

STXP

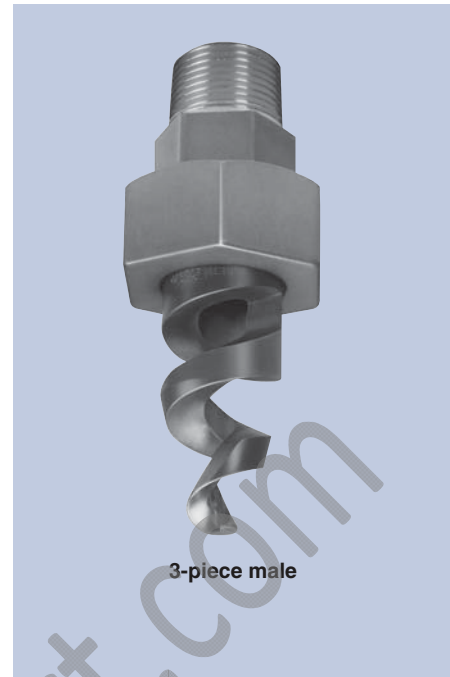
Largest Free Passage

DESIGN FEATURES

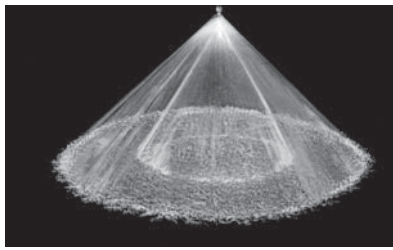
- Abrasion resistant
- Cobalt Alloy 6 or RBSC ceramic parts in high-wear areas
- High energy efficiency
- Largest free passage in spiral design
- Extra heavy, rugged construction
- Male and female connections
- Flanged and special connections available as required

SPRAY CHARACTERISTICS

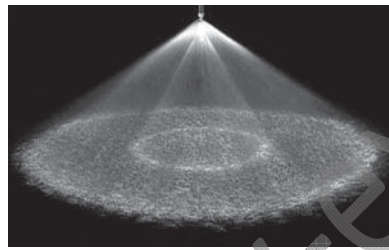
- Fine atomization
- Spray pattern:** Full Cone (Hollow Cone available by special order)
- Spray angles:** 90° and 120° standard
- Flow rates:** 9.67 to 10700 l/min (Higher flow rates available)



3-piece male



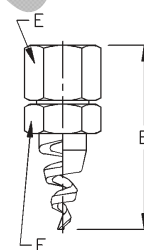
Full Cone 90° (XPN)



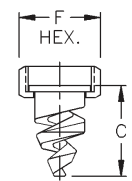
Full Cone 120° (XP)



3-piece Male



3-piece Female



2-piece Female

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

STXP Flow Rates & Dimensions

Full Cone, 90° (XPN) and 120° (XP) Spray Angles, 3/8" to 4" Pipe Sizes, BSP or NPT

