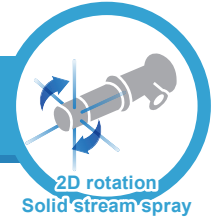


For duct cleaning

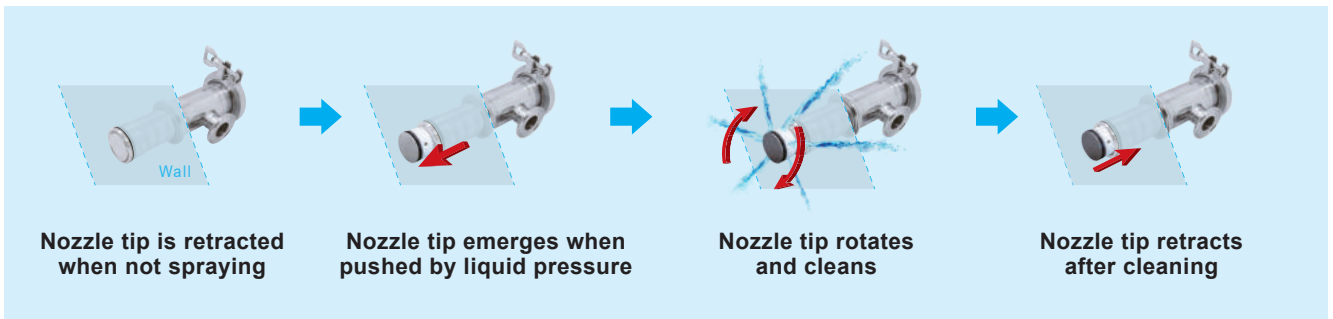
RJ2-PON SERIES / Pressure-open Nozzle with Self-retracting Tip

▼ Watch rotating & spraying nozzle on YouTube



IKEUCHI RJ2-PON

Duct cleaning

**Features**

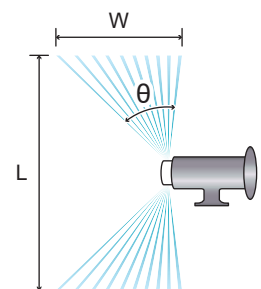
- Pressurized liquid pushes this unique nozzle tip open and it automatically retracts when the liquid pressure stops.
- Powerfully cleans the inside of ducts and tanks.
- Suitable for permanent installation as the nozzle closes flush with the inside surface of the duct or tank when not cleaning.
- Easy to install and remove with ferrule.
- No external power is needed as rotation is driven solely by the flow of the cleaning liquid.

Applications

- Duct cleaning
- Tank cleaning

Basic Specifications

Operating Pressure Range 0.2–0.5 MPa (30–70 psi)	Max. Temperature 80°C (176°F)
Spray Capacity ^{*1} RJ2-PON30: 24.8–37.6 L/min NEW RJ2-PON40: 33.1–50.2 L/min RJ2-PON60: 49.7–75.3 L/min RJ2-PON80: 66.3–100.4 L/min	Material ^{*2, *3} S304, PTFE, FKM, silicon rubber
Reach Distance of Spray (L) 3,500–5,000 mm	Weight RJ2-PON30: 0.75 kg NEW RJ2-PON40/60/80: 1.3 kg
Spreading Angle (θ) 50°	Rotation Speed (Target value for reference only) RJ2-PON30: About 250 rpm NEW RJ2-PON40/60/80: About 170 rpm
Spreading Width (W) 1,600–2,500 mm	Chemical Resistance Weak acid/alkaline 3% or less

Spray Coverage

^{*1} Spray flow rate in the above operating pressure range is for reference only. See the flow-rate diagram and chart for more details.

