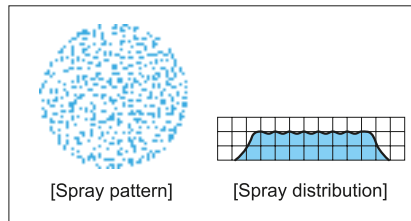


Clog-resistant Alumina Ceramic Full Cone Spray Nozzles

AJP-AL92

Clog-resistant full cone nozzle made of high wear-resistant and chemical-resistant alumina ceramics.

Full Cone



[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.
- Right angle nozzle suitable for installation in narrow space.

[Standard pressure]

0.2 MPa

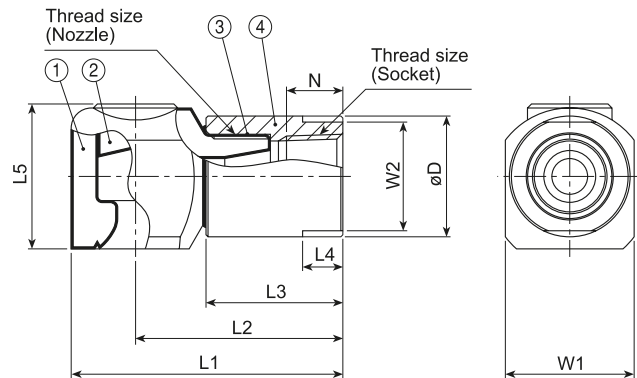
[Applications]

- Spraying slurry
- Absorption tower of flue gas desulfurization equipment
- Spraying water in cooling tower

AJP-AL92 series

	AJP-AL92 series
Structure	<ul style="list-style-type: none"> • Whole nozzle fired as one piece. • No obstructions in nozzle interior.
Material	<ul style="list-style-type: none"> • Nozzle body: 92% Alumina • Socket: S316

We offer AJP-AL92 series with a socket made of S316 to prevent thread damage, as the nozzle's alumina threads get easily chipped. Our S316 socket is female threaded.



① Nozzle body ② Ceramic plate ③ Adhesive: Araldite®H ④ Socket (S316)

Thread sizes		Dimensions (mm)									Mass (g)
Nozzle	Socket	L1	L2	L3	L4	L5	W1	W2	øD	N	
R1/2	Rc1/2	68	52	34	10	36	32	27	30	14	240
R3/4	Rc3/4	80	60	39	14	44	41	35	40	15	450
R1	Rc3/4	97	71	41	18	54	50	41	50	15	650
R1	Rc1	99	73	43	18	54	50	41	50	17	850
R1*1/2	Rc1	130	94	47	24	80.5	75	60	70	17	2,160
R1*1/2	Rc1*1/2	133	97	50	24	80.5	75	60	70	19	2,440

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

Position of the machined flat surfaces (L4 in the drawing) of the socket is not always the same as shown in the above photo and drawing.

Clog-resistant Alumina Ceramic Full Cone Spray Nozzles

AJP-AL92 series

Spray capacity code	Nozzle thread size				Spray angle (°)			Spray capacity (ℓ/min)							Mean droplet diameter (μm)	Free passage diameter (mm)
	R1/2	R3/4	R1	R 1*1/2	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		
18	○				76	85	79	7.16	9.18	12.9	15.7	18.0	21.5	27.1	800	5.0
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		5.7
26	○				76	85	79	10.3	13.3	18.6	22.6	26.0	31.1	39.1		6.0
30	○				76	85	79	11.9	15.3	21.4	26.1	30.0	35.9	45.1		6.4
35	○				83	90	85	13.9	17.9	25.0	30.5	35.0	41.9	52.6		7.1
40	○				83	90	85	15.9	20.4	28.6	34.8	40.0	47.9	60.1		7.7
45	○				83	90	85	17.9	23.0	32.1	39.2	45.0	53.9	67.6	§	8.5
50	○				83	90	85	19.9	25.5	35.7	43.5	50.0	59.9	75.2		9.0
55		○			83	90	85	21.9	28.1	39.3	47.9	55.0	65.8	82.7		9.0
60		○			83	90	85	23.9	30.6	42.8	52.2	60.0	71.8	90.2		9.4
70		○			83	90	85	27.9	35.7	50.0	60.9	70.0	83.8	105		10.2
80		○			83	90	85	31.4	40.8	57.1	69.6	80.0	95.8	120		11.1
90		○			83	90	85	35.8	45.9	64.3	78.3	90.0	108	135	1,250	11.4
100			○		83	90	85	39.8	51.0	71.4	87.0	100	120	150		12.2
120			○		83	90	85	47.8	61.2	85.7	104	120	144	180		13.0
150			○		83	90	85	59.7	76.5	107	131	150	180	226	§	15.0
180				○	83	90	85	71.6	91.8	129	157	180	216	271		15.5
200				○	83	90	85	79.6	102	143	174	200	240	300		17.9
250				○	83	90	85	99.5	128	179	217	250	299	376	1,400	19.8

Full Cone

How to order

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

〈Example〉 1/2M AJP 18 AL92 + 1/2F x 1/2 F SOC S316

1/2M AJP	18	AL92 +	1/2F	x	1/2	F SOC S316
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Nozzle thread size*</div> <div style="display: flex; justify-content: space-between; width: 100%;"> ■ 1/2M § ■ 1*1/2M </div>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Spray capacity code</div> <div style="display: flex; justify-content: space-between; width: 100%;"> ■ 18 § ■ 250 </div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Socket thread size* (Pipe conn. size)</div> <div style="display: flex; justify-content: space-between; width: 100%;"> ■ 1/2F § ■ 1*1/2F </div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Nozzle thread size (without "R")</div> <div style="display: flex; justify-content: space-between; width: 100%;"> ■ 1/2 § ■ 1*1/2 </div>	

**"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/2M = R1/2, 1/2F = Rc1/2".