| 3 piece Male or Female Pipe Size | ** 2 piece Female Pipe Size | Nozzle Number | K Factor | LITERS PER MINUTE @ BAR | | | | | | | | Approx. (mm) Orifice & Free Pass. Dia. | Approximate Dimensions (mm) | | | | | | Wt. (kg) Metal | |
|----------------------------------|-----------------------------|---------------|----------|-------------------------|---------|-------|-------|-------|-------|--------|--------|--|-----------------------------|------|------|------|------|------|----------------|------|
| | | | | 0.5 bar | 0.7 bar | 1 bar | 2 bar | 3 bar | 5 bar | 10 bar | 20 bar | | A | B | C | D | E | F | Male | Fem. |
| 3/8 | | ST12 | 13.7 | 9.67 | 11.4 | 13.7 | 19.3 | 23.7 | 30.6 | 43.2 | 61.1 | 4.83 | 100 | 85.9 | 54.1 | 35.1 | 35.1 | 38.1 | 0.23 | 0.23 |
| | | ST14 | 18.5 | 13.1 | 15.4 | 18.5 | 26.1 | 32.0 | 41.3 | 58.4 | 82.6 | 5.59 | 100 | 85.9 | 53.6 | 35.1 | 35.1 | 38.1 | | |
| | | ST16 | 24.2 | 17.1 | 20.2 | 24.2 | 34.2 | 41.8 | 54.0 | 76.4 | 108 | 6.35 | 100 | 85.9 | 53.8 | 35.1 | 35.1 | 38.1 | | |
| | | ST20 | 37.6 | 26.6 | 31.5 | 37.6 | 53.2 | 65.1 | 84.1 | 119 | 168 | 7.87 | 100 | 85.9 | 53.8 | 35.1 | 35.1 | 38.1 | | |
| 3/4 | | ST24 | 54.9 | 38.8 | 46.0 | 54.9 | 77.7 | 95.1 | 123 | 174 | 246 | 9.65 | 114 | 96.8 | 68.1 | 30.2 | 30.2 | 44.5 | 0.51 | 0.51 |
| | | ST28 | 75.2 | 53.2 | 62.9 | 75.2 | 106 | 130 | 168 | 238 | 336 | 11.2 | 114 | 96.8 | 68.1 | 30.2 | 30.2 | 44.5 | | |
| | | ST32 | 95.7 | 67.7 | 80.1 | 95.7 | 135 | 166 | 214 | 303 | 428 | 12.7 | 152 | 130 | 107 | 38.1 | 38.1 | 55.6 | | |
| 1 | | ST40 | 153 | 108 | 128 | 153 | 216 | 264 | 341 | 483 | 683 | 16.0 | 160 | 135 | 103 | 47.8 | 47.8 | 69.9 | 1.36 | 1.19 |
| | | ST48 | 216 | 153 | 181 | 216 | 306 | 375 | 484 | 685 | 968 | 19.5 | 189 | 164 | 141 | 47.8 | 47.8 | 69.9 | | |
| 1 1/2 | 2 1/2 | ST56 | 294 | 208 | 246 | 294 | 416 | 509 | 657 | 930 | 1320 | 22.4 | 217 | 184 | 140 | 76.2 | 76.2 | 88.9 | 2.72 | 1.53 |
| | | ST64 | 385 | 272 | 322 | 385 | 545 | 667 | 861 | 1220 | 1720 | 25.4 | 217 | 184 | 145 | 76.2 | 76.2 | 88.9 | | |
| | | ST72 | 438 | 309 | 366 | 438 | 619 | 758 | 978 | 1380 | 1960 | 28.7 | 224 | 194 | 146 | 76.2 | 76.2 | 88.9 | | |
| 2 | 3 | ST88 | 638 | 451 | 534 | 638 | 902 | 1110 | 1430 | 2020 | 2850 | 35.1 | 298 | 203 | 213 | 92.2 | 92.2 | 102 | 3.63 | 1.81 |
| | | ST96 | 806 | 570 | 674 | 806 | 1140 | 1400 | 1800 | 2550 | 3600 | 38.1 | 290 | 259 | 218 | 92.2 | 92.2 | 102 | | |
| 3 | 3 | ST112 | 1170 | 826 | 977 | 1170 | 1650 | 2020 | 2610 | 3690 | 5220 | 44.5* | 301 | 300 | 217 | 92.2 | 102 | 102 | 4.54 | 2.67 |
| | | ST128 | 1540 | 1090 | 1290 | 1540 | 2180 | 2670 | 3450 | 4880 | 6900 | 50.8* | 320 | 300 | 217 | 92.2 | 102 | 102 | | |
| 4 | 4 | ST160 | 2390 | 1690 | 2000 | 2390 | 3380 | 4140 | 5350 | 7570 | 10700 | 63.5* | 330 | 330 | 254 | 127 | 127 | 127 | 5.44 | 4.54 |

Flow Rate (l/min) = $K \sqrt{\text{bar}}$ *Free Passage is 38.1 mm **Parallel threads only

Standard Materials: Base and Caps - 316 Stainless Steel; Tip - Cobalt Alloy 6 or RBSC Ceramic. (RBSC not available on nozzle numbers ST6 - ST32).

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

