YJ-Nozzle

Micro-Bubble Nozzle

YJ Nozzle product specifications

Model (wt)	Connector diameter (in.)	Inner diameter (mm)	Pump power usage (kw)	Liquid flow rate (L/min)	Max. Air flow rate (L/min)
YJ-07 (1.6kg)	3/4	7	0.4 (1/2 HP)	40 (22 GPM)	12 (0.42 cfm)
YJ-9 (1.6kg)	1	9	0.4 (1/2 HP)	80 (22 GPM)	28 (0.99 cfm)
YJ-15 (4.3kg)	1 1/2	15	0.75 (1 HP)	180 (48 GPM)	50 (1.77 cfm)
YJ-21(7.5kg)	2	21	1.5-2.2 (2-3 HP)	300-400 (80-106 GPM)	90-100 (3.18-3.53 cfm)
YJ-32 (12kg)	2 1/2	32	3.7 (5 HP)	750 (200 GPM)	190 (6.71 cfm)
YJ-40 (19kg)	3	40	5.5 (7 HP)	1250 (330 GPM)	300 (10.59 cfm)
YJ-60 (62kg)	5	60	11 (14 3/4 HP)	2600 (690 GPM)	730 (25.78 cfm)

- The flow rate shown are at 0.15Mpa pressure. Higher capacity pump will increase the rate.
- Standard material is SUS304. Various materials are available upon request.

The price of YJ-series nozzles are from $5,000 to $45,000. 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.

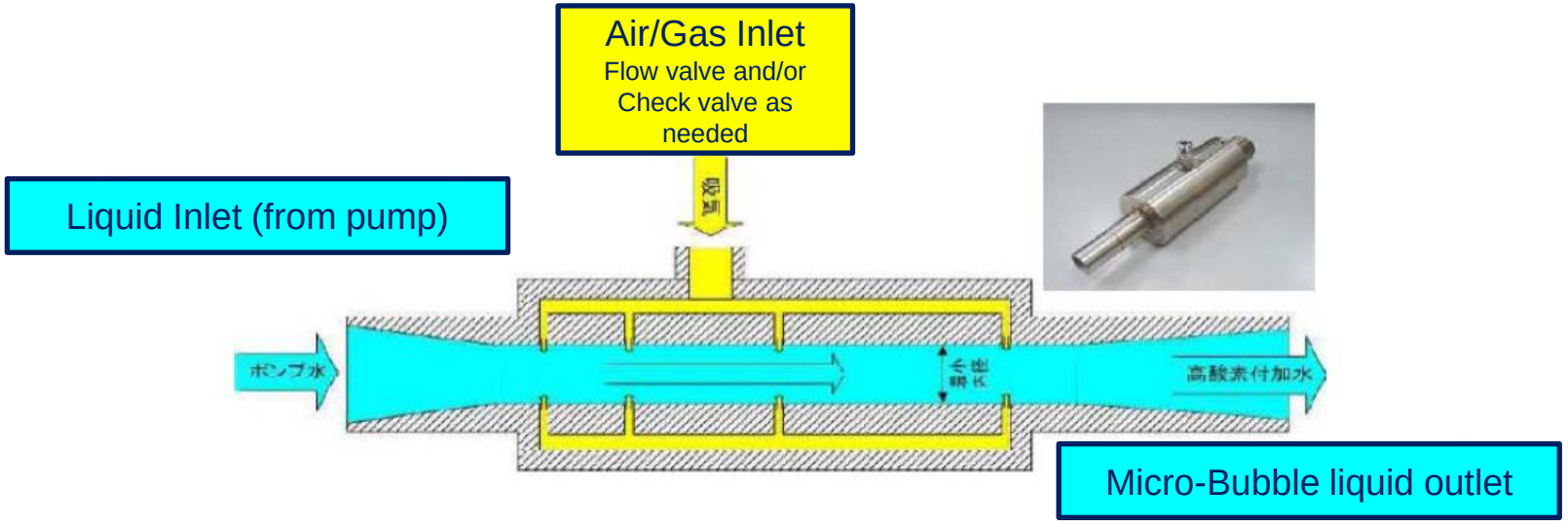
* With submersible pump, you can also install whole unit inside tanks or water body.

