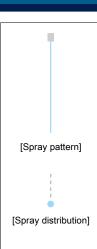
# High-Frequency Pulse Spraying Solenoid-Controlled Solid Stream Jet

Made-to-Order

SD-CC







- Controls the spray ON/OFF with electrical signal ON/OFF. Intermittent spray with min. 0.05 sec/ shot and as little as 0.05 cc/shot is possible.
- Ideal for applying a small amount of coating or marking with minimal splatter, saving liquid used.
- Nozzle tips can be replaced with a different orifice diameter code to adjust the spray flow rate.

#### [STANDARD PRESSURE]

0.3 MPa

## [APPLICATIONS]

- Coating: Water, oil, lubricant, insecticide, herbicide, aqueous solution
- Moisture control: Paper, food ◆Cooling: glass plate
- •Suited for minimizing liquid splatter

## **SD-CC** SERIES

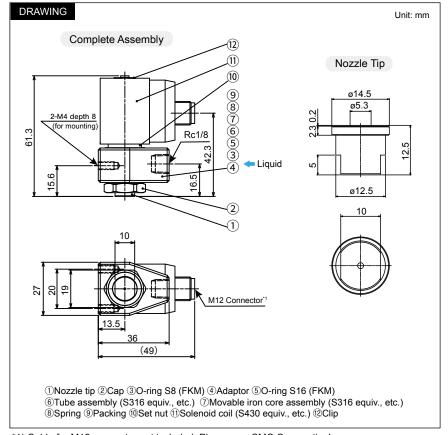
Structure	<ul> <li>Includes a nozzle tip, cap, and adaptor-solenoid section.</li> <li>Worn-out nozzle tips can be replaced separately.</li> </ul>
Material	<ul><li>Nozzle tip: S303</li><li>Cap, Adaptor: S304</li><li>Solenoid section: Various materials</li></ul>
Weight	Complete assembly: 220 g     Nozzle tip: 13 g

Max. temperature: 60°C Protection Structure IP67

The materials used in the parts that come into contact with liquids comply with the Food Sanitation Law in Japan.

#### [Note]

 Appearance and dimensions may differ slightly depending on material and nozzle code.



\*1) Cable for M12 connector not included. Please use SMC Corporation's "JSX022-30-1-length" cable (length: 1m, 2m, or 5m).

# **Solenoid Specifications**

Valve		Coil
Valve structure	Direct acting poppet	Rated vo
Orifice diameter	ø1.6 mm	Allowable
Pressure resistance	2.0 MPa	Allowable
Max.operating pressure difference	0.9 MPa	Electrica
Ambient temperature	-20-60°C	Tempera
Operating fluid temperature (water)	1–60°C	Power co
Operating fluid temperature (oil)	-5–60°C (w/ dynamic viscosity of 50mm²/s or less)	
Materials	Body: Stainless steel, Seal: FKM	
Protection structure	IP67	

	Coil	
-	Rated voltage	24 VDC
	Allowable voltage fluctuation	±10% of rated voltage
	Allowable leakage voltage	Less than 2% of rated voltage
	Electrical circuit	N.C.
	Temperature rise value	65°C
	Power consumption	4W

Orifice	Spray capacity (L/min)*2							
diameter code	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.9 MPa
ø0.3	0.04	0.05	0.06	0.07	0.09	0.12	0.14	0.16
ø0.4	0.07	0.10	0.12	0.14	0.17	0.22	0.26	0.29
ø0.5	0.11	0.16	0.19	0.22	0.27	0.35	0.41	0.47
ø0.6	0.16	0.22	0.27	0.31	0.38	0.49	0.58	0.66
ø0.7	0.21	0.29	0.36	0.42	0.51	0.66	0.78	0.88
ø0.8	0.27	0.38	0.47	0.54	0.66	0.85	1.01	1.14
ø0.9	0.33	0.47	0.58	0.67	0.82	1.06	1.25	1.42
ø1.0	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.73

\*2) These values are for continuous spraying.

[Note] The above nozzles are manufactured for specific orifice diameters, therefore the spray capacity is not guaranteed.

## **Operation Time Chart**

The electrical signal ON/OFF controls the spraying.

Electrical signal	OFF	ON	OFF	ON	OFF
Liquid	Stop	Spray	Stop	Spray	Stop

