

# Air & Steam Spray Flat Spray Nozzles

VZ



[Note] Water is sprayed here to better show the 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]**

0.3MPa

**[Applications]**

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

**VZ-series**

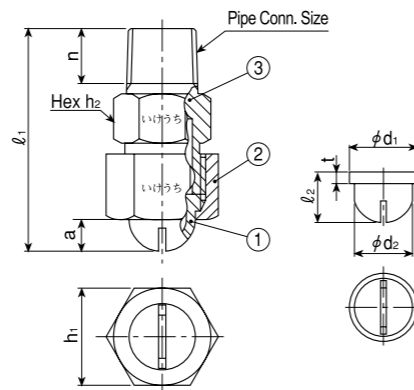
VZ-series (3-piece structure)	
Structure	<ul style="list-style-type: none"> <li>• Made of metal, 3-piece structure.</li> <li>• Comprises three parts : Spray tip, cap and adaptor.</li> <li>• Worn-out spray tip can be replaced separately.</li> <li>• Cap and adaptor are exchangeable with those of 3-piece structure standard flat spray nozzles for liquids.</li> </ul>
Material	<ul style="list-style-type: none"> <li>• B (brass) or S303 (stainless steel 303)</li> <li>• Optional material : S316</li> </ul>

**[Complete nozzle]**

Series	Pipe Conn. Size	Dimensions(mm)					Mass(g)	
		ℓ <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	a	n	B	S303
VZ	1/4M	43	19	17	6.5	10.5	47	44
	3/8M	48.5	23	21	9.5	11	78	73

**[Spray tip]**

Series	Pipe Conn. Size of Complete Nozzle	Dimensions(mm)				Mass(g)	
		ℓ <sub>2</sub>	φd <sub>1</sub>	φd <sub>2</sub>	t	B	S303
VZ	1/4M	11	14.5	12.5	2.5	5.0	4.7
	3/8M	14	18	16	2.5	8.1	7.7



① Spray Tip ② Cap ③ Adaptor

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

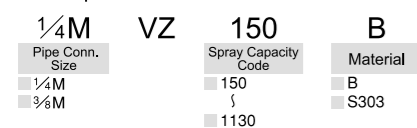
Spray Angle Code	Spray Capacity Code	Pipe Conn. Size		Air Capacity (ℓ/min, Normal)						Steam Capacity (kg/hr)						Free Pass. Dia. (mm)
		1/4M	3/8M	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	
90°	150	○		55.7	77.6	116	154	230	307	2.62	3.56	5.27	6.97	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	1096	9.38	12.7	18.8	24.9	36.9	48.8	0.6
	600		○	219	305	455	605	905	1205	10.3	14.0	20.7	27.4	40.6	53.7	0.7
	650		○	235	328	489	650	972	1295	11.1	15.0	22.3	29.4	43.6	57.7	0.8
	700		○	253	353	526	700	1047	1394	11.9	16.2	24.0	31.7	46.9	62.1	0.8
	750		○	272	380	566	753	1126	1500	12.8	17.4	25.8	34.1	50.5	66.8	0.9
900		○	326	454	677	901	1347	1794	15.3	20.8	30.8	40.7	60.4	79.9	1.1	
1130		○	406	566	844	1122	1678	2235	19.1	25.9	38.4	50.8	75.2	99.5	1.4	

**How to order**

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

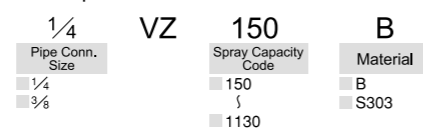
① Complete nozzle

<Example>...1/4MVZ150B



② Spray tip only

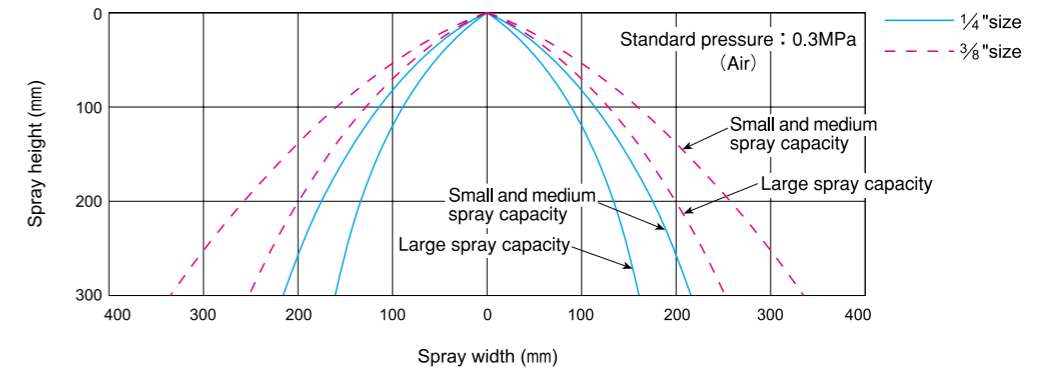
<Example>...1/4VZ150B



# For Effective Use of Air & Steam Spray Nozzles

**VZ Air & Steam Flat Spray Nozzles / Spray Height and Spray Width**

The spray coverage at various spray heights is shown as follows.



The wind velocity at various spray heights is shown as follows.