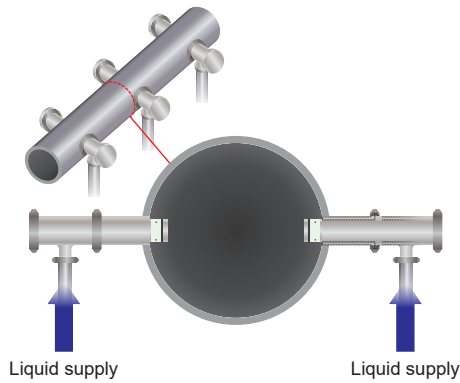
^{*2} In the material code, "S" represents "stainless steel".

^{*3} See the table in the drawing section on page 38.

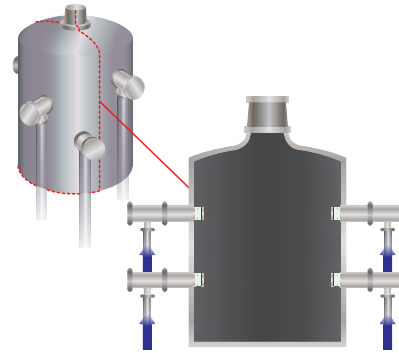
RJ2-PON SERIES / Pressure-open Nozzle with Self-retracting Tip

Example of Use

Duct Cleaning

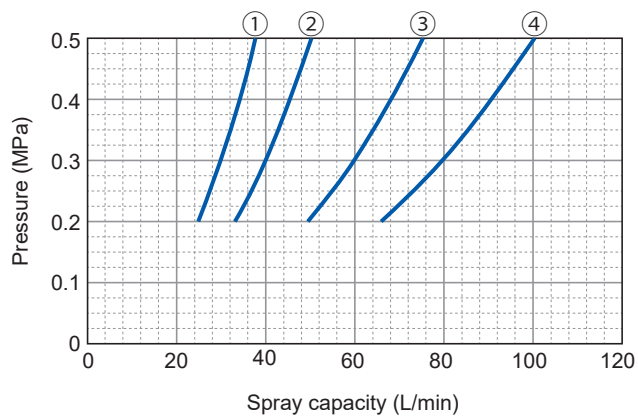


Tank Cleaning



Note: Image shows RJ2-PON nozzles with nozzle tips opened by pressurized cleaning liquid.

Flow-rate Diagram



NEW ①RJ2-PON 30
②RJ2-PON 40
③RJ2-PON 60
④RJ2-PON 80

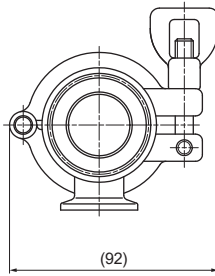
Flow-rate Chart

Spray capacity code	Spray capacity (L/min) [for reference only]						
	0.2 MPa	0.25 MPa	0.3 MPa	0.35 MPa	0.4 MPa	0.45 MPa	0.5 MPa
NEW 30	24.8	27.6	30.0	32.1	34.1	35.9	37.6
40	33.1	36.7	40.0	42.8	45.5	47.9	50.2
60	49.7	55.1	60.0	64.3	68.2	71.8	75.3
80	66.3	73.5	80.0	85.7	90.9	95.8	100.4

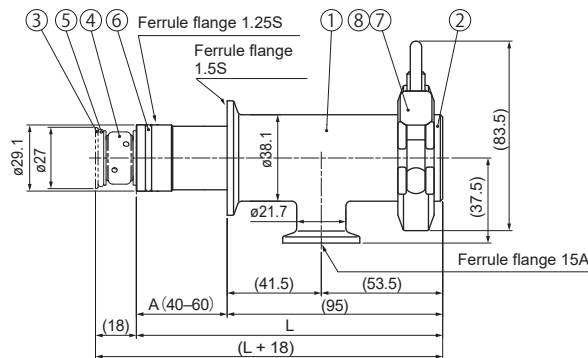
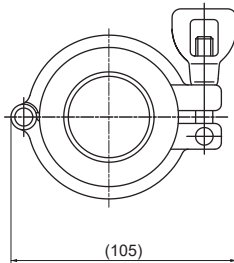
RJ2-PON SERIES / Pressure-open Nozzle with Self-retracting Tip

