

NITROGEN BOOST

LN₂ SUPPLY SYSTEM FOR OZONE APPLICATIONS

The Nitrogen Boost System (NBS) is a compact, hassle-free alternative to conventional nitrogen generation skids. The NBS produces consistent, dry gas as required for ozone generation. It consists of a Perma-Cyl® MicroBulk Storage System that is fully palletized with all the required instrumentation for most water treatment applications.

One pallet contains the storage, pressure reducing manifold and alarm panel. The complete packaged LN₂ manifolded system is designed to be simple, effective and easy to implement when nitrogen is needed in ozone applications.

PRODUCT ADVANTAGES

- Fully integrated for drop and go installation
- Pallet base allows for easy forklift install
- Designed for outdoor installation
- Low maintenance, no moving parts, no noise
- Stainless steel construction for long life
- Minimal concrete needed for anchorage

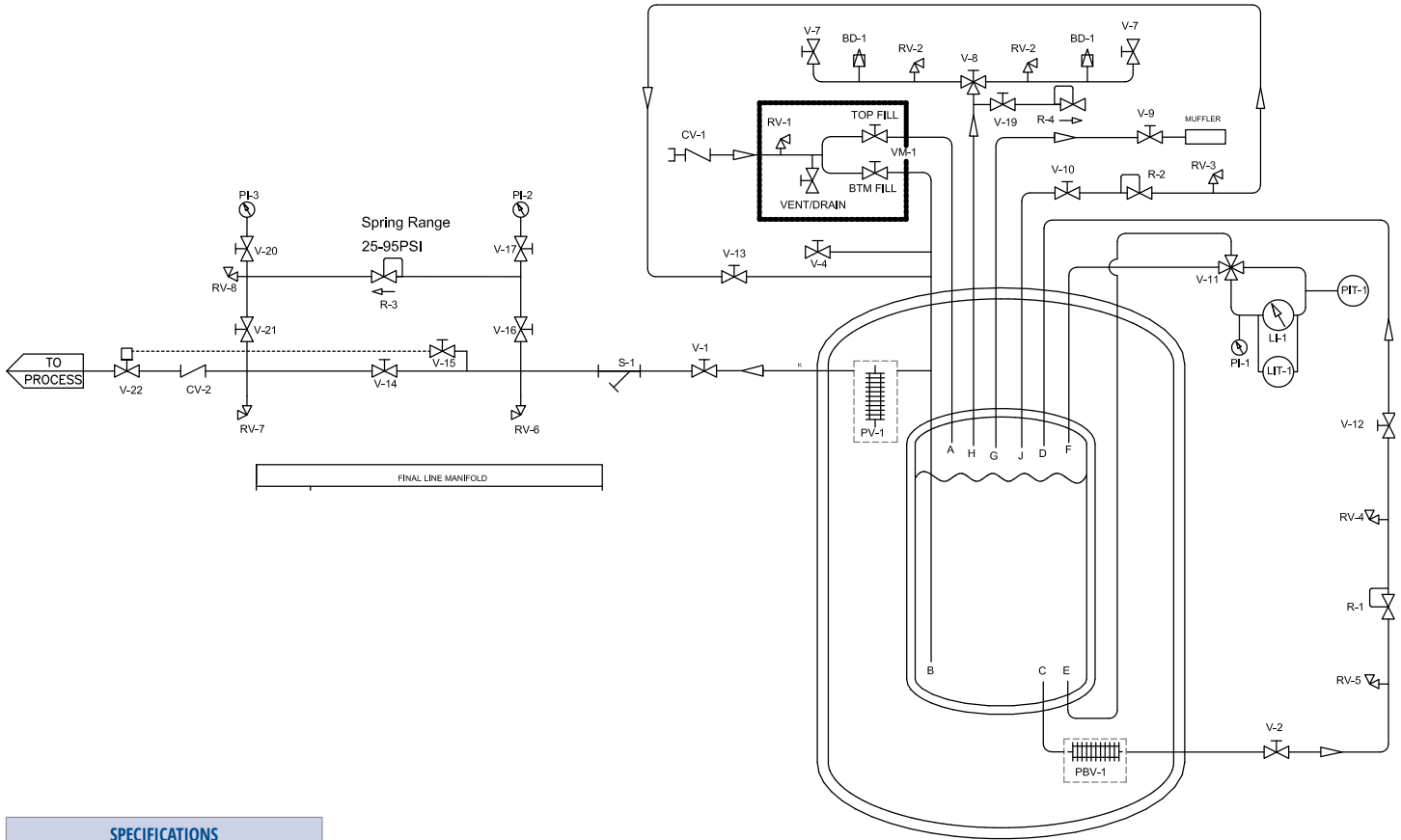
PRODUCT FEATURES

- Local Alarm Panel pre-wired
- Digital Pressure & Level Transmitters
- High Performance Regulator for tight pressures
- Nitrogen actuated emergency shut-off valve
- Pre-wired and pre-piped for a complete and operable system



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SPECIFICATIONS		
MODEL	1000L	500L
CAPACITY (Liters)		
Gross	1,056	450
Net	950	420
GAS DELIVERY RATE		
Diameter (cylinder)		
in	42	30
mm	1,067	762
Height		
in	89	69
mm	2,261	1,753
Width		
in	67	67
mm	1,702	1,702
DIMENSIONS		
Depth		
in	53	53
mm	1,347	1,347
Tare Weight		
lbs	1,781	1,781
kg	807	807
Relief Valve Setting		
psi	500	350
bar	34.5	24.1

FINAL LINE MANIFOLD	
