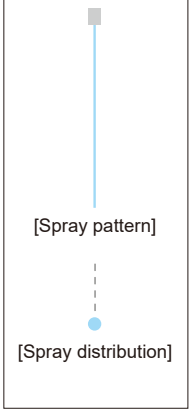
Solid Stream Jet with Pilot Air On-Off Control

SO-CC: Made-to-Order

SO-CC/SO-CM



- Extra-fine solid stream nozzles with high spray impact.
- Feature a responsive spray ON/OFF function. Connecting the pilot air allows for quick and precise control of spray activation and deactivation.
- Anti-drip design.

[STANDARD PRESSURE]
0.3 MPa

[APPLICATIONS]
Trimming: Paper making
Cleaning of precision machine parts, injection of chemicals, deburring

SO-CC SERIES (Made-to-Order)

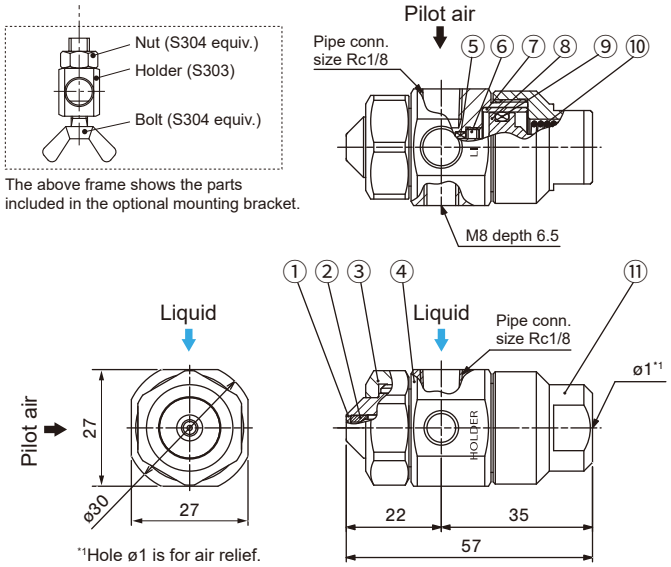
Structure	• Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air activates an internal piston to regulate the spray.
Material	• S303
Weight	• 170 g

Max. operating pressure: 1.0 MPa

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

DRAWING

Unit: mm



①Nozzle orifice ②Packing (PTFE) ③Cap ④Adaptor ⑤O-ring (FKM)
⑥Lock nut ⑦Sleeve (PTFE) ⑧Piston ⑨Y-packing (NBR)
⑩Spring (S304) ⑪Spring cap

SO-CM SERIES (with ceramic orifice)

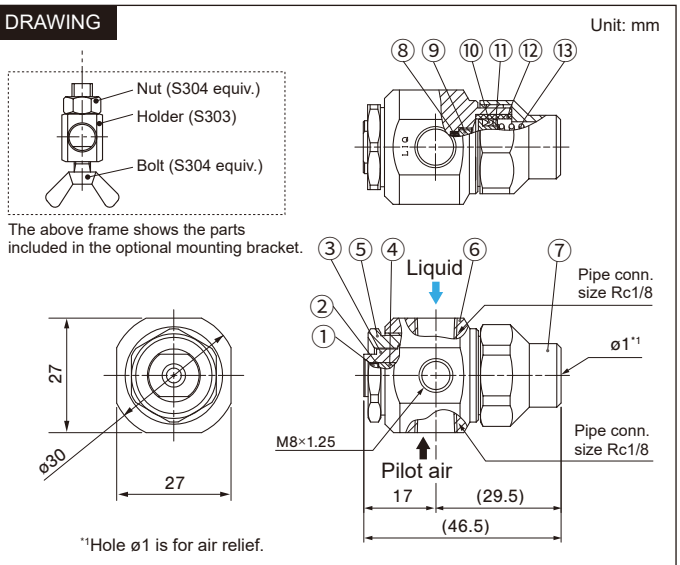
Structure	• Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air activates an internal piston to regulate the spray.
Material	• Nozzle orifice: ceramic • Metal parts: S303
Weight	• 150 g

Max. operating pressure: 0.5 MPa

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

DRAWING

Unit: mm



①Ceramic orifice ②Adhesive: Araldite® ③Tip retainer ④Packing (PTFE)
⑤Cap ⑥Adaptor ⑦Spring cap ⑧O-ring (FKM) ⑨Lock nut
⑩Y-packing (NBR) ⑪Piston ⑫Sleeve (UHMWPE) ⑬Spring (S304)

■SO-CC Series

Orifice diameter code	Spray capacity (L/min)				
	0.1 MPa	0.3 MPa	0.5 MPa	0.8 MPa	1.0 MPa
ø0.3	0.04	0.07	0.09	0.11	0.13
ø0.4	0.07	0.12	0.16	0.20	0.22
ø0.5	0.11	0.18	0.24	0.30	0.34
ø0.6	0.15	0.27	0.34	0.43	0.49
ø0.7	0.21	0.36	0.46	0.58	0.65
ø0.8	0.27	0.47	0.60	0.76	0.85
ø0.9	0.34	0.59	0.76	0.96	1.07
ø1.0	0.42	0.73	0.94	1.19	1.33

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

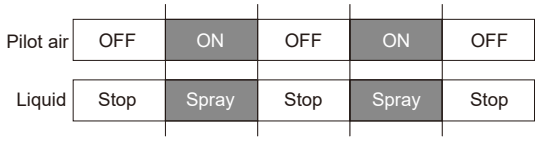
■SO-CM Series

Orifice diameter code	Spray capacity (L/min)	
	0.3 MPa	0.5 MPa
ø0.3	0.08	0.10
ø0.4	0.14	0.17
ø0.5	0.20	0.25
ø0.6	0.29	0.36
ø0.7	0.39	0.49
ø0.8	0.51	0.65
ø0.9	0.61	0.78
ø1.0	0.75	0.97

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

Operation Time Chart

The pilot air ON/OFF controls the spray operation.



Mounting Bracket (Optional)

This mounting bracket allows for easy installation of SO-CC/SO-CM series nozzles to a pole in the desired spray direction. Available in two sizes for pole diameters of 8 mm and 10 mm. When ordering the optional Mounting Bracket, please specify "BIM ø8 MBW" for ø8 mounting bracket, or "BIM ø10 MBW" for ø10 mounting bracket.

HOW TO ORDER

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

①Complete Assembly

Example: 1/8 SO-CM ø0.3 S303

1/8*2 | SO-CM (Series: SO-CC, SO-CM) | ø0.3 (Orifice diameter code: ø0.3 ~ ø1.0) | S303

*2) Indicates Rc1/8 for the liquid and pilot air connection thread size.

②Nozzle Tip Only (with packing)*3

Example: SO-CM ø0.3-TIP S303

SO-CM (Series: SO-CC, SO-CM) | ø0.3 (Orifice diameter code: ø0.3 ~ ø1.0) | -TIP S303

*3) Includes parts #1–4 (SO-CM) and parts #1–2 (SO-CC) as shown in the drawings (p. 108).

The SO-CC series is made-to-order.

ALSO AVAILABLE!

Flat Spray Nozzles with ON/OFF Control

SO-V
SO-VV
SERIES

See page 46 for more details.

⚠ CAUTIONS

- Supply liquid pressure at 0.5 MPa or less for the SO-CM series, and 1.0 MPa or less for the SO-CC series.
- Supply pilot air pressure between 0.2 and 0.5 MPa.
- For better shut off and to prevent dripping, purge the air between the solenoid valve and the nozzle when it is shut off, using a 3-way solenoid valve.