

High-Pressure Cylinders

- ✓ Fully Automatic
- ✓ Digital Display
- ✓ Easy to Service
- ✓ Easy to Install
- ✓ Fail-Safe Design
- ✓ Choice of Header Configurations
- ✓ Expandable

Specifications

Class 1 Inc. Genesys Series, fully automatic, digital manifold, factory assembled and tested,

and cleaned for oxygen service. Manifold to be CSA or CUL Certified, and generally as follows:

N₂O Model: TTM40-4-Y-Z [or TTM500-4-Y-Z]

CO₂ Model: TTM40-8-Y-Z [or TTM500-8-Y-Z]

No. of Cylinders: _____

Delivery Pressure: 50 PSI* (3.4 bar)

Maximum Flow: 40** SCFH (19 l/min)

Maximum Flow: 500*** SCFH (236 l/min)

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 changeout. Gas flow and cylinder bank changeover shall be unaffected in the event of power failure.

The manifold shall use a single high-flow control solenoid valve. Changeover shall be accomplished by differential pressure. Manifolds requiring a shuttle valve for changeover shall not be acceptable.

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 DIN rail mounted user terminal connections.

* = Nominal delivery pressure

** = TTM40 Models - 40 SCFH

*** = TTM500 Models (includes gas heaters) - 500 SCFH based on pressure drop of 10 PSI

TTM40 Digital Manifold TTM500 Digital Manifold

Nitrous Oxide | Carbon Dioxide

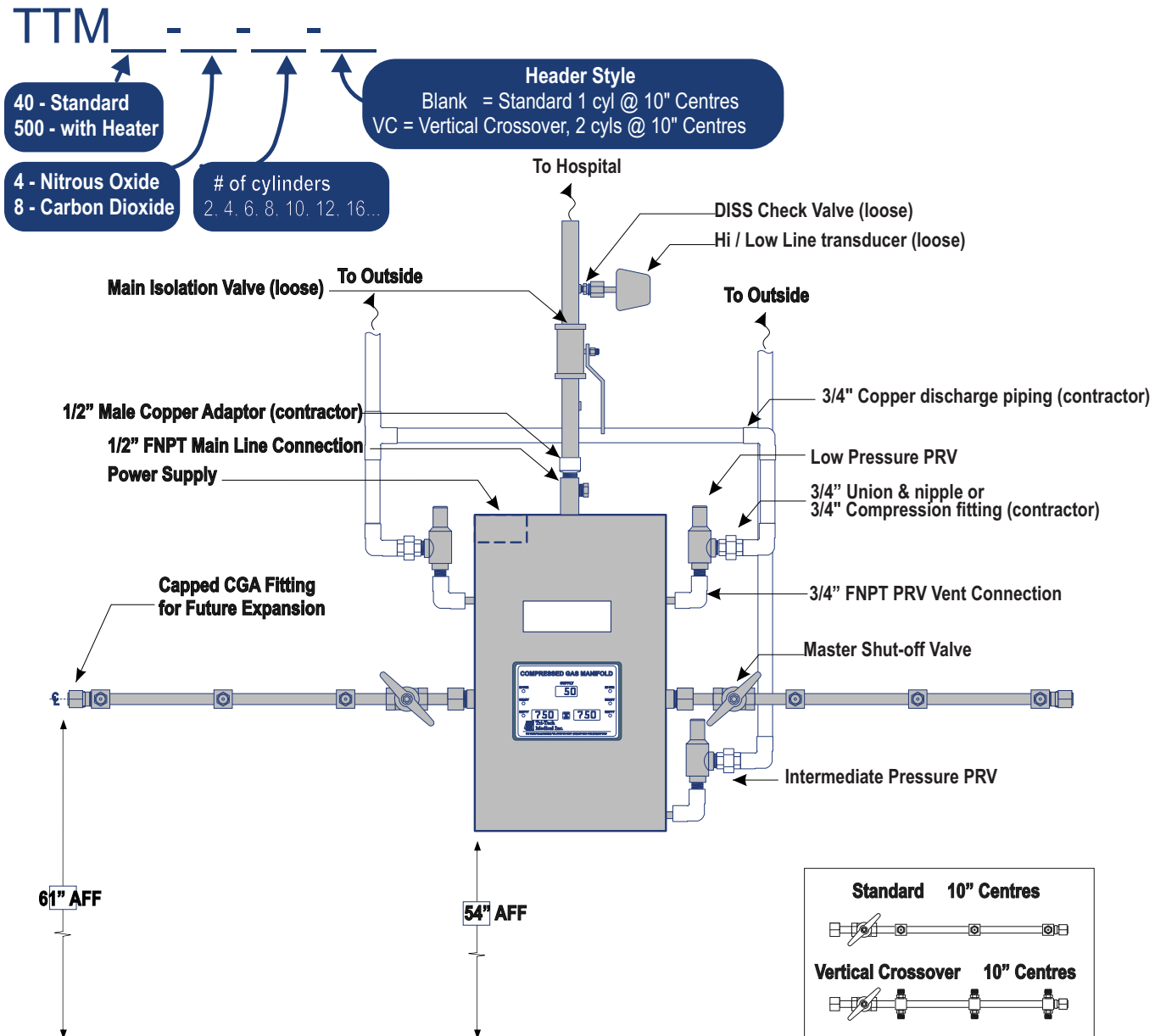


Piping Components: Cabinet mounted components to include two primary regulators, two pressure transmitters, two inlet check valves, one heavy-duty NO brass solenoid valve, four union-style isolation ball valves, two brass main line pressure regulators, and three externally mounted, ASME certified pressure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

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

Pigtails: Cylinder pigtailed to be gas-specific, complete with CGA nut and nipple inlet fitting and CGA nut and nipple outlet fitting. Pigtails for Nitrous Oxide service to be 24", semi-rigid, copper with reverse flow outlet check valve. Note: Teflon-lined pigtailed shall not be acceptable for Nitrous Oxide. Pigtails for Carbon Dioxide service to be 24" Teflon-lined flexible stainless steel.

[TTM500 Models]: Manifold to include two internal, cartridge style, 120 volt, primary regulator heaters, complete with thermostat regulator, aluminum mounting plates and labelled protective shield.



Overall Manifold Length

Model	Header Style	Cylinder Layout	2 Cyls (")	4 Cyls (")	6 Cyls (")	8 Cyls (")	10 Cyls (")	12 Cyls (")	20 Cyls (")
TTM_-X-Y	Standard	10" o.c.	43	63	83	103	123	143	225
TTM_-X-Y-VC	Vertical Crossover	10" o.c.	-	43	-	63	-	83	123
TTM_-X-Y-ST	Staggered	5" o.c.	-	52	62	72	82	92	132