

YJ-Nozzle

Micro-Bubble Nozzle



YJ Nozzle product specifications

| Model (weight) | Connector diameter (in.) | Inner diameter (mm) | Pump power usage (kw) | Liquid flow rate (L/min) | Max. Air flow rate (L/min) |
|----------------|--------------------------|---------------------|-----------------------|--------------------------|----------------------------|
| YJ-6.5 (1.6kg) | 3/4 | 6.5 | 0.4 (1/2 HP) | 40 (10 GPM) | 12 (0.4 cfm) |
| YJ-11 (1.6kg) | 1 | 11 | 0.4 (1/2 HP) | 80 (22 GPM) | 28 (1.0 cfm) |
| YJ-15 (4.3kg) | 1 1/2 | 15 | 0.75 (1 HP) | 180 (48 GPM) | 50 (1.8 cfm) |
| YJ-21(7.5kg) | 2 | 21 | 1.5-2.2 (2-3 HP) | 300-400 (80-106 GPM) | 90-100 (3.2-3.5 cfm) |
| YJ-32SP (12kg) | 3/4 | 32 | 3.7 (5 HP) | 750 (200 GPM) | 190 (6.7 cfm) |
| YJ-40 (19kg) | 3 | 40 | 5.5 (7 HP) | 1250 (330 GPM) | 300 (10.6 cfm) |
| YJ-60 (62kg) | 5 | 60 | 11 (14 3/4 HP) | 2600 (690 GPM) | 730 (25.8 cfm) |
| YJ-83 (92kg) | 6 | 83 | 35 (26 1/2HP) | 5000 (1320 GPM) | 1400 (49.5 cfm) |

- The flow rate shown are at 0.1Mpa pressure. Higher capacity pump will increase the rate.
- Standard material is SUS304. SUS316 and PVDF are available upon request.
- YJ-6.5 is formally called YJ-07. The same model and dimensions.
- YJ-11 is formally called YJ-09. The same model and dimensions.
- YJ-60 and 83 are custom products.
- The pressure increase will flow 1.4 times at 0.2Mpa and 1.7 times at 0.3Mpa
- ISO(BSP) threads. NPT threads available upon request.

The price of YJ-series nozzles are from \$3,000 to \$30,000. Please ask for volume discount.

Installation and maintenance

* YJ nozzles can be installed In-line configuration as well as one-end open directly to water body.

Note : See installation examples and pictures.

* With submersible pump, you can also install whole unit inside tanks or water body.

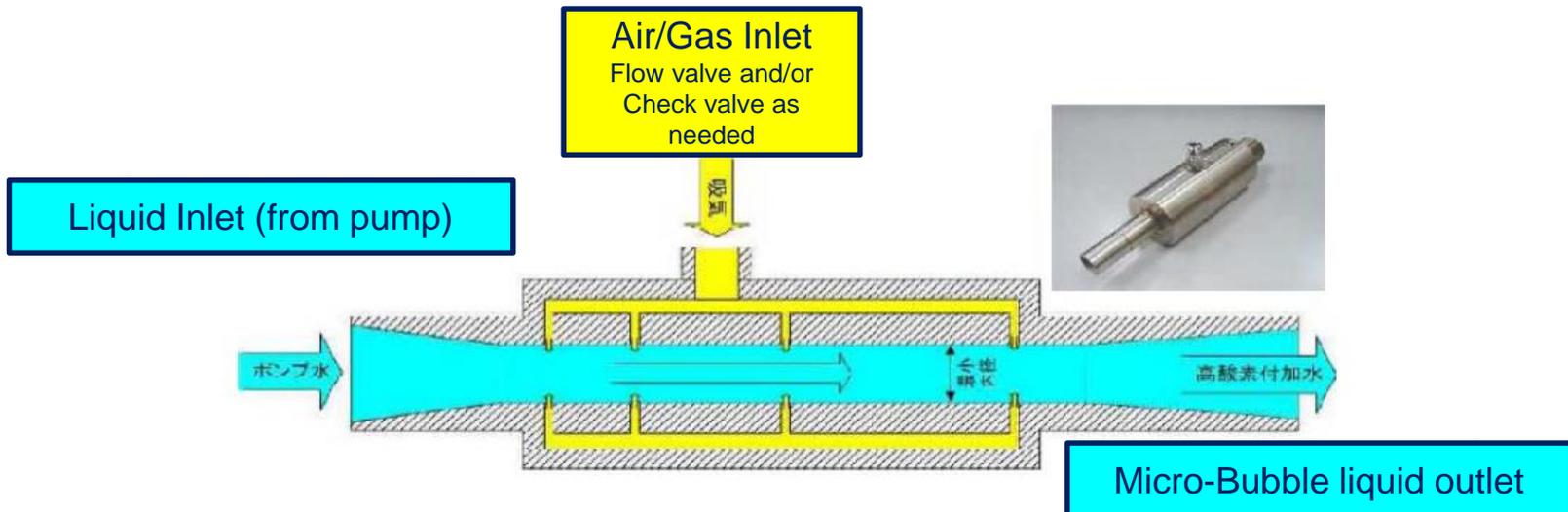
* YJ nozzles are virtually maintenance-free thanks to large aperture size. Inside the nozzle is kept always very clean.

