


Farm Milk Tank Exam Training



Presented by: Wisconsin Department of
Agriculture, Trade and Consumer Protection

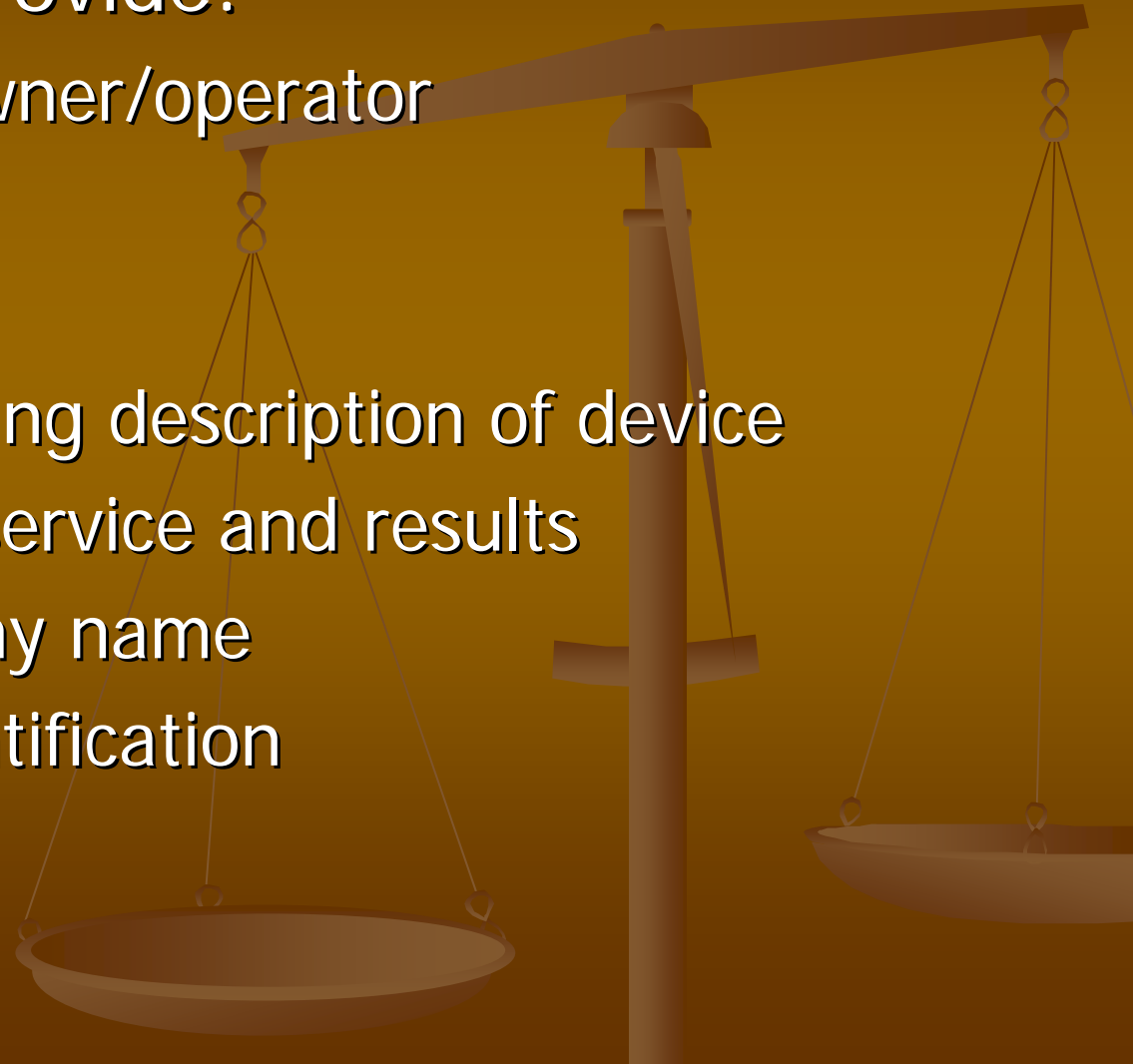
Dated: Fall 2005

Registered Technician Requirements

- Must be employed by a licensed service company
 - Pass the exam with a 70% score or higher
