



Tangential-flow full cone nozzles

Plastic version

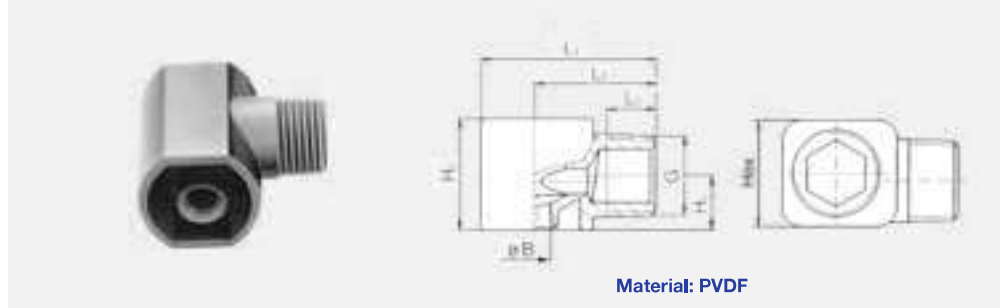
Series 422/423



Tangentially arranged liquid supply. Without swirl inserts. Non-clogging. Stable spray angle. Uniform spray.

Applications:

Cleaning and washing processes, surface spraying, bottle cleaning, keg cleaning, sausage showers, foam control, degassing, pasteurization.



Material: PVDF

Full cone nozzles

| Dimensions [mm] | | | | | | | Weight |
|-----------------|----------------|----------------|----------------|----------------|----------------|------|--------|
| G | L ₁ | L ₂ | L ₃ | H ₁ | H ₂ | Hex | |
| 1/4 BSPT | 28.0 | 20.0 | 9.8 | 8.0 | 16.0 | 16.0 | 7 g |
| 3/8 BSPT | 36.0 | 25.0 | 10.1 | 11.2 | 23.0 | 22.0 | 16 g |
| 1/2 BSPT | 49.5 | 33.5 | 13.2 | 19.2 | 38.0 | 32.0 | 40 g |
| 3/4 BSPT | 58.5 | 38.5 | 18.5 | 24.5 | 50.0 | 41.0 | 50 g |

