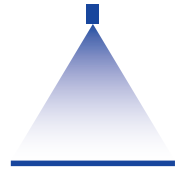


# High pressure flat fan nozzles

## Series 6FH with spray stabiliser



### Features:

- Sharp, uniform flat fan spray
- Extremely narrow spray depth
- Nozzle with spray stabilizer
- Housing: Stainless steel 303, Insert: Hardened stainless steel 420F, spray stabiliser: Stainless steel 301

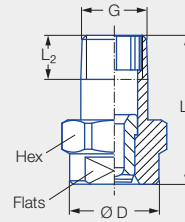
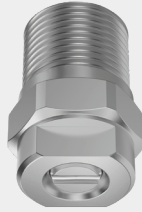


Figure 1

### Applications:

- High pressure cleaning

Series 6FH

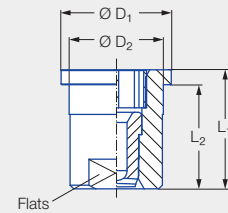
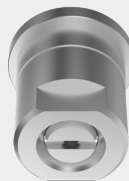


Figure 2

| Code                                 | Figure | G        | Dimensions [mm] |                |       |                  |                  |     |       | Weight [g] | p <sub>max</sub> <sup>1</sup> [bar] |
|--------------------------------------|--------|----------|-----------------|----------------|-------|------------------|------------------|-----|-------|------------|-------------------------------------|
|                                      |        |          | L <sub>1</sub>  | L <sub>2</sub> | Ø D   | Ø D <sub>1</sub> | Ø D <sub>2</sub> | Hex | Flats |            |                                     |
| <b>CA</b>                            | 1      | 1/8 BSPT | 22.00           | 6.50           | 13.00 | –                | –                | 14  | 10    | 13.00      | approx. 700                         |
| <b>BA</b>                            | 1      | 1/8 NPT  | 22.00           | 6.70           | 13.00 | –                | –                | 14  | 10    | 13.00      | approx. 700                         |
| <b>CC</b>                            | 1      | 1/4 BSPT | 22.00           | 10.00          | 13.00 | –                | –                | 14  | 10    | 18.00      | approx. 700                         |
| <b>BC</b>                            | 1      | 1/4 NPT  | 22.00           | 10.20          | 13.00 | –                | –                | 14  | 10    | 18.00      | approx. 700                         |
| Assembly with retaining nut 3/8 BSPP | 2      | –        | 16.00           | 14.00          | –     | 14.80            | 12.65            | –   | 10    | 13.00      | approx. 300                         |

<sup>1</sup> Applies only to operation at constant pressure.