 - Maintain certification every 5 years
 - Submit report within 10 days of service to owner.
 - If device rejects, report is submitted to municipality or state
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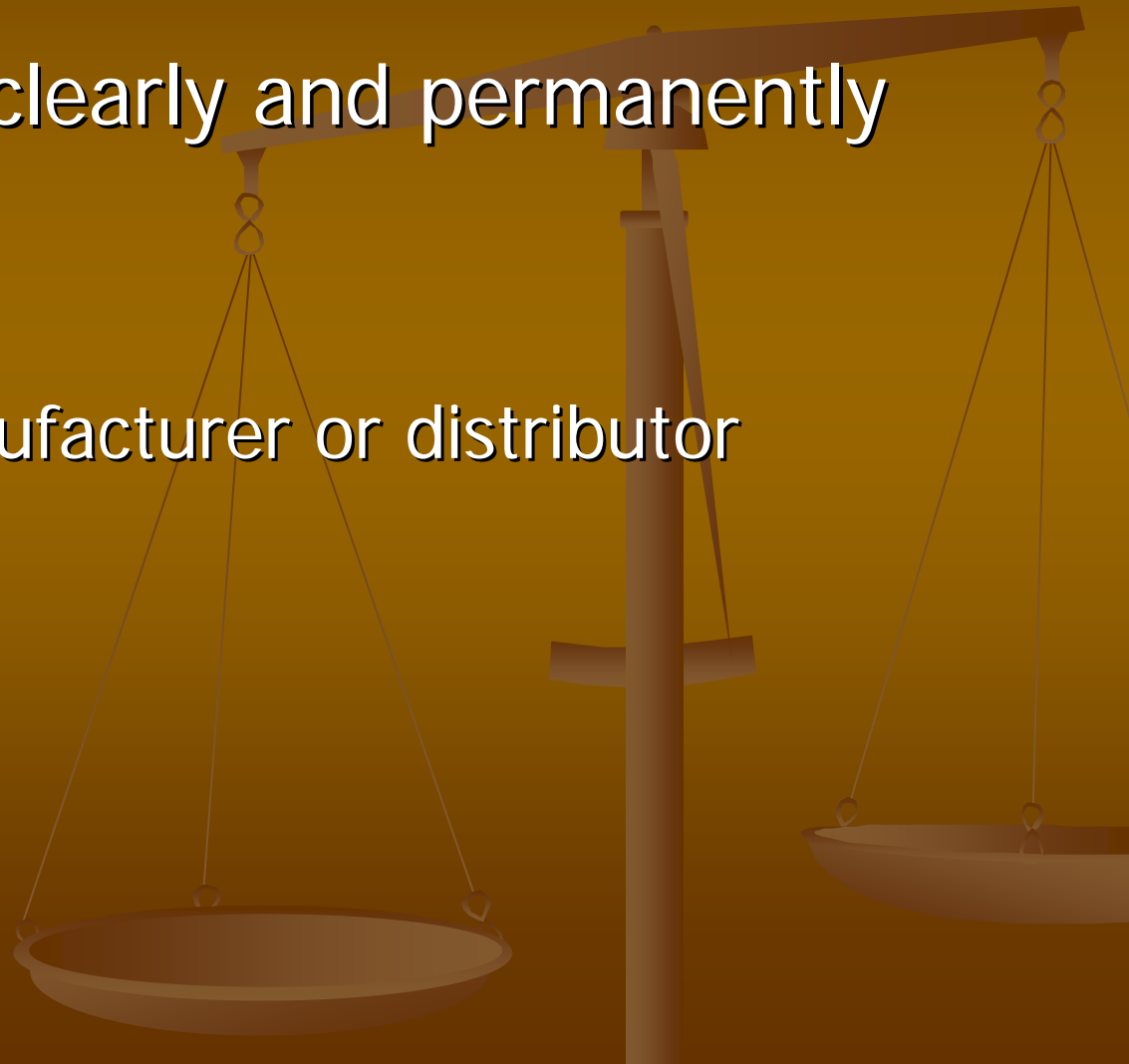
Registered Technician Requirements continued...

