



# Liquid fertilizer nozzles FS

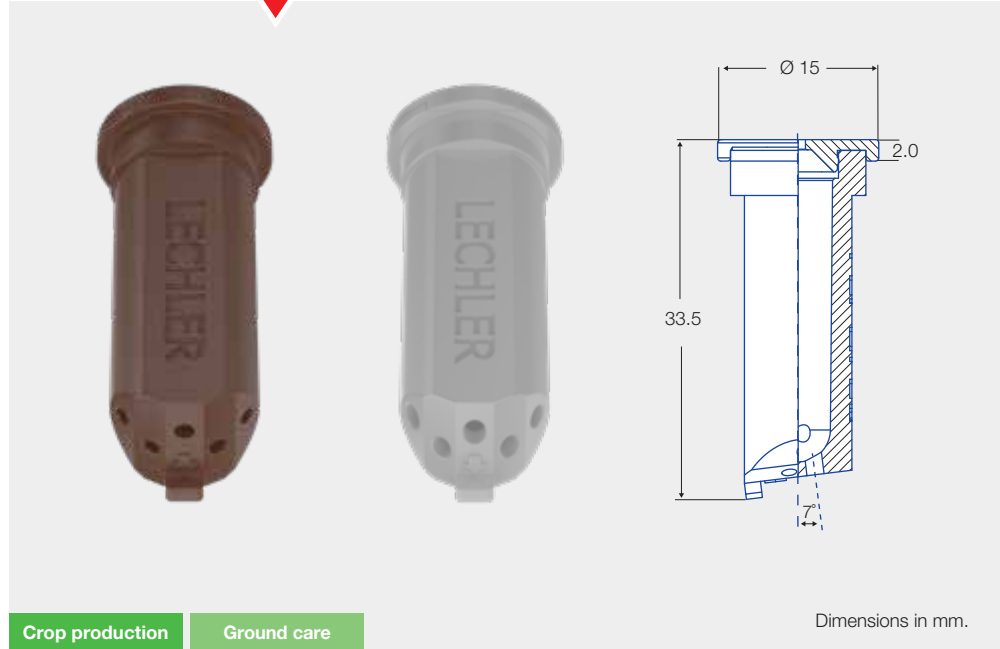
**PATENT  
PENDING**

**NEW**

Orifice nozzle with vertical spray pattern for application with all boom types.

### Advantages

- Reduced jet force and gentle application due to 7° backward inclination of spray pattern
- Patent pending on allocation of bores for better cross distribution compared to common orifice nozzles
- Nozzle sizes FS 06 – FS 15 with oval bores for gentle fertilizer jets – gentle application of big amounts
- Toolless removable dosing orifice
- Nozzle sizes ISO colour-coded



**Nozzle size**  
015 – 15



**Spray angle**  
100°



**Material**  
POM



**Pressure range**  
– FS 015 to 08:  
1 – 4 bar  
– FS 10 and 15:  
1 – 3 bar



**Recommended filters**  
25 M



**Droplet size**  
Ultra coarse



**Width across flats**  
10 mm



**Boom height**  
80 – 90 – 100 cm

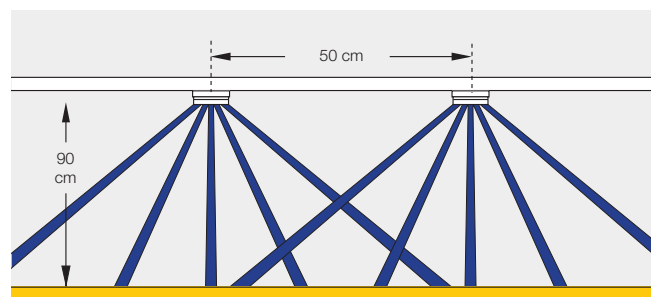
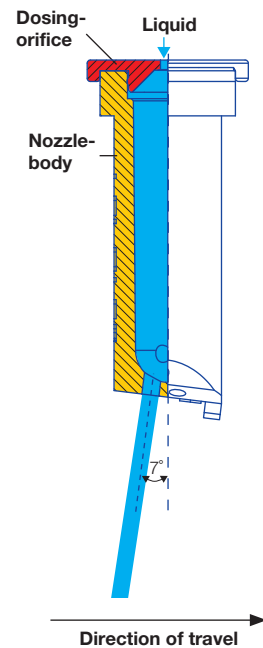
### Application area






