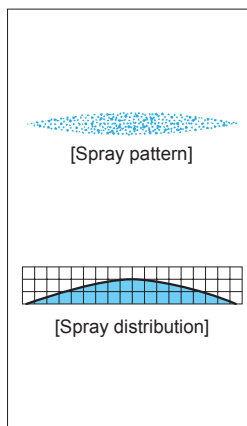


Flat Spray Nozzles with ON/OFF Control

SO-VV: Made-to-Order

SO-V/SO-VV

Flat Spray



- Flat spray pattern with a mountain-shaped spray distribution and gradually tapered edges.
- Anti-drip design.
- Quick ON/OFF spray response.
- Spray ON/OFF can be regulated by turning the pilot air ON/OFF.

[STANDARD PRESSURE]
0.3 MPa

[APPLICATIONS]
Coating: Release agent, lubricant, food additive such as seasoning
Moisture control: Paper, food

SO-V SERIES (with ceramic orifice)

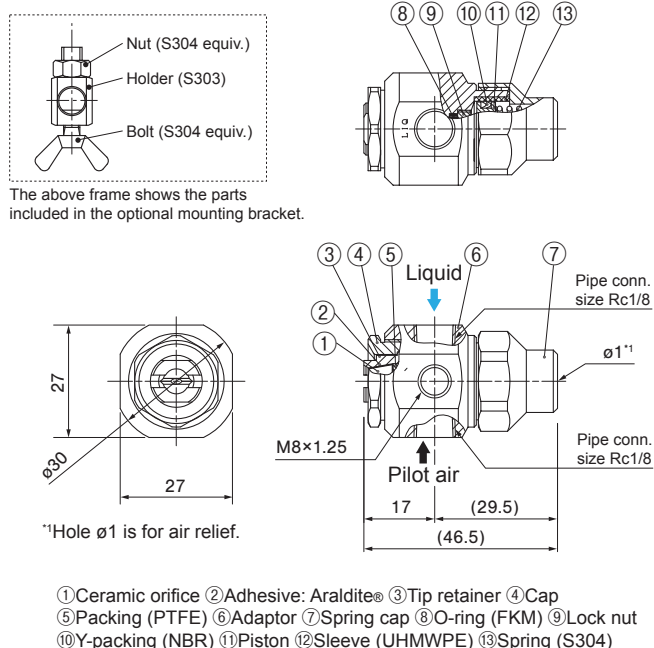
Structure	• Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air activates an internal piston to regulate the spray.
Material	• Nozzle orifice: ceramic • Metal parts: S303
Weight	• 150 g

Max. operating pressure: 0.5 MPa

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

DRAWING

Unit: mm



SO-VV SERIES

Made-to-Order

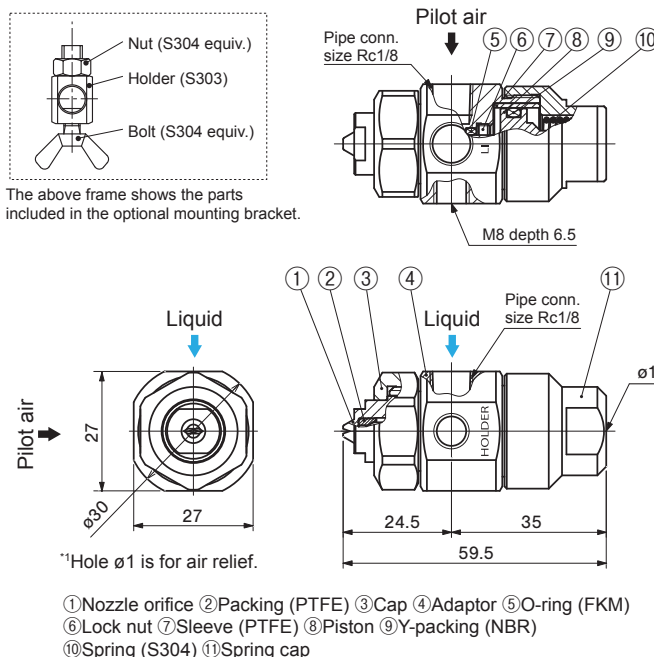
Structure	• Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air activates an internal piston to regulate the spray.
Material	• S303
Weight	• 170 g

Max. operating pressure: 1.0 MPa

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

DRAWING

Unit: mm



SO-VV Series

Spray angle code	Spray capacity code	Spray angle (°)			Spray capacity (L/min)								Mean droplet diameter (µm)	Free passage diameter (mm)
		0.15 MPa	0.3 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	1 MPa		
115	05	102	115	124	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	180	0.3
	07	103	115	124	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	200	0.3
	10	103	115	124	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	220	0.4
90	05	77	90	100	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	190	0.3
	07	78	90	100	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	210	0.4
	10	78	90	99	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	230	0.5
80	05	67	80	90	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	200	0.3
	07	68	80	89	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	220	0.4
	10	68	80	89	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	240	0.5
65	05	52	65	74	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	210	0.4
	07	53	65	74	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	230	0.5
	10	54	65	73	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	250	0.6
50	05	38	50	59	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	230	0.4
	07	38	50	58	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	250	0.5
	10	40	50	58	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	270	0.6
40	05	30	40	48	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	250	0.4
	07	30	40	48	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	280	0.5
	10	31	40	47	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	300	0.7
25	05	18	25	32	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	350	0.5
	07	18	25	32	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	390	0.6
	10	18	25	32	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	420	0.8
15	05	9	15	22	—	0.29	0.35	0.41	0.50	0.65	0.76	0.91	680	0.5
	07	9	15	21	—	0.40	0.49	0.57	0.70	0.90	1.07	1.28	740	0.7
	10	9	15	21	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	820	0.8

Operation Time Chart

The pilot air ON/OFF controls the spray operation.

Pilot air	OFF	ON	OFF	ON	OFF
Liquid	Stop	Spray	Stop	Spray	Stop

Mounting Bracket (Optional)

This mounting bracket allows for easy installation of SO-V/SO-VV 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.

SO-V

Example: 1/8 SO-V 11503 S303

1/8"² SO-V	115	03	S303
	Spray angle code	Spray capacity code	Material
	115	02	
	15	20	

SO-VV

Example: 1/8 SO-VV 11505 S303

1/8"² SO-VV	115	05	S303
	Spray angle code	Spray capacity code	Material
	115	05	
	15	10	

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

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

ALSO AVAILABLE!

Solid Stream Jet
with ON/OFF Control

SO-CC
SO-CM
SERIES

See page 102 for more details.

CAUTIONS

- Supply liquid pressure at 0.5 MPa or less for the SO-V series, and 1.0 MPa or less for the SO-VV 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.