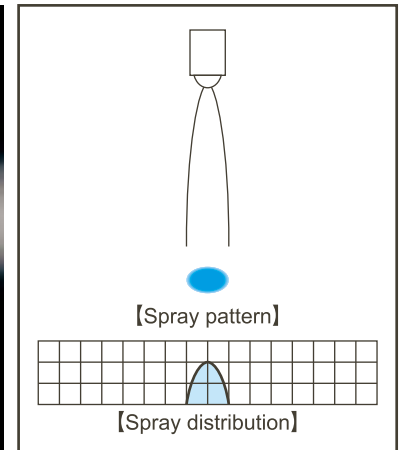


Features

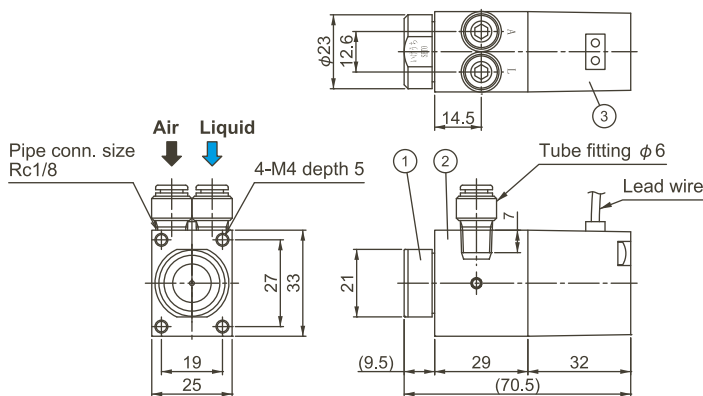
- Fast response performance by solenoid activation: Intermittent pulse spray at 0.02 sec/shot with a minimum of 0.006 cc/shot is possible.
- Ideal for coating in small amounts, i.e. protective agent coating, etc.
- IP65, IP67 (dust-proof and water-proof) structure.
- SETO07503R-I+SD is internal mixing outer air type (the other SETO models are external mixing type).



Applications

- Spraying release agent for metal molds
- Coating ■ Mold cooling
- Seasoning (food)
- Uniform coating without dripping

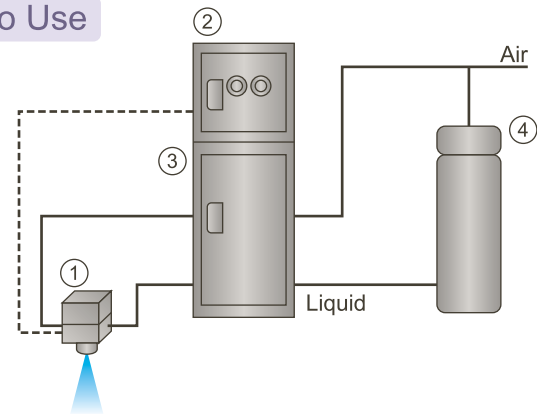
Structure & Materials



Components and materials

No.	Components	Standard materials
①	Nozzle body	Main materials: S304 or Aluminum
②	Adaptor	
③	Solenoid	

How to Use



No.	Description
①	Solenoid-activated pneumatic spray nozzle
②	Solenoid control panel
③	Pressurized flow control unit
④	Liquid pressurization tank (required only if oil-based release agent is used)

Nozzle code	Air pressure (MPa)	Spray capacity (ℓ/hr) & Air consumption (ℓ/min, Normal)								Spray width*2 (mm)	Mean droplet diameter*3 (μm)	Free passage diameter (mm)	Mass (g)				
		Liquid pressure (MPa)											Laser Doppler method	Adaptor			
		0 *1		0.05		0.13		0.2						0.3		Liquid	Air
07503R-I	0.2	—	—	—	—	1.0	50	3.2	48	—	—	40-50	15-25	0.3	0.4	180	270
	0.3	—	—	—	—	—	—	0.9	66	4.0	64						
	0.4	—	—	—	—	—	—	—	—	1.9	80						
0405R	0.3	2.0	36	6.5	36	—	—	—	—	—	—			0.5	0.1		
07507R	0.3	5.0	71	13.9	71	—	—	—	—	—	—			0.7	0.2		
2210R	0.3	10.0	200	26.4	200	—	—	—	—	—	—			1.0	0.5		

*1) Spray capacity and air consumption at liquid pressure of 0 MPa (liquid siphon feed) are measured at 100 mm siphon height.

*2) Spray width measured at 100 mm from nozzle.

*3) 07503R-I: Sauter mean droplet diameters measured at compressed air pressure of 0.2 MPa and liquid pressure of 0.13 MPa.

0405R, 07507R, 2210R: Sauter mean droplet diameters measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (liquid siphon feed).

