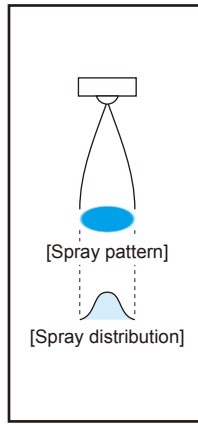


# Clog-resistant Fine Fog Nozzles Full Cone Spray

**SETOJet**



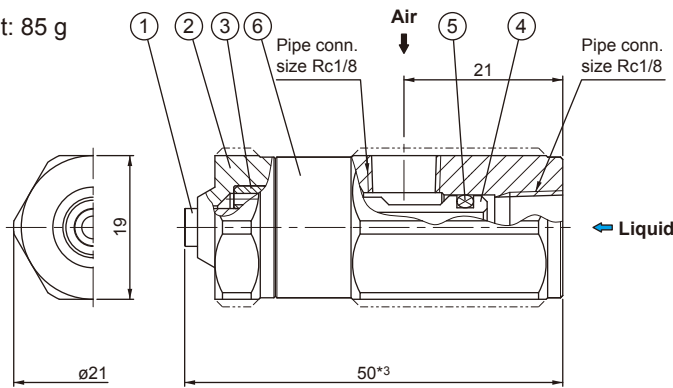
- Full cone spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 60  $\mu\text{m}$  or less.\*1
  - Clog-resistant design. Optimal for spraying viscous liquids.
  - External mixing type (designed to mix air and liquid outside the nozzle for atomization).
- \*1) Droplet diameter measured by laser Doppler method

### APPLICATIONS

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

### DRAWING

■ Weight: 85 g



### 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 integrated as one part in SETO04\*\* and SETO075\*\*.

\*2) Optional material: S316L

\*3) As for the models SETO0405, 0407, 0410, 07507 and 07510, the total length is 49.5 mm.

Unit: mm

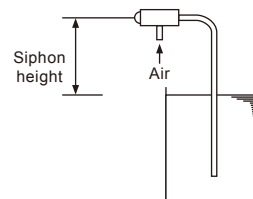


Download 3D CAD models (SETOJet)

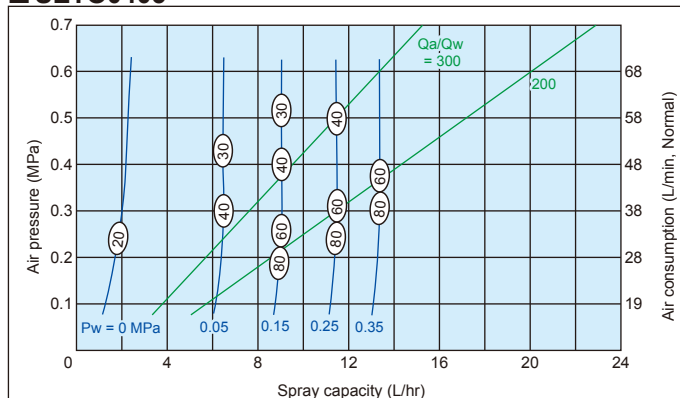
### FLOW-RATE DIAGRAMS

■ How to read the chart

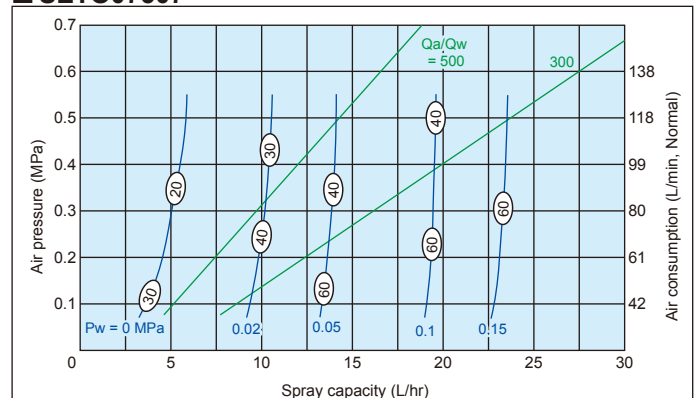
1. The spray capacity shown is for one nozzle.
2. Blue lines (—) represent liquid pressures  $P_w$  in MPa.  
Green lines (—) represent air-water ratio  $Q_a/Q_w$ .
3. Measured at 100 mm liquid siphon height with  $P_w$  at 0 MPa.
4. Numbers in ovals  $\circ$  indicate Sauter mean diameters ( $\mu\text{m}$ ) measured by laser Doppler method (measured at 300 mm from the nozzle).



