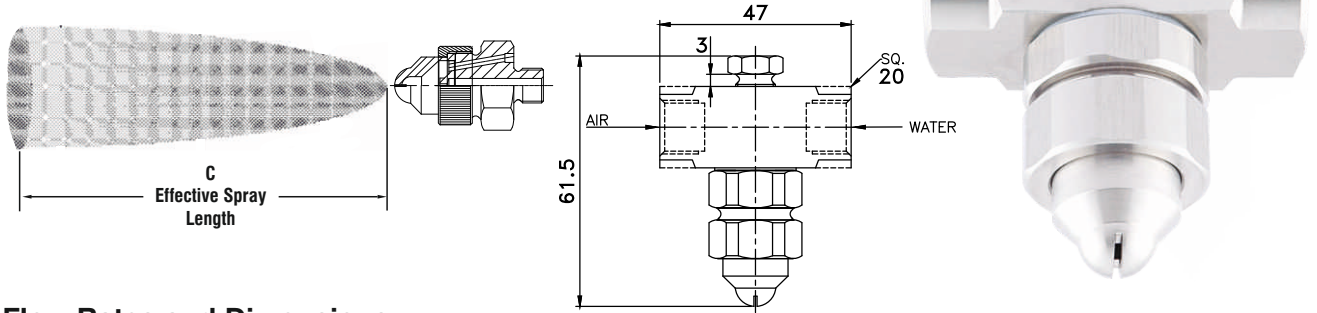


CAIA Series Flat Internal Air Atomizing Spray Nozzles

DESIGN / SPRAY CHARACTERISTICS

- Internal mix
- Very fine atomization
- Flat fan, wide angle spray patterns (range 45° and 120°)



Flow Rates and Dimensions

Pressure-fed, Internal Mix, Flat Spray Pattern, 1/8" and 1/4" Pipe Sizes, BSP or NPT

