

## High-Pressure Cylinders

## TTM4500 Digital Manifold

Oxygen | Medical Air

- ✓ 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:

O2 Model: TTM4500-9-Y-Z

Med Air Model: TTM4500-2-Y-Z

No. of Cylinders: \_\_\_\_\_

Delivery Pressure: 50 PSI \* (3.4 bar)

Maximum Flow: 4500\*\* SCFH (2125 l·min<sup>-1</sup>)

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 user terminal connections.

\* = Nominal delivery pressure

\*\* = 4500 SCFH

Based on pressure drop of 10 PSI



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 pigtails to be gas-specific, complete with CGA nut and nipple inlet and outlet fittings. Pigtails to be 30" semi-rigid, copper. Teflon-lined pigtails shall not be acceptable.

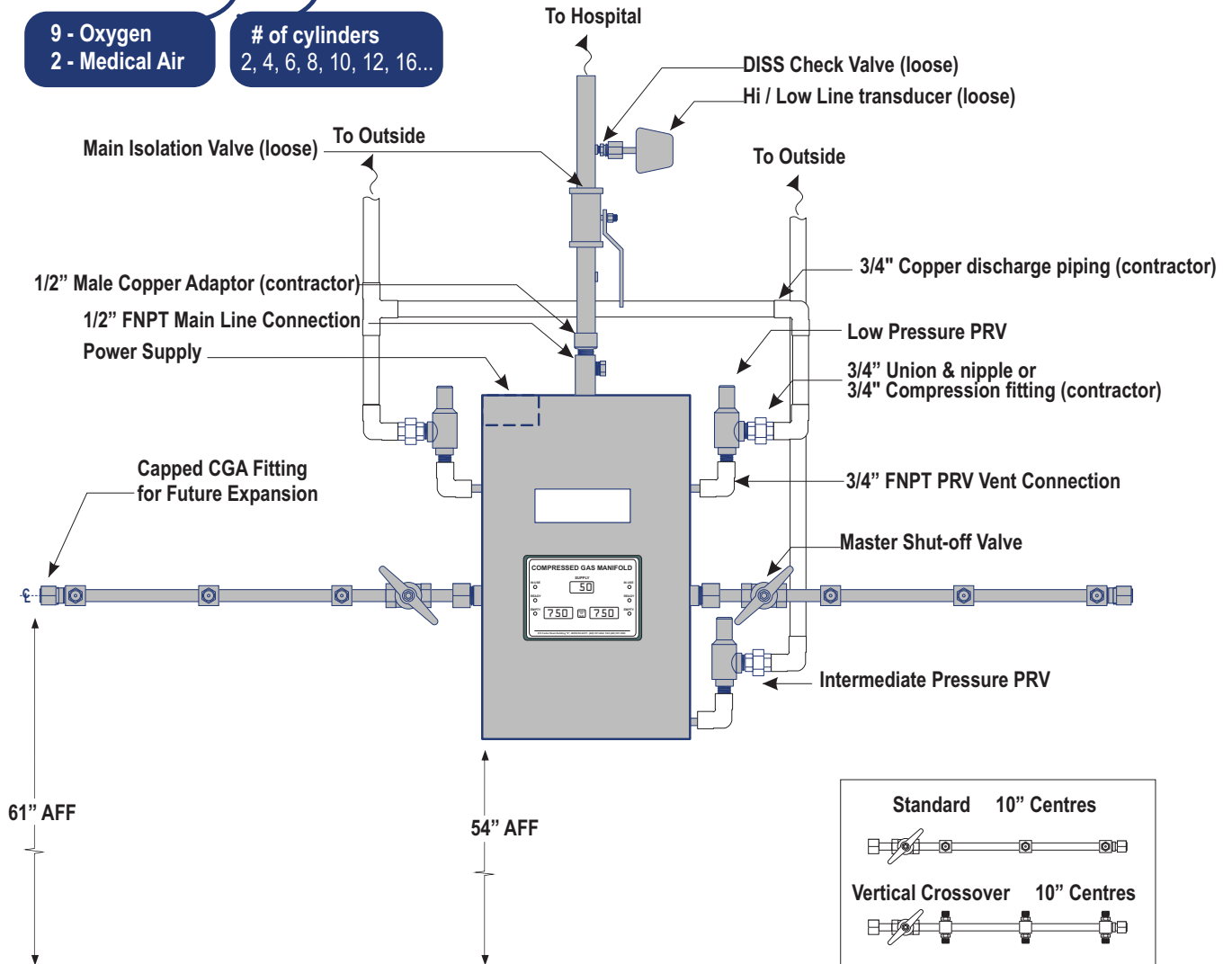
**TTM4500 Digital Manifold**  
Oxygen | Medical Air

TTM4500- - -

**Header Style**  
Blank = Standard 1 cyl @ 10" Centres  
VC = Vertical Crossover, 2 cys @ 10" Centres

**9 - Oxygen**  
**2 - Medical Air**

**# of cylinders**  
2, 4, 6, 8, 10, 12, 16...



**Overall Manifold Length**

Model	Header Style	Cylinder Layout	2 Cyls (")	4 Cyls (")	6 Cyls (")	8 Cyls (")	10 Cyls (")	12 Cyls (")	20 Cyls (")
TTM4500-X-Y	Standard	10" o.c.	43	63	83	103	123	143	225
TTM4500-X-Y-VC	Vertical Crossover	10" o.c.	-	43	-	63	-	83	123
TTM4500-X-Y-ST	Staggered	5" o.c.	-	52	62	72	82	92	132