#### SETO0405

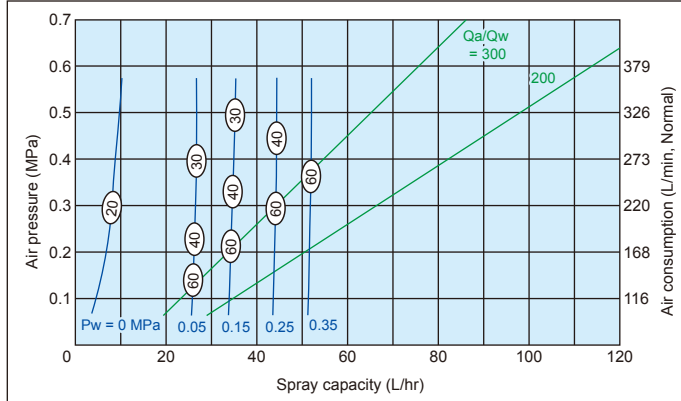


#### SETO07507

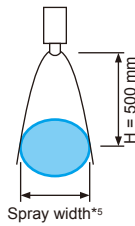
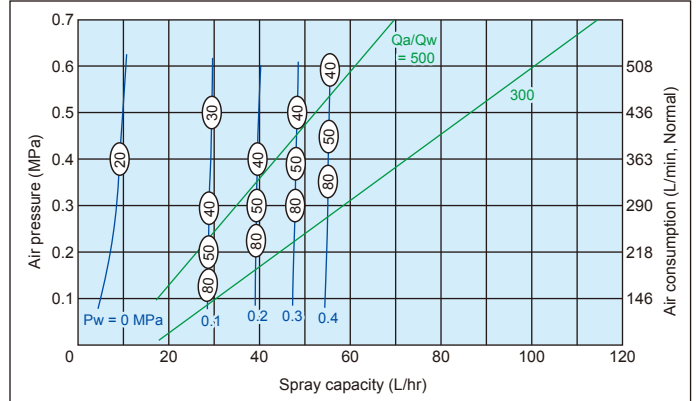


# Clog-resistant Full Cone Spray Fine Fog Nozzles SETOJet series

## ■ SETO1510



## ■ SETO2210



### PERFORMANCE DATA

Air consumption code	Spray capacity code	Air pressure (MPa)	Air consumption (L/min, Normal)	Spray capacity (L/hr)		Spray width*5 (mm) H = 500 mm	Mean droplet diameter*5 (µm) Laser Doppler method	Free passage diameter (mm)	
				Liquid pressure (MPa)				Liquid	Air
				0 (Siphon)*4	0.05				
04	05	0.3	38	2.0	6.5	130	20-60	0.5	0.1
	07			4.0	12.3			0.7	0.1
	10			7.0	27.7			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

\*4) Siphon height: 100 mm.

\*5) Measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (siphon height of 100 mm).

### HOW TO ORDER

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

<Example> SETO 0405 S303 + T S303

SETO

04

Air consumption code

- 04
- 075
- 15
- 22

05

Spray capacity code

- 05
- 07
- 10
- 20

S303

Material of nozzle tip

+

T

Type of adaptor

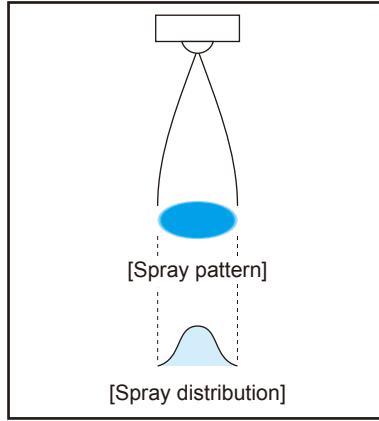
S303

Material of adaptor

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

# Clog-resistant Fine Fog Nozzles Full Cone Spray

## SETOJet-R



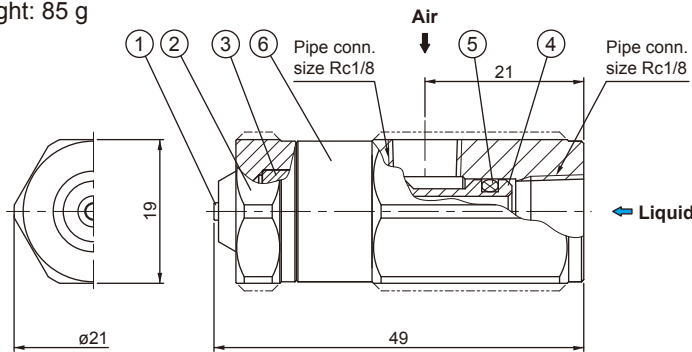
- Full cone spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 40  $\mu\text{m}$  or less.\*1
  - Eddies from air makes further fine atomization.
  - Optimal for spraying viscous liquids.
  - External mixing type (designed to mix air and liquid outside the nozzle for atomization).
- \*1) Droplet diameter measured by laser Doppler method

