MC | Binary Nozzle Z-FAA

External-mixing, variable and automatically adjustable flat fan spray angle as pressure or suction system

Characteristics

MC produces variable binary coating nozzles with stepless adjustable spray angle.
The flow can be automatically steplessly adjusted from a 10° round spray to a 90° flat fan by increasing the flat fan flow.
Atomizing air or gas fogs the liquid which is, depending in its viscosity, either sucked in or taken in with the help of the nozzle's pressure.
Droplet size decreases when the pressure of the atomizing medium increases.
Droplet size 50-150 µm if pressure is > 0,3 bar.

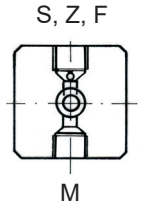
Application

Coatings
Moistening

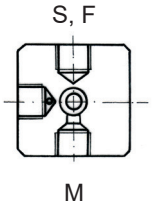
Material

Brass
Stainless steel
Special materials on request

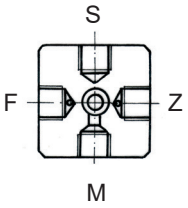
Connection possibilities:



Variant 1
Standard design, all air functions are combined



Variant 2
Control air is separate, short clock cycles can take place more effectively

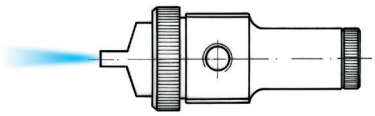


Variant 3
Most versatile design; all functions are controlled separately, A full flow of 10° can be steplessly regulated to a 90° flat fan by adjusting the flat fan flow

S = Control air
Z = Atomizing air
F = Flat fan flow
M = Medium inlet

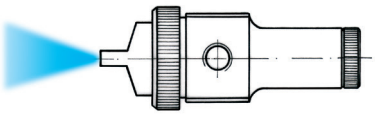
Automatically adjustable flat fan:

Illu. 1



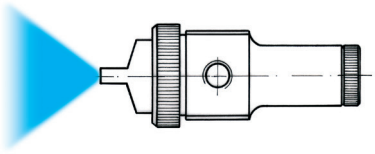
Round spray 10°

Illu. 2



Flat fan 30°

Illu. 3

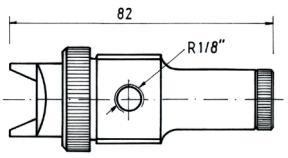


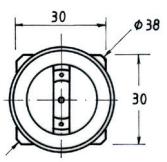
Flat fan 90°

Type with bore-Ø (mm)	Flow rate V̇ (l/h) at water pressure (bar) and pressure of atomizing medium at 0.7 bar				
	0.15 bar	0.20 bar	0.30 bar	0.35 bar	1.0 bar
Z-FVA 0.8	5	7	8	9	15
Z-FVA 1.0	8	11	12	14	26
Z-FVA 1.2	12	16	18	21	40
Z-FVA 1.4	17	22	25	29	54
Z-FVA 1.6	22	28	32	37	72
Z-FVA 1.8	27	35	40	46	91
Z-FVA 2.0	34	44	49	57	112
Z-FVA 2.3	45	59	65	76	148
Z-FVA 2.5	53	69	77	89	175

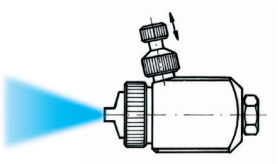
Atomizing air consumption in Nm^3/h at adjustable angles of						
Atomiz. air press. bar	10° (= round)	30°	45°	60°	90°	max.
0.3	1.3	1.8	2.2	2.6	3.0	3.5
0.5	1.7	2.5	3.0	3.6	4.2	5.6
0.7	2.1	3.1	3.7	4.4	5.2	6.9
1.0	2.7	4.1	4.7	5.5	8.5	7.2
1.5	3.4	5.2	5.9	6.9	8.1	9.0
2.0	4.0	6.2	7.0	8.3	9.8	10.8

Dimensions:





Alternative:



Type **Z-FVA** with manually adjustable flat fan
A closed adjusting screw results in a 10° round spray; a fully opened adjusting screw produces a 90° flat fan.

Please request further information!