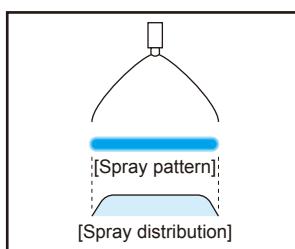
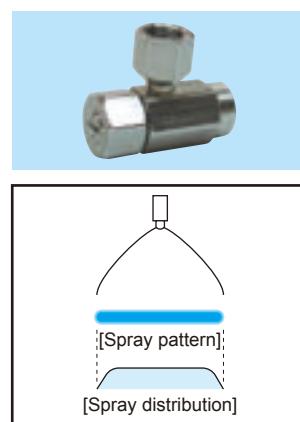


High Impact Flat Spray Semi-Fine, Semi-Coarse Fog Nozzles

VVEA



■ Flat spray pneumatic nozzle producing semi-fine (and semi-coarse) atomization with a mean droplet diameter of 50 µm or more.*1

■ High spray impact with thin flat spray pattern and uniform distribution.

■ Large turn-down ratio with minimal variation in spray angle.

■ Compact design.

*1) Droplet diameter measured by laser Doppler method

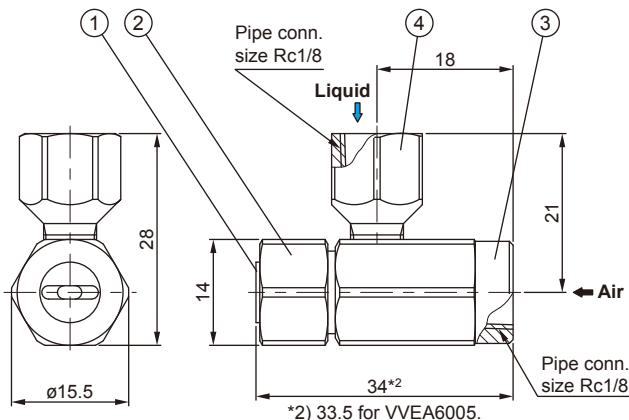
APPLICATIONS

■ Cleaning: Printed circuit boards, liquid crystal, steel plates

DRAWING

Spray angle 60° type

■ Weight: 40 g



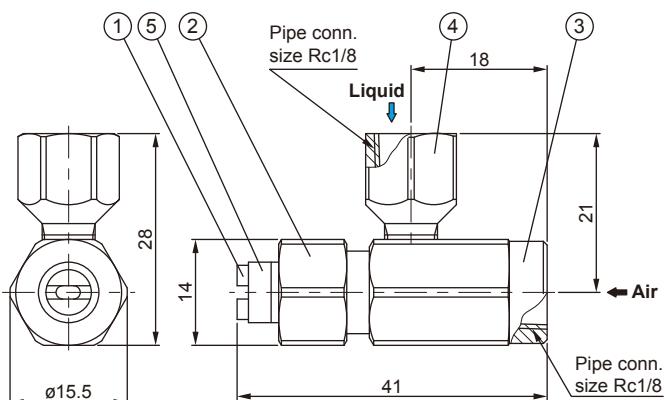
COMPONENTS AND MATERIALS

No.	Components	Standard materials*3
1	Nozzle tip	S303
2	Cap	S303
3	Mixing adaptor	S303
4	Liquid socket	S303

*3) Optional material: S316

Spray angle 80° type

■ Weight: 44 g



COMPONENTS AND MATERIALS

No.	Components	Standard materials*3
1	Nozzle tip	S303
2	Cap	S303
3	Mixing adaptor	S303
4	Liquid socket	S303
5	Sleeve	S303

Note: No sleeve (component #5) for VVEA8005.

Unit: mm

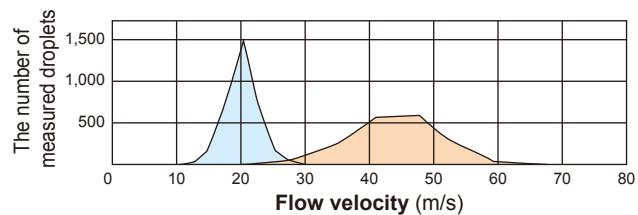
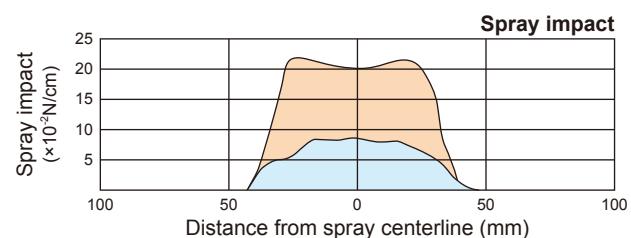
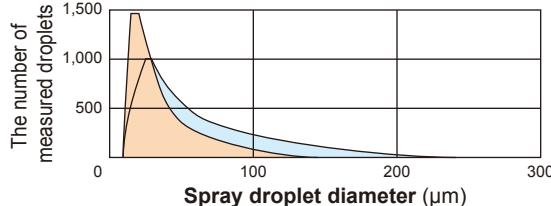
SPRAY IMPACT

In comparison to a hydraulic spray nozzle with equal spray capacity at the same pressure, VVEA series nozzles achieve a more powerful spray impact (2.5 times higher) with fine droplets (at twice the speed).

