

Air & Steam Flat Spray Nozzles

VZ

Flat Spray



[Note] Water is sprayed here to better show the spray pattern.



[Spray pattern]

- Produces a flat spray pattern of air or steam.
- Air flow volume can be adjusted by changing the nozzle tip.
- An effective spray angle cannot be maintained long, as air and steam disperse very quickly.

[STANDARD PRESSURE]

0.3 MPa

[APPLICATIONS]

Compressed air: Cleaning, dust suppression, drying, air curtain
Steam: Humidification, temperature control, moisture control

Structure	• Three-piece structure including a nozzle tip, cap, and adaptor. • Worn-out nozzle tips can be replaced separately. • The cap and adaptor are interchangeable with those of three-piece structure standard flat spray nozzles for liquids.
Material	• S303 SPECIAL ORDER MATERIAL: S316

[Complete Assembly]

Pipe conn. size	Dimensions (mm)					Weight (g)
	L1	H1	H2	N	a	
R1/4	43	19	17	10.5	6.5	44
R3/8	48.5	23	21	11	9.5	73

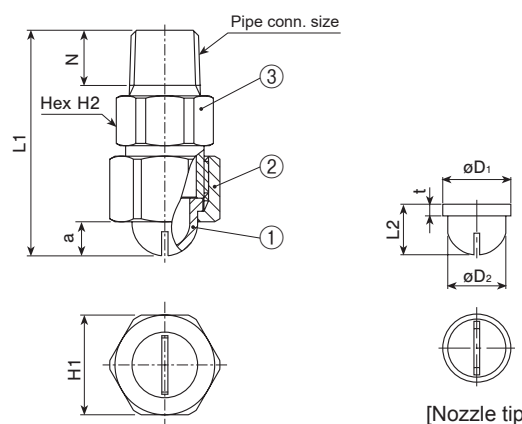
[Nozzle Tip]

Pipe conn. size ¹⁾	Dimensions (mm)				Weight (g)
	L2	øD1	øD2	t	
R1/4	11	14.5	12.5	2.5	4.7
R3/8	14	18	16	2.5	7.7

*1) Pipe connection size of the complete assembly

[Note] Appearance and dimensions may differ slightly depending on material and nozzle code.

DRAWING



① Nozzle tip ② Cap ③ Adaptor

Air capacity code	Pipe conn. size		Air capacity (L/min, Normal)							Steam capacity (kg/hr)					Free passage diameter (mm)
	R1/4	R3/8	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	
150	○		55.7	77.6	116	154	230	307	2.62	3.56	5.27	6.97	10.3	13.7	0.2
200	○		73.1	102	152	202	302	402	3.44	4.67	6.92	9.14	13.6	17.9	0.4
250	○		90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.5
300	○		108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.6
350	○		125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.7
400	○		143	199	297	394	590	786	6.72	9.12	13.5	17.9	26.5	35.0	0.8
450	○		160	223	333	443	662	882	7.54	10.2	15.2	20.0	29.7	39.3	0.9
500	○		178	248	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	1.1
550		○	199	278	414	551	823	1,096	9.38	12.7	18.8	24.9	36.9	48.8	0.9
600		○	219	305	455	605	905	1,205	10.3	14.0	20.7	27.4	40.6	53.7	1.0
650		○	235	328	489	650	972	1,295	11.1	15.0	22.3	29.4	43.6	57.7	1.1
700		○	253	353	526	700	1,047	1,394	11.9	16.2	24.0	31.7	46.9	62.1	1.1
750		○	272	380	566	753	1,126	1,500	12.8	17.4	25.8	34.1	50.5	66.8	1.2
900		○	326	454	677	901	1,347	1,794	15.3	20.8	30.8	40.7	60.4	79.9	1.5
1130		○	406	566	844	1,122	1,678	2,235	19.1	25.9	38.4	50.8	75.2	99.5	1.9

[Note] The above air and steam capacity are for reference only and are not guaranteed.

HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.

① Complete Assembly

Example: 1/4M VZ 150 S303

1/4M	VZ	150	S303
Pipe conn. size ²⁾		Air capacity code	Material
1/4M		150	
3/8M		1130	

② Nozzle Tip Only

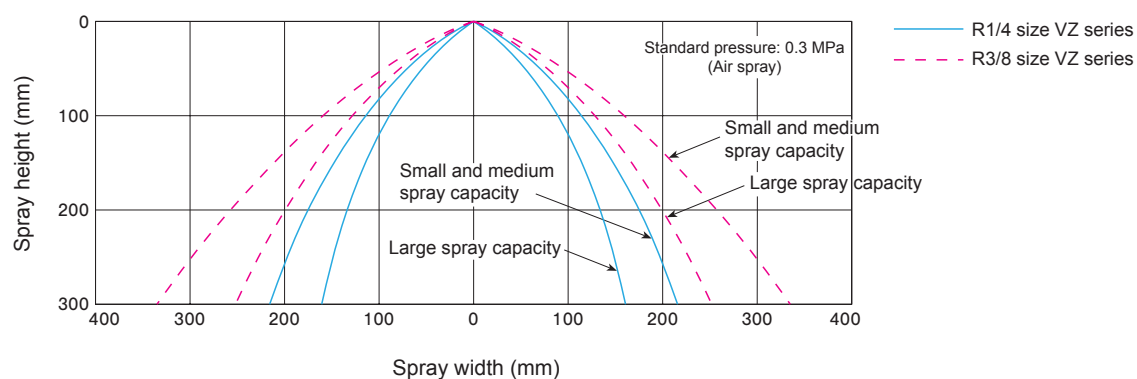
Example: 1/4 VZ 150 S303

1/4	VZ	150	S303
Pipe conn. size ¹⁾		Air capacity code	Material
1/4		150	
3/8		1130	

*2) "M" indicates male thread ("R" of the ISO standard), e.g. 1/4M = R1/4.

Spray Height and Width of VZ Series Air & Steam Flat Spray Nozzles

The graph below shows the spray width at various spray heights.



Shown below is the wind velocity at various spray heights.

