

Round spray air nozzles with external-mixing pressure system

Characteristics

Uniform full cone caused by the rotation of the air/gas flow at a large spray angle.
 Spray angle varies with air pressure and flow size .
 Large pass diameters mostly prevent clogging.

Connections:

Connection 1/8"
 Connection 1/4"
 For functional description see page 10.1 - 10.2
 Control and adjustment see page 10.3 - 10.4

Pressure system:

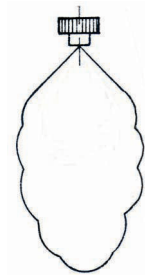
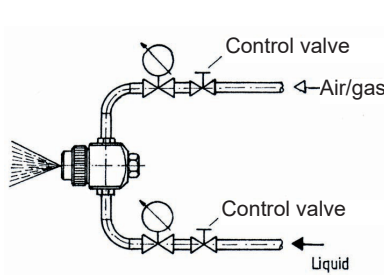
Liquid is guided into the nozzle by means of pressure. When liquid and compressed air or gas mix inside of the nozzle, the result is fine atomization.

Application

Vaccinations, Drying,
 Spray lubrication,
 Spray-drying,
 Cooling and quenching,
 Gas treatment, Coating,
 Granulation, Pelleting.

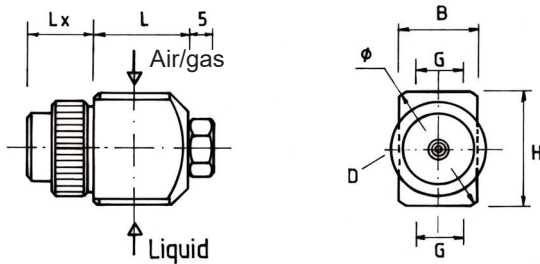
Material

Brass
 Stainless steel
 Other materials on request



Full cone
 spray angle 30°-90°
 varies with conditions

Dimensions:

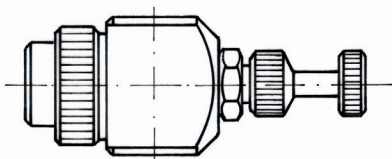


Dimensions in mm

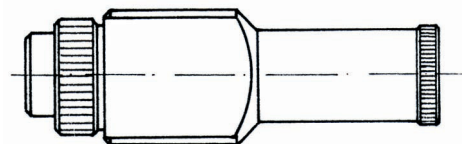
Type	G	L	L1	H	W	Ø	Lx	D
Z 30-N	1/8"	25	45	30	20	34	24	24
Z 35-N	1/4"	25	45	35	25	42	24	24

Control example

(for other examples see page 10.3 and 10.4):

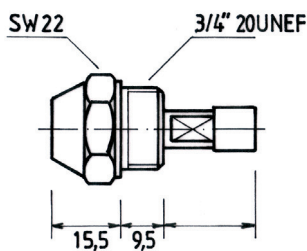


Type B manual control
 with regulation and shut-off needle



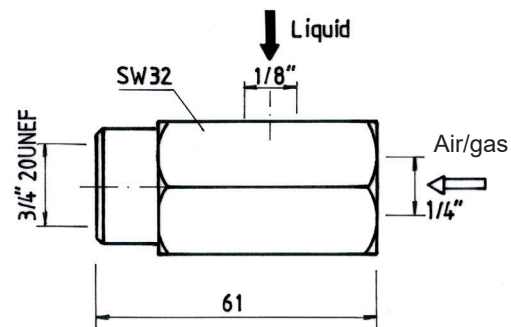
Type D5 pneumatic control
 with regulation and shut-off needle

Alternative for oil burners and moistening:



Type **G-N**: technical data corresponds to type **Z-N**, design differs, to be screwed into adapter

Materials:



Adapter **G-N** + nozzle in brass design, swirler + drilling plate made from stainless steel

For additional accessories and other connection variants see page 10.3 - 10.4!

Binary Nozzle Z-N

MC

Order example: (thread connection - type - size - material) 1/8" Z-N - 1 - 1.4404

Output water (l/h) - Air required (Nm³/min.)

Nozzle type	Water flow l/h	Air flow and spray angle (°)									
		1.4 bar		2.1 bar		2.8 bar		3.4 bar		4.1 bar	
		Nm ³ /min.	(°)	Nm ³ /min.	(°)	Nm ³ /min.	(°)	Nm ³ /min.	(°)	Nm ³ /min.	(°)
Z-N 1	18.90	0.48	45	0.068	35	0.088	30				
	37.80	0.20	75	0.025	65	0.059	60				
	56.70	0.10	80	0.020	75	0.023	70				
Z-N 2	37.80	0.65	50	0.012	40	0.133	30				
	56.70	0.48	60	0.082	50	0.110	40				
	75.60	0.34	70	0.059	60	0.088	50				
	94.50	0.20	80	0.048	70	0.068	60				
	113.40	0.11	90	0.028	80	0.048	70				
Z-N 3	113.40			0.076	65	0.110	55	0.139	45		
	132.30			0.062	65	0.093	55	0.119	45		
	151.20			0.051	70	0.079	60	0.105	50		
	170.10			0.040	70	0.065	60	0.088	50		
	189.00			0.028	75	0.054	65	0.076	55		
	207.90			0.022	75	0.042	65	0.065	55		
Z-N 4	226.80			0.014	80	0.034	70	0.057	60		
	226.80			0.150	60	0.218	50	0.283	40		
	245.70			0.139	60	0.204	50	0.269	40		
	264.60			0.125	65	0.193	55	0.252	45		
	283.50			0.113	65	0.178	55	0.238	45		
	302.40			0.105	65	0.164	55	0.221	45		
	321.30			0.093	65	0.147	55	0.201	45		
Z-N 5	340.20			0.085	70	0.130	60	0.173	50		
	340.20			0.150	55	0.221	45	0.292	35		
	359.10			0.139	60	0.204	50	0.269	40		
	378.00			0.130	60	0.187	50	0.252	40		
	396.90			0.119	65	0.173	55	0.235	45		
	415.80			0.108	65	0.161	55	0.221	45		
Z-N 6	434.70			0.099	70	0.153	60	0.212	50	0.371	35
	434.70					0.229	45	0.297	40	0.365	40
	453.60					0.218	50	0.292	45	0.357	40
	472.50					0.207	50	0.283	6	0.346	45
	491.40					0.198	55	0.272	50	0.334	45
	510.30					0.187	55	0.261	50	0.306	50
	529.30					0.176	60	0.241	55	0.317	45
Z-N 7	529.20					0.181	55	0.249	50	0.309	50
	548.10					0.173	60	0.241	55	0.297	50
	567.00					0.161	60	0.229	55	0.280	55
	585.90					0.147	65	0.215	60	0.255	55
	604.80					0.133	65	0.195	60		