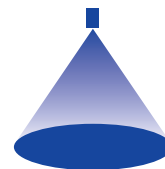
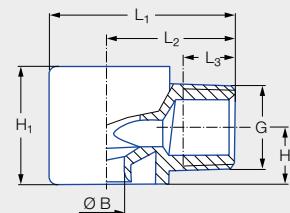
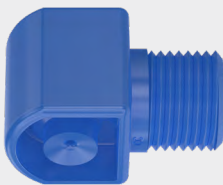


# Tangential-flow full cone nozzles, plastic version Series 422/423



## Features:

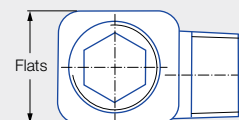
- Tangentially arranged supply of liquid
- Without swirl inserts
- Non-clogging
- Stable spray angle
- Uniform liquid distribution
- High chemical resistance



## Applications:

- Surface spraying
- Cooling
- Cleaning and washing processes
- Foam control

Series 422/423



| Code      | G        | Dimensions [mm] |                |                |                |                |       | Weight [g] |
|-----------|----------|-----------------|----------------|----------------|----------------|----------------|-------|------------|
|           |          | H <sub>1</sub>  | H <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | Flats |            |
| <b>CC</b> | 1/4 BSPT | 16.0            | 8.0            | 28.0           | 20.0           | 9.8            | 16.0  | 7.0        |
| <b>CE</b> | 3/8 BSPT | 23.0            | 11.2           | 36.0           | 25.0           | 10.1           | 22.0  | 16.0       |
| <b>CG</b> | 1/2 BSPT | 38.0            | 19.2           | 49.5           | 33.5           | 13.2           | 32.0  | 40.0       |
| <b>CK</b> | 3/4 BSPT | 50.0            | 24.5           | 58.5           | 38.5           | 18.5           | 41.0  | 50.0       |

| Spray<br>angle | Ordering no. |          |          |          |          |          | Bore<br>diameter B<br>[mm] | Narrowest<br>free cross<br>sections<br>Ø<br>[mm] | V̇ water [l/min] |       |       |       |       |        | Spray<br>diameter D<br>[mm]<br>(at p = 2 bar)<br> |                 |
|----------------|--------------|----------|----------|----------|----------|----------|----------------------------|--------------------------------------------------|------------------|-------|-------|-------|-------|--------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                | Type         | Mat. no. | Code     |          |          |          |                            |                                                  | p [bar]          |       |       |       |       |        |                                                                                                                                        |                 |
|                |              | 5E       | 1/4 BSPT | 3/8 BSPT | 1/2 BSPT | 3/4 BSPT |                            |                                                  |                  |       |       |       |       |        |                                                                                                                                        |                 |
|                |              | PVDF     |          |          |          |          |                            |                                                  | 0.5              | 1.0   | 2.0   | 3.0   | 5.0   | 10.0   | H = 250<br>[mm]                                                                                                                        | H = 500<br>[mm] |
| 60°            | 422.724      | ●        |          |          |          |          |                            | CE                                               |                  |       | 3.60  | 3.60  | 3.15  | 4.45   | 6.30                                                                                                                                   | 7.72            |
| 90°            | 422.406      | ●        | CC       |          |          |          | 1.50                       | 1.45                                             | 0.50             | 0.71  | 1.00  | 1.22  | 1.58  | 2.24   | 530                                                                                                                                    | 900             |
|                | 422.566      | ●        | CC       |          |          |          | 2.30                       | 2.20                                             | 1.25             | 1.77  | 2.50  | 3.06  | 3.95  | 5.59   | 530                                                                                                                                    | 920             |
|                | 422.606      | ●        |          | CE       |          |          | 2.60                       | 2.50                                             | 1.58             | 2.23  | 3.15  | 3.86  | 4.98  | 7.04   | 540                                                                                                                                    | 920             |
|                | 422.646      | ●        |          | CE       |          |          | 3.00                       | 2.90                                             | 2.00             | 2.83  | 4.00  | 4.90  | 6.32  | 8.94   | 540                                                                                                                                    | 930             |
|                | 422.726      | ●        |          | CE       |          |          | 3.70                       | 3.60                                             | 3.15             | 4.45  | 6.30  | 7.72  | 9.96  | 14.09  | 550                                                                                                                                    | 950             |
|                | 422.806      | ●        |          | CE       |          |          | 4.65                       | 4.60                                             | 5.00             | 7.07  | 10.00 | 12.25 | 15.81 | 22.36  | 560                                                                                                                                    | 980             |
|                | 422.846      | ●        |          | CE       |          |          | 5.30                       | 5.30                                             | 6.25             | 8.84  | 12.50 | 15.31 | 19.76 | 27.95  | 560                                                                                                                                    | 990             |
|                | 422.886      | ●        |          | CE       |          |          | 5.80                       | 5.80                                             | 8.00             | 11.31 | 16.00 | 19.60 | 25.30 | 35.78  | 570                                                                                                                                    | 1,010           |
|                | 422.926      | ●        |          |          | CG       |          | 7.30                       | 7.30                                             | 10.00            | 14.14 | 20.00 | 24.49 | 31.62 | 44.72  | 570                                                                                                                                    | 1,030           |
|                | 422.966      | ●        |          |          | CG       |          | 8.00                       | 8.00                                             | 12.50            | 17.68 | 25.00 | 30.62 | 39.53 | 55.90  | 580                                                                                                                                    | 1,040           |
|                | 423.006      | ●        |          |          | CG       |          | 8.70                       | 8.70                                             | 15.75            | 22.27 | 31.50 | 38.58 | 49.81 | 70.44  | 580                                                                                                                                    | 1,040           |
|                | 423.126      | ●        |          |          |          | CK       | 12.00                      | 12.00                                            | 31.50            | 44.55 | 63.00 | 77.16 | 99.61 | 140.87 | 580                                                                                                                                    | 1,050           |