Note : The model number indicate the aperture size in mm.

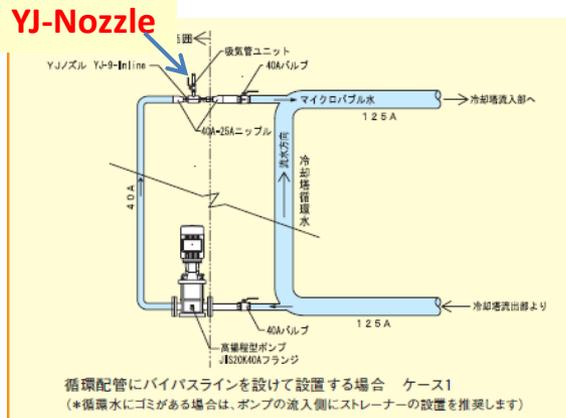
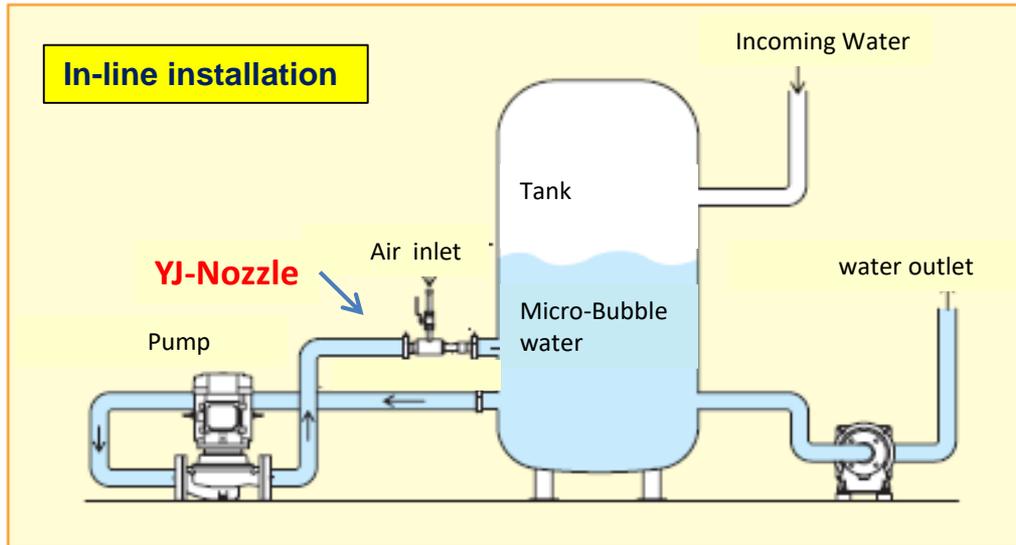


Installation notes

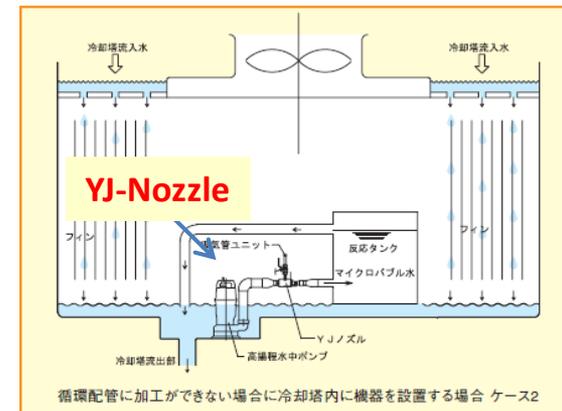
- You need pump having required flow rate at minimum pressure differential of 0.1Mpa (14psi).
- The gas volume against liquid flow is up to 30%.
Adjust the volume to find the most favorable result for your particular application.
Higher pressure and less gas volume for gas dissolution application is recommended.
- The outlet side ideally is to be placed near the tank (no additional pressure loss).
- You need at least 20cm (8") of straight piping in both end of YJ-nozzle to avoid turbulent flow.
- Connection types : One end threaded, Both ends threaded, Flange, Sanitary ferrule.



YJ-Nozzle installation examples



In-line bypassed installation



Submersible installation

Installation Pictures

