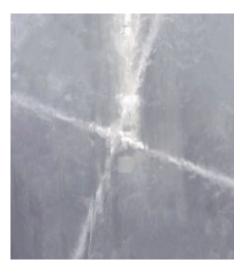
RJ SERIES / ROTARY JETTER / Powerful 3D Rotational Cleaning









Features

- Powerful 3D rotational solid stream jet cleans the inside of tanks.
- No external power is needed as rotation is driven solely by the flow of the cleaning liquid.
- Heat-resistant up to 80 deg. C (176 deg. F).*3
- Compact design allows for easy installation even if the inlet is small.
- Insertion and removal is easy since the rotating nozzle is not locked into place.
- The RJ3-2L is equipped with two nozzles, and the RJ3-4L with four nozzles.
- A customized option: The submerged type can be left in place during the normal operational use of the tank without affecting its performance during cleaning. For more details, please contact us.

Applications

- Removing tough, sticky and stubborn dirt
- Cleaning of food and beverage tanks
- Cleaning inside the chests (material tanks of paper making), etc.

▼Watch rotating & spraying nozzle on YouTube

Basic Specifications

Operating Pressure Range

1/2F RJ3-2L: 0.2–1.0 MPa (30–145 psi) 1F RJ3-2L: 0.3–1.0 MPa (45–145 psi) 1*1/2F RJ3-2L/4L: 0.3–0.8 MPa (45–115 psi)

Spray Capacity*2 25.6–246 L/min

Reach Distance of Spray (RADIUS)

1/2F RJ3-2L: about 7 m 1F RJ3-2L: about 9 m

1*1/2F RJ3-2L-∅7 or ∅8: about 10 m 1*1/2F RJ3-2L-∅9: about 12 m 1*1/2F RJ3-4L: about 9 m

Max. Temperature*3 80°C (176°F)

Main Material*1

1/2F&1F RJ: S304, SCS14, UPE, PTFE, PEEK 1*1/2F RJ: S304, SCS13, UPE, PTFE, PEEK

Weight

1/2F RJ3-2L: 0.62 kg 1F RJ3-2L: 1.9 kg 1*1/2F RJ3-2L: 2.7 kg 1*1/2F RJ3-4L: 2.8 kg

Rotation Speed N/A

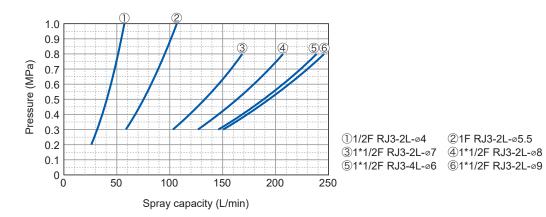
Outer Surface Finish
#320 buffing is optional and available upon
request for an additional charge.

¹ In the material code, "S" represents "stainless steel". SCS13 is cast stainless steel equivalent to S304. SCS14 is cast stainless steel equivalent to S316.

²² Spray flow rate in the above operating pressure range is for reference only. See the flow-rate diagram and chart for more details.

^{*3} A heat-resistant type, suitable for use over 80°C, is also available as a custom-made option. Please contact us for more details.

