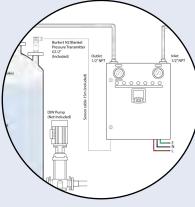


Nitrogen Blanketing System for Ultra Pure RO/DI Water Storage - with up to 100m³/h flow capacity





Can be combined with following options

- Unique system for plug & play, easy installation & operation
- Suitable for wide & dynamic flow profile
- Tank level control / flow monitoring available
- High control accuracy
- Ultra low maintenance
- Customised version available on request



Type 8020/30 Paddle-wheel flow sensor (for flow)

Type 8008 N2 Flow Meter (for N2 consumption)

Type 8802-YG/ DF

(for continuous level control- reduces N2 usage) Type 3323

Fully Electric Driven Electromotive Control Valve

This is Bürkert's N2 blanketing pressure control solution for storage tanks. The compact control panel is specially designed for easy installation, commissioning and operation.

The system consists of Bürkert high accuracy pressure transmitter, unique 8619 multichannel, multifunction transmitter/ controller with built-in PID controller, proportional solenoid control valve with excellent dynamics and turn-down ratio, customised control panel and pressure/ vacuum relief breather valve for secondary tank protection.

Thanks to the modularity of Type 8619 in hardware and software, we can offer different type of systems to meet various requirements.

- Basic N2 Blanket System
- N2 Blanketing System with Level Control N2 Blanketing System with Flow Monitoring
- N2 Blanketing System with Tank Level
- Control and Flow Monitoring

Bürkert N2 flowmeter can be configured to measure N2 gas flow rate and consumption. Type 8619 multiCELL has optional data logger function (which can be added in the future) records up to 16 process values/ event alarms.

Content

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Level	
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Type 8619 + 8325 X 2 + Breather valve + 8802- YG/DF (optional) + 3323 (optional)	
Type 8619 + 8325 X 2 + Breather valve + 8802- YG/DF (optional) + 3323 (optional)	
Type 8619 + 8325 X 2 + Breather valve + 8802- YG/DF (optional) + 3323 (optional) Request for quote. Flow-Level Type 8619 + 8325 X2 + 8020/ 8030 + Breather	p. 5



Technical Data

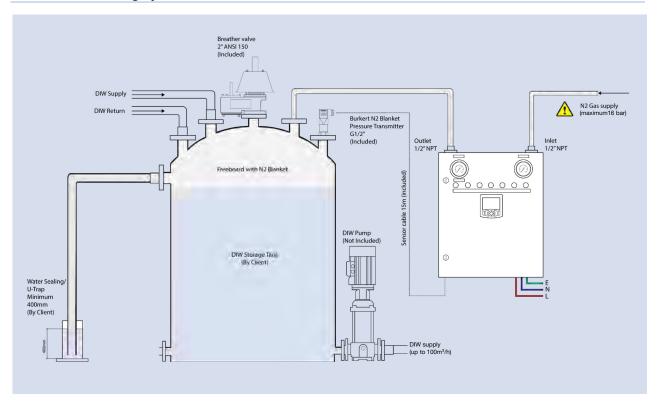
Control panel	
Operating voltage/ Consumption	100 - 240VAC 50/60 Hz, 250W
Panel material	Powder coated mild steel, other on request
Mounting / Size	Wall, 600 x 500 x 250 mm (H x W x D)
N2 gas supply (bar)	up to 16 bar
N2 gas inlet/ outlet port connection	NPT 1/2" Female thread
N2 gas outlet port connection	NPT 1/2" Female thread
Electrical connection	PG 13.5 cable glands
Protection	IP 55, IP 65 on request

Pressure transmitter / Hydrostatic leve	el transmitter 8325
Measuring range	0-0.1 bar for N2 pressure/ Up to 5000 mm WC for tank level
Wetted material	SS 1.4571 (316Ti)
Process connection	G 1/2" for tank N2 pressure measurement G1" flush diaphragm for tank water level measurement
Output signal	4- 20 mA, 2 wires
Protection	IP 65

8619 multiCELL	
Operating voltage	24V DC (from control box)
Signal input	4-20 mA, pulse etc. depends on configuration
Signal output	4-20 mA, PWM etc. depends on configuration (Profinet, Ethernet/IP, modbus TCP on request)
Solenoid control valve	
Body / seal material	Brass / FKM, SS on request
Port connection	NPT 1/4" or 1/2"
Operating voltage	24V DC

