



A Product of Mc Automation & Controls Pvt. Ltd.



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Leveraging the power of technology to create a better world

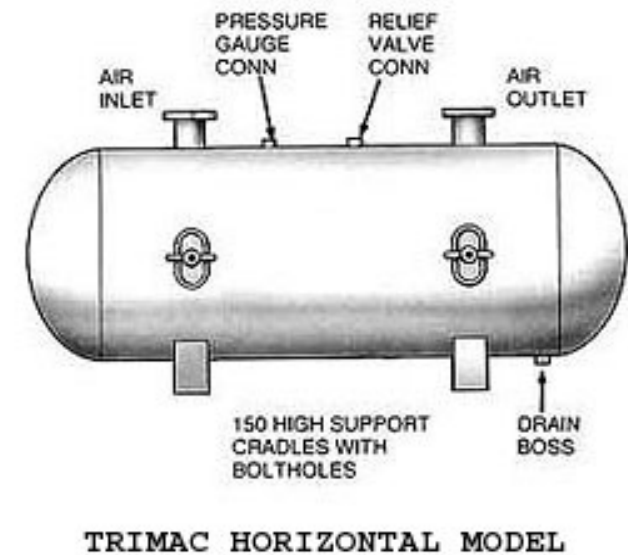
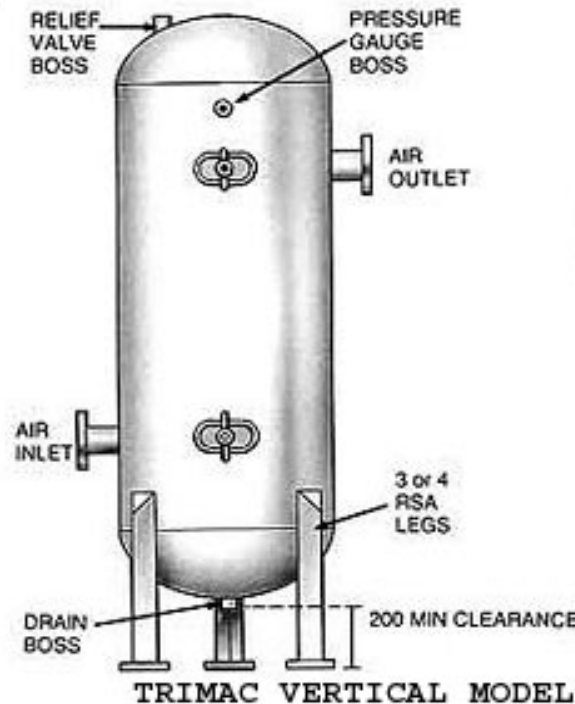
Mc Automation & Controls Pvt. Ltd.

We are the ISO certified company existing since year 2009 and registered MSME manufacturer, providing quality products conforming to BIS & ISO Rules & Regulations.

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We're shaping the way we live, move, learn, and heal in modern Industries

REAL PROFIT, REAL IMPACT

GRADIENT® offers Air-Receiver Tank , constructed as per IS 2825:1969. The material we use in manufacturing vessel shall conform to IS 2062 that offers high corrosion sustainability. Our Air-Receiver Tank provides the following functionalities:-

1. Acts as a reservoir of compressed air for peak demands.
2. Helps in removing water from the system by allowing the air a chance to cool.
3. This minimizes pulsation in the system caused by a reciprocating compressor or a cyclic process downstream.
4. Our Air-Receiver Tanks come within the classification of class-III type. We provide the option of customization of the tanks as per customer requirement and do agree for the allowable limit for the hydrostatic pressure proposed by the customer.

A WHOLE NEW WORLD OF OPPORTUNITY

Gradient® the product provides EEEE philosophy i.e. Effective-Efficient-Economical-Energy Efficient. That provides new entrepreneur and existing tycoons a reliable and high productive environment to grow and stabilize.

GRADIENT® AIR RECEIVER TANK:

Air receivers in compressed air systems serves the important purposes of

- **equalizing the pressure variation** from the start/stop and modulating sequence of the compressor
- **storage of air volume** equalizing the variation in consumption and demand from the system

The reason to choose GRADIENT model for air receiver tank is that our technocrat provides the best suitable tank as per the customer requirement and the dimensions may be customized as per the customer requirement. Our technocrat may visit* the customer end for the fine calculations according to their requirement.

Sizing an Air Receiver

For an air compressor system with mean air consumption 1000 cfm , maximum tank pressure 110 psi , minimum tank pressure 100 psi and 5 sec time for

the receiver to go from upper to lower pressure - the volume of the receiver tank can be calculated by modifying (1) to

$$V = t C p_a / (p_1 - p_2)$$

$$= (5\text{ sec}) (1/60\text{ min/sec}) (1000\text{ cfm}) (14.7\text{ psi}) / ((110\text{ psi}) - (100\text{ psi}))$$

$$= \underline{122\text{ ft}^3}$$