



Puroxi Nano Bubble Technical Manual

Design Installation and Application Guide

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This manual summarizes the Puroxi Nano Bubble Nozzle range, flow capacities, recommended pump context, pressure ratings, materials, gas tubing, gas-port quantities, connection options and installation guidance. Final selection must be based on the complete water system and the selected pump curve.

Thank you for the opportunity to understand your water.

How to Use This Manual

Use the model pages as preliminary product information. Confirm the water source, application, water chemistry, total volume, required turnover, piping, elevation, fittings, electrical supply and selected gas or liquid feed before ordering.

Confirmed gas tubing sizes

Nozzle range	Tubing size
MNB02 through MNB30	6 mm OD x 4 mm ID
MNB40 through MNB180	10 mm OD x 6.5 mm ID
MNB250 through MNB400	12 mm OD x 8 mm ID

Confirmed gas-port quantities

Nozzle range	Ports per nozzle
MNB02 through MNB60	2
MNB80 through MNB180	4
MNB200 through MNB400	8

The gas-port range begins at MNB200 even though the standard model pages in this edition list MNB250 as the first large model.

Puroxi Nano Bubble Nozzle MNB02

Specification	Value
Flow Capacity (m ³ /h)	2
Connections	1-inch pipe size (Outer diameter = 1.315 inch) No thread on nozzle ends
Recommended Pump	80–150 W
Max Pressure (psi)	100
Pure Oxygen Transfer (grams/hr)	16–48
Ozone Transfer (L/hr)	18–54
Natural Air O ₂ (salinity/fresh grams/hr)	13–15 / 10–12
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	6 mm OD x 4 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB06

Specification	Value
Flow Capacity (m ³ /h)	6
Connections	1 1/4-inch pipe size (Outer diameter = 1.66 inch) No thread on nozzle ends
Recommended Pump	250–350 W
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	48–144
Ozone Transfer (L/hr)	54–162
Natural Air O ₂ (salinity/fresh grams /hr)	39–45 / 30–36
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	6 mm OD x 4 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB09

Specification	Value
Flow Capacity (m ³ /h)	9
Connections	1 1/4-inch pipe size (Outer diameter = 1.66 inch) No thread on nozzle ends
Recommended Pump	450–550 W
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	70–210
Ozone Transfer (L/hr)	80–240
Natural Air O ₂ (salinity/fresh grams /hr)	65–75 / 50–60
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	6 mm OD x 4 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB20

Specification	Value
Flow Capacity (m ³ /h)	20
Connections	1 1/2-inch pipe size (Outer diameter = 1.90 inch) No thread on nozzle ends
Recommended Pump	750–850 W
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	140–520
Ozone Transfer (L/hr)	160–480
Natural Air O ₂ (salinity/fresh grams /hr)	100–120 / 70–90
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	6 mm OD x 4 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB30

Specification	Value
Flow Capacity (m ³ /h)	30
Connections	2-inch pipe size (Outer diameter = 1.913inch) No thread on nozzle ends
Recommended Pump	1.1–1.5 kW
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	210–630
Ozone Transfer (L/hr)	240–720
Natural Air O ₂ (salinity/fresh grams /hr)	170–200 /120–140
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	6 mm OD x 4 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB40

Specification	Value
Flow Capacity (m ³ /h)	40
Connections	2-inch pipe size (Outer diameter = 2.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	1.5–2 kW
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	320–960
Ozone Transfer (L/hr)	360–1080
Natural Air O ₂ (salinity/fresh grams /hr)	225–270 /160–190
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB40S

Specification	Value
Flow Capacity (m ³ /h)	40
Connections	3-inch pipe size (Outer diameter = 3.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	1.5–2 kW
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	320–960
Ozone Transfer (L/hr)	360–1080
Natural Air O ₂ (salinity/fresh grams /hr)	225–270 /160–190
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB50

Specification	Value
Flow Capacity (m ³ /h)	50
Connections	3-inch pipe size (Outer diameter = 3.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	2.2–2.5 kW
Max Pressure (psi)	100
Pure Oxygen Transfer (grams /hr)	400–1200
Ozone Transfer (L/hr)	450–1350
Natural Air O ₂ (salinity/fresh grams /hr)	290–310 /190–210
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB60

Specification	Value
Flow Capacity (m ³ /h)	60
Connections	3-inch pipe size (Outer diameter = 3.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	3–3.5 kW
Max Pressure (psi)	300
Pure Oxygen Transfer (grams /hr)	480–1440
Ozone Transfer (L/hr)	540–1620
Natural Air O ₂ (salinity/fresh grams /hr)	350–480 /230–350
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB60S

Specification	Value
Flow Capacity (m ³ /h)	60
Connections	3-inch pipe size (Outer diameter = 3.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	3–3.5 kW
Max Pressure (psi)	300
Pure Oxygen Transfer (grams /hr)	480–1440
Ozone Transfer (L/hr)	540–1620
Natural Air O ₂ (salinity/fresh grams /hr)	350–480 /230–350
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	2 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB80