S-1	FINAL LINE STRAINER
CV-2	FINAL LINE CHECK VALVE
LIT-1	TANK LIQUID LEVEL TRANSMITTER
PIT-1	TANK PRESSURE TRANSMITTER
PI-2	INLET PRESSURE GAUGE
PI-3	OUTLET PRESSURE GAUGE
R-3	FINAL LINE REGULATOR
R-4	FINAL LINE ECONOMIZER REGULATOR
RV-6	FINAL LINE RELIEF VALVE
RV-7	FINAL LINE RELIEF VALVE
RV-8	FINAL LINE RELIEF VALVE
V-14	FINAL LINE BY-PASS VALVE
V-15	ACTUATED GAS SUPPLY VALVE
V-16	INLET ISOLATION REG. VALVE
V-17	PRESS GAUGE ISOLATION VALVE
V-19	ECONOMIZER ISOLATION VALVE
V-20	PRESS. GAUGE ISOLATION VALVE
V-21	OUTLET ISOLATION REG VALVE
V-22	ACTUATED CONTROL VALVE

NOMENCLATURE	
Tag	Description
BD-1	TANK SECONDARY RELIEF DEVICE BURST DISC
CV-1	TANK FILL CHECK VALVE
LI-1	TANK LIQUID LEVEL GAUGE
PBV-1	TANK PRESSURE BUILDING VAPORIZER COIL
PI-1	TANK PRESSURE GAUGE 0-600 PSI
PV-1	TANK PROCESS VAPORIZER COIL
R-1	TANK PB REGULATOR
R-2	TANK ECONOMIZER REGULATOR
RV-1	TANK FILL ASSEMBLY RELIEF VALVE
RV-2	TANK PRIMARY RELIEF VALVE
RV-3	TANK ECON INLET RELIEF VALVE
RV-4	TANK PB OUTLET RELIEF VALVE
RV-5	TANK PB INLET RELIEF VALVE
VM-1	TOP & BOTTOM FILL MANIFOLD W/DRIAN
V-1	TANK GAS USE VALVE
V-2	TANK PRESSURE BUILD INLET ISO VALVE
V-4	TANK LIQUID WITHDRAWAL VALVE
V-7	TANK SAFETY LINE PURGE VALVE
V-8	TANK SAFETY 3-WAY DIVERTER VALVE
V-9	TANK FULL TRYCOCK/VENT VALVE
V-10	TANK ECONOMIZER VALVE
V-11	TANK GAUGE ISOLATION VALVE
V-12	TANK PRESSURE BUILD OUTLET ISO VALVE
V-13	TANK ECONOMIZER INLET ISO VALVE

PIPING	
A	TANK TOP FILL
B	TANK BOTTOM FILL & LIQUID USE
C	TANK PB INLET
D	TANK PB OUTLET
E	TANK LIQUID PHASE
F	TANK VAPOR PHASE
G	TANK FULL TRYCOCK/VENT VALVE
H	TANK DUAL RELIEF
J	TANK ECONOMIZER
K	TANK GAS USE