- Reports must provide:
 - Name of the owner/operator
 - Device location
 - Date of service
 - Unique identifying description of device
 - Description of service and results
 - Service company name
 - Technician identification



Weights and Measures Devices

- Devices shall be clearly and permanently marked with:
 - Identifier of manufacturer or distributor
 - Model Type

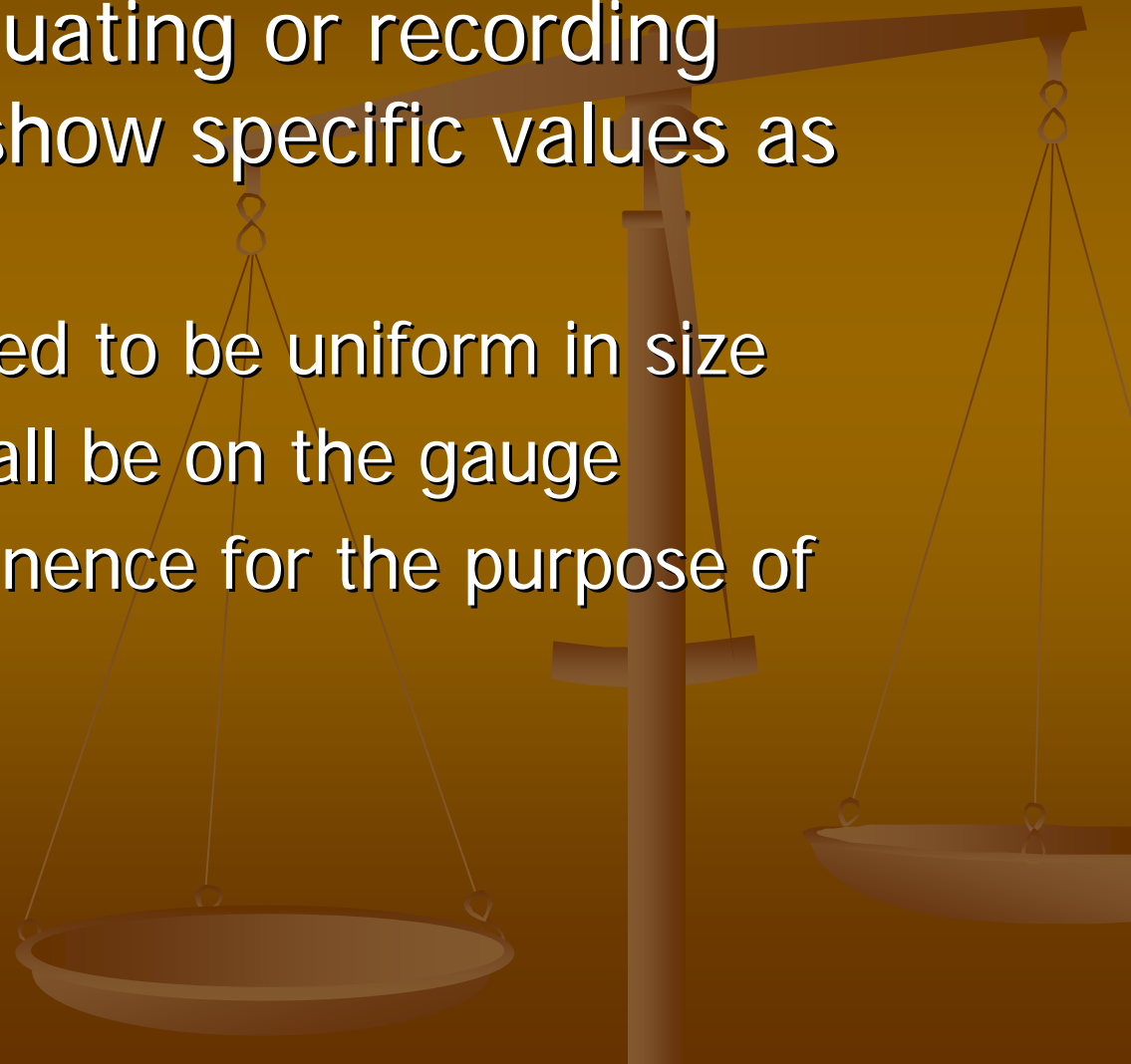


Farm Milk Tank

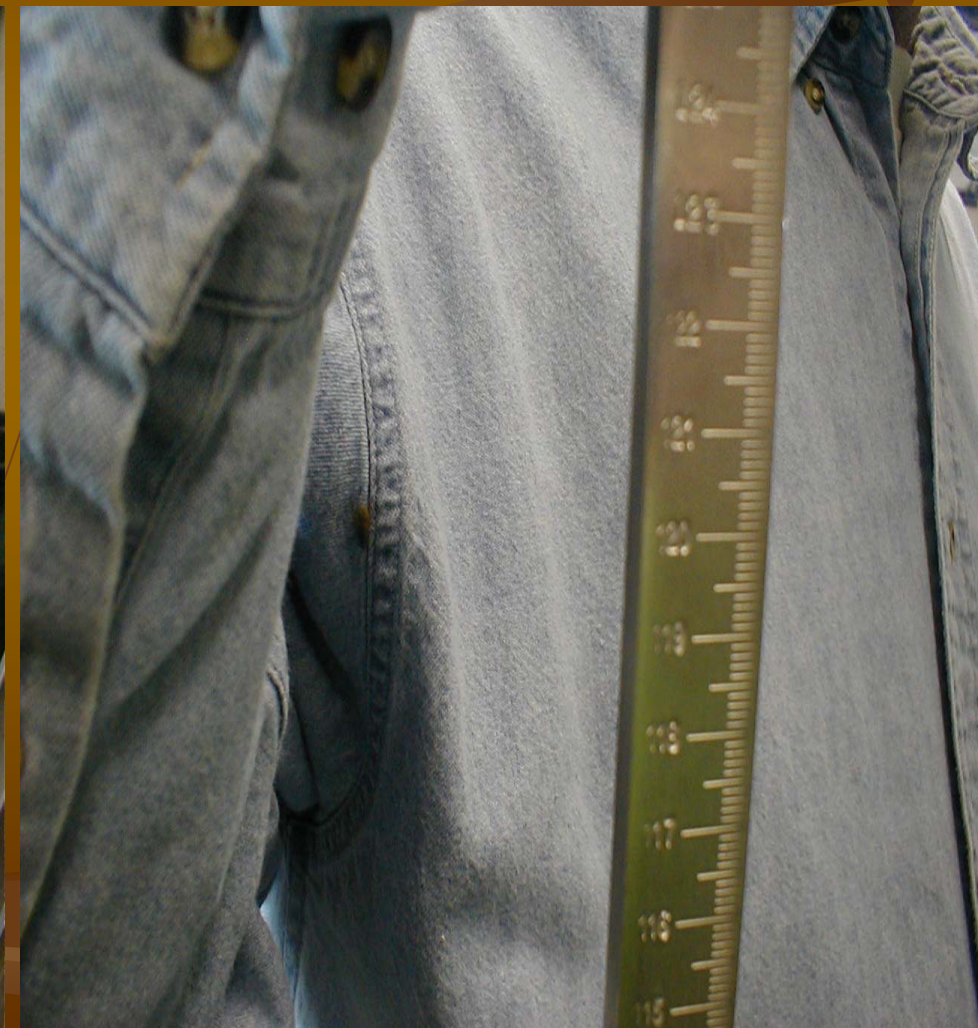


Weights and Measures Devices

- Indicating, graduating or recording elements shall show specific values as follows:
 - Graduations need to be uniform in size
 - Graduations shall be on the gauge
 - Maintain permanence for the purpose of legibility

