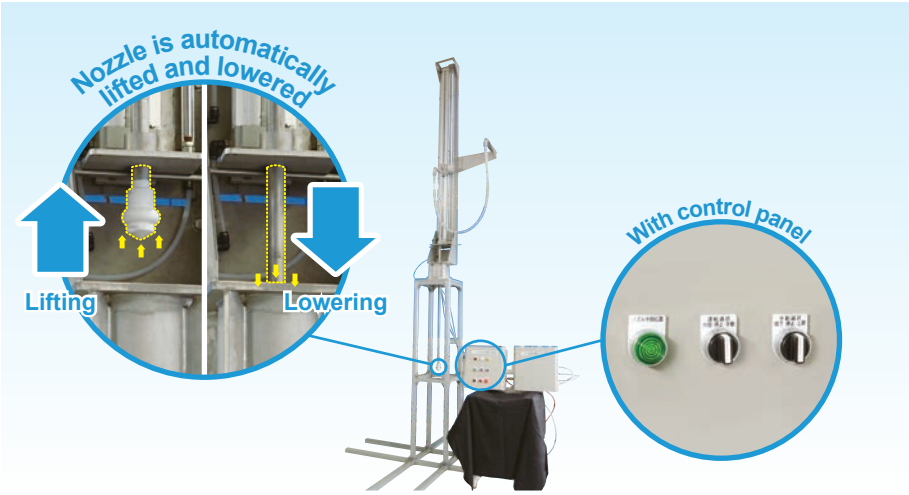
For cleaning tall tanks

Automatic Nozzle Lifting System



Features

- Lifting device able to move up and down a spray nozzle attached on the tip with compressed air.
- The maximum stroke of about 1.7 m allows for cleaning tall tanks.

Unit Components

This system has the following components:

- Lifting device
- Electric control panel
- Spray nozzle (ES or SR series)
- Pneumatic control panel
- Accessories (tubing)
- Isolation valve (optional)

Contact us for more details.

Basic Specifications

Lifting Device

Power Supply Voltage
100–240 VAC

Operating Pressure Range
0.3–0.7 MPa (45–100 psi) for air
0.05–1.0 MPa (8–145 psi) for liquid

Operating Temperature Range
5–50°C (41–122°F)

Weight
Approx. 90 kg[*2]

Main Material[*1]
Liquid contact parts: S304, fluorocarbon resin
The other parts: S304, aluminum

Lift Mechanism

- Driven by compressed air
- Stroke range from 500 mm to about 1,700 mm[*3]
- Lift speed of about 100 mm/s
- Rodless cylinder with brake
- Limit switches to detect the nozzle position

Control Panels

Power Supply Voltage
100–240 VAC (50/60 Hz)

Operating Temperature Range
5–50°C (41–122°F)

Weight
Electric control panel: about 6 kg
Pneumatic control panel: about 5 kg

[*1] In the material code, "S" represents "stainless steel".
[*2] Based on a flange of 100A and cylinder stroke of 1,700 mm. Contact us for other available sizes.
[*3] Stroke length varies depending on the nozzles used with the device.

