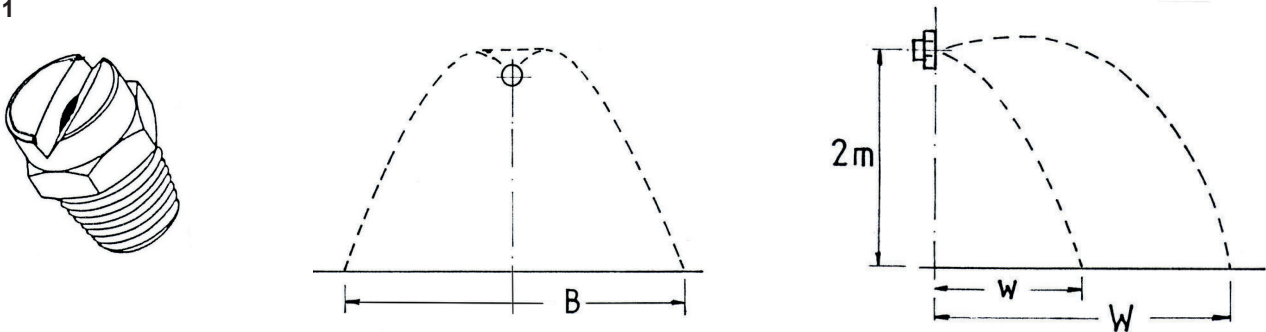


1. Horizontal spray direction of flat fan nozzles type F

Nozzle type Spray angle	1/4" F 15 60°			1/4" F 15 120°			1/4" F 40 30°			1/4" F 40 60°		
	1	2	3	1	2	3	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3	1	2	3	1	2	3
Width W (m)	4.0	4.9	5.2	3.9	4.8	5.1	5.8	7.5	8.3	5.5	6.5	7.0
Width w (m)	0.9	1.3	1.0	0.8	1.3	0.9	2.0	2.5	3.0	0.9	1.6	2.0
Broadness B (m)	4.0	4.3	4.4	5.2	6.0	6.5	2.4	3.0	3.5	4.3	4.8	5.0
Flow rate \dot{V} (l/min.)	3.4	4.8	5.9	3.4	4.8	5.9	9.1	12.9	15.8	9.1	12.9	15.8

Nozzle type Spray angle	3/8" F 40 120°			3/8" F 40 60°			1/2" F 40 90°			1/2" F 40 120°		
	1	2	3	1	2	3	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3	1	2	3	1	2	3
Width W (m)	4.5	5.4	6.0	6.2	7.4	7.9	6.0	6.7	7.2	5.6	6.5	7.3
Width w (m)	0.8	1.3	1.8	1.2	1.6	2.5	1.0	1.5	1.9	0.8	1.4	1.8
Broadness B (m)	6.0	6.8	8	4.2	5.1	5.5	6.0	6.8	7.6	6.3	7.7	8.1
Flow rate \dot{V} (l/min.)	9.1	12.9	15.8	9.1	12.9	15.8	9.1	12.9	15.8	9.1	12.9	15.8

