Genesys™ Fully Automatic Manifolds for Portable Bulk Vessel Vapor Withdrawal Applications

Submittal Data Sheet

Features

- 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 – no need to purchase a high/low pressure switch or DISS union.
- Electronic monitoring of circuits with up to 20 error, alarm or information messages.
- May be field converted for lower or higher flow line regulators or for use with high pressure cylinders.
- NFPA compliant models include 48-0023 ball valve
- Reserve Oxygen manifolds (sold separately – RWP or RSP series) supplied with copper pigtails (stainless flexible pigtails supplied for other gas services)
- Double "Z" bracket for one man installation
- Unit of measure switching (psi, kPa, BAR).
- Dual line pressure regulators
- Cabinet weight 65 lbs.
- Input power 120 VAC, 50 to 60 Hz.
- Made in U.S.A.

Model PX-LLU12OX1L with PX-RWP-9-4S shown above

Specification

The NFPA 99 compliant digital, fully automatic manifold shall be a Powerex Medical Genesys™ series. No manual resetting of valves or levers shall be required. The unit shall switch from Primary to Secondary bank without fluctuation in line delivery pressure. Simultaneously, the Secondary in Use alarm shall be triggered by the manifolds microprocessor. The manifold shall continue to provide gas, in the event of a power failure, until both banks are depleted. After the switchover, the secondary bank shall then become the Primary. The manifold circuit board shall also trigger the "Emergency Reserve in Use" and the "Emergency Reserve Low" alarms when used with 14-3001 & 14-3002 transducers (supplied separately). The manifold shall be capable of being converted for lower or higher flow line regulators or for use with high pressure cylinders.

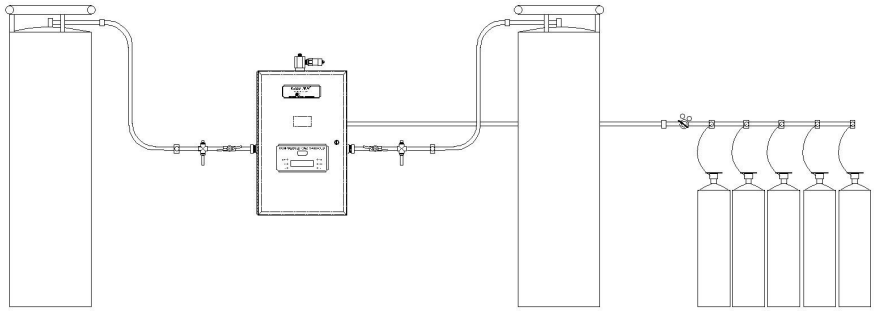
The microprocessor based control panel shall incorporate LED's and an illuminated text display and shall provide electronic monitoring of circuits with up to 20 error, alarm or information messages displayed for ease of maintenance. The illuminated text display shall be readable even in poor lighting conditions. Analog gauges shall also be provided so that line and both bank pressures may be observed in the event of a power failure. 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".

All manifold regulators, piping and control switching equipment shall be cleaned for use with oxygen service and installed in a steel powder coated cabinet (weatherproof version available) to provide protection and minimize tampering.

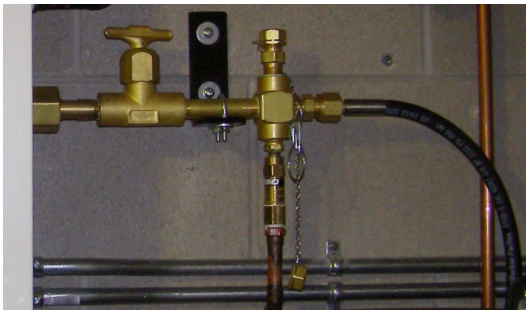
Flow Capacity

Gas Service	Standard Line Regulators	High Capacity Line Regulators	Without Heaters	With Heaters
Oxygen	500 SCFH (236 l/min)	750 SCFH (354 l/min)	N/A	N/A
Nitrous Oxide or Carbon Dioxide	See →	N/A	40 SCFH (19 l/min)	500 SCFH (236 l/min)
Nitrogen	750 SCFH (354 l/min)	1,000 SCFH (472 l/min)	N/A	N/A

Layout



Typical installation shown above
Cabinet dimensions 26 ¼" H x 17" W x 9" D



20" header length
(Header pictured above accommodates 2 - 72" flexible pig-tails for 2 portable bulk vessels + relief valve with pipe away)

Design Lengths

Total Number of Cylinders	2	4	6
Cabinet width + left header width + right header width only – no vessels	4'-9" (1.45 m)	4'-9" (1.45 m)	6'-0" (1.72 m)

* See Separate Manifold Header Literature for Header Part Numbers

Ordering Information

Easy to use modular ordering system. Fill in the 7 blanks to specify the manifold that meets your needs.

Left Bank
L = Portable Bulk

PX – L L

Right Bank
L = Portable Bulk

Country
U = USA
C = Canada

Final Line Regulation
1 = Single Line Regulator
2 = Dual Line Regulators

Delivery Pressure
1 = 50psi
2 = 80psi
3 = 170psi

Cabinet Type
1 = Standard
2 = Weatherproof

Gas Service
CD = Carbon Dioxide
HE = Helium
HO = Hyperbaric Oxygen
NT = Nitrogen
NO = Nitrous Oxide
OX = Oxygen

Flow & Heater Options
L = Standard Flow
H = High Flow
W= With heaters
(see chart on reverse side for flow capacities)

Examples:

PX-LLU22OX1L = Portable bulk vessel x Portable bulk vessel Genesys™ Manifold, Weatherproof Cabinet, Dual Line Regulators, CGA 540 Oxygen service, 50 psi delivery, Standard flow