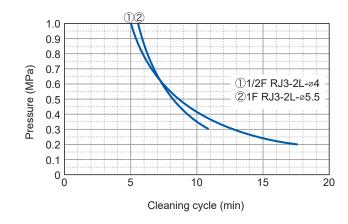
Flow-rate Diagram

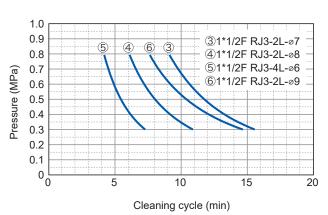


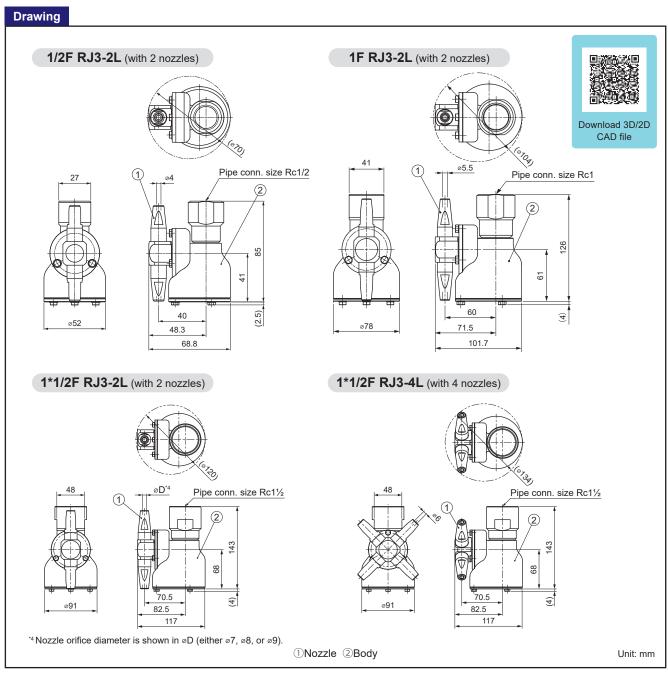
Flow-rate Chart

Model No. (RJ3-)	Nozzle orifice diameter (mm)	e conn.	Spray capacity (L/min) [for reference only]								
			0.2 MPa	0.3 MPa	0.4 MPa	0.5 MPa	0.6 MPa	0.7 MPa	0.8 MPa	0.9 MPa	1.0 MPa
2L-∅4	4	Rc1/2	25.6	31.4	36.2	40.5	44.4	47.9	51.2	54.3	57.3
2L-⊘5.5	5.5	Rc1	_	58.3	67.3	75.3	82.4	89.1	95.2	101	106.4
2L-⊘7	7	Rc1½	_	103	119	133	146	158	169	_	_
2L-∅8	8	Rc1½	_	127	146	164	179	194	207	_	_
4L-∅6	6	Rc1½	_	146	169	189	207	223	239	_	_
2L-ø9	9	Rc1½		151	174	194	213	230	246	_	_

Pressure and Cleaning Cycle







HOW TO ORDER To inquire about or order a specific product please refer to this coding system. Example: 1*1/2F RJ 3-2L- Ø7 1*1/2F RJ 3 -2L ø**7** Pipe Conn. Number of Nozzle Orifice Size*5 Nozzles Attached Diameter ■1/2F ■04 ■05.5 ■2L (with 2 nozzles) ■1F **■**Ø6 **■**ø7 ■4L (with 4 nozzles) ■1*1/2F **■**Ø8 **■**Ø9 *5 "F" indicates female tapered pipe thread ("Rc" of the ISO standard), e.g. 1/2F = Rc1/2.

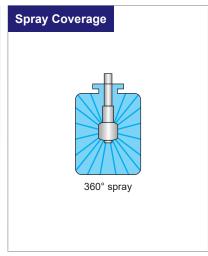
RJ3-MD SERIES with Air/Electric Motor for Powerful Cleaning



Made-to-Order







· Removing tough, sticky and

Cleaning of reactor vessels in

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).

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.

Applications

stubborn dirt

chemical plants

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

- Operating Pressure Range 0.3–15 MPa (45–2,170 psi)
- Number of Nozzles Attached 2, 3, or 6
- Spray Capacity*2

2 nozzles: 4.2–80.3 L/min 3 nozzles: 6.3–98.0 L/min 6 nozzles: 6.4–103.7 L/min

- Max. Temperature 80°C (176°F)
- Reach Distance of Spray (RADIUS)³ Approx. 1.5–2.5 m
- Rotation Speed
 RJ3-AMD (air motor): 5–10 rpm
 RJ3-EMD (electric motor): 6 rpm (50 Hz), 7.2 rpm (60 Hz)
- Cleaning Cycle

RJ3-AMD (air motor): 7.4-3.7 min

RJ3-EMD (electric motor): 6.2 min (50 Hz), 5.2 min (60 Hz)

- Main Material¹¹
 S304, SCS14, ABB2 + bronze alloy, UPE (seal),
 FKM (O-ring)
- Approx. Weight (w/o flange)
 RJ3-AMD (air motor): 11–16 kg
 RJ3-EMD (electric motor): 14–19 kg
- Compressed Air Pressure (only for RJ3-AMD) 0.3–0.5 MPa (45–70 psi)
- Air Consumption (only for RJ3-AMD) 100–170 L/min, Normal
- Power Voltage (of RJ3-EMD) 100 VAC
- Power Consumption (of RJ3-EMD) 40 W



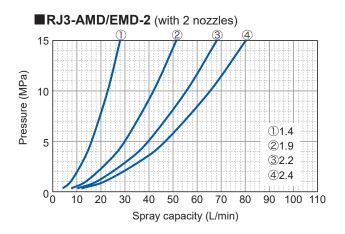
¹ In the material code, "S" represents "stainless steel". SCS14 is cast stainless steel equivalent to S316.

