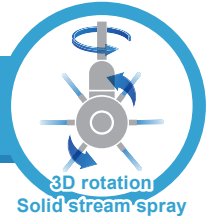
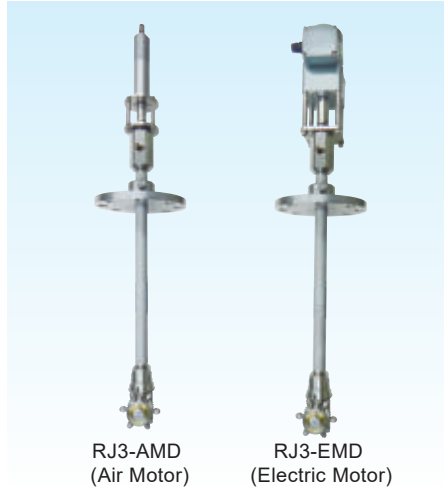


For cleaning hard to remove dirt

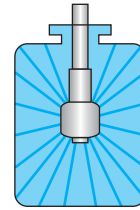
# RJ3-MD SERIES with Air/Electric Motor for Powerful Cleaning



Made-to-Order



## Spray Coverage



360° spray

Cleaning hard to remove dirt

## Features

- 3D rotation solid stream jet powerfully cleans the inside of a tank.
- Stable low-speed rotation with motor maximizes contact time between cleaning surface and cleaning liquid for effective cleaning.
- Models come with two, three, or six nozzles for precision cleaning.
- Heat-resistant up to 80 deg. C (176 deg. F).

## Applications

- Removing tough, sticky and stubborn dirt
- Cleaning of reactor vessels in chemical plants

### Air Motor

Compressed air drives the motor.  
Stainless steel air motor requires no oil to operate.

### Electric Motor

Immediate use and stable rotation anywhere a power supply is available. No adjustment required.

Note: There is no ON/OFF switch on the product. Please control the operation by turning ON/OFF the supply of compressed air or electricity.

## Basic Specifications

<b>Operating Pressure Range</b> 0.3–15 MPa (45–2,170 psi)	<b>Main Material<sup>1</sup></b> S304, SCS14, ABB2 + bronze alloy, UPE (seal), FKM (O-ring)
<b>Number of Nozzles Attached</b> 2, 3, or 6	<b>Approx. Weight (w/o flange)</b> RJ3-AMD (air motor): 11–16 kg RJ3-EMD (electric motor): 14–19 kg
<b>Spray Capacity<sup>2</sup></b> 2 nozzles: 4.2–80.3 L/min 3 nozzles: 6.3–98.0 L/min 6 nozzles: 6.4–103.7 L/min	<b>Compressed Air Pressure (only for RJ3-AMD)</b> 0.3–0.5 MPa (45–70 psi)
<b>Max. Temperature</b> 80°C (176°F)	<b>Air Consumption (only for RJ3-AMD)</b> 100–170 L/min, Normal
<b>Reach Distance of Spray (RADIUS)<sup>3</sup></b> Approx. 1.5–2.5 m	<b>Power Voltage (of RJ3-EMD)</b> 100 VAC
<b>Rotation Speed</b> RJ3-AMD (air motor): 5–10 rpm RJ3-EMD (electric motor): 6 rpm (50 Hz), 7.2 rpm (60 Hz)	<b>Power Consumption (of RJ3-EMD)</b> 40 W
<b>Cleaning Cycle</b> RJ3-AMD (air motor): 7.4–3.7 min RJ3-EMD (electric motor): 6.2 min (50 Hz), 5.2 min (60 Hz)	

▼ Watch rotating & spraying nozzle on YouTube



IKEUCHI RJ3-MD

<sup>1</sup>In the material code, "S" represents "stainless steel". SCS14 is cast stainless steel equivalent to S316.