| Pipe Size | Model No. | 0.7 Bar Liquid | | | 1.5 Bar Liquid | | | 2.0 Bar Liquid | | | 3.0 Bar Liquid | | | 4.0 Bar Liquid | | | Spray Dimensions | |
|------------------|-----------|----------------|------|--------------------|----------------|------|--------------------|----------------|------|--------------------|----------------|------|--------------------|----------------|------|--------------------|---------------------------------|---------------------------------|
| | | Air (bar) | l/h | Nm ³ /h | Air (bar) | l/h | Nm ³ /h | Air (bar) | l/h | Nm ³ /h | Air (bar) | l/h | Nm ³ /h | Air (bar) | l/h | Nm ³ /h | "C" Effective Spray Length (mm) | Max. Spray Length (m) |
| 1/8 or 1/4 | CAIA 050 | 0.7 | 5.5 | 1.44 | 1.3 | 9.1 | 1.86 | 2.0 | 8.6 | 2.52 | 2.7 | 11.2 | 3.12 | 3.9 | 12.0 | 4.14 | 460 660 760 860 940 | 2.6 3.0 3.2 3.4 4.0 |
| | | 0.9 | 4.7 | 1.62 | 1.5 | 7.7 | 2.16 | 2.2 | 7.5 | 2.82 | 3.0 | 10.1 | 3.36 | 4.6 | 9.7 | 4.86 | | |
| | | 1.0 | 4.1 | 1.86 | 1.8 | 6.5 | 2.52 | 2.5 | 6.2 | 3.12 | 3.2 | 9.1 | 3.72 | 5.3 | 7.5 | 5.58 | | |
| | | 1.1 | 3.5 | 2.04 | 2.1 | 5.4 | 2.82 | 2.8 | 5.2 | 3.42 | 3.5 | 8.1 | 3.96 | 6.0 | 5.3 | 6.24 | | |
| | | 1.3 | 3.0 | 2.22 | 2.4 | 4.3 | 3.12 | 3.1 | 4.2 | 3.78 | 4.2 | 5.4 | 4.74 | 6.3 | 4.3 | 6.60 | | |
| | | 1.4 | 2.5 | 2.40 | 2.7 | 3.3 | 3.42 | 3.2 | 3.7 | 3.90 | 4.6 | 4.2 | 5.10 | 6.7 | 3.3 | 6.96 | | |
| 1.5 | 2.0 | 2.64 | 2.8 | 2.8 | 3.60 | 3.4 | 3.2 | 4.08 | 4.9 | 3.1 | 5.46 | 7.0 | 2.4 | 7.32 | | | | |
| 1/8 or 1/4 | CAIA 100 | 1.3 | 3.9 | 1.80 | 2.1 | 7.4 | 2.40 | 3.0 | 6.1 | 3.12 | 3.9 | 9.4 | 3.60 | 5.3 | 10.2 | 4.68 | 460 690 740 940 970 | 1.8 2.0 2.0 2.1 2.3 |
| | | 1.4 | 3.0 | 1.98 | 2.4 | 5.3 | 2.70 | 3.1 | 5.3 | 3.24 | 4.2 | 7.2 | 4.02 | 5.6 | 8.3 | 5.04 | | |
| | | 1.5 | 2.3 | 2.10 | 2.5 | 4.4 | 2.82 | 3.2 | 4.5 | 3.42 | 4.6 | 5.3 | 4.38 | 6.0 | 6.6 | 5.34 | | |
| | | 1.7 | 1.8 | 2.28 | 2.7 | 3.7 | 3.00 | 3.4 | 3.8 | 3.54 | 4.9 | 3.8 | 4.80 | 6.3 | 5.1 | 5.88 | | |
| | | 1.8 | 1.3 | 2.46 | 2.8 | 3.1 | 3.12 | 3.5 | 3.2 | 3.72 | | | | | | | | |
| | | 2.0 | 1.0 | 2.64 | 3.0 | 2.6 | 3.30 | 3.9 | 1.8 | 4.08 | | | | | | | | |
| 1/8 or 1/4 | CAIA 150 | 0.9 | 8.2 | 1.20 | 1.4 | 14.4 | 1.62 | 2.1 | 13.5 | 2.16 | 2.7 | 19.1 | 2.52 | 4.6 | 16.1 | 4.14 | 710 810 890 970 970 | 2.1 2.4 2.6 2.7 3.2 |
