

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)	N/A	N/A
Nitrous Oxide or Carbon Dioxide	X	N/A	40 SCFH (19 l/min)	500 SCFH (236 l/min)
Nitrogen	3,000 SCFH (1,415 l/min)	6,000 SCFH (2,830 l/min)	N/A	N/A



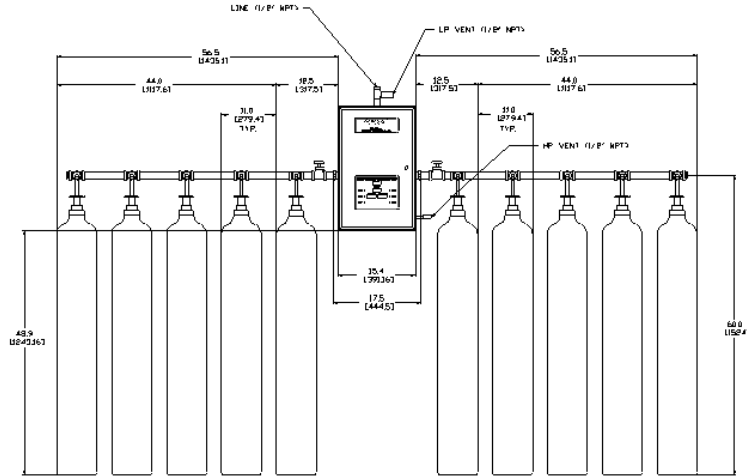
“Bank in Use”. The manifold shall be capable of being upgraded after installation; to be used with low or medium pressure portable bulk vessels, to upgrade to high flow line regulator(s), from single to dual line regulators and for use at higher or lower delivery pressures.

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.

Dimensional Drawing



Design Lengths

Total Number of Cylinders	4	6	8	10	12	16	20
STANDARD (10" INCH CENTERS) OVERALL MANIFOLD LENGTH	5' - 3" (1.60m)	6' - 11" (2.11m)	8' - 7" (2.62m)	10' - 3" (3.12m)	11' - 11" (3.63m)	15' - 5" (4.65m)	18' - 9" (5.72m)
STAGGERED DESIGN (5" CENTERS) OVERALL MANIFOLD LENGTH	4' - 6" (1.32m)	5' - 4" (1.57m)	6' - 2" (1.83m)	7' - 0" (2.08m)	7' - 10" (2.34m)	9' - 6" (2.85m)	11' - 2" (3.35m)
VERTICAL CROSSOVER (10" CENTERS) OVERALL MANIFOLD LENGTH	3' - 7" (1.10m)	N/A	5' - 3" (1.60m)	N/A	6' - 11" (2.11m)	Contact Powerex	Contact Powerex

Ordering Information

Easy to use modular ordering system. Fill in the 10 blanks to specify the manifold that meets your needs.

	NPC = Cylinders x Cylinders		Country U = USA C = Canada	Final Line Regulation 1 = Single Line Regulator 2 = Dual Line Regulators		Delivery Pressure 1 = 50psi 2 = 80psi 3 = 180psi		
PX -	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
			Cabinet Type 1 = Standard 2 = Weatherproof	Gas Service AI = Air/Medical Air AR = Argon CD = Carbon Dioxide HE = Helium HO = Hyperbaric Oxygen NT = Nitrogen		Flow & Heater Options L = Standard Flow H = High Flow W = With heaters (see chart on reverse side for flow capacities)		

Examples:

PX-NPCU12OX1L = Cylinder x Cylinder Genesys™ Analog Manifold, Standard Cabinet, CGA 540 Oxygen service, Dual Line Regulators, 50 psi delivery, standard flow.