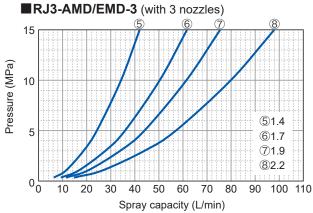
^{*2} Spray flow rate in the above operating pressure range is for reference only. See the flow-rate diagram and chart for more details.

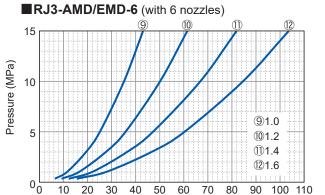
^{*3} Spray reach distance varies depending on the number of nozzles attached and the nozzle orifice diameter. Contact us for details.

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

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





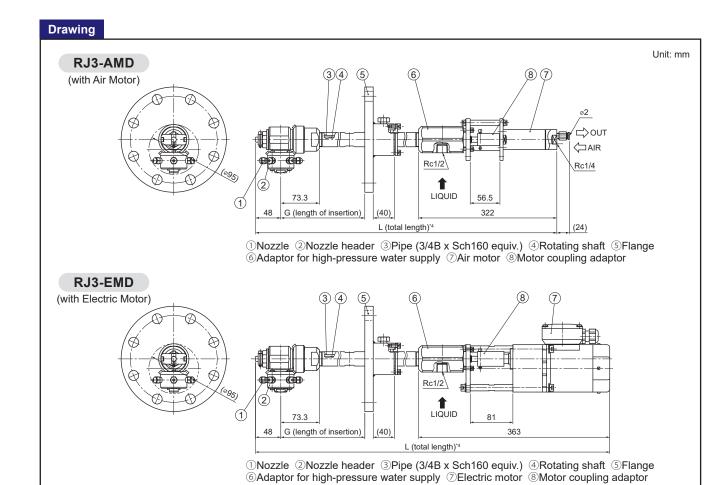


Spray capacity (L/min)

Flow-rate Chart

Number of nozzles attached	Nozzle orifice	Spray capacity (L/min) [for reference only]							
	diameter (mm)	0.3 MPa	1 MPa	3 MPa	5 MPa	10 MPa	15 MPa		
	1.4	4.2	7.6	12.5	16.2	22.9	28.0		
0	1.9	7.7	13.9	23.2	30.0	41.9	51.4		
2	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		
	1.4	6.3	11.3	18.8	24.2	34.3	42.0		
0	1.7	9.2	16.6	27.9	36.0	50.4	61.7		
3	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		
	1.0	6.4	11.6	19.5	25.2	35.2	43.1		
6	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		

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



■Dimensions and weight

Length type		Outer dir	mensions (mm)	Diameter required	Approx. weight (kg) w/o flange				
	L (total l	ength)*4	G (length of insertion)	for insertion (mm)					
Α	AMD	870	150–380	95	11				
A	EMD	911	150–360	95	14				
В	AMD	1370	150–880	95	13				
ь	EMD	1411	130-660	95	16				
С	AMD	1870	150–1380	95	15				
C	EMD	1911	130-1360	95	18				
D	AMD	2170	150–1680	95	16				
	EMD	2211	150-1660	95	19				
*4 The total	¹⁴ The total length L differs for each motor. Select from the above A to D.								

Note:

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

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

Example: N33-AMD 0 - Ø1.4 - 413 ^ B - BF E										
RJ3 -	AMD	6	- ∅1.4	- 4T5 ×	В	-	BF	E***	S304	
	Motor Type ^{*5}	Number of Nozzles	Nozzle Orifice Diameter		Total Length*4		Buffing*6	Spec. Registration No.*7		
	■AMD ■EMD	■2 ■3 ■6	■1.0–2.4 (See the chart on page 23)		■A ■B ■C ■D		■BF (optional)			
		, and the second		¹5 Indicate "AMD" for air motor, or "EMD" for electric motor. ¹6 Buffing is optional, available for extra charge, Leave blank if buffing is not neces						

Buffing is optional, available for extra charge. Leave blank if buffing is not necessary.