



Automatic cleaning

· Just install JA in a tank and supply water, JA starts cleaning the inside of the tank.

Simple structure, Compact design

- · Simple structure, without turbine or reduction gears.
- Stable cleaning performance.
- · Compact and lightweight, max. diameter (arm length) is 240mm. Weighs less than 2kg.

2 ranges of cleaning pressures

· Available in low-pressure specification (cleaning with spray flow at 0.3-1.2MPa pressures) or medium-pressure specification (1-3MPa).

No external power needed

· Because rotation is driven solely by the spray reaction force, installation is easy and equipment costs can be cut.

No "waste" water

· All supplied water is used as driving force and cleaning water. Minimal energy loss.

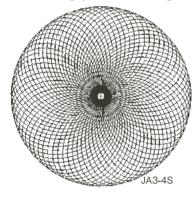
Easy nozzle replacement

· If they become worn or damaged, nozzles can be replaced easily by screwing them.



CLEANING PATTERN

Cleaning pattern image



3-dimensional precision cleaning is possible as both the body and arm rotate separately.

More concentrated cleaning is achieved with the JA3-4S type, which has 4 nozzles.

*The JA3-4S type with 4 nozzles only available as medium-pressure type.



MAIN APPLICATIONS AND EXAMPLE USES

[Food industry]

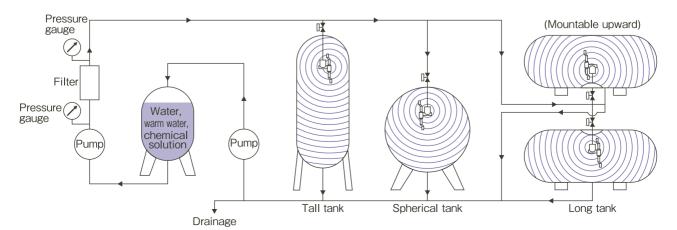
Brew tanks, fermentation tanks, distillation tanks, storage tanks, transport containers, and various other tanks

[Chemical/pharmaceutical industry]

Fermentation tanks, storage tanks, reaction tanks, transfer containers, mixing tanks, chemical tanks

(Other industries)

Paper making, spinning, oil refinery, ocean vessels, ironmaking, and more

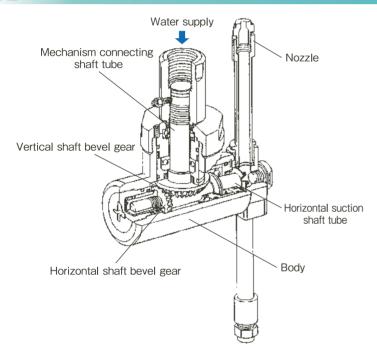








STRUCTURE AND DRIVE



[Drive principle]

1 Supply water



2 Water is sprayed from nozzles



③ Arm rotates by spraying reaction force



4 Horizontal suction shaft tube rotates



⑤ Mechanism connecting shaft tube rotates by bevel gears of vertical and horizontal shafts



6 Body rotates

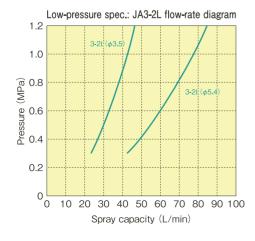


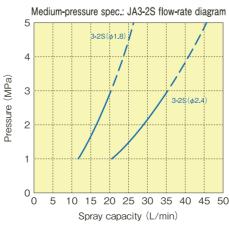
SPRAY CAPACITY

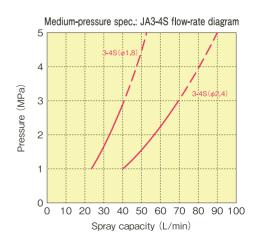
Spraying pressure and flow rate should be set according to your application and purpose.

Available in [JA with 2 nozzles] type or [JA with 4 nozzles] type, each in 2 kinds of nozzle orifice diameters. Medium-pressure specification JA is recommended for use at 1MPa - 3MPa.

At water pressures higher than this range, rotation speeds become too high and spray gets scattered about.



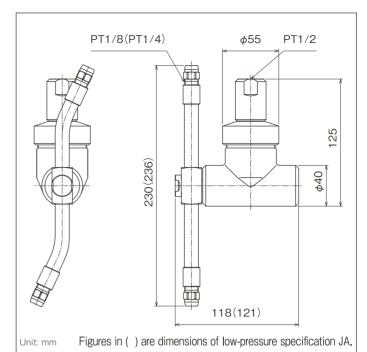






Pressure specifications	Low pressure type	Medium pressure type	
Series	JA3-2L(φ★★)	JA3-2S(φ ★ ★)	JA3-4S(φ★★)
Nozzle orifice diameter (mm)	φ3.5, φ5.4	φ1.8, φ2.4	
Number of nozzles equipped	2	2 4	
Maximum pressure (MPa)	6	15	
Allowable temperature (°C)		4~60	
Recommended working pressure (MPa)	0.3~1.2	1~3	
Spray capacity (L/min)	24~82	12~36	24~70
Pipe connection size	1/2" female pipe thread [1/2F(PT)]		
Nozzle thread size	1/4M(PT)	1/8" male pipe thread [1/8M(PT)]	
Main materials	SUS304, Special PTFE, NBR, FKM		
Surface finish	300# buffing		
Drive system	Driven by spray reaction force		
Mass of body (kg)	1.7	1.6	1.95

Note: Specifications are subject to change without prior notice for purposes of product improvement.



*JA3-4S is equipped with 4 nozzles. (Low-pressure type has only 2 nozzles)



HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system, referring to the above SPECIFICATIONS.

(Example) Low-pressure spec.: 1/2F JA $3-2L(\phi 3.5)$ S304 (Example) Medium-pressure spec.: 1/2F JA 3-2S(φ1.8) S304 Number of Number of Pipe Nozzle Pipe Nozzle connection nozzles orifice Main connection orifice Main nozzles Series diameter Series diameter material size material size equipped equipped 1/2F JA 3φ3.5 S304 1/2F JA 3-S304 $\phi 1.8$ $\phi 3.5$ φ1.8 ϕ 5.4 $\phi 2.4$

*We will be pleased to recommend the optimal nozzle orifice size if given supply pressure and supplied water amount.



Low-pressure, compact rotating cleaning nozzles

- ES series -

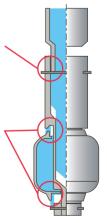
RELATED PRODUCTS

Also available is low pressure compact 2D rotating cleaning nozzles "ES series"





- ES-[type P] series is highly sanitary, having no threads in the flow passage, thus, no grooves to collect contaminants.
- Spraying liquid flows from the gaps between the connecting adaptor and nozzle body, and keeps the nozzle surface clean. (Common to both ES [type P] and [type N])



For inquiries / information requests / quotations related this product, please contact us



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'Taking the path less traveled''」 「人の足跡を踏むな」

