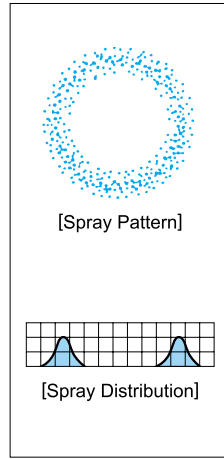
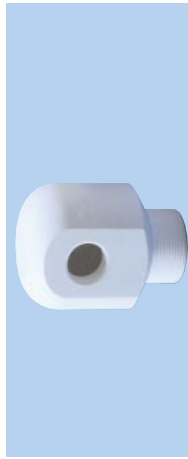


Alumina Ceramic and Medium Capacity Hollow Cone Spray Nozzles

AP-AL92



[Features]

- Hollow cone spray nozzle made of alumina ceramic having excellent wear-resistance.
- Stable spray pattern under low pressure.
- No-whirler design minimizes clogging.
- Spraying axis 90° from the axis of the nozzle inlet.

[Standard Pressure]

0.2MPa

[Applications]

- Cleaning : Gases, air, machines, pre-painting treatment, etc.
- Cooling : Gases, air handling unit, roofs, machinery, foods, warm water, etc.
- Spraying : Aeration, humidification, slurry, etc.

Hollow Cone

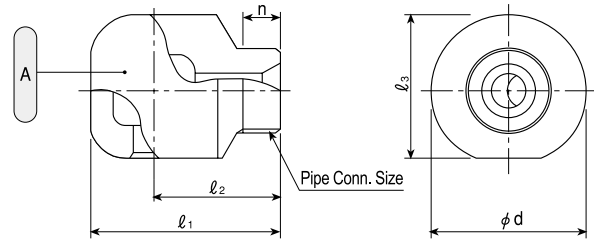
AP-AL92 series

AP-AL92 series	
Structure	<ul style="list-style-type: none"> • Alumina ceramic one-piece structure. • No obstructions in nozzle interior.
Material	<ul style="list-style-type: none"> • 92% Alumina

* If installed into a metal header, this nozzle should be used with a socket made of SUS316, shown on page 86 (otherwise, the thread may be damaged). Please refer to page 86.

Series	Pipe Conn. Size	Dimensions(mm)					Mass(g)
		l ₁	l ₂	l ₃	φ d	n	
AP-AL92	1/2 M	48.5	33.5	36	38	14	120
	3/4 M	59	39	44	46	15	200
	1M	74	50	52.5	56	18	390
	1 1/2 M	105	70	81.5	85	20	1400
	2M	127	82	99	104	24	2100
	2 1/2 M	162	102	123.5	128	29	4500
	3M	205	135	150	160	31	8900

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



Ⓐ Nozzle (Ceramic-Al₂O₃ 92%)

Spray Capacity Code	Pipe Conn. Size							Spray Angle			Spray Capacity (ℓ/min)						Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)			
	1/2 M	3/4 M	1M	1 1/2 M	2M	2 1/2 M	3M	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		
14	○							76°	80°	83°	5.62	7.19	10.0	12.2	14.0	17.0	21.7	580	6.8		
16	○							76°	80°	83°	6.43	8.22	11.5	13.9	16.0	19.4	24.9			5	7.2
18	○							76°	80°	83°	7.23	9.24	12.9	15.7	18.0	21.9	28.0				
20	○							76°	80°	83°	8.03	10.3	14.0	17.4	20.0	24.3	31.1			7.5	
23	○							76°	80°	83°	9.24	11.8	16.5	20.0	23.0	28.0	35.7	800	8.0		
26		○						76°	80°	83°	10.4	13.4	18.6	22.6	26.0	31.6	40.4			670	9.2
30		○						76°	80°	83°	12.1	15.4	21.5	26.1	30.0	36.5	46.6	5	9.9		
35		○						76°	80°	83°	14.1	18.0	25.1	30.5	35.0	42.5	54.4			10.3	
40		○						76°	80°	83°	16.1	20.5	28.7	34.8	40.0	48.6	62.1	850	10.5		
45			○					81°	85°	89°	18.1	23.1	32.2	39.2	45.0	54.7	69.9			750	12.1
50			○					81°	85°	89°	20.1	25.7	35.8	43.5	50.0	60.8	77.7	5	12.3		
55			○					81°	85°	89°	22.1	28.2	39.4	47.9	55.0	66.8	85.4			13.1	
60			○					81°	85°	89°	24.1	30.8	43.0	52.2	60.0	72.9	93.2	13.7			
70			○					81°	85°	89°	28.1	35.9	50.2	61.0	70.0	85.1	109		1000	15.0	
80				○				81°	85°	89°	32.1	41.1	57.3	69.7	80.0	97.2	124	1000			15.3
100				○				81°	85°	89°	40.2	51.4	71.7	87.1	100	122	155		16.2		
120				○				81°	85°	89°	48.2	61.6	86.0	104	120	146	186	16.6			
150				○				81°	85°	89°	60.3	77.0	107	131	150	182	233		18.0		
200					○			81°	85°	89°	80.3	103	143	174	200	243	311	1400		22.5	
250					○			81°	85°	89°	100	128	179	218	250	304	388		24.3		
300						○		81°	85°	89°	121	154	215	261	300	365	466	1500		28.8	
400						○		81°	85°	89°	161	205	287	348	400	486	621		30.6		
500							○	81°	85°	89°	201	257	358	435	500	608	777	1800		36.9	
600							○	81°	85°	89°	241	308	430	522	600	729	932		39.6		

How to order


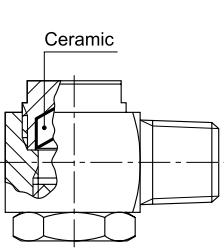

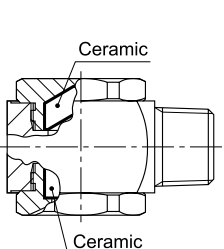
Please inquire or order for a specific nozzle using this coding system.

<Example>...1½M AP 14 AL92

1½M	AP	14	AL92
Pipe Conn. Size		Spray Capacity Code	
■ 1½M		■ 14	
■ ¾M		}	
■ 1M		■ 600	
■ 1½M			
■ 2M			
■ 2½M			
■ 3M			

Related Products

Hollow cone spray nozzles are superior in atomizing performance. On the other hand, the wear at the bottom of the nozzle is increased by an air core generated inside the nozzle. For spraying slurry, wear resistance of nozzles must be considered. For such applications, AP hollow cone spray nozzles with highly wear-resistant ceramics are available.

Series	Appearance	Structure	Features	Applications
AP			Hollow cone spray nozzle with ceramic bottom.	Spraying slurry
AP (with ceramic orifice inserted)			Hollow cone spray nozzle with ceramic bottom and ceramic orifice.	Spraying slurry