Liquid fertilizer



Toolless removable dosing orifice



# Spray table for liquid fertilizer nozzles FS

| <br>(25 M) |  | l/min |      | UAN l/ha  0.5 m |      |      |      |      |      |      |      |
|---|---|-------|------|--|------|------|------|------|------|------|------|
|   |   | Water | UAN  | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 12.0 | 14.0 | 18.0 |
|   |   |       |      | km/h   | km/h | km/h | km/h | km/h | km/h | km/h | km/h |
| <b>FS 015</b><br>(25 M)   | 1.0   | 0.34  | 0.30 | 72   | 60   | 51   | 45   | 36   | 30   | 26   | 20   |
|   | 1.5   | 0.42  | 0.37 | 89   | 74   | 63   | 55   | 44   | 37   | 32   | 25   |
|   | 2.0   | 0.48  | 0.42 | 101  | 84   | 72   | 63   | 51   | 42   | 36   | 28   |
|   | 2.5   | 0.54  | 0.48 | 114  | 95   | 81   | 71   | 57   | 48   | 41   | 32   |
|   | 3.0   | 0.59  | 0.52 | 125  | 104  | 89   | 78   | 62   | 52   | 45   | 35   |
|   | 4.0   | 0.68  | 0.60 | 144  | 120  | 103  | 90   | 72   | 60   | 51   | 40   |
| <b>FS 02</b><br>(25 M)  | 1.0   | 0.46  | 0.40 | 97   | 81   | 69   | 61   | 49   | 40   | 35   | 27   |
|   | 1.5   | 0.57  | 0.50 | 120  | 100  | 86   | 75   | 60   | 50   | 43   | 33   |
|   | 2.0   | 0.65  | 0.57 | 137  | 114  | 98   | 86   | 69   | 57   | 49   | 38   |
|   | 2.5   | 0.73  | 0.64 | 154  | 128  | 110  | 96   | 77   | 64   | 55   | 43   |
|   | 3.0   | 0.80  | 0.70 | 169  | 141  | 121  | 106  | 84   | 70   | 60   | 47   |
|   | 4.0   | 0.92  | 0.81 | 194  | 162  | 139  | 121  | 97   | 81   | 69   | 54   |
| <b>FS 03</b><br>(25 M)  | 1.0   | 0.69  | 0.61 | 146  | 121  | 104  | 91   | 73   | 61   | 52   | 40   |
|   | 1.5   | 0.84  | 0.74 | 177  | 148  | 127  | 111  | 89   | 74   | 63   | 49   |
|   | 2.0   | 0.97  | 0.85 | 205  | 171  | 146  | 128  | 102  | 85   | 73   | 57   |
|   | 2.5   | 1.09  | 0.96 | 230  | 192  | 164  | 144  | 115  | 96   | 82   | 64   |
|   | 3.0   | 1.19  | 1.05 | 251  | 209  | 180  | 157  | 126  | 105  | 90   | 70   |
|   | 4.0   | 1.37  | 1.21 | 289  | 241  | 207  | 181  | 145  | 121  | 103  | 80   |
| <b>FS 04</b><br>(25 M)  | 1.0   | 0.91  | 0.80 | 192  | 160  | 137  | 120  | 96   | 80   | 69   | 53   |
|   | 1.5   | 1.12  | 0.99 | 237  | 197  | 169  | 148  | 118  | 99   | 84   | 66   |
|   | 2.0   | 1.29  | 1.14 | 272  | 227  | 195  | 170  | 136  | 114  | 97   | 76   |
|   | 2.5   | 1.44  | 1.27 | 304  | 253  | 217  | 190  | 152  | 127  | 109  | 84   |
|   | 3.0   | 1.58  | 1.39 | 334  | 278  | 238  | 209  | 167  | 139  | 119  | 93   |
|   | 4.0   | 1.82  | 1.60 | 384  | 320  | 275  | 240  | 192  | 160  | 137  | 107  |
| <b>FS*</b><br><b>05</b><br>(25 M)   | 1.0   | 1.14  | 1.00 | 241  | 201  | 172  | 150  | 120  | 100  | 86   | 67   |
|   | 1.5   | 1.39  | 1.22 | 294  | 245  | 210  | 183  | 147  | 122  | 105  | 82   |