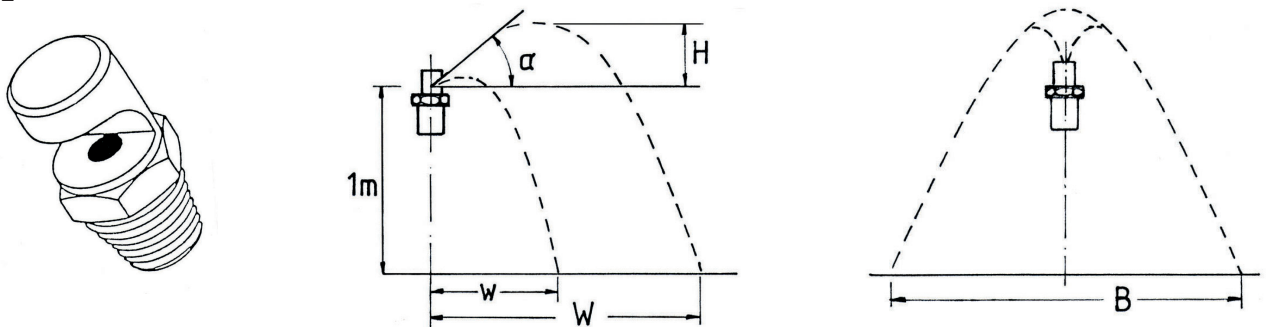
Illu. 1



2. Horizontal spray direction of tongue-shaped nozzles type Z

Nozzle type Spray angle	3/8" Z 18 160°			3/8" Z 18 150°			1/2" Z 40 110°		
	1	2	3	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3	1	2	3
Width W (m)	2.6	3.3	3.5	3.0	4.0	4.7	2.5	3.5	4.0
Width w (m)	0.6	1.0	1.1	0.7	1.1	1.2	0.2	0.3	0.4
Broadness B (m)	7.0	7.7	8.5	6.0	7.5	8.0	5.0	6.0	6.4
Height H (m)	0.0	0.0	0.0	1.4	1.5	1.7	3.1	3.5	4.0
Angle α		0°			45°			70°	
Flow rate \dot{V} (l/min.)	8.0	11	14	8.0	11	14	18	26	30

Illu. 2



Spray Width of Nozzles

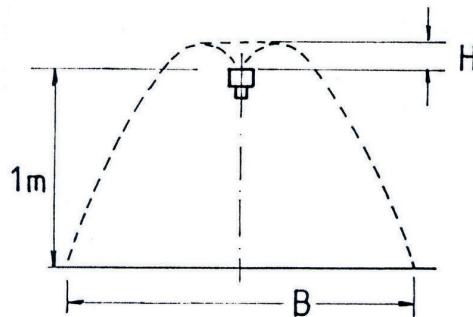
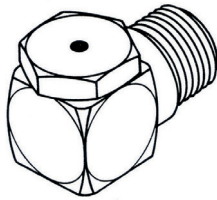
MC

3. Spray direction vertically upright of eccentric hollow cone nozzles type EH

Nozzle type Spray angle	3/8" HE 8 90°			3/8" HE 15 140°			3/8" HE 27 140°			3/4" HE 70 90°			1" HE 120 90°		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Diameter B (m)	5.0	6.0	5.5	6.0	7.0	7.4	6.8	8.0	9.0	6.5	7.4	7.8	7.0	7.8	8.2
Height H (m)	1.0	1.4	1.4	0.4	0.5	0.6	0.4	0.5	0.6	0.8	1.0	1.8	1.3	2.0	2.8
Flow rate \dot{V} (l/min.)	3.5	5.0	6.0	7.0	10	11.5	13	18	21	32	45.5	53	55.5	79	90

Nozzle type Spray angle	1 1/2" HGI 16 90°			1 1/2" HGI 25 90°			2" HGI 35 90°		
	1	2	3	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3	1	2	3
Diameter B (m)	7.0	8.0	8.4	9.0	9.8	10	10	11	12
Height H (m)	2.5	3.0	3.5	2.6	3.2	4.0	3.4	4.2	5.0
Flow rate \dot{V} (l/min.)	87.2	123	151	136	193	236	191	267	330

Illu. 3



4. Spray direction vertically upright of hollow cone nozzles type H and full cone nozzles type V and VX

Düsentype Spray angle	1/2" V 17 90°			3/4" V 21 90°		
	1	2	3	1	2	3
Pressure p (bar)	1	2	3	1	2	3
Diameter B (m)	5,0	7,7	8,2	7,0	8,0	8,9
Height H (m)	1,2	1,9	2,5	1,8	2,9	3,4
Flow rate \dot{V} (l/min.)	13,8	19	23,5	23	36	46

Illu. 4