- Air pressure: 0.3 MPa ■ Air consumption: 59 L/min, Normal
- Liquid pressure: 0.3 MPa ■ Spray capacity: 1.1 L/min
- Spray height: 50 mm

(Air pressure and air consumption apply only to VVEA)

● = VVEA6020 (pneumatic nozzle) ○ = VVP6510 (hydraulic nozzle)



PERFORMANCE DATA

Spray angle code* ⁴	Spray capacity code	Air pressure (MPa)	Spray capacity (L/min) & Air consumption (L/min, Normal)						Mean droplet diameter (μm)	Free passage diameter (mm)		
			Liquid pressure (MPa)									
			0.2		0.3		0.5			Laser Doppler method	Tip orifice	Adaptor
80	05	0.2	0.31	17	0.45	14	—	—	20–250	0.8	0.7	0.9
		0.3	0.23	24	0.36	22	0.58	18				
		0.4	—	—	0.29	29	0.50	25				
		0.5	—	—	—	—	0.43	33				
	10	0.2	0.54	36	0.90	24	—	—	20–250	1.0	1.1	1.3
		0.3	0.30	58	0.60	49	1.28	25				
		0.4	—	—	0.39	74	1.00	50				
		0.5	—	—	—	—	0.81	69				
	20	0.2	0.96	44	1.98	18	—	—	30–300	1.1	1.6	1.6
		0.3	0.53	81	1.10	59	2.63	19				
		0.4	—	—	0.53	104	2.00	50				
		0.5	—	—	—	—	1.30	89				
60	30	0.2	1.34	50	—	—	—	—	40–400	1.3	1.9	1.9
		0.3	0.63	100	1.60	64	—	—				
		0.4	—	—	0.88	128	3.00	50				
		0.5	—	—	—	—	2.25	85				
	05	0.2	0.31	17	0.45	14	—	—	20–250	1.0	0.8	0.9
		0.3	0.23	24	0.36	22	0.58	18				
		0.4	—	—	0.29	29	0.50	25				
		0.5	—	—	—	—	0.43	33				
	10	0.2	0.54	36	0.90	24	—	—	20–250	1.4	1.1	1.3
		0.3	0.30	58	0.60	49	1.28	25				
		0.4	—	—	0.39	74	1.00	50				
		0.5	—	—	—	—	0.81	69				
	20	0.2	0.96	44	1.98	18	—	—	30–300	1.5	1.6	1.6
		0.3	0.53	81	1.10	59	2.63	19				
		0.4	—	—	0.53	104	2.00	50				
		0.5	—	—	—	—	1.30	89				
	30	0.2	1.34	50	—	—	—	—	40–400	1.6	1.9	1.9
		0.3	0.63	100	1.60	64	—	—				
		0.4	—	—	0.88	128	3.00	50				
		0.5	—	—	—	—	2.25	85				

*4) Spray angle measured at compressed air pressure of 0.4 MPa and liquid pressure of 0.5 MPa.

HOW TO ORDER

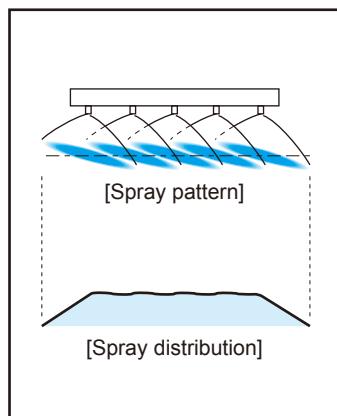
To inquire about or order a specific product please refer to this coding system.

<Example> 1/8 VVEA 6010 S303

1/8	VVEA	60	10	S303
		Spray angle code	Spray capacity code	Material
		■80 ■60	■05 ■10 ■20 ■30	

Integrated Spray Header with VVEA series nozzles

VVEA Header



- Spray header equipped with VVEA series nozzles producing semi-fine (and semi-coarse) atomization with a mean droplet diameter of 50 μm or more.*¹
- Combines two pipes for air and liquid into one rectangular spray header. Compact and easy to install and maintain.
- Uniform spray distribution across the entire spray area.

APPLICATIONS

- Cleaning: Liquid crystal glass substrate, printed circuit boards, steel plates

VVEA