| US gal/min at 40 psi | Series     | Ordering no.   |            |            |            |   | Equivalent bore diameter A [mm] | V̇ water [l/min] |       |              |       |       |       |       |
|----------------------|------------|----------------|------------|------------|------------|---|---------------------------------|------------------|-------|--------------|-------|-------|-------|-------|
|                      |            | Flow rate code |            |            |            | Mat. no. A3<br>Stainless steel 303/420F/301 |                                 | p [bar]          |       |              |       |       |       |       |
|                      |            | Spray angle    |            |            |            |   |                                 | 40               | 60    | 80           | 100   | 120   | 150   | 200   |
|                      |            | 20°            | 30°        | 45°        | 60°        |   |                                 |                  |       |              |       |       |       |       |
| 02                   | <b>6FH</b> | <b>361</b>     | <b>362</b> | <b>363</b> | <b>364</b> | ●   | 1.00                            | 2.88             | 3.53  | <b>4.08</b>  | 4.56  | 5.00  | 5.58  | 6.45  |
| 021                  | <b>6FH</b> | <b>371</b>     | <b>372</b> | <b>373</b> | <b>374</b> | ●   | 1.02                            | 3.03             | 3.71  | <b>4.28</b>  | 4.79  | 5.25  | 5.87  | 6.77  |
| 025                  | <b>6FH</b> | <b>381</b>     | <b>382</b> | <b>383</b> | <b>384</b> | ●   | 1.10                            | 3.60             | 4.42  | <b>5.10</b>  | 5.70  | 6.24  | 6.98  | 8.06  |
| 028                  | <b>6FH</b> | <b>391</b>     | <b>392</b> | <b>393</b> | <b>394</b> | ●   | 1.16                            | 4.04             | 4.94  | <b>5.71</b>  | 6.38  | 6.99  | 7.81  | 9.02  |
| 03                   | <b>6FH</b> | <b>401</b>     | <b>402</b> | <b>403</b> | <b>404</b> | ●   | 1.18                            | 4.32             | 5.29  | <b>6.11</b>  | 6.83  | 7.48  | 8.37  | 9.66  |
| 034                  | <b>6FH</b> | <b>411</b>     | <b>412</b> | <b>413</b> | <b>414</b> | ●   | 1.30                            | 4.90             | 6.00  | <b>6.93</b>  | 7.75  | 8.49  | 9.49  | 10.96 |
| 038                  | <b>6FH</b> | <b>441</b>     | <b>442</b> | <b>443</b> |            | ●   | 1.33                            | 5.48             | 6.72  | <b>7.75</b>  | 8.67  | 9.50  | 10.62 | 12.26 |
| 04                   | <b>6FH</b> | <b>451</b>     | <b>452</b> | <b>453</b> | <b>454</b> | ●   | 1.35                            | 5.77             | 7.06  | <b>8.16</b>  | 9.12  | 9.99  | 11.17 | 12.90 |
| 043                  | <b>6FH</b> | <b>461</b>     | <b>462</b> |            |            | ●   | 1.38                            | 6.20             | 7.59  | <b>8.77</b>  | 9.80  | 10.74 | 12.00 | 13.86 |
| 045                  | <b>6FH</b> | <b>471</b>     | <b>472</b> | <b>473</b> | <b>474</b> | ●   | 1.40                            | 6.49             | 7.95  | <b>9.18</b>  | 10.26 | 11.24 | 12.57 | 14.51 |
| 05                   | <b>6FH</b> | <b>481</b>     | <b>482</b> | <b>483</b> | <b>484</b> | ●   | 1.55                            | 7.21             | 8.83  | <b>10.20</b> | 11.40 | 12.49 | 13.96 | 16.12 |
| 055                  | <b>6FH</b> | <b>501</b>     | <b>502</b> | <b>503</b> | <b>504</b> | ●   | 1.60                            | 7.93             | 9.71  | <b>11.22</b> | 12.54 | 13.74 | 15.36 | 17.73 |
| 06                   | <b>6FH</b> | <b>521</b>     | <b>522</b> | <b>523</b> | <b>524</b> | ●   | 1.72                            | 8.65             | 10.60 | <b>12.24</b> | 13.68 | 14.99 | 16.75 | 19.35 |
| 065                  | <b>6FH</b> | <b>531</b>     | <b>532</b> | <b>533</b> | <b>534</b> | ●   | 1.75                            | 9.37             | 11.48 | <b>13.26</b> | 14.82 | 16.23 | 18.15 | 20.96 |

