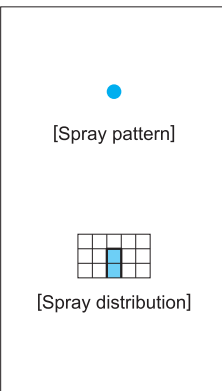
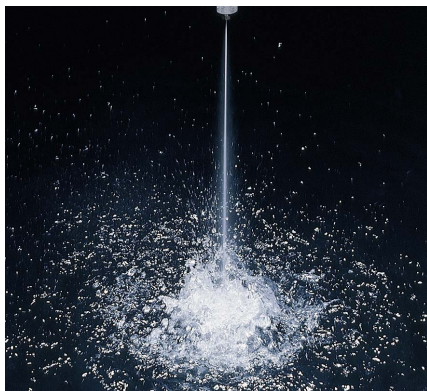


Convex Round Inlet Solid Stream Jet

CCRP / CRP(AL99)



[Features]

- Convex round inlet protrudes inside the pipe to prevent particles from flowing into the nozzle, reducing clogging.
- CRP (AL99) series features high-purity alumina orifice providing stable performance with longer life.
- Short water path design enables easy and thorough brush-cleaning.

[Standard Pressure]

2 MPa

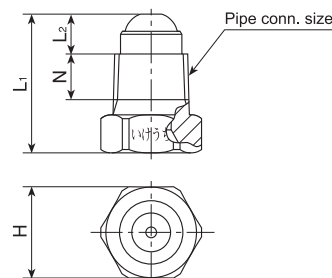
[Applications]

Cleaning: Wire and felt parts of paper making machines, machinery, parts, vehicles, returnable containers, bottles

CCRP series

CCRP series (All metal)					
Structure	● Made of metal, one-piece structure.				
Material	● S303				
Pipe conn. size	Dimensions (mm)				Mass (g)
	L ₁	L ₂	H	N	
1/8M	18.5	5.5	12	6	8.5
1/4M	22.5	7	14	7.5	17

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

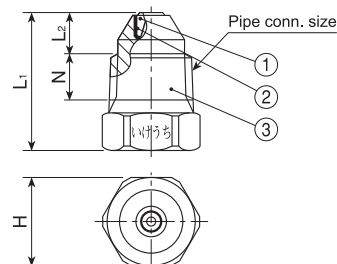


CRP (AL99) series

CRP (AL99) series (with high-purity alumina orifice inserted)	
Structure	● One-piece structure with high-purity alumina orifice inserted. ● Convex round inlet protrudes into the pipe.
Material	● Spray orifice: 99% alumina ● Metal parts: S303

Pipe conn. size	Dimensions (mm)				Mass (g)
	L ₁	L ₂	H	N	
1/8M	18	5	12	6	7
1/4M	22	6.5	14	7.5	15

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



①99% Alumina orifice ②Adhesive: Araldite® ③Body

Orifice Diameter Code	Pipe Connection Size				Spray Capacity (ℓ/min)					
	CCRP (Metal)		CRP (AL99) (Ceramic orifice inserted)		0.3 MPa	0.5 MPa	0.7 MPa	1 MPa	2 MPa	3 MPa
	1/8M	1/4M	1/8M	1/4M						
φ 0.5	○	○	○	○	0.20	0.26	0.31	0.37	0.52	0.63
φ 0.6	○	○	○	○	0.29	0.37	0.44	0.53	0.74	0.91
φ 0.7	○	○	○	○	0.39	0.51	0.60	0.72	1.01	1.24
φ 0.8	○	○	○	○	0.51	0.66	0.78	0.94	1.32	1.62
φ 0.9	○	○	○	○	0.65	0.84	0.99	1.18	1.67	2.05
φ 1.0	○	○	○	○	0.80	1.03	1.22	1.46	2.07	2.53
φ 1.1	○	○	○	○	0.97	1.25	1.48	1.77	2.50	3.06
φ 1.2	○	○	○	○	1.15	1.49	1.76	2.10	2.98	3.64
φ 1.3	○	○	○	○	1.35	1.75	2.07	2.47	3.49	4.28
φ 1.4	○	○	○	○	1.57	2.02	2.40	2.86	4.05	4.96
φ 1.5	○	○	○	○	1.80	2.32	2.75	3.29	4.65	5.69
φ 1.7	○	○	○	○	2.31	2.99	3.53	4.22	5.97	7.31
φ 2.0	○	○	○	○	3.20	4.13	4.89	5.84	8.26	10.1

[Note] The above nozzles are manufactured for specific orifice diameters, therefore spray capacity is not guaranteed.

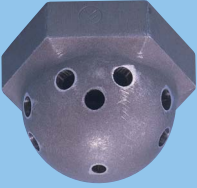
How to order

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

<Example>...1/8MCRPφ0.6S303 (AL99)

1/8M	CRP	φ0.6	S303 (AL99)
Pipe Conn. Size	Series	Orifice Diameter Code	Material
1/8M	CRP	φ0.5	S303 (AL99)···CRP series
1/4M	CCRP	φ2.0	S303···CCRP series

Nozzles for Special Applications

Series	Appearance	Features	Applications
Surface washing nozzles		<ul style="list-style-type: none"> Produces solid stream spray from a hemispheric nozzle body in a radial pattern. 	<ul style="list-style-type: none"> Cleaning sand filter bed at water purification plant.

Others

Effective Use of Solid Stream Jet Nozzles

Tightening Torque

For high-pressure cleaning, the highly wear-resistant CERJET® nozzle with inserted ceramic orifices is most suitable. However, if it is screwed too tight, the nozzle body, especially small ones such as 1/8" size, may be damaged, which results in cracking the ceramic orifice. Please apply the recommended torque. Tightening torque should not exceed the following.

8 N-m for size 1/8M (stainless steel body and brass body)

15 N-m for size 1/4M (stainless steel body and brass body)

Precautions for Nozzle Installation

Avoid installing the nozzle at the immediate downstream of a bent pipe or elbow. Turbulence may affect the nozzle performance.

Nozzle Reaction Force

When spraying water under high pressure, the approximate reaction force is calculated by the following formula.

$$F = 0.073 \cdot Q \cdot \sqrt{P}$$

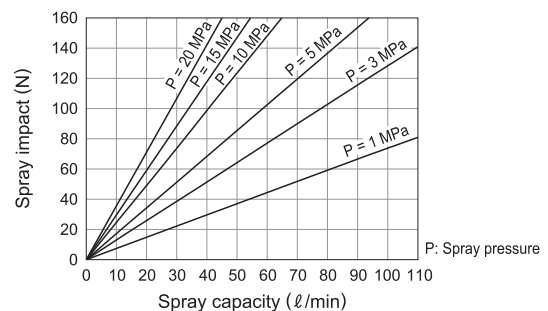
■ F: Reaction force (N)

■ Q: Spray capacity (ℓ/min)

■ P: Spray pressure (MPa)

Spray Impact

Spray impact means the force of spray droplets hitting the target surface. The stronger spray impact the nozzle has, the better cleaning effect it achieves.



Variation in spray impact of solid stream jet nozzles
(Spray distance: 200 mm)