar | 3 bar | 5 bar | 7 bar | | | A | B | |
| 1 | NCS1003 | 16.0 | 7.50 | 11.5 | 13.5 | 16.0 | 22.1 | 26.8 | 34.1 | 39.9 | 5.59 | 3.81 | 47.6 | 35.1 | 43 |
| | NCS1005 | 26.6 | 12.5 | 19.2 | 22.5 | 26.6 | 36.9 | 44.7 | 56.8 | 66.5 | 7.11 | 5.59 | | | |
| | NCS1007 | 37.3 | 17.5 | 26.9 | 31.6 | 37.3 | 51.7 | 62.5 | 79.5 | 93.1 | 8.38 | 5.33 | | | |
| 1 1/2 | NCS1510 | 53.3 | 25.0 | 38.5 | 45.1 | 53.3 | 73.83 | 89.3 | 114 | 133 | 10.4 | 7.11 | 60.3 | 50.8 | 85 |
| | NCS1513 | 69.3 | 32.5 | 50.0 | 58.6 | 69.3 | 95.97 | 116 | 148 | 173 | 11.4 | 9.65 | | | |
| | NCS1516 | 85.3 | 40.0 | 61.6 | 72.1 | 85.3 | 118 | 143 | 182 | 213 | 12.7 | 9.14 | | | |
| 2 | NCS2020 | 107 | 50.0 | 77.0 | 90.1 | 107 | 148 | 179 | 227 | 266 | 14.2 | 10.4 | 66.7 | 63.5 | 170 |
| | NCS2025 | 133 | 62.5 | 96.2 | 113 | 133 | 185 | 223 | 284 | 333 | 16.3 | 11.4 | | | |
| | NCS2030 | 160 | 75.0 | 115 | 135 | 160 | 221 | 268 | 341 | 399 | 17.5 | 13.2 | | | |
| | NCS2035 | 187 | 87.6 | 135 | 158 | 187 | 258 | 313 | 397 | 466 | 19.1 | 14.0 | | | |
| 2 1/2 | NCS2540 | 213 | 100 | 154 | 180 | 213 | 295 | 357 | 454 | 532 | 20.3 | 16.0 | 76.2 | 76.2 | 255 |
| | NCS2545 | 240 | 113 | 173 | 203 | 240 | 332 | 402 | 511 | 599 | 21.3 | 16.0 | | | |
| | NCS2550 | 266 | 125 | 192 | 225 | 266 | 369 | 447 | 568 | 665 | 22.6 | 16.0 | | | |
| 3 | NCS3060 | 320 | 150 | 231 | 270 | 320 | 443 | 536 | 681 | 798 | 23.9 | 16.0 | 84.1 | 88.9 | 383 |
| | NCS3070 | 373 | 175 | 269 | 316 | 373 | 517 | 625 | 795 | 931 | 26.7 | 14.7 | | | |
| | NCS3085 | 453 | 213 | 327 | 383 | 453 | 628 | 759 | 965 | 1131 | 29.5 | 16.8 | | | |
| 4 | NCS40100 | 533 | 250 | 385 | 451 | 533 | 738 | 893 | 1136 | 1330 | 31.8 | 24.1 | 102 | 114 | 567 |
| | NCS40120 | 640 | 300 | 462 | 541 | 640 | 886 | 1072 | 1363 | 1596 | 35.1 | 25.4 | | | |

$$\text{Flow Rate (l/min)} = K (\text{bar})^{0.47}$$

Standard Materials: Brass, 316 Stainless Steel, Polypropylene, PVC and PTFE.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.