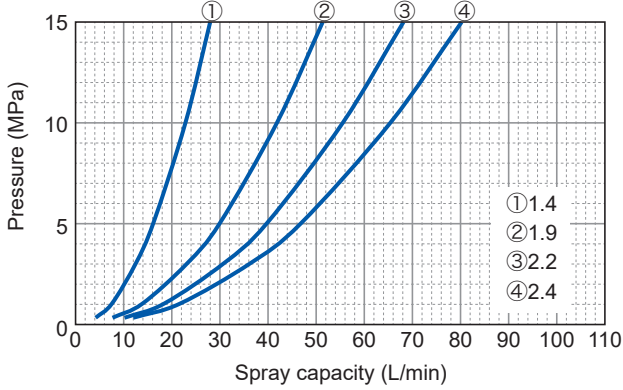
<sup>2</sup>Spray flow rate in the above operating pressure range is for reference only. See the flow-rate diagram and chart for more details.

<sup>3</sup>Spray reach distance varies depending on the number of nozzles attached and the nozzle orifice diameter. Contact us for details.

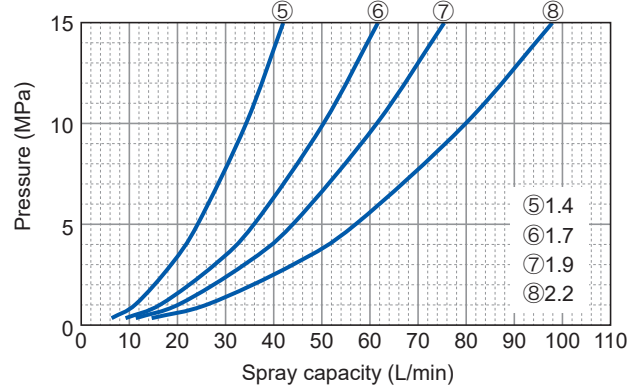
# RJ3-MD SERIES with Air/Electric Motor for Powerful Cleaning

## Flow-rate Diagram ① to ⑫ indicate the nozzle orifice diameters.

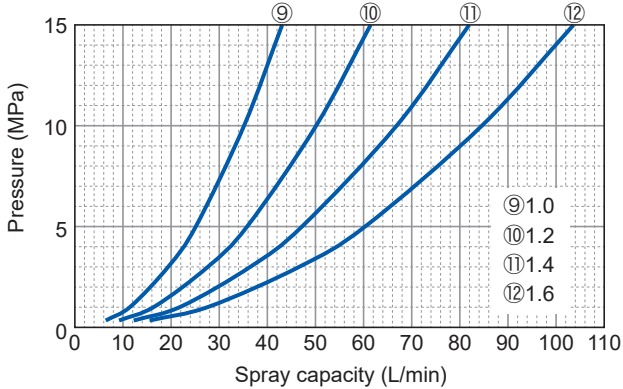
■ RJ3-AMD/EMD-2 (with 2 nozzles)



■ RJ3-AMD/EMD-3 (with 3 nozzles)



■ RJ3-AMD/EMD-6 (with 6 nozzles)



## Flow-rate Chart

Number of nozzles attached	Nozzle orifice diameter (mm)	Spray capacity (L/min) [for reference only]					
		0.3 MPa	1 MPa	3 MPa	5 MPa	10 MPa	15 MPa
2	1.4	4.2	7.6	12.5	16.2	22.9	28.0
	1.9	7.7	13.9	23.2	30.0	41.9	51.4
	2.2	10.2	18.4	30.8	39.8	55.6	68.2
	2.4	12.0	21.7	36.3	46.9	65.5	80.3
3	1.4	6.3	11.3	18.8	24.2	34.3	42.0
	1.7	9.2	16.6	27.9	36.0	50.4	61.7
	1.9	11.3	20.4	34.1	44.1	61.5	75.5
	2.2	14.6	26.4	44.3	57.2	80.0	98.0
6	1.0	6.4	11.6	19.5	25.2	35.2	43.1
	1.2	9.2	16.6	27.8	35.9	50.2	61.5
	1.4	12.2	22.1	36.7	47.3	67.0	82.0
	1.6	15.5	28.0	46.9	60.5	84.7	103.7