Drawing

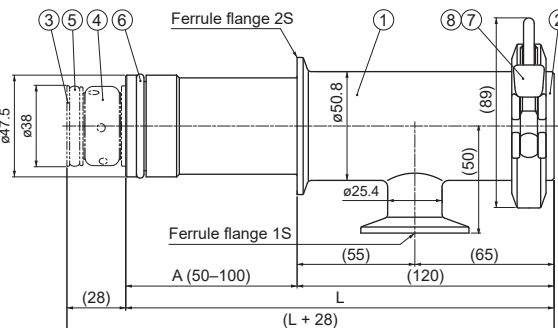
NEW RJ2-PON30



RJ2-PON40
RJ2-PON60
RJ2-PON80



	Components	Material ²
①	Nozzle body	S304
②	Ferrule cap (1.5S)	S304
③	Shaft	S304
④	Nozzle tip (rotating part)	PTFE
⑤	O-ring (P20)	FKM
⑥	O-ring (S26)	FKM
⑦	Ferrule gasket (1.5S)	Silicon rubber
⑧	Clamp (CP2K 1.5S)	S304



	Components	Material ²
①	Nozzle body	S304
②	Ferrule cap (2S)	S304
③	Shaft	S304
④	Nozzle tip (rotating part)	PTFE
⑤	O-ring (P32)	FKM
⑥	O-ring (P41)	FKM
⑦	Ferrule gasket (2S)	Silicon rubber
⑧	Clamp (CP2K 2S)	S304

Note: Short pipe, ferrule flange and clamp which are required for the installation in a tank are to be supplied by customer.

Unit: mm

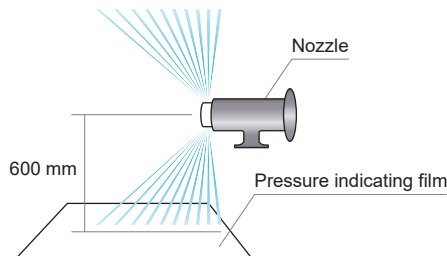
Duct cleaning

Comparison of Spray Impact

Measuring Conditions

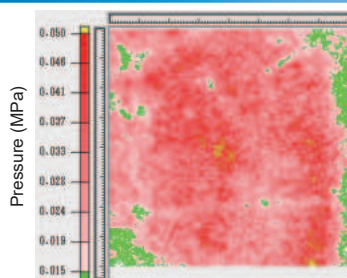
Measuring method	Pressure indicating film ⁴
Distance from nozzle orifice to film	600 mm
Type of pressure indicating film	5LW (ultra extreme low pressure)
Spray pressure	0.3 MPa

⁴A pressure-sensitive sensor film that quickly reveals surface contact distribution and magnitude of pressure on its entire surface. Red patches appear on the film and the color density indicated varies according to the differing contact pressure levels.

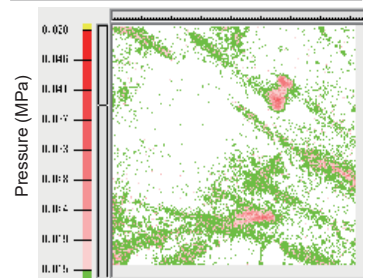


Measurement Results

IKEUCHI's nozzle (RJ2-PON)



Nozzle from another supplier



Compared with a nozzle from another supplier, IKEUCHI's RJ2-PON series provides **higher pressure over the entire surface**, resulting in **higher cleaning power!**

HOW TO ORDER

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

Example: RJ2-PON 80-1S × 80 S304

RJ2-PON 80 - 1S × 80 S304

Spray Capacity
Code

■30¹⁶ ■40
■60 ■80

Inlet
Size

■15A¹⁶
■1S

Insertion
Length (A)¹⁵

■40-60¹⁶
■50-100

¹⁵ See dimension A in drawing.

¹⁶ For RJ2-PON30, the inlet size is 15A, and the selectable insertion length is 40-60 mm.