Specification	Value
Flow Capacity (m ³ /h)	80
Connections	4-inch pipe size (Outer diameter = 4.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	5–5.5 kW
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	600–1900
Ozone Transfer (L/hr)	700–2000
Natural Air O ₂ (salinity/fresh grams /hr)	440–500 /300–380
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	4 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB100

Specification	Value
Flow Capacity (m ³ /h)	100
Connections	4-inch pipe size (Outer diameter = 4.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	5.5–7.5 kW
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	800–2400
Ozone Transfer (L/hr)	900–2600
Natural Air O ₂ (salinity/fresh grams /hr)	580–620 /380–420
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	4 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB120

Specification	Value
Flow Capacity (m ³ /h)	120
Connections	4-inch pipe size (Outer diameter = 4.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	7.5–9 kW
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	960–2880
Ozone Transfer (L/hr)	1000–3200
Natural Air O ₂ (salinity/fresh grams /hr)	700–960 /460–700
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	4 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB150

Specification	Value
Flow Capacity (m ³ /h)	150
Connections	4-inch pipe size (Outer diameter = 4.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	Contact Puroxi for design confirmation
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	Contact Puroxi for design confirmation
Ozone Transfer (L/hr)	Contact Puroxi for design confirmation
Natural Air O ₂ (salinity/fresh grams /hr)	Contact Puroxi for design confirmation
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	4 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB180

Specification	Value
Flow Capacity (m ³ /h)	180
Connections	4-inch pipe size (Outer diameter = 4.50 inch) No thread on nozzle ends, no flanges included
Recommended Pump	Contact Puroxi for design confirmation
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	Contact Puroxi for design confirmation
Ozone Transfer (L/hr)	Contact Puroxi for design confirmation
Natural Air O ₂ (salinity/fresh grams /hr)	Contact Puroxi for design confirmation
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	10 mm OD x 6.5 mm ID polyurethane tubing to each gas port
Gas ports	4 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB250

Specification	Value
Flow Capacity (m ³ /h)	250
Connections	6-inch pipe size (Outer diameter = 6.625 inch) No thread on nozzle ends, no flanges included
Recommended Pump	20–22 kW
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	1920–5760
Ozone Transfer (L/hr)	2000–6400
Natural Air O ₂ (salinity/fresh grams /hr)	1400–1920 /920–1400
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	12 mm OD x 8 mm ID polyurethane tubing to each gas port
Gas ports	8 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB300

Specification	Value
Flow Capacity (m ³ /h)	300
Connections	6-inch pipe size (Outer diameter = 6.625 inch) No thread on nozzle ends, no flanges included
Recommended Pump	20–22 kW
Max Pressure (psi)	250
Pure Oxygen Transfer (grams /hr)	1920–5760
Ozone Transfer (L/hr)	2000–6400
Natural Air O ₂ (salinity/fresh grams /hr)	1400–1920 /920–1400
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	12 mm OD x 8 mm ID polyurethane tubing to each gas port
Gas ports	8 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

Puroxi Nano Bubble Nozzle MNB400

Specification	Value
Flow Capacity (m ³ /h)	400
Connections	6-inch pipe size (Outer diameter = 6.625 inch) No thread on nozzle ends, no flanges included
Recommended Pump	By design
Max Pressure (psi)	150
Pure Oxygen Transfer (grams /hr)	Custom
Ozone Transfer (L/hr)	Custom
Natural Air O ₂ (salinity/fresh grams /hr)	Custom
Materials	UPVC, CPVC+PTFE, PTFE, SS304, SS316
Accessories	Gas fittings, 5 m tubing, flowmeter
Advantages	High oxygen transfer, low maintenance, no moving parts
Pricing	Contact Puroxi for current system selection and pricing.

Gas connection information

Item	Confirmed specification
Gas tubing	12 mm OD x 8 mm ID polyurethane tubing to each gas port
Gas ports	8 gas ports per nozzle

Ordering information: Contact Puroxi with the water volume, application, water chemistry, piping arrangement and desired turnover rate for final nozzle and pump-duty selection.

VEN-X Milli-Microbubbler Series

Model or item	Specification	Selection
MM3090	UPVC; 90 mm inlet / 60 mm outlet; smooth ends; includes 5 m polyurethane hose and bronze gas fittings	Contact Puroxi
MM2060	UPVC; 60 mm inlet / 49 mm outlet; smooth ends; includes 2 m polyurethane hose and bronze gas fittings	Contact Puroxi
MM1060	UPVC; 60 mm inlet / 34 mm outlet; smooth ends; includes 1 m polyurethane hose and bronze gas fittings	Contact Puroxi
4-Way 60 mm	Four-way discharge assembly for MM3090	Contact Puroxi
4-Way 49 mm	Four-way discharge assembly for MM2060	Contact Puroxi
4-Way 34 mm	Four-way discharge assembly for MM1060	Contact Puroxi

VEN-X models are intended for applications where gentler water movement is preferred. Contact Puroxi for the current configuration, availability and quotation.