|   | 2.0   | 1.61  | 1.42 | 340  | 283  | 243  | 213  | 170  | 142  | 121  | 94   |
|   | 2.5   | 1.80  | 1.58 | 380  | 317  | 272  | 238  | 190  | 158  | 136  | 106  |
|   | 3.0   | 1.97  | 1.73 | 416  | 347  | 297  | 260  | 208  | 173  | 149  | 116  |
|   | 4.0   | 2.27  | 2.00 | 479  | 400  | 342  | 300  | 240  | 200  | 171  | 133  |
| <b>FS 06</b><br>(25 M)  | 1.0   | 1.36  | 1.20 | 287  | 239  | 205  | 180  | 144  | 120  | 103  | 80   |
|   | 1.5   | 1.67  | 1.47 | 353  | 294  | 252  | 220  | 176  | 147  | 126  | 98   |
|   | 2.0   | 1.93  | 1.70 | 408  | 340  | 291  | 255  | 204  | 170  | 146  | 113  |
|   | 2.5   | 2.15  | 1.89 | 454  | 378  | 324  | 284  | 227  | 189  | 162  | 126  |
|   | 3.0   | 2.36  | 2.08 | 498  | 415  | 356  | 312  | 249  | 208  | 178  | 138  |
|   | 4.0   | 2.73  | 2.40 | 577  | 480  | 412  | 360  | 288  | 240  | 206  | 160  |
| <b>FS 08</b><br>(25 M)  | 1.0   | 1.82  | 1.60 | 384  | 320  | 275  | 240  | 192  | 160  | 137  | 107  |
|   | 1.5   | 2.23  | 1.96 | 471  | 392  | 336  | 294  | 235  | 196  | 168  | 131  |
|   | 2.0   | 2.58  | 2.27 | 545  | 454  | 389  | 341  | 272  | 227  | 195  | 151  |
|   | 2.5   | 2.88  | 2.53 | 608  | 507  | 434  | 380  | 304  | 253  | 217  | 169  |
|   | 3.0   | 3.16  | 2.78 | 667  | 556  | 477  | 417  | 334  | 278  | 238  | 185  |
|   | 4.0   | 3.65  | 3.21 | 771  | 642  | 551  | 482  | 385  | 321  | 275  | 214  |
| <b>FS 10</b><br>(25 M)  | 1.0   | 2.27  | 2.00 | 479  | 400  | 342  | 300  | 240  | 200  | 171  | 133  |
|   | 1.5   | 2.79  | 2.46 | 589  | 491  | 421  | 368  | 295  | 246  | 210  | 164  |
|   | 2.0   | 3.22  | 2.83 | 680  | 567  | 486  | 425  | 340  | 283  | 243  | 189  |
|   | 2.5   | 3.60  | 3.17 | 760  | 634  | 543  | 475  | 380  | 317  | 272  | 211  |
|   | 3.0   | 3.94  | 3.47 | 832  | 693  | 594  | 520  | 416  | 347  | 297  | 231  |
|   | <b>FS 15</b><br>(25 M)  | 1.0   | 3.41 | 3.00   | 720  | 600  | 514  | 450  | 360  | 300  | 257  |
| 1.5   |   | 4.18  | 3.68 | 883  | 736  | 631  | 552  | 441  | 368  | 315  | 245  |
| 2.0   |   | 4.83  | 4.25 | 1020   | 850  | 729  | 638  | 510  | 425  | 364  | 283  |
| 2.5   |   | 5.40  | 4.75 | 1140   | 950  | 815  | 713  | 570  | 475  | 407  | 317  |
| 3.0   |   | 5.91  | 5.20 | 1248   | 1040 | 892  | 780  | 624  | 520  | 446  | 347  |

- Spray pressure at the nozzle tip (gauged with a diaphragm valve)
- The stated litres per hectare rates apply to UAN (28/1.28 kg/l)
- Nozzle spacing 0.5 m
- Prior to each spraying season, verify the table data by gauging the flow rates
- Make sure that all nozzles have the same settings

## Online nozzle calculator



Apple



Android

### Example of ordering

Type + int'l nozzle size + material = ordering no.  
 FS 04 (POM) = FS 04