

Submittal Data Sheet

Features

- Fully automatic – no resetting of valves or levers.
- Input power 120 VAC, 50 to 60 Hz – single point connection.
- Easy to service piping design.
- Patented single solenoid pressure differential changeover.
- 400 psig differential rated solenoid.
- May be converted from high pressure cylinder use to use with low or medium pressure liquid portable bulk vessels.
- Dual line pressure regulators.
- Most gas service headers include; 24” flexible stainless steel braided pigtails. Vertical crossover and staggered styles include 36” pigtails for half of the cylinders.
- Oxygen headers include; 36” copper pigtails with check valve.
- CGA connections with integral check valves at each header station.
- Special header configurations available upon request (U-shaped, L-shaped, etc.). (Dimensional sketch of installation required).
- Built for expansion by adding header extensions.
- Cabinet weight 70 lbs.

Specification

The fully automatic manifold shall be a Powerex Genesys™ NPCU series. No manual resetting of valves or levers shall be required. The unit shall switch from “Bank in Use” to “Reserve” bank without fluctuation in line delivery pressure. Simultaneously, the “Reserve in Use” alarm shall be triggered by the manifolds circuit board. The manifold shall continue to provide gas, in the event of a power failure, until both banks are depleted. After the switchover, the “Reserve” bank shall then become the

Flow Capacity

Gas Service	Standard Line Regulators	High Capacity Line Regulators	Without Heaters	With Heaters
Air, Argon, Oxygen, Medical Air, Medical Mixtures, Nitrogen, Tri-Gas	2,500 SCFH (1,180 l/min)	4,500 SCFH (2,120 l/min)	N/A	N/A
Hyperbaric Oxygen	N/A	5,000 SCFH (2,358 l/min)	40 SCFH (19 l/min)	500 SCFH (236 l/min)
Nitrous Oxide or Carbon Dioxide	X	N/A	N/A	N/A
Nitrogen	3,000 SCFH (1,415 l/min)	6,000 SCFH (2,830 l/min)	N/A	N/A



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

“Bank in Use”. The manifold shall be capable of being upgraded after installation; to be used with low or medium pressure portable bulk vessels, to upgrade to high flow line regulator(s), from single to dual line regulators and for use at higher or lower delivery pressures.

The control panel shall 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 line and both bank pressures may be observed.

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

The header bars shall be equipped with emergency high pressure shutoff valves outside the cabinet to allow for emergency isolation of the header bars. The header bar shall incorporate integral check valves for each station.

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.