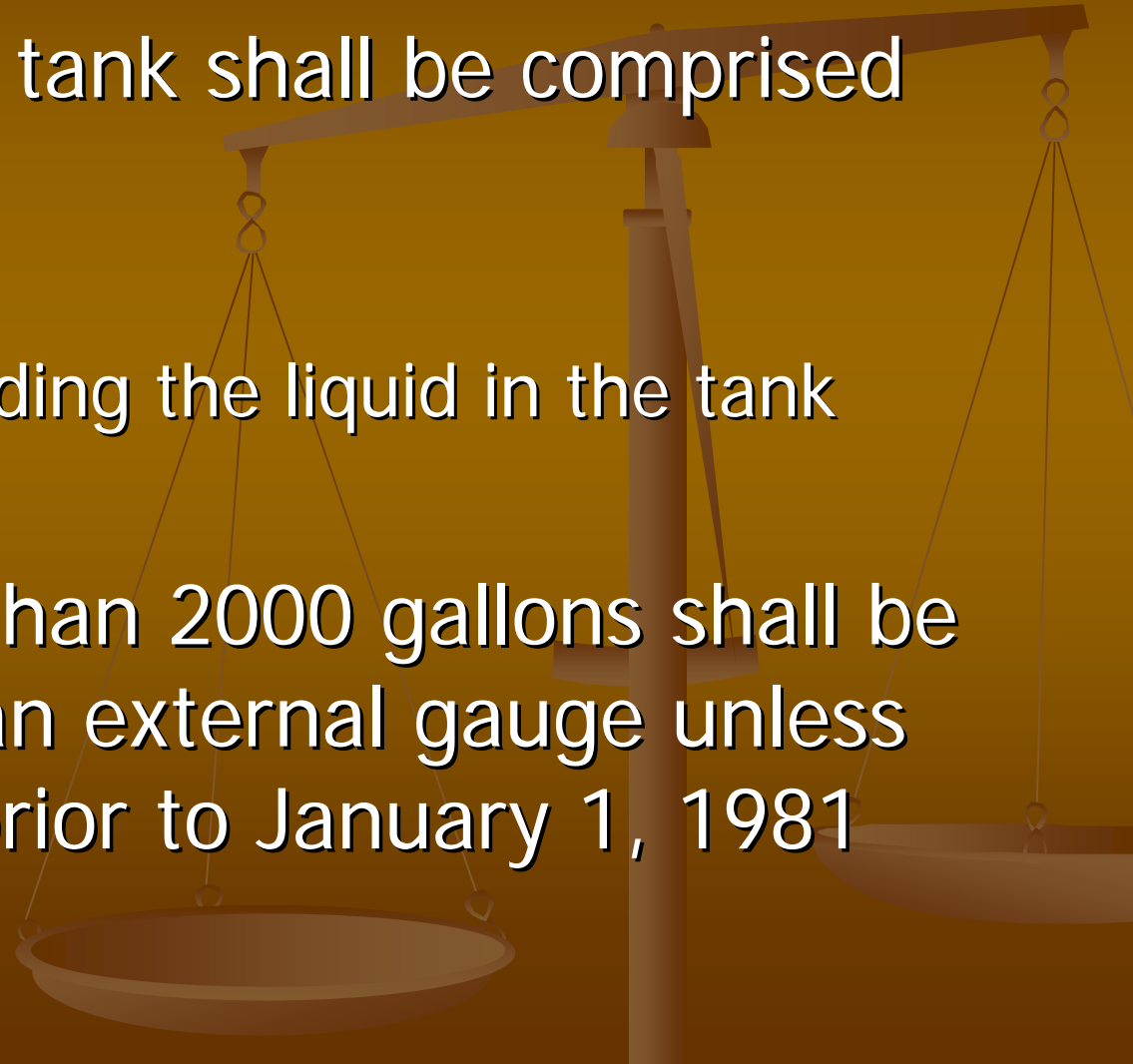


Gauge Rod



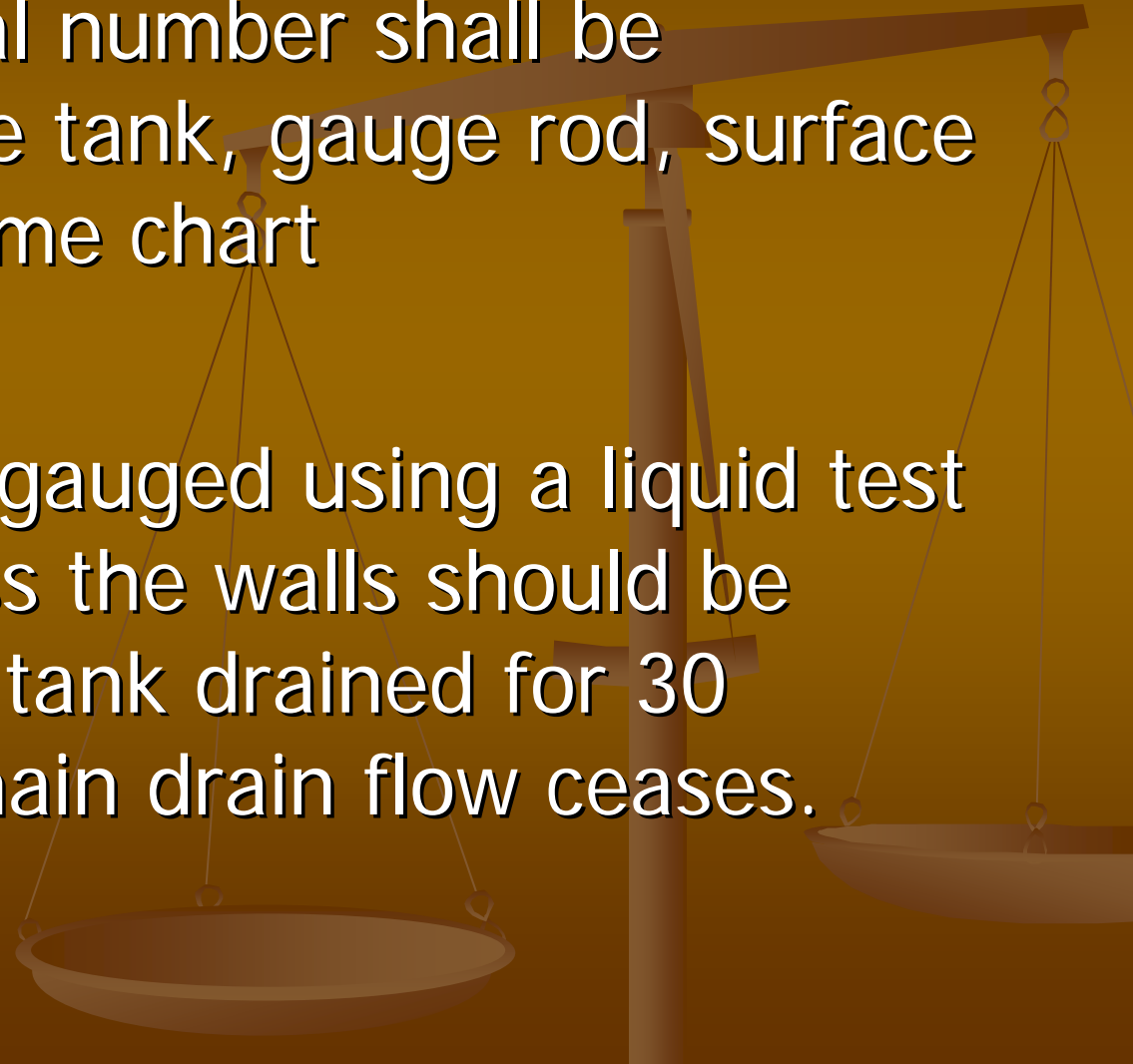
Farm Milk Tank

- To be considered suitable for commercial use a farm milk tank shall be comprised of:
 - A vessel
 - A means of reading the liquid in the tank
 - A volume chart
- A tank greater than 2000 gallons shall be equipped with an external gauge unless manufactured prior to January 1, 1981



Farm Milk Tank

- A common serial number shall be displayed on the tank, gauge rod, surface gauge and volume chart
- When a tank is gauged using a liquid test measure process the walls should be wetted and the tank drained for 30 seconds after main drain flow ceases.

