

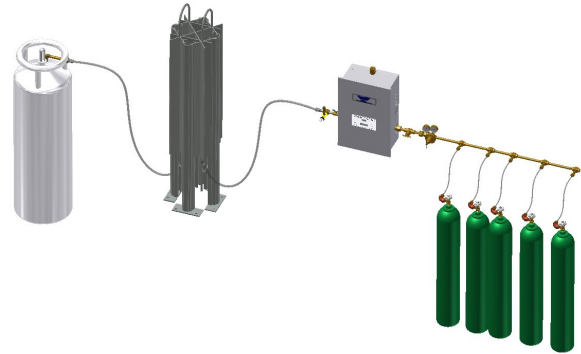
Submittal Data Sheet

Features

- Fully automatic – no resetting of valves or levers.
- Input power 120 VAC, 50 to 60 Hz - single point connection.
- 400 psig differential rated solenoid – can't lock up.
- 72" flexible pigtail (for portable bulk or bulk connection).
- Economizer circuits for maximum efficiency of gas use.
- Unit of measure switching (psi, kPa, BAR).
- Dual line pressure regulators.
- Built for expansion by adding header extensions.
- Cabinet weight 75 lbs.
- May be converted from low or medium pressure liquid portable bulk vessel use to use with high pressure cylinders.
- Line pressure sensor may be mounted inside the cabinet or remotely located to eliminate the need for a high/low pressure switch for master alarm operation.

Specification

The NFPA 99 compliant digital, fully automatic manifold shall be a Powerex Genesys™ series. No manual resetting of valves or levers shall be required. The unit shall provide gas from the left (vapor withdrawal from portable bulk or bulk vessel) until the pressure from the left inlet bank is depleted. The unit shall switch from primary (left) to secondary (right) bank without fluctuation in line delivery pressure. Simultaneously, the "Secondary in Use" alarm shall be triggered by the manifold's microprocessor. After the switchover, the secondary (right) bank shall then become the "Bank in Use". When the left bank is replenished the manifold shall automatically resume providing gas from the left bank and designate the left bank as the primary and the right bank as the secondary bank. In the event of a power failure or should both the primary and secondary banks become depleted the manifold shall continue to provide gas until both the primary and secondary banks are depleted at which time the manifold will automatically provide gas from the emergency reserve bank until all three banks are depleted. The manifold microprocessor shall trigger the "Secondary in Use", "Right Bank (secondary) Low", "High Line Pressure" and "Low Line Pressure" alarms without the need for additional pressure switches or transducers. The manifold microprocessor shall also trigger the "Emergency Reserve in Use" and "Emergency Reserve Low" alarms when used with transducers supplied separately. The manifold shall be capable of being upgraded after installation, to

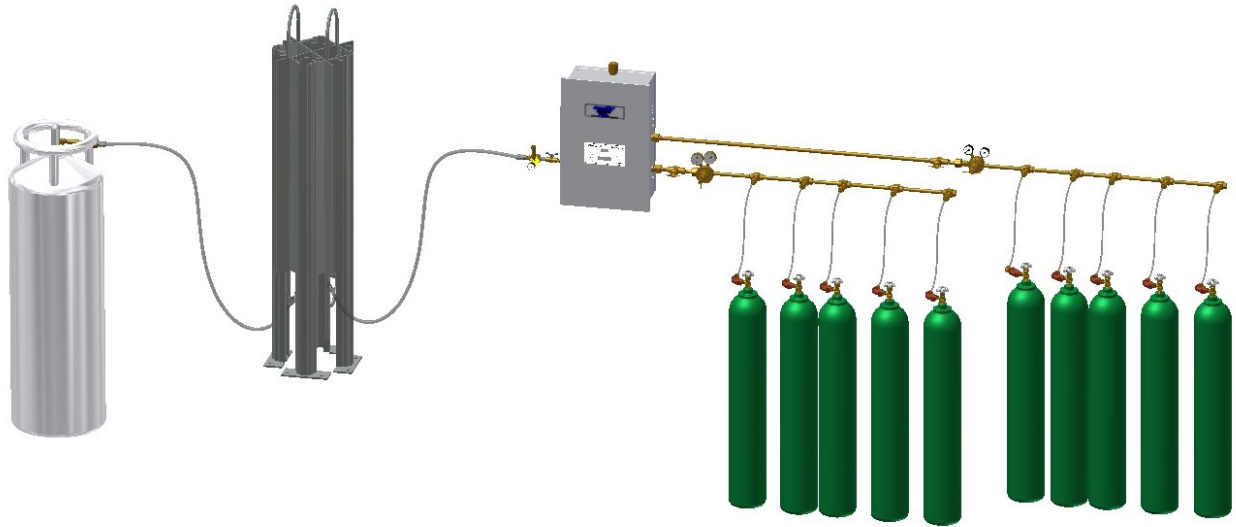


high flow line regulators, higher delivery pressures, or to be used with high pressure (up to 2,500 psig) cylinders or for use at higher delivery pressures.

The microprocessor based control panel shall incorporate LED's and an illuminated text display and shall provide electronic monitoring of circuits with up to 20 error, alarm or information messages displayed for ease of maintenance. The control panel shall also incorporate a set of LED's for each bank, green for "Bank in Use", amber for "Ready" and red for "Empty".

Analog gauges are also provided so that all above pressure zones may be observed in the event of a power failure. CGA gas specific high flow check valves are provided at the header to pigtail connection point on high pressure cylinders to protect personnel during cylinder change outs. 72" flexible pigtails designed for cryogenic gas service with captured CGA gas specific fittings are provided for connection to cryogenic vessels. All manifold regulators, piping and control switching equipment shall be cleaned for use with oxygen service and installed in weatherproof aluminum cabinet to provide protection and minimize tampering. Secondary and emergency reserve manifolds sold separately (see RWP manifold literature).

Layout



Typical installation shown above primary (left bank), secondary (right bank) and emergency reserve bank

Design Lengths

Manifold Cabinet Only	
Cabinet only is 17.2" W x 26.6" H x 10.5" D	
Model Number	Delivery Pressure
PX-PLU3522OX1H	50 PSI
PX-PLU3522OX2H	80 PSI
Left Bank Header Cryo Kits	
Part Number	Description
PX-30-1011	1 Vessel Header
PX-30-1012	2 Vessel Header
PX-30-1013	3 Vessel Header
PX-30-1014	4 Vessel Header
Right Bank Headers	See RWP Headers Data Sheet 99-0325 ref. Specify Cabinet Position 2
Emergency Reserve Header	See RWP Headers Data Sheet 99-0325 ref. Specify Cabinet Position 3
Typical Header	
PX-881135-1	Left Bank Inlet Header

