

Air & Steam Spray Flat Spray Nozzles

VZ



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



[Spray pattern]

[Features]

- Produces a flat spray pattern of air or steam.
- Effective spray angle does not hold 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

Flat Spray

VZ series

VZ series (three-piece structure)	
Structure	<ul style="list-style-type: none"> • Comprises three parts: Nozzle tip, cap, and adaptor. • Worn-out nozzle tip can be replaced separately. • Cap and adaptor are exchangeable with those of three-piece structure standard flat spray nozzles for liquids.
Material	<ul style="list-style-type: none"> • S303 or B (brass) • Optional material: S316

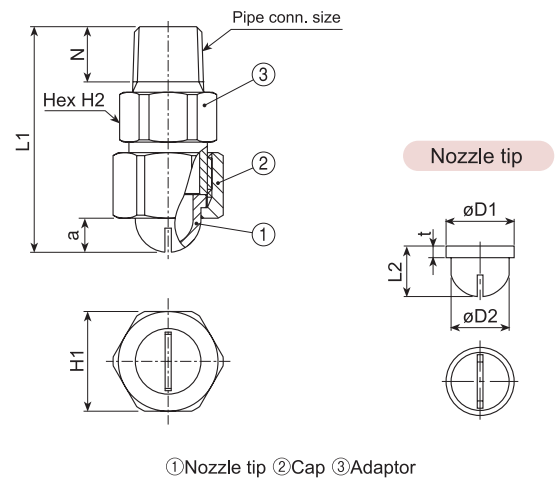
[Complete assemblies]

Pipe conn. size	Dimensions (mm)					Mass (g)	
	L1	H1	H2	N	a	S303	B
R1/4	43	19	17	10.5	6.5	44	47
R3/8	48.5	23	21	11	9.5	73	78

[Nozzle tip]

Pipe conn. size ¹⁾	Dimensions (mm)				Mass (g)	
	L2	øD1	øD2	t	S303	B
R1/4	11	14.5	12.5	2.5	4.7	5.0
R3/8	14	18	16	2.5	7.7	8.1

*1) Pipe connection size of the complete assemblies



[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

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	0.3
250	○		90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.4
300	○		108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.5
350	○		125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.6
400	○		143	199	297	394	590	786	6.72	9.12	13.5	17.9	26.5	35.0	0.7
450	○		160	223	333	443	662	882	7.54	10.2	15.2	20.0	29.7	39.3	0.8
500	○		177	247	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	0.9
550		○	199	278	414	551	823	1,096	9.38	12.7	18.8	24.9	36.9	48.8	0.6
600		○	219	305	455	605	905	1,205	10.3	14.0	20.7	27.4	40.6	53.7	0.7
650		○	235	328	489	650	972	1,295	11.1	15.0	22.3	29.4	43.6	57.7	0.8
700		○	253	353	526	700	1,047	1,394	11.9	16.2	24.0	31.7	46.9	62.1	0.8
750		○	272	380	566	753	1,126	1,500	12.8	17.4	25.8	34.1	50.5	66.8	0.9
900		○	326	454	677	901	1,347	1,794	15.3	20.8	30.8	40.7	60.4	79.9	1.1
1130		○	406	566	844	1,122	1,678	2,235	19.1	25.9	38.4	50.8	75.2	99.5	1.4

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

How to order

Please inquire or order for a specific nozzle using this coding system.

① Complete assemblies

〈Example〉 1/4M VZ 150 S303

1/4M VZ 150 S303

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

② Nozzle tip only

〈Example〉 1/4 VZ 150 S303

1/4 VZ 150 S303

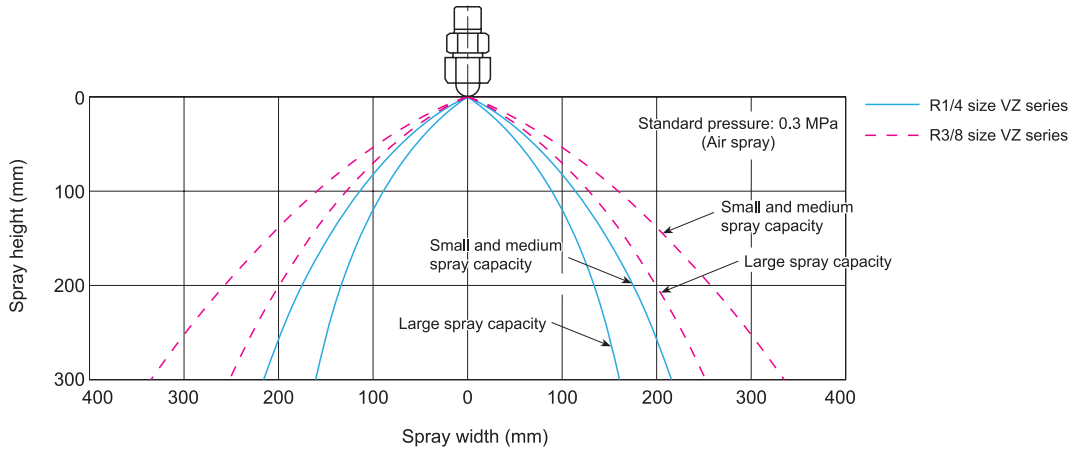
Pipe conn. size ¹⁾	Air capacity code	Material
1/4	150	S303
3/8	}	B
	1130	

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

Effective Use of Air & Steam Spray Nozzles

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

The spray width at various spray heights is shown below.



Shown below is the wind velocity at various spray heights.

