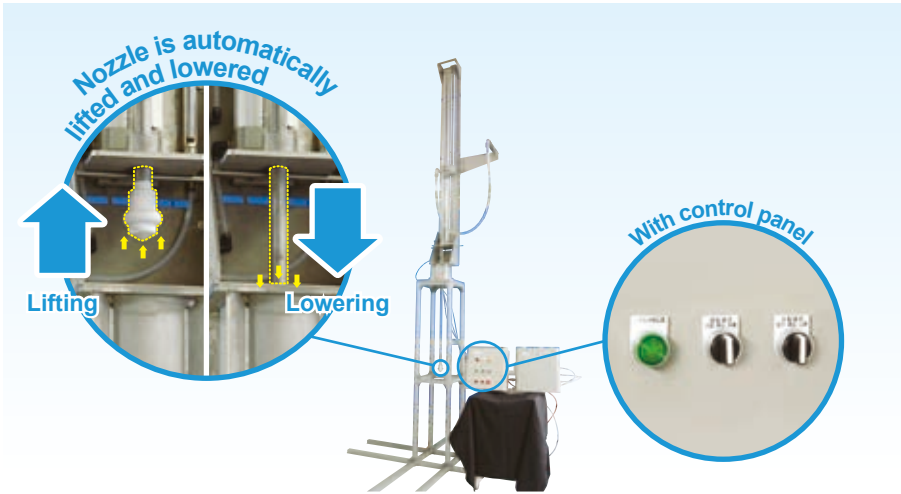


NLD SERIES / Automatic Nozzle Lifting System



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 kg²

Main Material¹

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 mm³
- 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

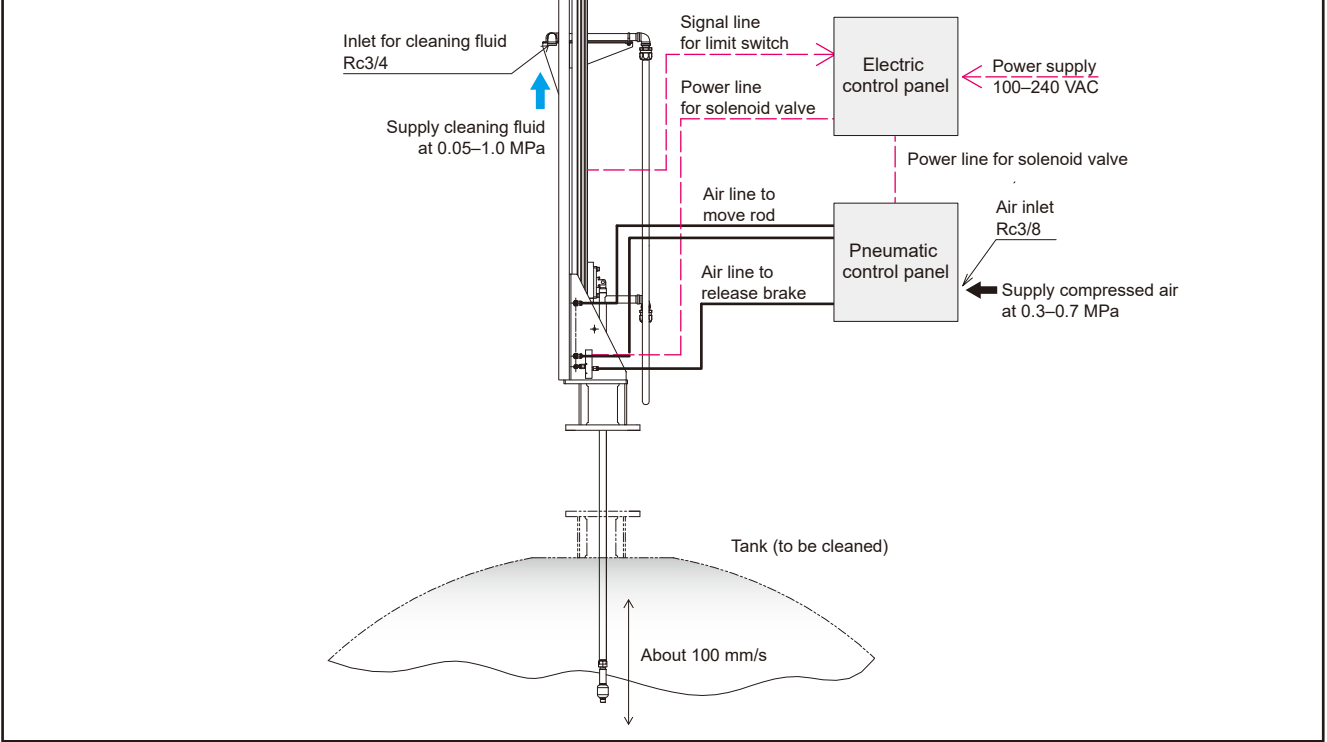
Electric control panel: about 6 kg
Pneumatic control panel: about 5 kg

¹In the material code, "S" represents "stainless steel".

²Based on a flange of 100A and cylinder stroke of 1,700 mm. Contact us for other available sizes.

³Stroke length varies depending on the nozzles used with the device.

System Flow



Drawing of Lifting Device

The drawing shows the lifting device with various components and dimensions. The main drawing includes the following labels and dimensions:

- Limit switch to detect nozzle in retracted position
- Limit switch to detect nozzle in the midway position
- Limit switch to detect nozzle in spraying position
- Inlet (ø8) for air to move rod down
- Inlet (ø8) for air to move rod up
- Inlet (ø8) for air to release brake
- Nozzle in retracted position
- Nozzle stroke (1800)
- End position (1683)
- Midway position (780)
- Nozzle spray position


Dimensions (mm): 60, (350), (90), (27.15), (14.25), (43.98), 250, (485).

Other labels: Inlet (Rc3/4) for cleaning fluid, 0.05–1.0 MPa; Guide hole (ø11) for rod, detach to replace nozzle; Nozzle in retracted position; Nozzle spray position; Flange JIS 10K RF 100A; Unit: mm.

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