Clog-resistant Vaneless Full Cone Spray Nozzles AJP/AJP-PPS

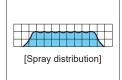








[Spray pattern]



- Full cone spray pattern with a round impact area and uniform distribution.
- Without using a whirler, the liquid is atomized by collision inflow inside the nozzle.
- No-whirler design with a large free passage diameter minimizes clogging.
- Nozzle sprays at a 90° angle to the nozzle inlet.
- Highly chemical and wear resistant AJP-PPS series is available for spraying hydrochloric acid and other chemicals.

[STANDARD PRESSURE] 0.2 MPa [APPLICATIONS]

Cleaning: Pre-paint treatment, washing booths, machine parts, gas, incinerator fumes

Cooling: Steel plates, copper pieces, gas Spraying: Aeration, foam breaking

Others: Applications where re-circulated water is being used or clogging is a concern

AJP SERIES

Structure	 Includes a nozzle body and orifice cap. Orifice cap for sizes R1/8, R3/8, and R1/2 is pressed into the nozzle body. Orifice cap for the other sizes are screwed in. No obstructions in the nozzle interior.
Material	 Nozzle body: S304, S303, or SCS13, depending on the spray capacity code. Orifice cap: S303 SPECIAL ORDER MATERIAL: S316

Pipe conn.	Dimensions (mm)											
size	L1	L2	L3	L4	W	N	(g)					
R1/8	23	16	16	14	14	7	25					
R1/4	32	23	20.5	16	16	10.5	55					
R3/8	36	26	23.5	19	20	11	70					
R1/2	46	33.5	31	25	25	14	180					
R3/4	55	39	38	32	32	15	340					
R1	70	50	48	40	40	18	670					
R11/2	100	70	72	58.5	58.5	20	2.400					

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

Cautions for use (sizes R1/8, R3/8, and R1/2)

In extreme temperatures, high or low, the AJP press-fitted orifice cap for sizes R1/8, R3/8 and R1/2 may come off.

- For these conditions, order the AJP nozzles in S316 with the screw-in orifice caps.
- Do not use AJP size R1/8 in these conditions, the screw-in orifice cap is not available for size R1/8.

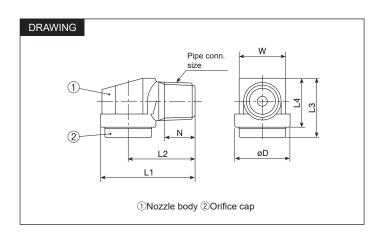
R1/8 Pipe conn. size R1/8 2
R1/4, R3/4, R1, R1½
Pipe conn. size W →
2 N N N N N N N N N N N N N N N N N N N
R3/8, R1/2
Pipe conn. size ₩
2 3 1 1 2 3
①Nozzle body ②Orifice cap ③Adhesive

AJP-PPS SERIES

Structure	 Includes a nozzle body and orifice cap. Orifice cap and nozzle body are ultrasonically welded together. No obstructions in the nozzle interior.
Material	• PPS

Pipe conn.	Dimensions (mm)												
size	L1	L2	L3	L4	W	N	øD	(g)					
R1/4	32.5	23	20.5	17	16	19	10.5	6.8					
R3/8	37	26	23	20	19	22	11	10.3					

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



	Pipe connection size					S.n.	ray angle	. (°)	Chron consitt (I (min)							Mean	Free				
Spray capacity		AJP (metal) AJP-PPS							PPS	opiay angle ()			Spray capacity (L/min)								pass.
code	R1/8	R1/4	R3/8	R1/2	R3/4	R1	R 1½	R1/4	R3/8	0.05 MPa	0.2 MPa	0.5 MPa	0.03 MPa	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa	dia. (µm)	dia. (mm)
02 03	00									64 65	75 75	69 69	_	1.02 1.53	1.43 2.14	1.74 2.61	2.00 3.00	2.35 3.53	2.89 4.33	640	1.5 1.9
04 05		00						000		65 65	75 75	68 68	1.59 1.99	2.04 2.55	2.86 3.57	3.48 4.35	4.00 5.00	4.70 5.88	5.77 7.21	?	2.2 2.5
06 07		0						00		70 70	80 80	73 73	2.39 2.79	3.06 3.57	4.29 5.00	5.22 6.09	6.00 7.00	7.06 8.23	8.66 10.1		2.8 3.1
08 10			000						000	70 70	80 80	73 73	3.19 3.98	4.08 5.10	5.71 7.14	6.96 8.70	8.00 10.0	9.54 11.9	11.9 14.9	740	3.1 3.5
12 14 16			000						000	75 75 75	85 85 85	78 78 78	4.78 5.57 6.37	6.12 7.14 8.16	8.57 10.0 11.4	10.4 12.2 13.9	12.0 14.0 16.0	14.3 16.7 19.1	17.9 20.9 23.8	820	4.0 4.4 4.8
18				0						76	85	79	7.17	9.18	12.9	15.7	18.0	21.6	27.1		5.0
20 23				00						76 76	85 85	79 79	7.96 9.16	10.2 11.7	14.3 16.4	17.4 20.0	20.0 23.0	23.9 27.5	30.1 34.6	?	5.4 5.7
26 30				00						76 76	85 85	79 79	10.4 11.9	13.3 15.3	18.6 21.4	22.6 26.1	26.0 30.0	31.1 35.9	39.1 45.1	900	6.0 6.4
35 40				00						83 83	90 90	85 85	13.9 15.9	17.9 20.4	25.0 28.6	30.4 34.8	35.0 40.0	41.9 47.9	52.6 60.1	,	7.1 7.7
45 50				00						83 83	90 90	85 85	17.9 19.9	23.0 25.5	32.1 35.7	39.1 43.5	45.0 50.0	53.9 59.9	67.6 75.1	(8.5 9.0
55 60					00					83 83	90 90	85 85	21.9 23.9	28.1 30.6	39.3 42.9	47.8 52.2	55.0 60.0	65.9 71.8	82.6 90.2	1,000	9.0 9.4
70 80					000					83 83	90 90	85 85	27.9 31.9	35.7 40.8	50.0 57.1	60.9 69.6	70.0 80.0	83.8 95.8	105 120	?	10.2 11.1
100					0	0				83 83	90	85 85	35.8 39.8	45.9 51.0	64.3 71.4	78.3 87.0	90.0	108	135 150	1,120	11.4
120 150						000				83 83	90 90 90	85 85 85	47.8 59.7	61.2 76.5	85.7 107	104	120 150	144	180 225	1,120	13.0 15.0
180							00			83 83	90	85 85	71.7 79.6	91.8	129 143	157 174	180	216 239	270 301	1,280	15.5 17.9
250							ŏ			83	90	85	99.5	128	179	217	250	299	376	1,350	17.9

