



IGS ASIA PACIFIC
WATER SOLUTIONS

IGS

NANO

BUBBLE

GENERATOR



SPECIFICATION

P&ID

OPERATION

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IGS Asia Pacific,
Ground floor
470 St Kilda Rd
Melbourne, VIC 3000, AUS





Nano Bubble Device Specification

Technical Specifications:

Model		IGS NB-001 (Lab-scale)
Components		Nano bubble generator (NB-001) & Pump
Water flow rate		10LPM
Nano bubble size		62nm
Nano bubble ratio		> 99%
Nano bubble duration	atmospheric pressure state	> 12hr
	Sealed state	> 30days
Usage gas		Air, Oxygen, Ozone, etc.
Gas flow rate		0.3~0.5L/min
Required Gas Pressure		> 1.0kgf/cm ²
Nanobubble generator BG-001	Type	Pressure Vessel
	Dimensions	D102mm × L300mm
	Liquid temperature	5 ~ 70°C
	Material	STS304
Pump	Type	Self priming
	Power consumption	1.0kW
	Supply voltage	220V / 50~60Hz
	Liquid temperature	5 ~ 45°C
	Material	STS304
Dimensions		L500mm X W270mm X H400mm





IGS ASIA PACIFIC

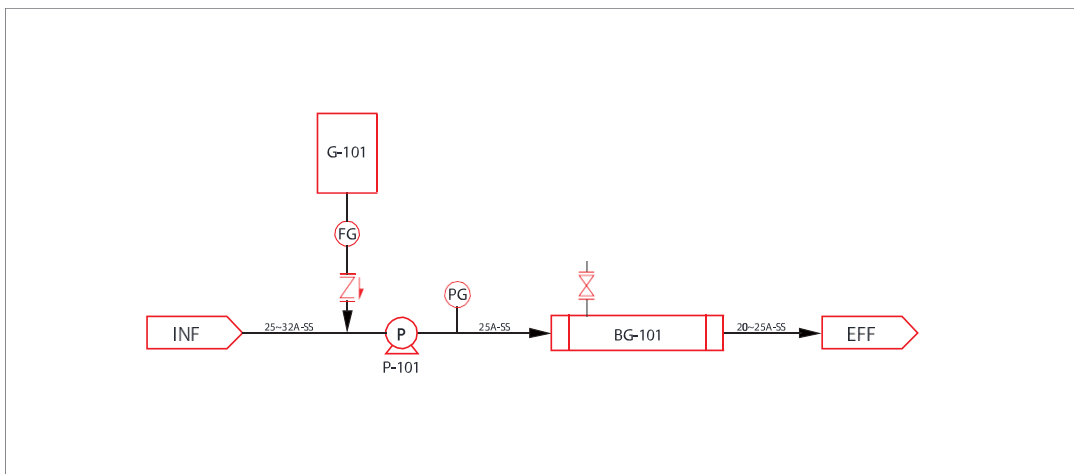
WATER SOLUTIONS

Housing	Weight	25kg (Including device)
Hose connector	Gas inlet	D1/4in (6.35mm)
	Water inlet	D25mm
	Water outlet	D15mm

Nano Bubble Device P&ID

P&ID of NANOBUBBLE DEVICE

S=NONE



- EQUIPMENT TAG PREFIX**
 - P : PUMP
 - G : GAS GENERATOR OR GAS CYLINDER
 - BG : BUBBLE GENERATOR
 - FG : FLOW GAUGE
 - PG : PRESSURE GAUGE
- SERVICE FLUID CODES**
 - INF : INFLUENT
 - EFF : EFFLUENT
- PIPE MATERIAL CODES**
 - SS : STAINLESS STEEL
- SIMBOLS**
 - |— : CHECK VALVE
 - |X— : GAS VENT

EQUIPMENT SPECIFICATIONS

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Nano Bubble Operating Device

| Operating Device

※ **When operating for the first time, inject priming water into the pump through the inlet hose.**

1. Check the locking of the gas flow meter.
(Turn the control dial to the right.)
2. Power ON
3. Wait until the needle of the pressure gauge reaches 0.3MPa or more.
4. Turn the control dial of the gas flow meter to the left to adjust the gas flow rate for each model.

※ Gas amount by model :

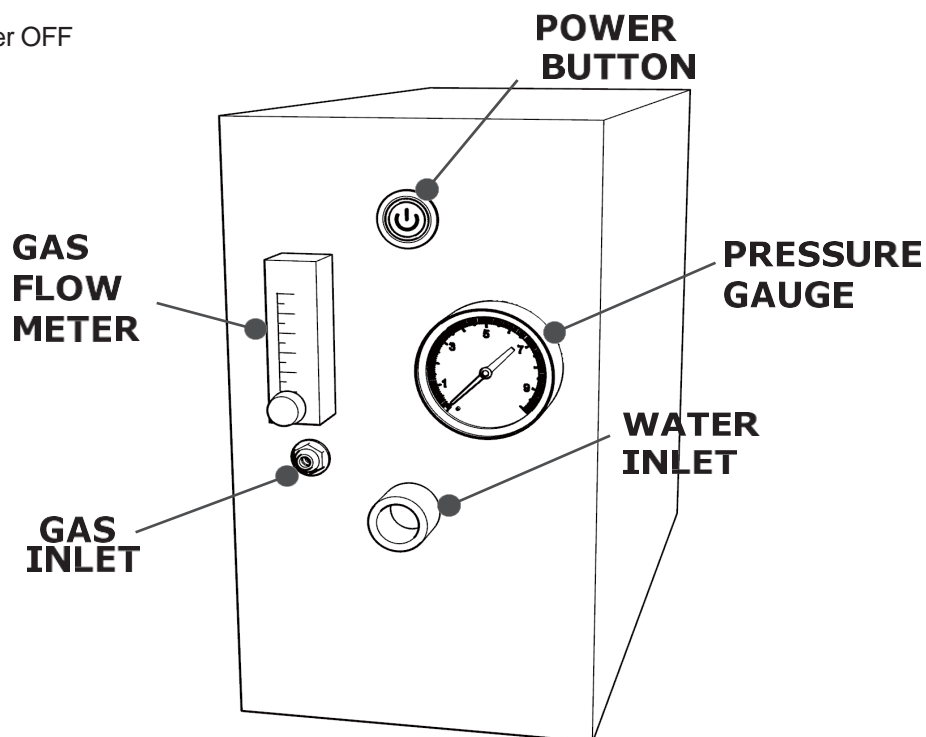
IGS - NB-001(10LPM) : G = 0.3~0.5LPM

IGS - NB-003(50LPM) : G = 1~2LPM

IGS - NB-005(85LPM) : G = 3~4LPM

IGS - NB-010(170LPM) : G = 4~6LPM

5. Lock gas flow meter first in case of a shutdown.
6. Power OFF



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