| Spray angle | Ordering no. |          |          |          |          |          | Bore diameter B [mm] | Narrowest free cross sections Ø [mm] | V̇ water [l/min] |       |       |       |        |       | Spray diameter D [mm]<br>(at p = 2 bar)<br> |              |
|-------------|--------------|----------|----------|----------|----------|----------|----------------------|--------------------------------------|------------------|-------|-------|-------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------|--------------|
|             | Type         | Mat. no. | Code     |          |          |          |                      |                                      | p [bar]          |       |       |       |        |       |                                                                                                                                |              |
|             |              | 5E       | 1/4 BSPT | 3/8 BSPT | 1/2 BSPT | 3/4 BSPT |                      |                                      | 0.5              | 1.0   | 2.0   | 3.0   | 5.0    | 10.0  | H = 250 [mm]                                                                                                                   | H = 500 [mm] |
|             |              | PVDF     |          |          |          |          |                      |                                      |                  |       |       |       |        |       |                                                                                                                                |              |
| 120°        | 422.408      | ●        | CC       |          |          |          | 1.50                 | 1.45                                 | 0.50             | 0.71  | 1.00  | 1.22  | 1.58   | 2.24  | 670                                                                                                                            | 1,200        |
|             | 422.448      | ●        | CC       |          |          |          | 1.65                 | 1.60                                 | 0.63             | 0.88  | 1.25  | 1.53  | 1.98   | 2.80  | 680                                                                                                                            | 1,210        |
|             | 422.488      | ●        | CC       |          |          |          | 1.90                 | 1.90                                 | 0.80             | 1.13  | 1.60  | 1.96  | 2.53   | 3.58  | 680                                                                                                                            | 1,230        |
|             | 422.568      | ●        | CC       |          |          |          | 2.40                 | 2.40                                 | 1.25             | 1.77  | 2.50  | 3.06  | 3.95   | 5.59  | 700                                                                                                                            | 1,260        |
|             | 422.728      | ●        |          | CE       |          |          | 4.00                 | 3.90                                 | 3.15             | 4.45  | 6.30  | 7.72  | 9.96   | 14.09 | 770                                                                                                                            | 1,400        |
|             | 422.888      | ●        |          | CE       |          |          | 6.60                 | 6.00                                 | 8.00             | 11.31 | 16.00 | 19.60 | 25.30  | 35.78 | 850                                                                                                                            | 1,560        |
|             | 422.968      | ●        |          |          | CG       |          | 8.00                 | 8.00                                 | 12.50            | 17.68 | 25.00 | 30.62 | 39.53  | 55.90 | 960                                                                                                                            | 1,620        |
|             | 423.008      | ●        |          |          | CG       |          | 8.70                 | 8.70                                 | 15.75            | 22.27 | 31.50 | 38.58 | 49.81  | 70.44 | 970                                                                                                                            | 1,630        |
| 423.128     | ●            |          |          |          | CK       | 12.70    | 12.30                | 31.50                                | 44.55            | 63.00 | 77.16 | 99.61 | 140.87 | 990   | 1,660                                                                                                                          |              |

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

Ordering Type + Material no. + Code = Ordering no.  
example: 422.408 + 5E + CC = 422.408.5E.CC



Assembly accessories can be found in Chapter 9 "Accessories".

