

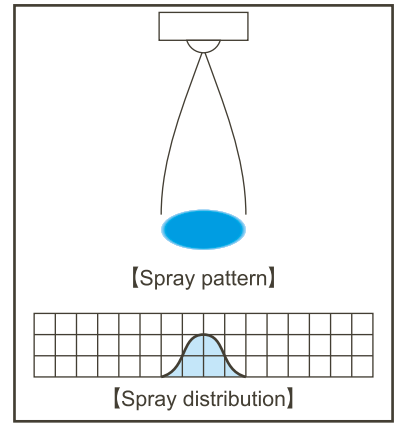
Clog-resistant Full Cone Spray Fine Fog Nozzles

SETOJet

Features

- Full cone spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 60 μm or less.*1
- Clog-resistant design: Liquid passage is straight without curve, and circular in cross-section.
- External mixing type (designed to mix air and liquid outside the nozzle).

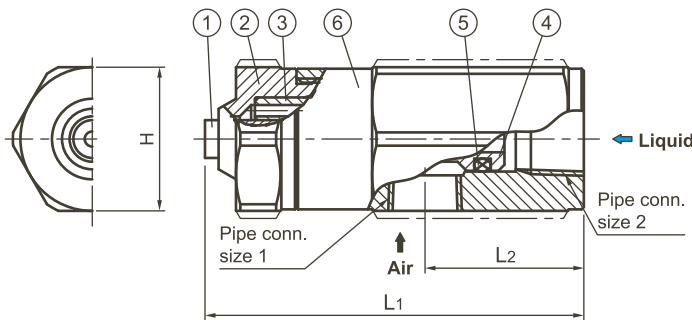
*1) Droplet diameter measured by laser Doppler method



Applications

- Spraying: Oil, lubricant, mold release agent, honey, aqueous urea, rust preventive, glaze, viscous liquid, slurry

Structure & Materials



Components and materials

No.	Components	Standard materials*2
①	Nozzle tip	S303
②	Nozzle body	S303
③	Air balancer	S303
④	Stem	S303
⑤	O-ring	FKM
⑥	Adaptor	S303

Note: Components ① and ③ are combined for SETO04— and SETO075—.

*2) Optional material: S316L

Dimensions & Pipe Connection Sizes

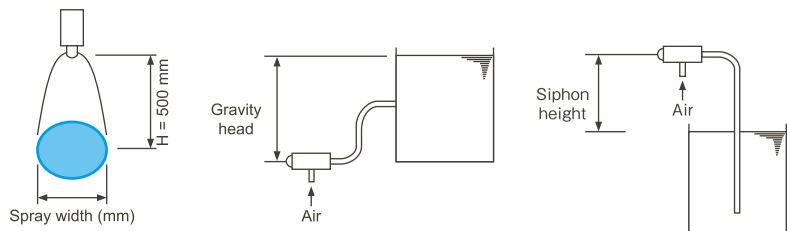
Dimensions

Air consumption code	Spray capacity code	Pipe connection size		L1 (mm)	L2 (mm)	H (mm)	Mass (g)
		1 (Air)	2 (Liquid)				
04	05	Rc1/8	Rc1/8	49.5	21	19	85
	07			49.5			
	10			49.5			
075	07			49.5			
	10			49.5			
15	10			50.0			
	20	50.0					
	22	50.0					

Air consumption code	Spray capacity code	Air pressure (MPa)	Air consumption (ℓ/min, Normal)	Spray capacity (ℓ/hr)		Spray width*4 (mm)	Mean droplet diameter*4 (μm)	Free passage diameter (mm)	
				Liquid pressure (MPa)				Laser Doppler method	Liquid
				0 (Siphon)*3	0.05	H = 500 mm			
04	05	0.3	38	2.0	6.5	130	20-60	0.5	0.1
	07		38	4.0	12.3	130		0.7	0.1
	10		38	7.0	27.7	130		1.0	0.1
075	07		80	5.0	13.9	160		0.7	0.2
	10		80	8.0	27.9	160		1.0	0.2
15	10		220	8.0	27.7	170		1.0	0.3
	20		220	25.0	111.0	170		2.0	0.3
22	10		290	8.0	26.4	180		1.0	0.5
	20		290	26.0	111.0	180		2.0	0.5

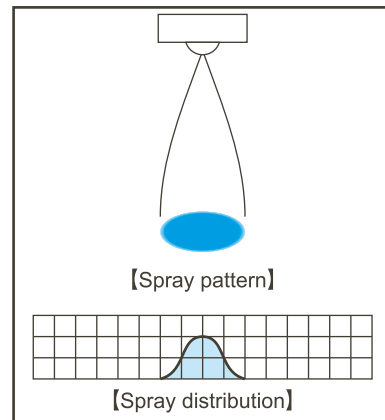
*3) Siphon height: 100 mm.

*4) Measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (liquid siphon feed).



Features

- Clog-resistant full cone spray pneumatic nozzles producing fine atomization.
Eddies from air makes further fine atomization.
- Optimal for spraying viscous liquids.