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

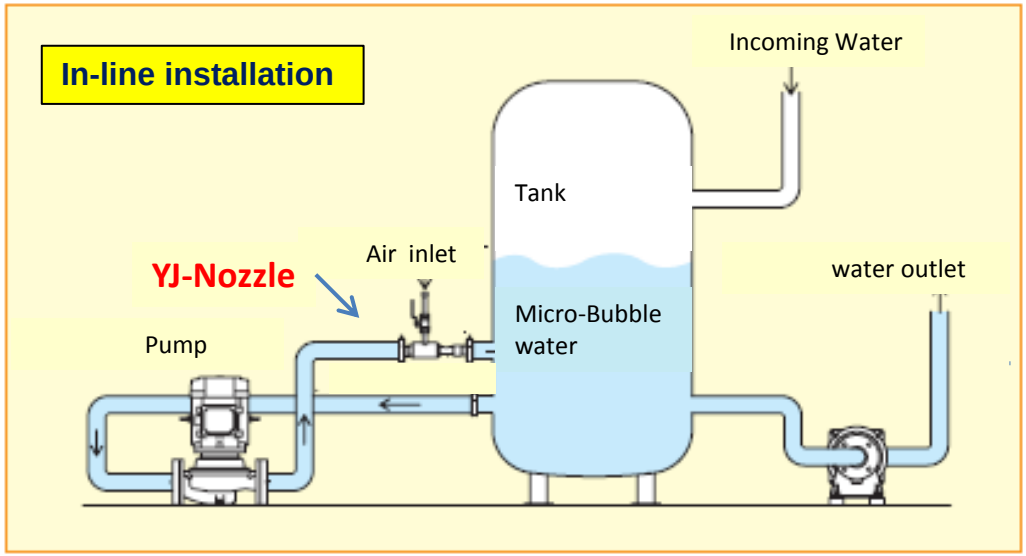
Note : The model number indicate the aperture size in mm.

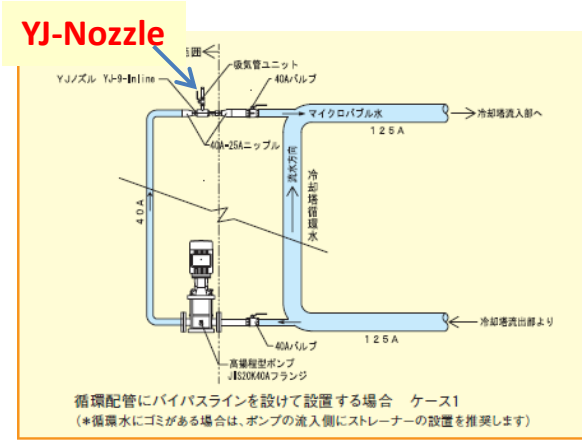
Installation notes

- 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.

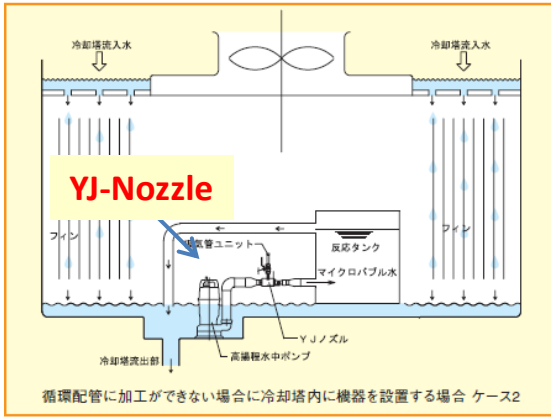


YJ-Nozzle installation examples





In-line bypassed installation



Submersible installation

Installation Pictures