| | | 1.0 | 6.8 | 1.38 | 1.7 | 11.9 | 1.92 | 2.4 | 11.4 | 2.52 | 3.0 | 17.1 | 2.76 | 4.9 | 13.8 | 4.56 | | |
| | | 1.1 | 5.5 | 1.62 | 2.0 | 9.5 | 2.22 | 2.7 | 9.2 | 2.82 | 3.2 | 15.1 | 3.12 | 5.3 | 11.5 | 4.98 | | |
| | | 1.3 | 4.1 | 1.80 | 2.1 | 8.3 | 2.40 | 3.0 | 7.1 | 3.18 | 3.5 | 13.1 | 3.42 | 5.6 | 9.3 | 5.40 | | |
| | | 2.2 | 2.9 | 2.04 | 2.2 | 7.1 | 2.58 | 3.2 | 5.0 | 3.54 | 4.2 | 8.1 | 4.32 | 6.0 | 7.3 | 5.82 | | |
| | | 2.4 | 6.1 | 2.76 | 3.4 | 4.0 | 3.78 | 4.0 | 3.78 | 4.6 | 5.9 | 4.74 | 6.3 | 5.6 | 6.24 | | | |
| 2.5 | 5.1 | 2.94 | 3.5 | 3.3 | 3.96 | 3.5 | 3.3 | 3.96 | 4.9 | 4.0 | 5.16 | 6.7 | 4.3 | 6.72 | | | | |
| 1/8 or 1/4 | CAIA 200 | 1.0 | 9.0 | 1.50 | 2.0 | 10.4 | 2.46 | 2.4 | 11.6 | 2.88 | 3.1 | 15.6 | 3.36 | 4.2 | 17.1 | 4.38 | 170 200 220 280 330 | 3.0 3.7 4.0 4.2 4.8 |
| | | 1.1 | 7.8 | 1.80 | 2.1 | 9.3 | 2.70 | 2.5 | 10.4 | 3.06 | 3.2 | 14.6 | 3.54 | 4.6 | 15.0 | 4.80 | | |
| | | 1.3 | 6.6 | 1.92 | 2.2 | 8.2 | 2.88 | 2.7 | 9.4 | 3.24 | 3.4 | 13.7 | 3.72 | 4.9 | 12.8 | 5.22 | | |
| | | 1.4 | 5.2 | 2.16 | 2.5 | 6.1 | 3.30 | 3.0 | 7.3 | 3.66 | 3.8 | 10.8 | 4.26 | 5.3 | 11.0 | 5.64 | | |
| | | 1.7 | 3.1 | 2.64 | 2.8 | 4.3 | 3.72 | 3.2 | 5.5 | 4.08 | 4.2 | 8.5 | 4.92 | 5.6 | 9.4 | 6.18 | | |
| | | 2.0 | 2.0 | 3.00 | 3.1 | 3.0 | 4.14 | 3.5 | 4.1 | 4.50 | 4.9 | 5.2 | 5.88 | 6.3 | 7.2 | 7.14 | | |
| 2.2 | 1.1 | 3.36 | 3.4 | 2.0 | 4.50 | 3.8 | 2.9 | 4.86 | 6.0 | 2.3 | 7.20 | 7.0 | 6.1 | 8.04 | | | | |
| 1/8 or 1/4 | CAIA 250 | 1.1 | 11.2 | 3.24 | 2.1 | 18.0 | 4.47 | 2.7 | 19.6 | 5.58 | 3.5 | 27.0 | 6.72 | 4.6 | 33.0 | 8.22 | 200 330 400 460 480 | 3.0 3.2 3.4 3.5 4.0 |
| | | 1.3 | 8.5 | 3.60 | 2.2 | 15.8 | 5.04 | 2.8 | 17.3 | 5.88 | 3.7 | 25.0 | 6.96 | 4.9 | 28.0 | 8.94 | | |
| | | 1.4 | 6.5 | 3.90 | 2.4 | 13.6 | 5.34 | 3.0 | 15.2 | 6.18 | 3.8 | 23.0 | 7.26 | 5.3 | 24.0 | 9.66 | | |
| | | 1.5 | 5.0 | 4.26 | 2.5 | 11.6 | 5.70 | 3.1 | 13.2 | 6.54 | 3.9 | 21.0 | 7.56 | 5.6 | 19.7 | 10.4 | | |
| | | 1.7 | 3.8 | 4.62 | | | | 3.2 | 11.4 | 6.84 | 4.1 | 18.9 | 7.92 | 6.0 | 15.7 | 11.2 | | |
| 1.5 | | | | | | | | | 4.2 | 17.0 | 8.22 | 6.3 | 12.4 | 12.0 | | | | |