| Spray angle | Ordering no. | | | | | | B ∅ [mm] | E ∅ [mm] | V̇ [l/min] | | | | | | Spray diameter D at p = 1-10 bar | | | |
|-------------|--------------|----------|------|----------|----------|----------|-------------|-------------|------------|-------|-------|-------|------------------------|-------|--|------------|-------|-------|
| | Type | Mat. no. | Code | | | | | | p [bar] | | | | | | H = 200 mm | H = 500 mm | | |
| | | 5E | PVDF | 1/4 BSPT | 3/8 BSPT | 1/2 BSPT | | | 3/4 BSPT | 0.5 | 1.0 | 2.0 | US [gal/min] at 40 psi | 3.0 | | | 5.0 | 10.0 |
| 60° | 422.724 | ○ | - | CE | - | - | 3.60 | 3.60 | 3.15 | 4.45 | 6.30 | 1.95 | 7.72 | 9.96 | 14.09 | 225 | 510 | |
| 90° | 422.406 | ○ | CC | - | - | - | 1.50 | 1.45 | 0.50 | 0.71 | 1.00 | 0.31 | 1.22 | 1.58 | 2.24 | 680 | 1,220 | |
| | 422.566 | ○ | CC | - | - | - | 2.30 | 2.20 | 1.25 | 1.77 | 2.50 | 0.78 | 3.06 | 3.95 | 5.59 | 380 | 860 | |
| | 422.606 | ○ | - | CE | - | - | 2.60 | 2.50 | 1.57 | 2.23 | 3.15 | 0.98 | 3.86 | 4.98 | 7.04 | 380 | 860 | |
| | 422.646 | ○ | - | CE | - | - | 3.00 | 2.90 | 2.00 | 2.83 | 4.00 | 1.24 | 4.90 | 6.32 | 8.94 | 390 | 960 | |
| | 422.726 | ○ | - | CE | - | - | 3.70 | 3.60 | 3.15 | 4.45 | 6.30 | 1.95 | 7.72 | 9.96 | 14.09 | 390 | 960 | |
| | 422.806 | ○ | - | CE | - | - | 4.65 | 4.60 | 5.00 | 7.07 | 10.00 | 3.10 | 12.25 | 15.81 | 22.36 | 390 | 960 | |
| | 422.846 | ○ | - | CE | - | - | 5.30 | 5.30 | 6.25 | 8.84 | 12.50 | 3.88 | 15.31 | 19.76 | 27.95 | 390 | 960 | |
| | 422.886 | ○ | - | CE | - | - | 5.85 | 5.85 | 8.00 | 11.31 | 16.00 | 4.96 | 19.60 | 25.30 | 35.78 | 390 | 960 | |
| | 422.926 | ○ | - | - | CG | - | - | 7.30 | 7.30 | 10.00 | 14.14 | 20.00 | 6.20 | 24.49 | 31.62 | 44.72 | 390 | 960 |
| | 422.966 | ○ | - | - | CG | - | - | 8.00 | 8.00 | 12.50 | 17.68 | 25.00 | 7.75 | 30.62 | 39.53 | 55.90 | 390 | 960 |
| 423.006 | ○ | - | - | CG | - | - | 8.70 | 8.70 | 15.75 | 22.27 | 31.50 | 9.77 | 38.58 | 49.81 | 70.44 | 390 | 960 | |
| 423.126 | ○ | - | - | - | CK | - | 12.00 | 12.00 | 31.50 | 44.55 | 63.00 | 19.54 | 77.16 | 99.61 | 140.87 | 390 | 960 | |
| 120° | 422.408 | ○ | CC | - | - | - | 1.50 | 1.45 | 0.50 | 0.71 | 1.00 | 0.31 | 1.22 | 1.58 | 2.24 | 680 | 1,220 | |
| | 422.448 | ○ | CC | - | - | - | 1.65 | 1.60 | 0.62 | 0.88 | 1.25 | 0.39 | 1.53 | 1.98 | 2.80 | 680 | 1,220 | |
| | 422.488 | ○ | CC | - | - | - | 1.90 | 1.90 | 0.80 | 1.13 | 1.60 | 0.50 | 1.96 | 2.53 | 3.58 | 680 | 1,220 | |
| | 422.568 | ○ | CC | - | - | - | 2.40 | 2.40 | 1.25 | 1.77 | 2.50 | 0.78 | 3.06 | 3.95 | 5.59 | 680 | 1,220 | |
| | 422.728 | ○ | - | CE | - | - | 4.00 | 3.90 | 3.15 | 4.45 | 6.30 | 1.95 | 7.72 | 9.96 | 14.09 | 680 | 1,600 | |
| | 422.888 | ○ | - | CE | - | - | 6.60 | 6.00 | 8.00 | 11.31 | 16.00 | 4.96 | 19.60 | 25.30 | 35.78 | 680 | 1,600 | |
| | 422.968 | ○ | - | - | CG | - | - | 8.00 | 8.00 | 12.50 | 17.68 | 25.00 | 7.75 | 30.62 | 39.53 | 55.90 | 680 | 1,600 |
| | 423.008 | ○ | - | - | CG | - | - | 8.70 | 8.70 | 15.75 | 22.27 | 31.50 | 9.77 | 38.58 | 49.81 | 70.44 | 680 | 1,600 |
| | 423.128 | ○ | - | - | - | CK | - | 12.70 | 12.30 | 31.50 | 44.55 | 63.00 | 19.54 | 77.16 | 99.61 | 140.87 | 680 | 1,600 |

B = bore diameter · E = narrowest free cross section

Example of ordering: Type 422.724 + Material-no. 5E + Code CE = Ordering no. 422.724.5E.CE

The folded page at the end of the catalogue will give you a survey on the various assembly possibilities. For complete assembly accessories, please refer to »Accessories«.

Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$