### APPLICATIONS

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

### DRAWING

■ Weight: 85 g



### 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

\*2) Optional material: S316L

Unit: mm

SETOJet-R

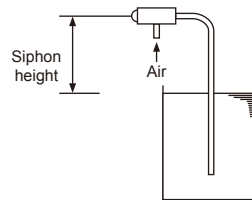


Download 3D CAD models (SETOJet-R)

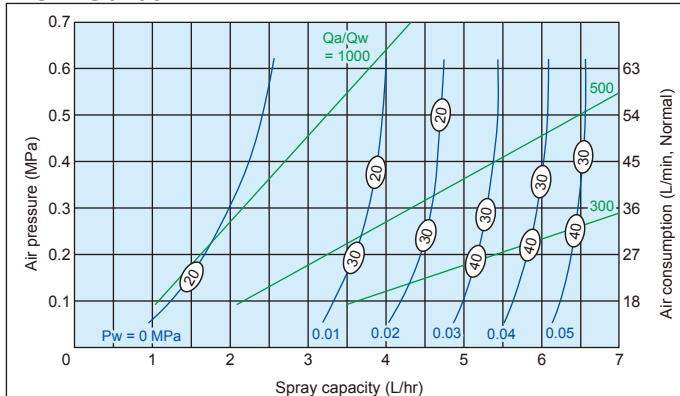
### FLOW-RATE DIAGRAMS

■ How to read the chart

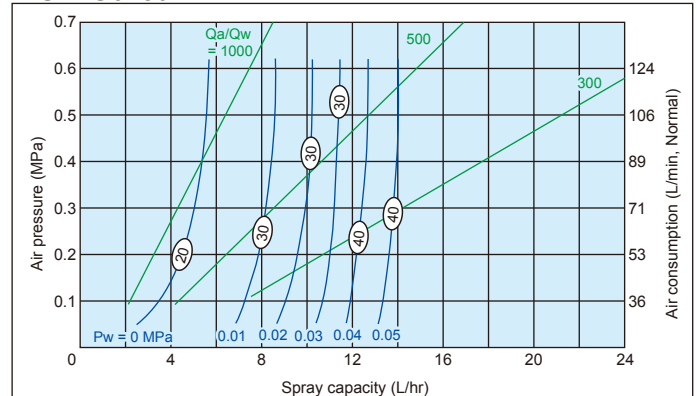
1. The spray capacity shown is for one nozzle.
2. Blue lines (—) represent liquid pressures  $P_w$  in MPa.  
Green lines (—) represent air-water ratio  $Q_a/Q_w$ .
3. Measured at 100 mm liquid siphon height with  $P_w$  at 0 MPa.
4. Numbers in ovals  $\circ$  indicate Sauter mean diameters ( $\mu\text{m}$ ) measured by laser Doppler method (measured at 300 mm from the nozzle).



#### ■ SETO0405R

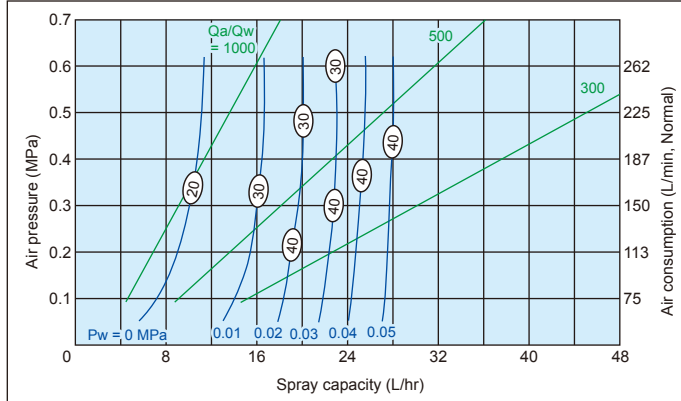


#### ■ SETO07507R

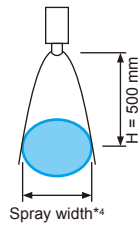
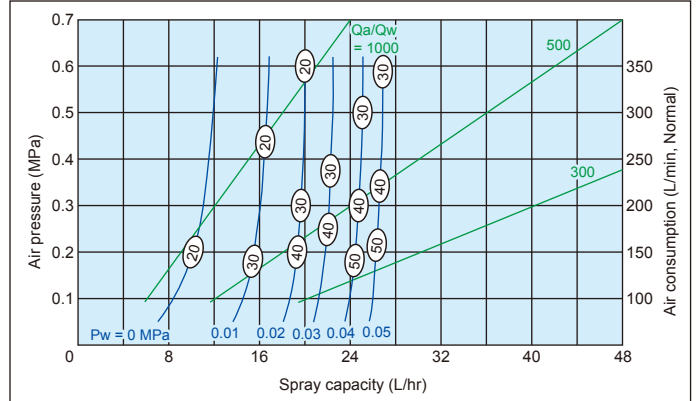


