



Liquid Cylinders

TTL 1000 Digital Manifold

Nitrous Oxide

- ✓ Fully Automatic
- ✓ Digital Display
- ✓ Easy to Service
- ✓ Easy to Install
- ✓ Fail-Safe Design
- ✓ Convertible

Specifications

Class 1 Inc. GeneSYS Series, fully automatic, digital manifold for liquid gas service, factory assembled and tested, and cleaned for oxygen service. Manifold to be CSA or CUL Certified, and generally as follows:

N₂O Model: TTL1000-4-Y
 Y=No. of Cylinders: _____
 Delivery Pressure: 50 PSI* (3.4 bar)
 Maximum Flow: 500 SCFH (472 / min)¹

Changeover from primary to secondary supply and alternation of primary supply shall be fully automatic and shall not require manual reset of the manifold after cylinder change out. Gas flow and cylinder bank changeover shall be unaffected in the event of power failure.

The manifold shall use two high-flow control solenoid valves. Changeover shall be accomplished by differential pressure. Manifolds requiring a shuttle valve for changeover shall not be acceptable. Manifold shall have an integral economizer circuit to minimize gas loss.

Cabinet: Primed and painted steel surface mount control panel complete with hinged access door, and wall mounting hardware. Door-mounted indicators to include "Service", "Ready" and "Empty" LED's for each of the left and right



cylinder banks, and large LED digital displays of each cylinder bank pressure and the main supply pressure. Internal steel power supply enclosure complete with 90-260V/24V, 50/60 Hz, switching power supply, and user terminal connections.

Piping Components: Cabinet mounted components to include two primary regulators, two pressure transmitters, two inlet check valves, two heavy-duty NO brass solenoid valves, four union-style isolation ball valves, two brass main line pressure regulators, and three externally mounted, ASME certified pressure relief valves complete with union connections.

Headers: Header bars to be of silver brazed, rigid, brass pipe and fittings, and to be labeled for the intended gas service. Headers to include gas-specific inlet connectors with integral check valve.

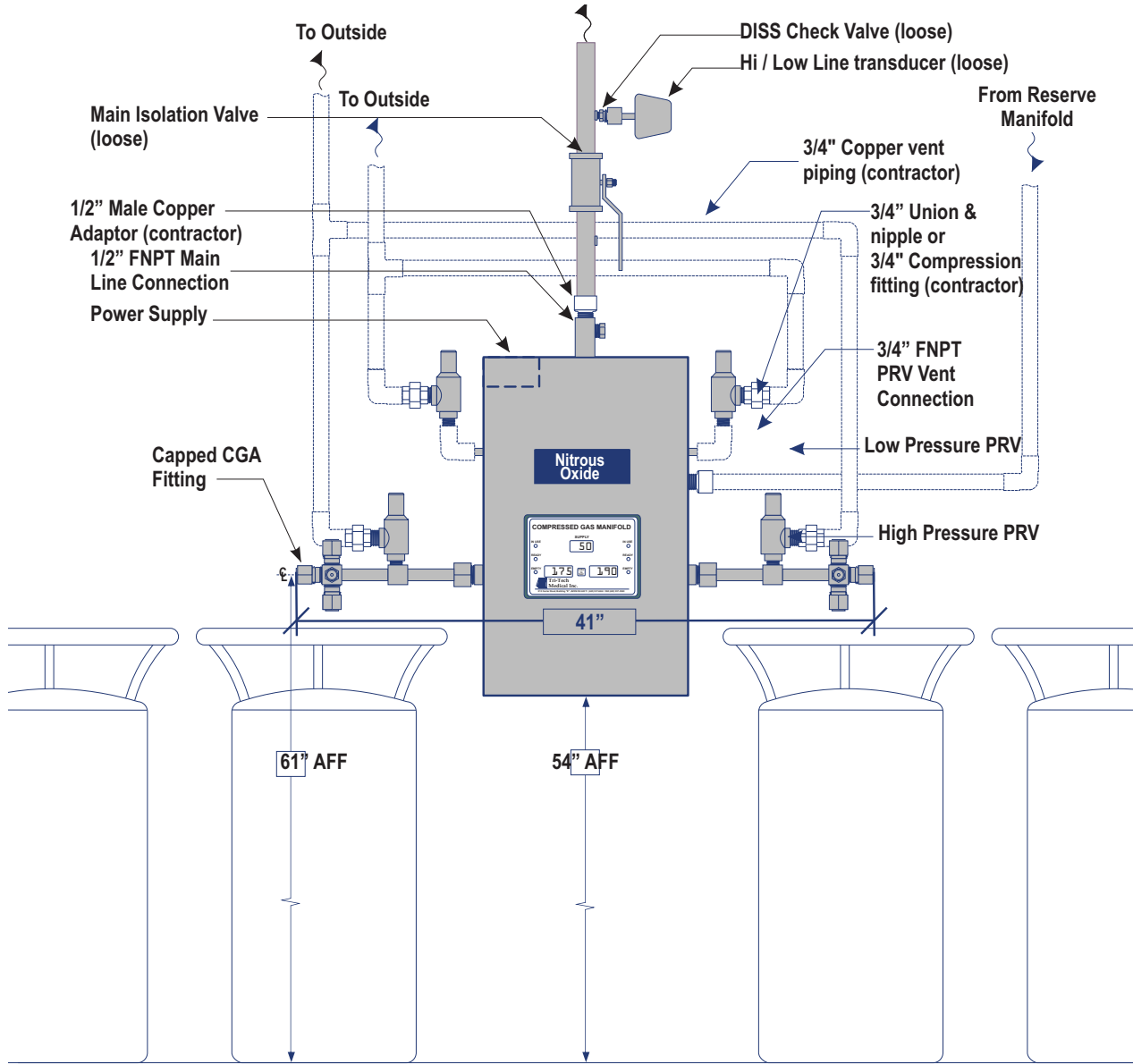
Pigtails: 72" flexible cryogenic cylinder pigtails to be gas-specific, complete with CGA nut and nipple inlet fitting with reverse flow outlet check valve, and CGA nut and nipple outlet fitting.

* = Nominal delivery pressure

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Overall Manifold Length

Model	Configuration	2 Cyls (")	4 Cyls (")	6 Cyls (")
TTL1000-4-Y	without vessels	37	37	41
TTL1000-4-Y	with vessels	84	132	180