Cleaning hard to remove dirt

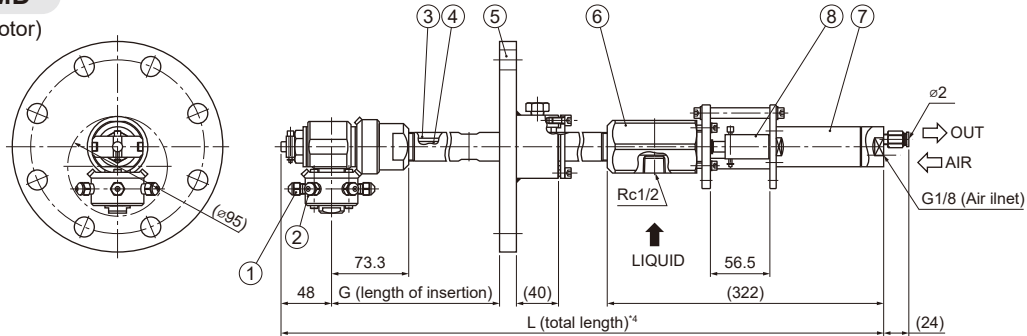
# RJ3-MD SERIES with Air/Electric Motor for Powerful Cleaning

## Drawing

### RJ3-AMD

(with Air Motor)

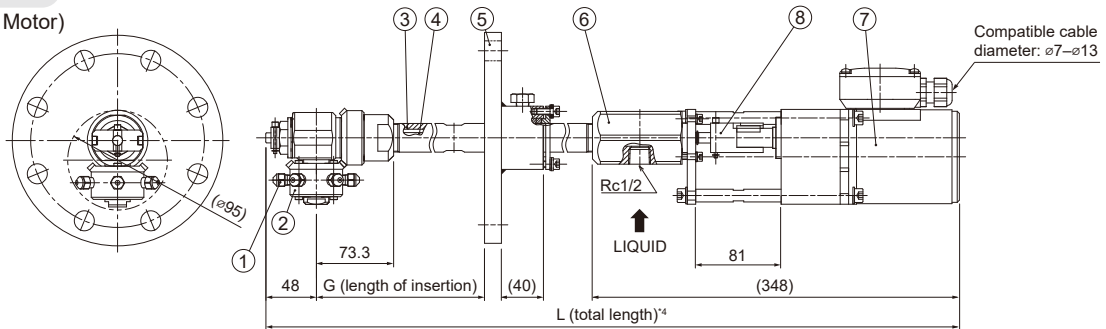
Unit: mm



- ① Nozzle ② Nozzle header ③ Pipe (3/4B x Sch160 equiv.) ④ Rotating shaft ⑤ Flange  
⑥ Adaptor for high-pressure water supply ⑦ Air motor ⑧ Motor coupling adaptor

### RJ3-EMD

(with Electric Motor)



- ① Nozzle ② Nozzle header ③ Pipe (3/4B x Sch160 equiv.) ④ Rotating shaft ⑤ Flange  
⑥ Adaptor for high-pressure water supply ⑦ Electric motor ⑧ Motor coupling adaptor

### ■ Dimensions and weight

Length type	Outer dimensions (mm)		Diameter required for insertion (mm)	Approx. weight (kg) w/o flange
	L (total length) <sup>*4</sup>	G (length of insertion)		
A	AMD	870	95	11
	EMD	896		14
B	AMD	1370	95	13
	EMD	1396		16
C	AMD	1870	95	15
	EMD	1896		18
D	AMD	2170	95	16
	EMD	2196		19

Note:  
A diameter of more than 95 mm is needed to insert the nozzle unit.

<sup>\*4</sup> The total length L differs for each motor. Select from the above A to D.

## HOW TO ORDER

To inquire about or order a specific product please refer to this coding system.

Example: RJ3-AMD 6 - ø1.4 - 4T5 × B - BF E\*\*\* S304

RJ3 - AMD 6 - ø1.4 - 4T5 × B - BF E\*\*\* S304

Motor Type <sup>5</sup>	Number of Nozzles <sup>6</sup>	Nozzle Orifice Diameter <sup>6</sup>	Total Length <sup>4</sup>	Buffing <sup>7</sup>	Spec. Registration No. (assigned by us)
■ AMD	■ 2	■ 1.0-2.4	■ A ■ B	■ BF (optional)	
■ EMD	■ 3		■ C ■ D		
	■ 6				

<sup>5</sup> Indicate "AMD" for air motor, or "EMD" for electric motor.

<sup>6</sup> Refer to the chart on p. 23 for available combinations of the number of nozzles and orifice diameters.

<sup>7</sup> Buffing is optional, available for extra charge. Leave blank if buffing is not necessary.

Cleaning hard to remove dirt