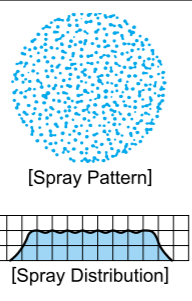


# Clog-resistant Vaneless Full Cone Spray Nozzles

## AJP/AJP-PPS



- [Features]**
- Full cone spray pattern with a round impact area and uniform distribution.
  - Unique design to produce fine atomization by liquid impinging inside chamber without a whirler.
  - No-whirler design with large free passage diameter minimizes clogging.
  - Spraying axis 90° from the axis of the nozzle inlet.
  - For spraying chemicals such as hydraulic acid, PPS-injection molded AJP are available for excellent chemical and heat resistance.

**[Standard Pressure]**  
0.2MPa

**[Applications]**  
 Cleaning : Pre-painting treatment, washing booths, machine parts, gases, incinerator fumes, etc.  
 Cooling : Metal sheets, gases, etc.  
 Spraying, aeration, humidification, etc.  
 Others : Applications where re-circulated water is being used or clogging is a concern.

**AJP-series**

AJP-series	
Structure	<ul style="list-style-type: none"> <li>• Comprised of nozzle body and removable orifice cap (except for 3/8M and 1/2M).</li> <li>• Orifice cap of sizes 3/8M and 1/2M are pressed into bodies.</li> <li>• No obstructions in nozzle interior.</li> </ul>
Material	<ul style="list-style-type: none"> <li>• S303 (stainless steel 303) (SCS13 for 3/8M Body)</li> <li>• Optional material : S316</li> </ul>

1/4 M • 3/4 M • 1 M • 1 1/2 M

3/8 M • 1/2 M

Series	Pipe Conn. Size	Dimensions(mm)						Mass(g)
		l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	w	n	
AJP	1/4M	32	23	20.5	16	16	10.5	55
	3/8M	36	26	23.5	19	20	11	70
	1/2M	46	33.5	31	25	25	14	180
	3/4M	55	39	38	32	32	15	340
	1M	70	50	48	40	40	18	670
	1 1/2M	100	70	72	58.5	58.5	20	2400

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

**AJP-PPS series**

AJP-PPS series	
Structure	<ul style="list-style-type: none"> <li>• One-piece structure with orifice cap electrodeposited to the body.</li> <li>• No obstructions in nozzle interior.</li> </ul>
Material	• PPS (polyphenylene sulfide)

Series	Pipe Conn. Size	Dimensions(mm)						Mass(g)
		l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	w	n	
AJP-PPS	1/4M	32.5	23	20.5	17	16	10.5	6.8
	3/8M	37	26	23	20	19	11.0	10.3

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

## Clog-resistant, Vaneless Full Cone Spray Nozzles AJP/AJP-PPS series

Spray Capacity Code	AJP (Metal)						AJP-PPS (Plastic)		Spray Angle			Spray Capacity (ℓ/min)						Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)	
	1/4M	3/8M	1/2M	3/4M	1M	1 1/2M	1/4M	3/8M	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
	04	○						○		65°	75°	68°	1.59	2.04	2.86	3.48	4.00			4.70
05	○						○		65°	75°	68°	1.99	2.55	3.57	4.35	5.00	5.88	7.21		2.5
06	○						○		70°	80°	73°	2.39	3.06	4.28	5.22	6.00	7.06	8.66		2.8
07	○						○		70°	80°	73°	2.79	3.57	5.00	6.09	7.00	8.35	10.4		3.1
08		○					○		70°	80°	73°	3.18	4.08	5.71	6.96	8.00	9.54	11.9	∩	3.2
10		○					○		70°	80°	73°	3.98	5.10	7.14	8.70	10.0	11.9	14.9		3.7
12		○					○		75°	85°	78°	4.78	6.12	8.57	10.4	12.0	14.3	17.9		4.1
14		○					○		75°	85°	78°	5.57	7.14	10.0	12.2	14.0	16.7	20.8		4.5
16		○					○		75°	85°	78°	6.37	8.16	11.4	13.9	16.0	19.1	23.8	750	5.0
18			○						76°	85°	79°	7.16	9.18	12.9	15.7	18.0	21.5	27.1	800	5.1
20			○						76°	85°	79°	7.96	10.2	14.3	17.4	20.0	23.9	30.1		5.4
23			○						76°	85°	79°	9.15	11.7	16.4	20.0	23.0	27.5	34.6		6.0
26			○						76°	85°	79°	10.3	13.3	18.6	22.6	26.0	31.1	39.1		6.5
30			○						76°	85°	79°	11.9	15.3	21.4	26.1	30.0	35.9	45.1		7.1
35			○						83°	90°	85°	13.9	17.9	25.0	30.5	35.0	41.9	52.6		7.8
40			○						83°	90°	85°	15.9	20.4	28.6	34.8	40.0	47.9	60.1		8.5
45			○						83°	90°	85°	17.9	23.0	32.1	39.2	45.0	53.9	67.6	∩	9.2
50			○						83°	90°	85°	19.9	25.5	35.7	43.5	50.0	59.9	75.2		9.8
55				○					83°	90°	85°	21.9	28.1	39.3	47.9	55.0	65.8	82.7		9.6
60				○					83°	90°	85°	23.9	30.6	42.8	52.2	60.0	71.8	90.2		10.1
70				○					83°	90°	85°	27.9	35.7	50.0	60.9	70.0	83.8	105		11.2
80				○					83°	90°	85°	31.4	40.8	57.1	69.6	80.0	95.8	120		12.2
90				○					83°	90°	85°	35.8	45.9	64.3	78.3	90.0	108	135	1250	13.0
100					○				83°	90°	85°	39.8	51.0	71.4	87.0	100	120	150		13.0
120					○				83°	90°	85°	47.8	61.2	85.7	104	120	144	180		14.8
150					○				83°	90°	85°	59.7	76.5	107	131	150	180	226	∩	17.4
180						○			83°	90°	85°	71.6	91.8	129	157	180	216	271		17.8
200						○			83°	90°	85°	79.6	102	143	174	200	240	300		18.8
250						○			83°	90°	85°	99.5	128	179	217	250	299	376	1400	22.3

**How to order** Please inquire or order for a specific nozzle using this coding system.

① AJP (Metal)

〈Example〉...1/4MAJP04S303

1/4M	AJP	04	S303
<small>Pipe Conn. Size</small>		<small>Spray Capacity Code</small>	
1/4M		04	
∩		∩	
1 1/2M		250	

② AJP-PPS (Plastic)

〈Example〉...3/8MAJP08PPS

3/8M	AJP	08	PPS
<small>Pipe Conn. Size</small>		<small>Spray Capacity Code</small>	
3/8M		08	
∩		∩	
∩		16	