Model Selection Summary

Model	Flow	Pump context	Gas tubing	Ports
MNB02	2	80–150 W	6 mm OD x 4 mm ID	2
MNB06	6	250–350 W	6 mm OD x 4 mm ID	2
MNB09	9	450–550 W	6 mm OD x 4 mm ID	2
MNB20	20	750–850 W	6 mm OD x 4 mm ID	2
MNB30	30	1.1–1.5 kW	6 mm OD x 4 mm ID	2
MNB40	40	1.5–2 kW	10 mm OD x 6.5 mm ID	2
MNB40S	40	1.5–2 kW	10 mm OD x 6.5 mm ID	2
MNB50	50	2.2–2.5 kW	10 mm OD x 6.5 mm ID	2
MNB60	60	3–3.5 kW	10 mm OD x 6.5 mm ID	2
MNB60S	60	3–3.5 kW	10 mm OD x 6.5 mm ID	2
MNB80	80	5–5.5 kW	10 mm OD x 6.5 mm ID	4
MNB100	100	5.5–7.5 kW	10 mm OD x 6.5 mm ID	4
MNB120	120	7.5–9 kW	10 mm OD x 6.5 mm ID	4
MNB150	150	Contact Puroxi for design confirmation	10 mm OD x 6.5 mm ID	4
MNB180	180	Contact Puroxi for design confirmation	10 mm OD x 6.5 mm ID	4
MNB250	250	20–22 kW	12 mm OD x 8 mm ID	8
MNB300	300	20–22 kW	12 mm OD x 8 mm ID	8
MNB400	400	By design	12 mm OD x 8 mm ID	8

Pump values are preliminary product context. Final pump selection must use the manufacturer's pump curve and the complete-system total dynamic head at the required nozzle flow.

Materials Connections and Accessories

Materials

Puroxi Nano Bubble Nozzles are available in UPVC, CPVC with PTFE internal components, PTFE, SS304 and SS316. Material selection must consider pressure, temperature, water chemistry, treatment chemistry and local requirements.

North American plastic connections

For most North American UPVC and CPVC installations, Puroxi recommends smooth socket or spigot ends rather than threaded plastic connections. Smooth ends allow installers to use locally sourced slip unions, couplings, socket fittings, solvent-weld fittings, flange adapters or approved transition fittings.

Other connection standards

PTFE, HDPE, POM, SS304 and SS316 models may be supplied for NPT, BSPT/BSPP, JIS, ANSI/ASME, DIN, ISO or an approved custom connection. Specify pipe material, outside diameter, connection standard, pressure rating, temperature and chemical compatibility when ordering.

Accessories

Accessory	Application
4-inch UPVC flange pair	MNB150 through MNB180; bolts not included
6-inch UPVC flange	MNB250 through MNB300; bolts not included
Air flowmeter	2-100 L/min or up to 8 m ³ /h
PVDF one-way valve	Ozone service with compatible PTFE hose
BFPOZO-10 / BFPO6	Backflow-prevention options for ozone service

Installation and Operating Guidance

Water circuit

- Install the nozzle in the correct flow direction with the water inlet and treated-water outlet on opposite ends.
- Confirm required nozzle flow and inlet pressure while the system is operating.
- Include pipe friction, elevation, filters, valves, fittings, manifolds and other restrictions in the total dynamic head.
- A multi-branch treated-water manifold adds resistance and may require a higher-capacity pump.

Gas or liquid-feed circuit

- Connect the selected gas or approved liquid feed to every designated port required by the selected model.
- For ambient-air service, use a suitable low-resistance filtered intake and protect the line from water entry.
- For oxygen or ozone service, use compatible tubing, fittings, valves and backflow protection.
- With a compatible CPVC Puroxi Nano Bubble Nozzle, Puroxi Oxygen Booster may be metered directly through the designated nozzle gas/injection ports using a suitable chemical-feed system.
- Puroxi must confirm the Oxygen Booster concentration, feed rate, tubing, fittings, wetted-material compatibility and backflow protection for the application.

Operating sequence

- Start the selected gas or approved feed system before starting the water pump.
- Confirm flow, pressure and feed conditions during operation.
- Stop the water pump before shutting down the gas or approved feed system.
- Purge and clean the system as required for the application.

Puroxi Integrated Oxidation Process

Step 1 Optional chemical oxidation

For a compatible CPVC configuration, Puroxi Oxygen Booster may be metered directly through designated nozzle gas/injection ports with an appropriate chemical-feed system. Other approved gases or treatment inputs may be used when the equipment and materials are selected for the application.

Step 2 Nano bubble activation and mixing

The Puroxi Nano Bubble Nozzle combines the water flow with the selected gas or approved liquid feed and provides intense mixing and fine-bubble dispersion. Actual bubble population and transfer performance depend on flow, pressure, chemistry, temperature, salinity, contaminants and the selected operating point.

Step 3 Water quality improvement

Depending on the application and verified treatment design, the combined process may support oxidation, dissolved oxygen, aerobic biological activity, odour control, water clarity and other defined treatment objectives. Performance must be evaluated against an established baseline and suitable measurements.

Technical notice

This manual provides preliminary product and application information. It is not a final system design or a guarantee of bubble size, gas transfer or treatment performance. Puroxi confirms the final nozzle, pump duty point, piping, feed system and operating arrangement from the complete project information.