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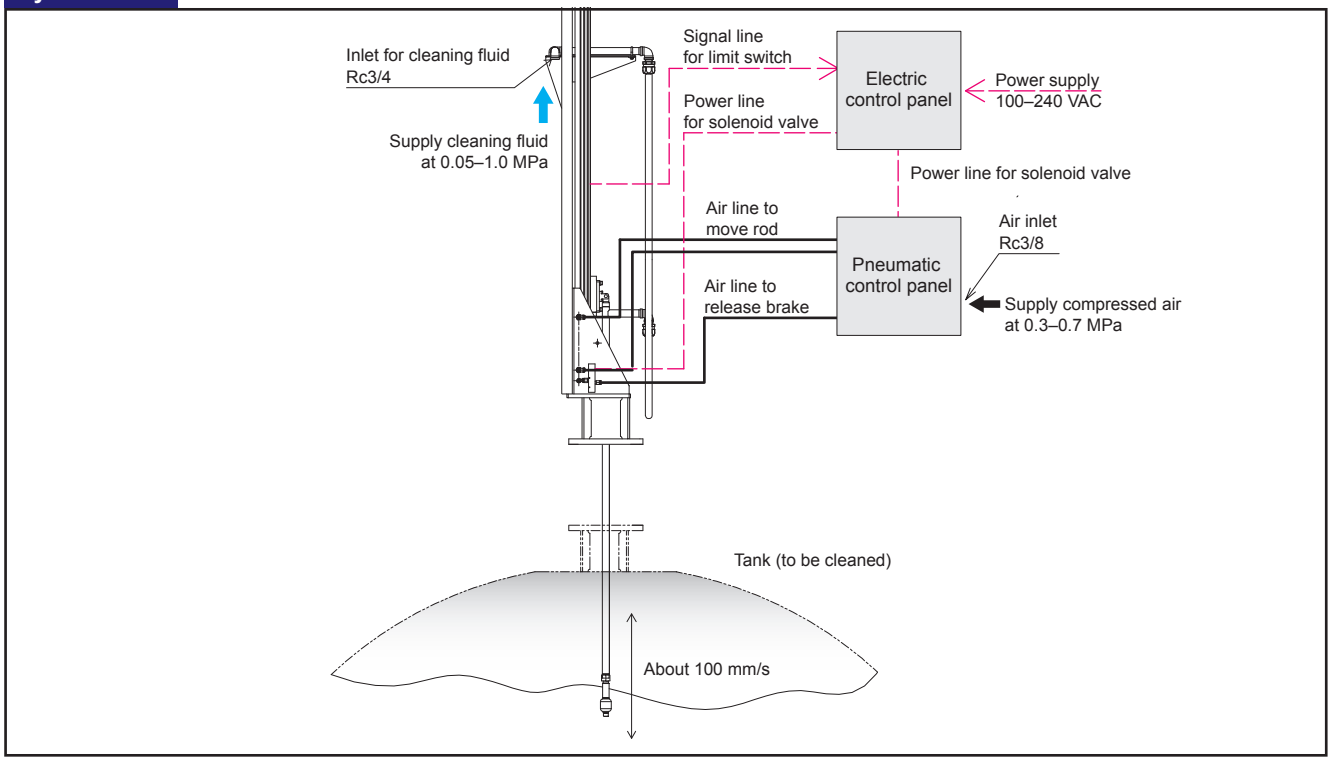
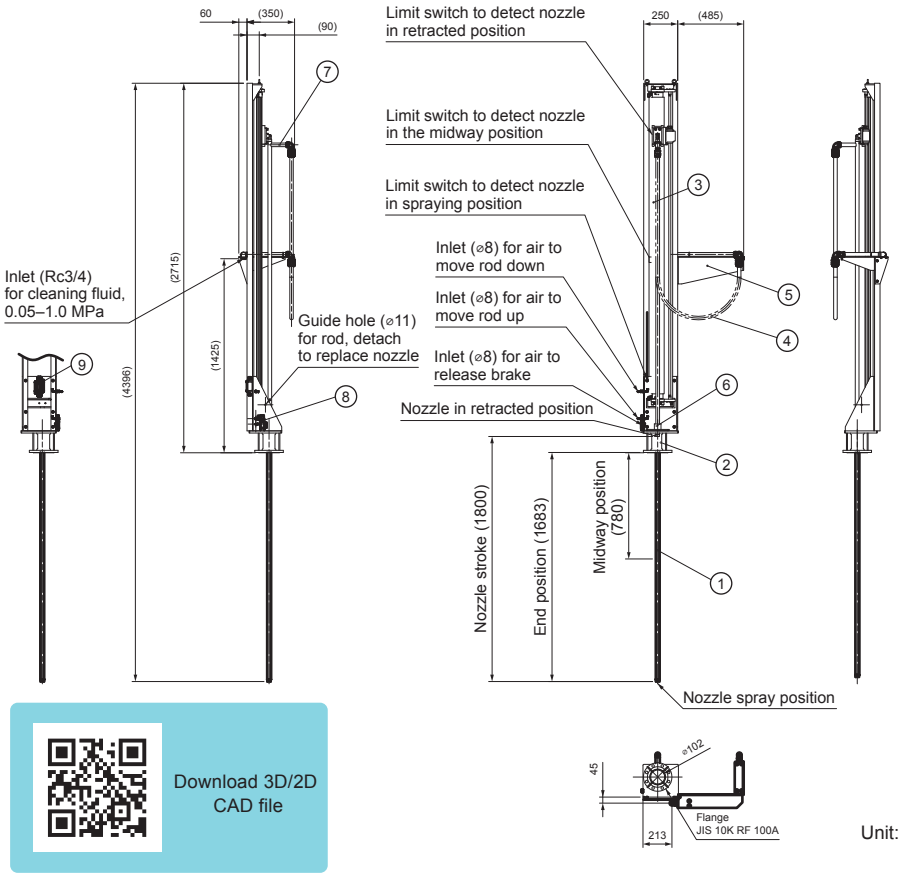
System Flow



Drawing of Lifting Device



	Components	Material*1
①	Rod (20A)	S304 equiv.
②	Flange	S304 equiv.
③	Rodless cylinder	Aluminum, etc.
④	Signal tube	—
⑤	Cylinder mount	S304 equiv.
⑥	Rod guide	MC nylon
⑦	Cleaning fluid pipe (20A)	S304 equiv.
⑧	Solenoid valve (4KA210)	—
⑨	Terminal box	—

Dimensions of Lifting Device
Height (with nozzle retracted):
about 1,500–2,800 mm
Width: about 740 mm
Depth: about 400 mm

Dimensions of Control Panel
400 × 400 × 160 mm
(width × height × depth)

Download 3D/2D CAD file

Unit: mm