

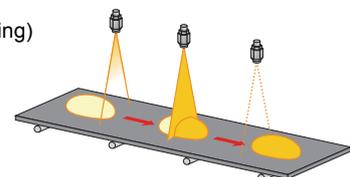
SO-V Series

Flat Spray

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	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa		
115	03	101	115	—	0.17	0.21	0.24	0.30	0.39	140	0.2
	04	102	115	—	0.23	0.28	0.33	0.40	0.52	∩	0.2
	05	102	115	—	0.29	0.35	0.41	0.50	0.65	160	0.3
	07	103	115	—	0.40	0.49	0.57	0.70	0.90	∩	0.3
	10	103	115	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.4
	15	104	115	0.61	0.87	1.06	1.23	1.50	1.94	∩	0.5
	20	104	115	0.82	1.15	1.41	1.63	2.00	2.58	270	0.6
90	02	76	90	—	0.12	0.14	0.16	0.20	0.26	145	0.2
	03	76	90	—	0.17	0.21	0.24	0.30	0.39	150	0.2
	04	77	90	—	0.23	0.28	0.33	0.40	0.52	∩	0.3
	05	77	90	—	0.29	0.35	0.41	0.50	0.65	170	0.3
	07	78	90	—	0.40	0.49	0.57	0.70	0.90	∩	0.3
	10	78	90	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.4
	15	79	90	0.61	0.87	1.06	1.23	1.50	1.94	∩	0.6
20	79	90	0.82	1.15	1.41	1.63	2.00	2.58	280	0.8	
80	02	67	80	—	0.12	0.14	0.16	0.20	0.26	150	0.2
	03	67	80	—	0.17	0.21	0.24	0.30	0.39	∩	0.3
	04	67	80	—	0.23	0.28	0.33	0.40	0.52	∩	0.3
	05	67	80	—	0.29	0.35	0.41	0.50	0.65	180	0.3
	07	68	80	—	0.40	0.49	0.57	0.70	0.90	∩	0.4
	10	68	80	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.5
	15	69	80	0.61	0.87	1.06	1.23	1.50	1.94	∩	0.7
20	69	80	0.82	1.15	1.41	1.63	2.00	2.58	290	0.8	
65	02	52	65	—	0.12	0.14	0.16	0.20	0.26	155	0.2
	03	52	65	—	0.17	0.21	0.24	0.30	0.39	160	0.3
	04	52	65	—	0.23	0.28	0.33	0.40	0.52	∩	0.3
	05	52	65	—	0.29	0.35	0.41	0.50	0.65	190	0.4
	07	53	65	—	0.40	0.49	0.57	0.70	0.90	∩	0.5
	10	54	65	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.6
	15	54	65	0.61	0.87	1.06	1.23	1.50	1.94	∩	0.8
20	55	65	0.82	1.15	1.41	1.63	2.00	2.58	310	0.9	
50	03	37	50	—	0.17	0.21	0.24	0.30	0.39	180	0.3
	04	37	50	—	0.23	0.28	0.33	0.40	0.52	∩	0.4
	05	38	50	—	0.29	0.35	0.41	0.50	0.65	210	0.4
	07	38	50	—	0.40	0.49	0.57	0.70	0.90	∩	0.5
	10	40	50	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.6
	15	40	50	0.61	0.87	1.06	1.23	1.50	1.94	∩	0.8
	20	41	50	0.82	1.15	1.41	1.63	2.00	2.58	340	1.0
40	05	30	40	—	0.29	0.35	0.41	0.50	0.65	230	0.4
	07	30	40	—	0.40	0.49	0.57	0.70	0.90	∩	0.6
	10	31	40	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.7
	20	32	40	0.82	1.15	1.41	1.63	2.00	2.58	380	1.0
25	05	18	25	—	0.29	0.35	0.41	0.50	0.65	270	0.5
	07	18	25	—	0.40	0.49	0.57	0.70	0.90	∩	0.6
	10	18	25	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.8
	15	19	25	0.61	0.87	1.06	1.23	1.50	1.94	440	1.0
15	05	9	15	—	0.29	0.35	0.41	0.50	0.65	310	0.5
	07	9	15	—	0.40	0.49	0.57	0.70	0.90	∩	0.6
	10	9	15	0.41	0.58	0.71	0.82	1.00	1.29	∩	0.8
	15	10	15	0.61	0.87	1.06	1.23	1.50	1.94	510	1.1

Example of Use

Coating (seasoning)



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	0.3
	10	78	90	99	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	230	0.4
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	0.6
	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	0.6
	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 108 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.