Dimensions & Pipe Connection Sizes

Dimensions

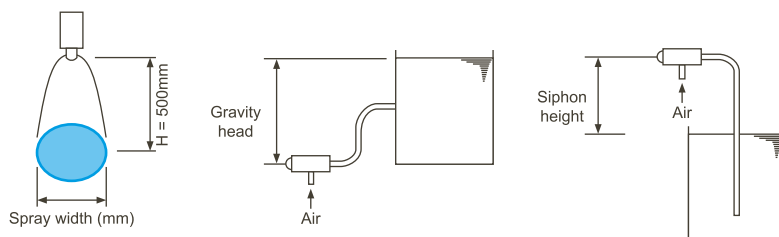
Air consumption code	Pipe connection size		L1 (mm)	L2 (mm)	H (mm)	Mass (g)
	1 (Air)	2 (Liquid)				
04	Rc1/8	Rc1/8	49	21	19	85
075						
15						
22						

Please see page 69 for structure and materials.

Air consumption code	Spray capacity code	Air pressure (MPa)	Air consumption (ℓ/min, Normal)	Spray capacity (ℓ/hr)		Spray width*2 (mm)	Mean droplet diameter*2 (μm)	Free passage diameter (mm)	
				Liquid pressure (MPa)				Laser Doppler method	Liquid
				0 (Siphon)*1	0,05	H = 500 mm			
04	05R	0.3	36	2.0	6.5	130	15-40	0.5	0.1
	07R		36	4.0	12.3	130		0.7	0.1
	10R		36	8.0	27.7	130		1.0	0.1
075	07R		71	5.0	13.9	160		0.7	0.2
	10R		71	9.0	27.9	160		1.0	0.2
15	10R		150	10.0	27.7	170		1.0	0.3
22	10R		200	11.0	26.4	180		1.0	0.5

*1) Siphon height: 100 mm.

*2) Measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (liquid siphon feed).



How to order

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

<Example> SETO 0405 S303 + T S303

SETO	04	05	S303 + T S303
	Air consumption code	Spray capacity code	
	■04	■05 ■05R	
	■075	■07 ■07R	
	■15	■10 ■10R	
	■22	■20	

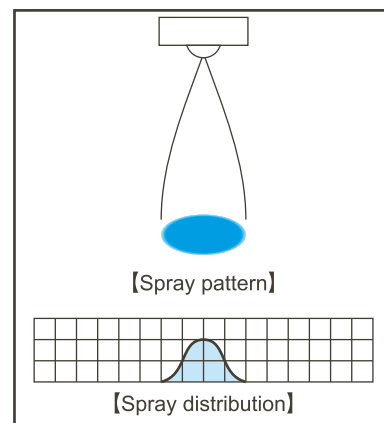
Note: Configuration and dimensions may be changed when nozzle tip material is different.

Full Cone Spray Fine Fog Nozzles for Wafer Cleaning

SETOJet-PTFE

Features

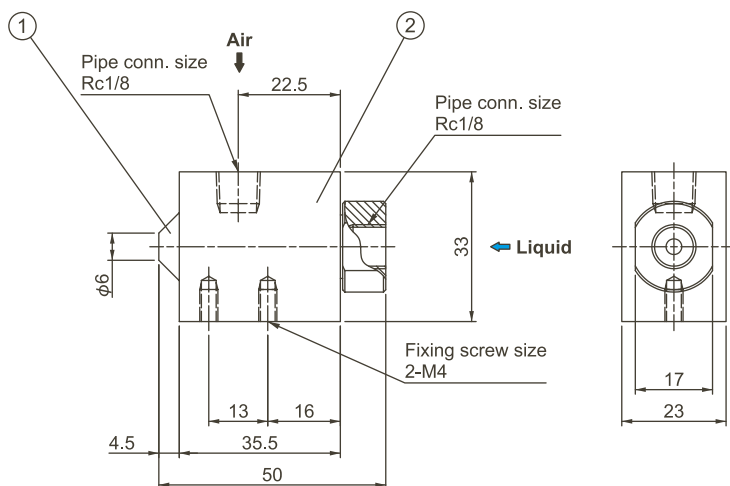
- Pneumatic spray nozzle made of PTFE. Capable of spraying chemical solutions.
- External mixing type preventing contamination.



Applications

- Cleaning: Precise cleaning for semiconductor wafers

Structure & Materials



Components and materials

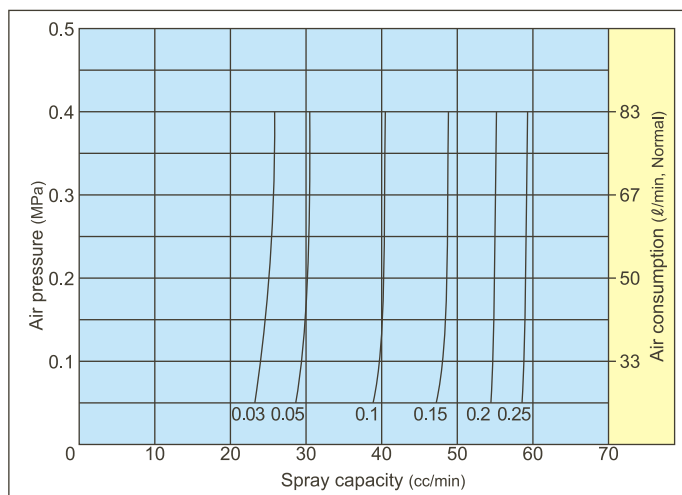
No.	Components	Standard materials
①	Nozzle tip	PTFE
②	Nozzle body	PTFE

Flow-rate Diagram

How to read the chart

- ① The spray capacity shown is for one nozzle.
- ② Figures at the foot of each curve indicate liquid pressures in MPa.

Note:
This chart is a single example.
We can design an optimal nozzle according to your application and purpose.



[Made-to-order product]

Please contact our sales office for details and other specifications.