| US<br>gal/min<br>at<br>40 psi | Ordering no. |                |             |             |             |                       | Equivalent<br>bore diameter<br>A<br>[mm] | V̇ water [l/min]                |       |              |              |       |       |       |
|-------------------------------|--------------|----------------|-------------|-------------|-------------|-----------------------|--|---------------------------------|-------|--------------|--------------|-------|-------|-------|
|                               | Series       | Flow rate code |             |             |             | Mat. no.<br><b>A3</b> |  | p [bar]                         |       |              |              |       |       |       |
|                               |              | Spray angle    |             |             |             |                       |  | Stainless steel<br>303/420F/301 |       |              |              |       |       |       |
|                               |              | 20°            | 30°         | 45°         | 60°         | 40                    |  |                                 | 60    | <b>80</b>    | 100          | 120   | 150   | 200   |
| 07                            | <b>6FH</b>   | <b>541</b>     | <b>542</b>  | <b>543</b>  | <b>544</b>  | ●                     | 1.80                                     |                                 | 10.09 | 12.36        | <b>14.28</b> | 15.96 | 17.48 | 19.55 |
| 075                           | <b>6FH</b>   | <b>551</b>     | <b>552</b>  | <b>553</b>  | <b>554</b>  | ●                     | 1.90                                     | 10.81                           | 13.25 | <b>15.29</b> | 17.10        | 18.73 | 20.94 | 24.18 |
| 008                           | <b>6FH</b>   | <b>571</b>     | <b>572</b>  | <b>573</b>  | <b>574</b>  | ●                     | 2.05                                     | 11.54                           | 14.13 | <b>16.31</b> | 18.24        | 19.98 | 22.34 | 25.80 |
| 087                           | <b>6FH</b>   | <b>581</b>     | <b>582</b>  | <b>583</b>  | <b>584</b>  | ●                     | 2.06                                     | 12.54                           | 15.36 | <b>17.74</b> | 19.83        | 21.72 | 24.29 | 28.04 |
| 09                            | <b>6FH</b>   | <b>591</b>     | <b>592</b>  | <b>593</b>  | <b>594</b>  | ●                     | 2.10                                     | 12.98                           | 15.89 | <b>18.35</b> | 20.52        | 22.48 | 25.13 | 29.02 |
| 10                            | <b>6FH</b>   | <b>601</b>     | <b>602</b>  | <b>603</b>  | <b>604</b>  | ●                     | 2.30                                     | 14.41                           | 17.65 | <b>20.38</b> | 22.79        | 24.97 | 27.91 | 32.23 |
| 11                            | <b>6FH</b>   | <b>621*</b>    | <b>622*</b> | <b>623*</b> | <b>624*</b> | ●                     | 2.40                                     | 15.86                           | 19.42 | <b>22.42</b> | 25.07        | 27.46 | 30.70 | 35.45 |
| 125                           | <b>6FH</b>   | <b>641*</b>    | <b>642*</b> | <b>643*</b> | <b>644*</b> | ●                     | 2.50                                     | 18.02                           | 22.07 | <b>25.48</b> | 28.49        | 31.21 | 34.89 | 40.29 |
| 131                           | <b>6FH</b>   | <b>651*</b>    | <b>652*</b> | <b>653*</b> | <b>654*</b> | ●                     | 2.55                                     | 18.89                           | 23.13 | <b>26.71</b> | 29.86        | 32.71 | 36.57 | 42.23 |
| 139                           | <b>6FH</b>   | <b>661*</b>    | <b>662*</b> | <b>663*</b> | <b>664*</b> | ●                     | 2.65                                     | 20.04                           | 24.54 | <b>28.34</b> | 31.68        | 34.70 | 38.80 | 44.80 |
| 15                            | <b>6FH</b>   | <b>671*</b>    | <b>672*</b> | <b>673*</b> | <b>674*</b> | ●                     | 2.70                                     | 21.62                           | 26.48 | <b>30.58</b> | 34.19        | 37.45 | 41.87 | 48.35 |
| 175                           | <b>6FH</b>   | <b>701*</b>    | <b>702*</b> | <b>703*</b> | <b>704*</b> | ●                     | 3.00                                     | 25.23                           | 30.9  | <b>35.68</b> | 39.89        | 43.70 | 48.86 | 56.41 |
| 20                            | <b>6FH</b>   |                |             | <b>723*</b> | <b>724*</b> | ●                     | 3.05                                     | 28.83                           | 35.31 | <b>40.78</b> | 45.59        | 49.94 | 55.84 | 64.47 |
| 25                            | <b>6FH</b>   |                |             | <b>763*</b> | <b>764*</b> | ●                     | 3.50                                     | 36.04                           | 44.14 | <b>50.97</b> | 56.99        | 62.43 | 69.80 | 80.60 |
| 30                            | <b>6FH</b>   |                |             | <b>793*</b> |             | ●                     | 3.90                                     | 43.25                           | 52.97 | <b>61.16</b> | 68.38        | 74.91 | 83.75 | 96.70 |

\* Only available with code CC, BC or 29.

| Code      | Type of connection                   |
|-----------|--------------------------------------|
| <b>CA</b> | 1/8 BSPT                             |
| <b>BA</b> | 1/8 NPT                              |
| <b>CC</b> | 1/4 BSPT                             |
| <b>BC</b> | 1/4 NPT                              |
| <b>29</b> | Assembly with retaining nut 3/8 BSPP |

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



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

Ordering Series + Flow rate code + Material no. + Code = Ordering no.  
example: 6FH + 541 + A3 + CA = 6FH.541.A3.CA