# Clog-resistant Full Cone Spray Fine Fog Nozzles SETOJet-R series

## ■ SETO1510R



## ■ SETO2210R



### PERFORMANCE DATA

Air consumption code	Spray capacity code	Air pressure (MPa)	Air consumption (L/min, Normal)	Spray capacity (L/hr)		Spray width*4 (mm) H = 500 mm	Mean droplet diameter*4 (µm) Laser Doppler method	Free passage diameter (mm)	
				Liquid pressure (MPa)				Liquid	Air
				0 (Siphon)*3	0.05				
04	05R	0.3	36	2.0	6.5	130	15-40	0.5	0.1
	07R			4.0	12.3			0.7	0.1
	10R			8.0	27.7			1.0	0.1
075	07R		71	5.0	13.9	160		0.7	0.2
	10R		71	9.0	27.9			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

\*3) Siphon height: 100 mm.

\*4) Measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (siphon height of 100 mm).

### HOW TO ORDER

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

<Example> SETO 0405R S303 + T S303

SETO

04

Air consumption code

- 04
- 075
- 15
- 22

05R

Spray capacity code

- 05R
- 07R
- 10R

S303

Material of nozzle tip

+

T

Type of adaptor

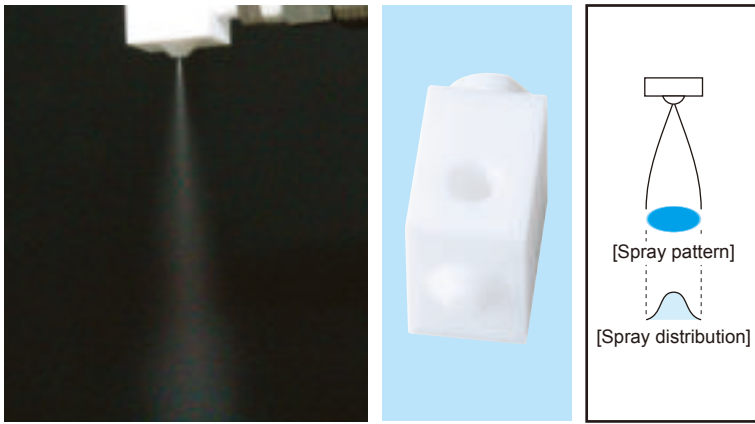
S303

Material of adaptor

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

# Clog-resistant Fine Fog Nozzles for Wafer Cleaning

## SETOJet-PTFE

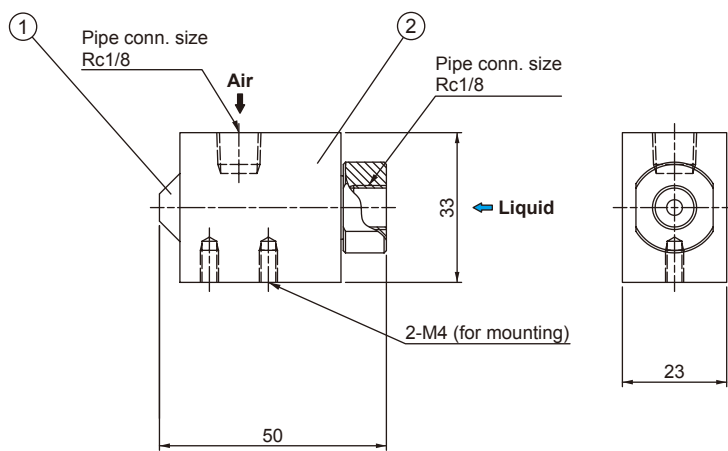


- Pneumatic spray nozzle made of PTFE. Capable of spraying chemical solutions.
- External mixing type preventing contamination.

### APPLICATIONS

- Cleaning: Precise cleaning for semiconductor wafers

### DRAWING



### COMPONENTS AND MATERIALS

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

Unit: mm

This series is made-to-order. Custom designs can be tailored to your needs. Please contact our sales office for more details.