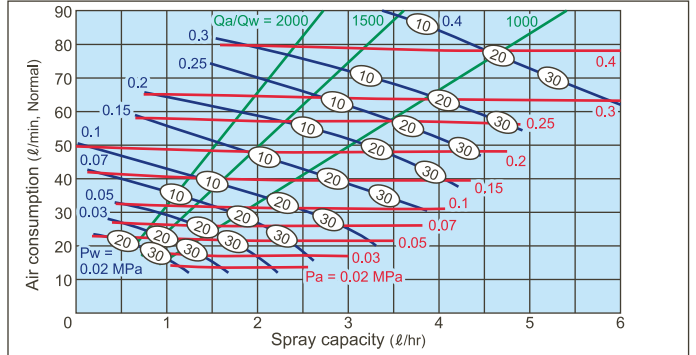
Valve function	Min. operating frequency (sec)	Max. operating pressure (MPa)	Electric current (A)	Electric voltage (DC-V)	Max. allowable temperature
Single solenoid, normally closed	ON: 0.02 OFF: 0.02	0.5 for both air/liquid	0.26	24	50°C (120°F)

Flow-rate Diagrams

■ How to read the chart

- ① The spray capacity shown is for one nozzle.
- ② **Red lines (—)** represent compressed air pressures P_a in MPa.
Blue lines (—) represent liquid pressures P_w in MPa.
Green lines (—) represent air-water ratio Q_a/Q_w .
- ③ Figures in ovals \bigcirc indicate Sauter mean droplet diameters (μm) measured by laser Doppler method (measured at 300 mm from the nozzle).

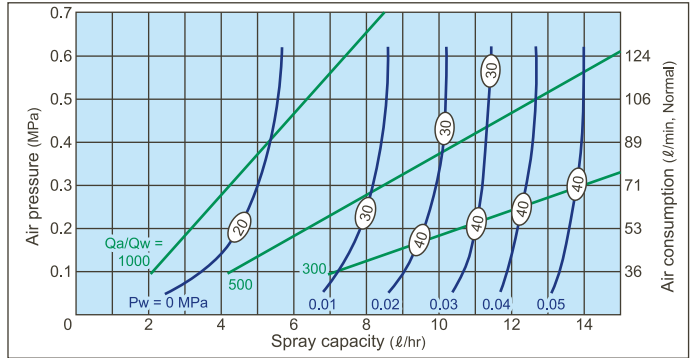
■ SETO07503R-I+SD



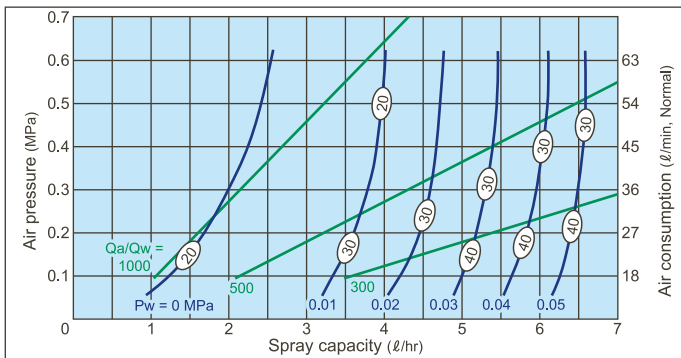
■ How to read the chart

- 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 liquid siphon height of 100 mm when P_w is 0 MPa.
- ④ Figures in ovals \bigcirc indicate Sauter mean droplet diameters (μm) measured by laser Doppler method (measured at 300 mm from the nozzle).

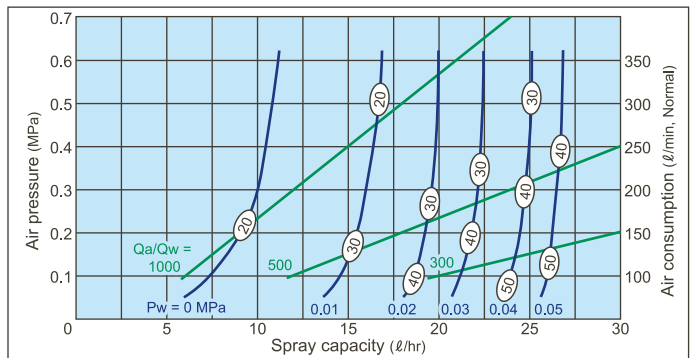
■ SETO07507R+SD



■ SETO0405R+SD



■ SETO2210R+SD



How to order

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

<Example> SETO 07503R-I +SD AL

SETO	07503R-I	+ SD	AL
	Nozzle code		Material
	■07503R-I		■AL (Aluminum)
	■0405R		■S304
	■07507R		
	■2210R		