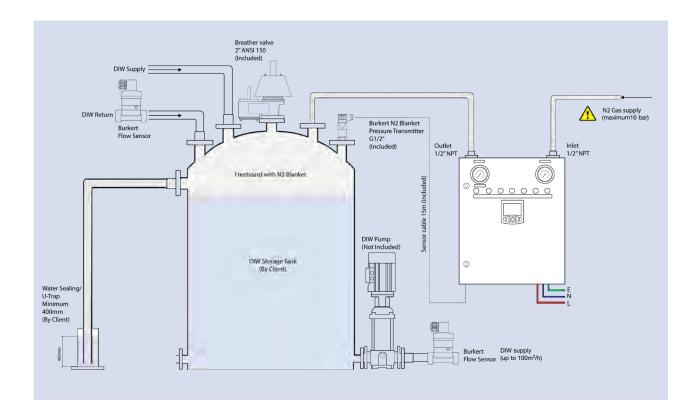
Breather valve (for tank protection)	
Body / Trim / Diaphragm	Aluminium / SS 304 / PTFE
Size / Port connection	2" / ANSI 150LB RF flange
Set pressure	+350 mm / -50 mm WC

Basic N2 blanketing system 97180063



N2 blanketing system with flow monitoring 97180065

Flow monitoring for DI water supply & return pipes enables monitoring of actual water usage. Flow sensor / fitting to be ordered seperately. Please refer to Type S030 / 8030 / 8020 / S020 data sheets for flow sensor selection.



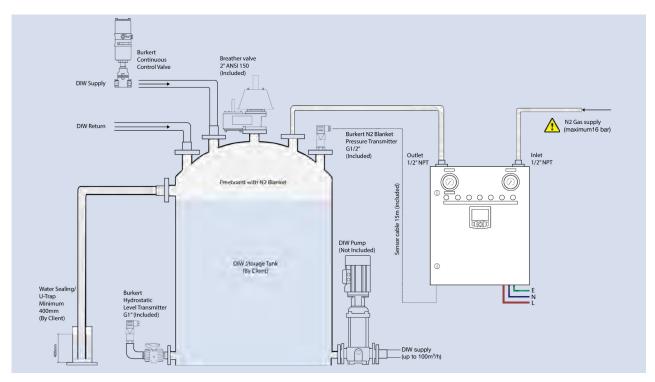


Basic N2 blanketing system with level control 97180067

N2 blanketing panel with integrated tank level control. Actual tank level is measured via differential pressure.

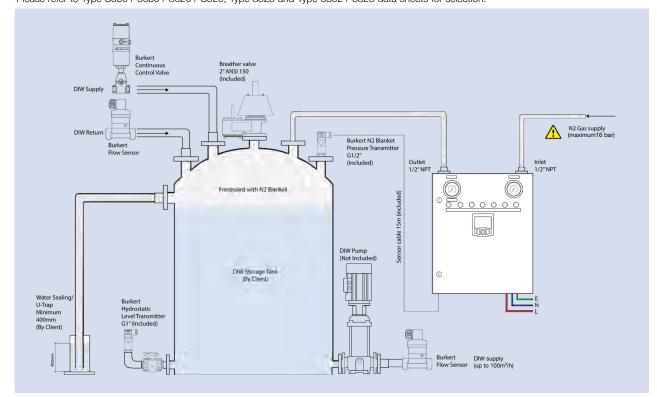
4x On/Off Output for Tank Auto Top-Up & DI Water Supply Pump Control and Pump Protection. If Continuous Control Valve is installed instead of On/Off valve to maintain tank level - significant reduction of N2 gas consumption and further improvement of water quality due to less start/stop, can be expected.

Hydrostatic level transmitter Type 8325 equipped with flush diaphragm to eliminate dead leg. Both valve and level transmitter need to be ordered separately. Please refer to Type 8802, Type 3323 and Type 8325 data sheet for selection.



N2 blanketing system with flow monitoring and level control 97180069

Flow monitoring for DI water supply & return pipes enables monitoring of actual water usage. Modulating valve to maintain tank level - reduces N2 consumption and improves water quality due to less start / stop. Flow sensor / fitting, hydrostatic level transmitter Type 8325 and Type 8802 / 3323 control valve to be ordered seperately. Please refer to Type S030 / 8030 / 8020 / S020, Type 8325 and Type 8802 / 3323 data sheets for selection.



www.burkert.com.sg



N2 blanketing system - request for quotation

Please fill out and send to your nearest Bürkert facility* with your inquiry or order

Company Contact person
Customer no. Department
Address Tel./Fax

Postcode/town E-Mail

Supply voltage	115 / 230V AC 50 / 60Hz			
Outgoing flow rate		gpm(US)		m³/h
Incoming flow rate		gpm(US)		m³/h
Return flow rate		gpm(US)		m³/h
Distance from top of tank to location of pa	anel	feet		meter
Tank / Pipe detail	FRP	SS304	SS306	0.1
	FKP		55306	Other
Tank height (standard up to 5m)		feet		meter
Tank diameter		feet		meter
Pipe size	Outgoing	Incom	3	
	Inch Return Inch	mm	Inch	mm
Pipe material	PVC	PVDF	PP	SS
Digital Communication Interface	e (optional)			
Ethernet protocols	EtherNet/IP	Modbus TCP	PROFINET	
zanemet protocols				