| 1/8 or 1/4 | CAIA 300 | 0.9 | 27.0 | 1.98 | 1.8 | 38.0 | 3.30 | 2.4 | 39.0 | 4.02 | 3.2 | 58.0 | 4.56 | 4.6 | 59.0 | 6.36 | 300 410 430 480 510 | 3.4 3.5 3.7 3.8 4.4 |
| | | 1.0 | 20.0 | 2.28 | 2.1 | 28.0 | 3.96 | 2.7 | 30.0 | 4.62 | 3.5 | 47.0 | 5.22 | 5.3 | 40.0 | 7.92 | | |
| | | 1.1 | 15.9 | 2.70 | 2.2 | 24.0 | 4.26 | 3.0 | 24.0 | 5.22 | 3.8 | 38.0 | 5.82 | 5.6 | 32.0 | 8.70 | | |
| | | 1.3 | 12.5 | 2.88 | 2.4 | 21.0 | 4.56 | 3.2 | 17.8 | 5.88 | 3.9 | 34.0 | 6.18 | 6.0 | 26.0 | 9.48 | | |
| | | 1.4 | 10.2 | 3.36 | 2.5 | 17.8 | 4.92 | 3.4 | 15.1 | 6.18 | 4.2 | 27.0 | 6.78 | 6.3 | 20.0 | 10.3 | | |
| | | 1.5 | 7.6 | 3.72 | 2.7 | 15.1 | 5.22 | 3.5 | 12.9 | 6.54 | 4.6 | 20.0 | 7.56 | 6.7 | 15.9 | 11.1 | | |
| 1.5 | | | | | | 3.7 | 10.6 | 6.84 | 4.9 | 14.8 | 8.40 | 7.0 | 12.7 | 11.9 | | | | |
| 1/8 or 1/4 | CAIA 350 | 1.0 | 17.0 | 1.38 | 2.0 | 24.0 | 2.64 | 2.4 | 28.0 | 3.06 | 3.4 | 38.0 | 4.32 | 3.9 | 65.0 | 4.50 | 150 170 220 280 350 | 2.4 3.0 3.4 3.6 4.0 |
| | | 1.1 | 11.0 | 1.62 | 2.1 | 18.9 | 3.00 | 2.5 | 23.0 | 3.54 | 3.5 | 33.0 | 4.80 | 4.2 | 53.0 | 5.34 | | |
| | | 1.3 | 7.6 | 1.98 | 2.2 | 14.4 | 3.36 | 2.7 | 18.9 | 3.96 | 3.7 | 28.0 | 5.34 | 4.6 | 40.0 | 6.48 | | |
| | | 2.4 | 3.2 | 2.40 | 2.4 | 10.6 | 3.78 | 2.8 | 15.1 | 4.44 | 3.8 | 23.0 | 5.82 | 4.9 | 30.0 | 7.62 | | |
| | | 2.5 | | | 2.5 | 7.2 | 4.26 | 3.0 | 11.7 | 4.74 | 3.8 | 19.7 | 6.30 | 5.3 | 21.0 | 8.94 | | |
| | | | | | | | | | 4.2 | 13.1 | 7.20 | 5.6 | 13.8 | 10.4 | | | | |
| | | | | | | | | | 4.6 | 7.2 | 8.28 | 6.3 | 3.2 | 13.5 | | | | |
| 1/8 or 1/4 | CAIA 400 | 1.0 | 29.0 | 5.40 | 1.8 | 56.0 | 7.02 | 2.1 | 100 | 7.14 | 3.0 | 126 | 8.40 | 4.1 | 140 | 10.9 | 250 430 460 530 580 | 3.4 3.8 4.3 4.6 5.2 |
| | | 1.1 | 18.9 | 6.48 | 2.0 | 40.0 | 7.98 | 2.2 | 79.0 | 7.98 | 3.1 | 110 | 9.06 | 4.2 | 125 | 11.6 | | |
| | | | | | | | | 2.4 | 62.0 | 8.82 | 3.2 | 95.0 | 9.78 | 4.6 | 89.0 | 13.5 | | |
| | | | | | | | | 2.5 | 48.0 | 9.72 | 3.4 | 78.0 | 11.0 | 4.9 | 58.0 | 15.9 | | |
| | | | | | | | | 2.7 | 36.0 | 10.6 | 3.5 | 62.0 | 11.6 | 5.3 | 34.0 | 18.3 | | |
| | | | | | | | | | | | 3.7 | 48.0 | 12.6 | 5.6 | 16.0 | 20.4 | | |
| | | | | | | | | | 3.8 | 37.0 | 13.5 | | | | | | | |

Standard Materials: Nickel-plated Brass, 303 Stainless Steel and 316 Stainless Steel.