Nozzle spacing

If the nozzle spacing on your boom is different than those tabulated, multiply the tabulated l/ha by one of the following factors.

50 cm	
Other spacing (cm)	Conversion factor
20	2,50
25	2,00
30	1,67
35	1,43
40	1,25
45	1,11
60	0,83
70	0,71
75	0,66

75 cm	
Other spacing (cm)	Conversion factor
40	1,88
45	1,67
50	1,50
60	1,25
70	1,07
80	0,94
90	0,83
110	0,68
120	0,63

100 cm	
Other spacing (cm)	Conversion factor
70	1,43
75	1,33
80	1,25
85	1,18
90	1,11
95	1,05
105	0,95
110	0,92
120	0,83

$$\text{Conversion factor} = \frac{\text{Tabulated nozzle spacing (cm)}}{\text{Your nozzle spacing}}$$

Spraying liquids with a density other than water

Since all the tabulations are based on spraying water, which weighs 1 kilogram per liter, conversion factors must be used when spraying liquids that are heavier or lighter than water. To determine the proper size nozzle for liquid to be sprayed, first multiply the desired l/min or l/ha of spray liquid by the water rate conversion factor. Then use the new converted l/min rate to select the proper size nozzle.

Density- kg/l	Conversion factor
0,84	0,92
0,96	0,98
1,00-water	1,00
1,08	1,04
1,20	1,10
1,28	1,13
1,32	1,15
1,44	1,20
1,68	1,30

Example:

Desired application rate is 100 l/ha of a liquid that has a density of 1,28 kg/L.

Determine the correct nozzle size as follows:

l/ha (liquid other than water) x Conversion factor

100 l/ha (1,28 kg/L solution) x 1,13 = 113 l/ha (water)

The applicater should choose a nozzle size that will supply 113 l/ha of water at the desired pressure.