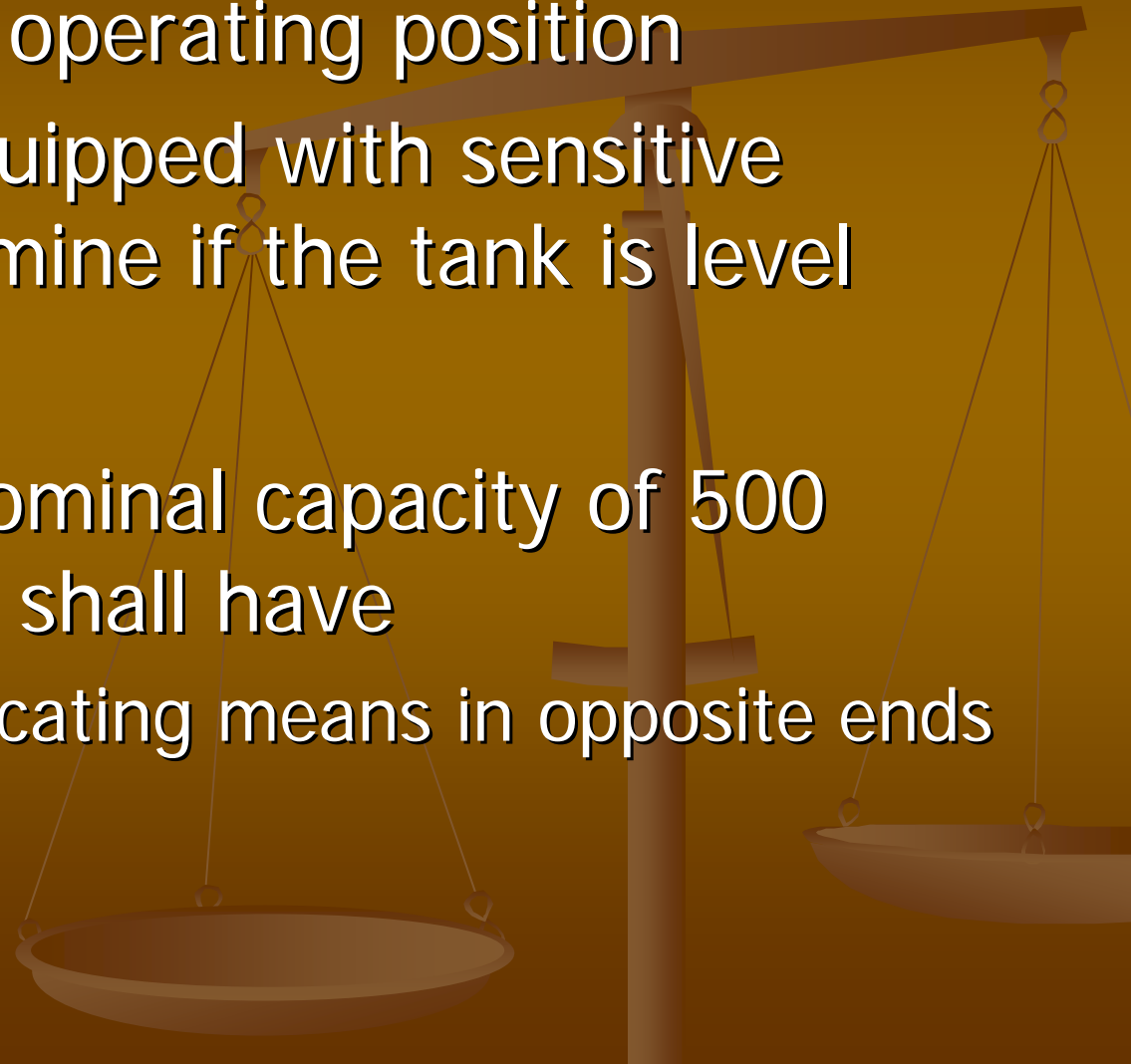


Insert Photo of Water Measure Process - Calibration



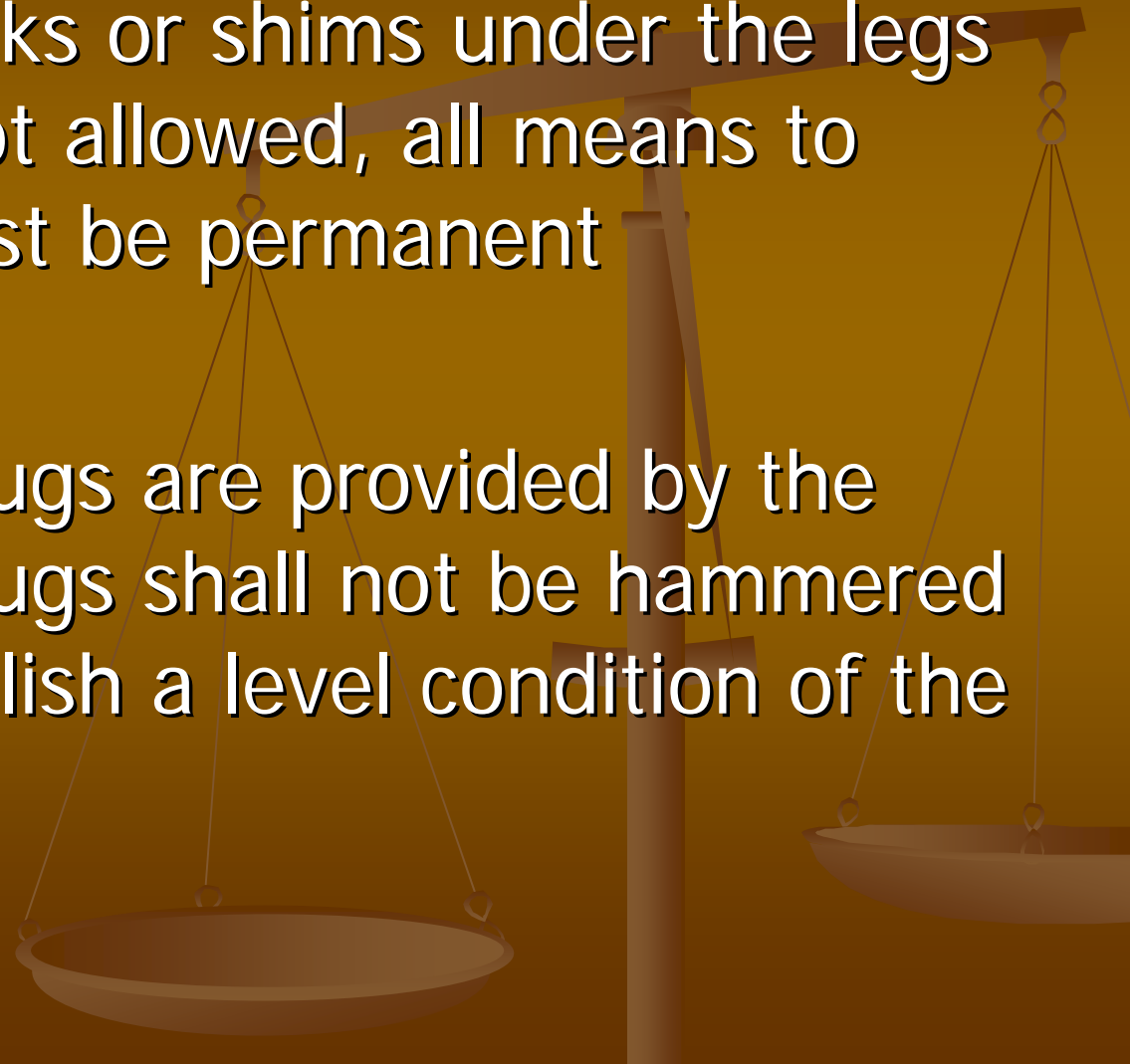
Milk Tank Leveling

- Level in normal operating position
- Permanently equipped with sensitive means to determine if the tank is level
- A tank with a nominal capacity of 500 gallons or more shall have
 - A two-level indicating means in opposite ends of tank



Leveling a Stationary Tank

- Removable blocks or shims under the legs of a tank are not allowed, all means to level a tank must be permanent
- When leveling lugs are provided by the manufacturer, lugs shall not be hammered or filed to establish a level condition of the tank



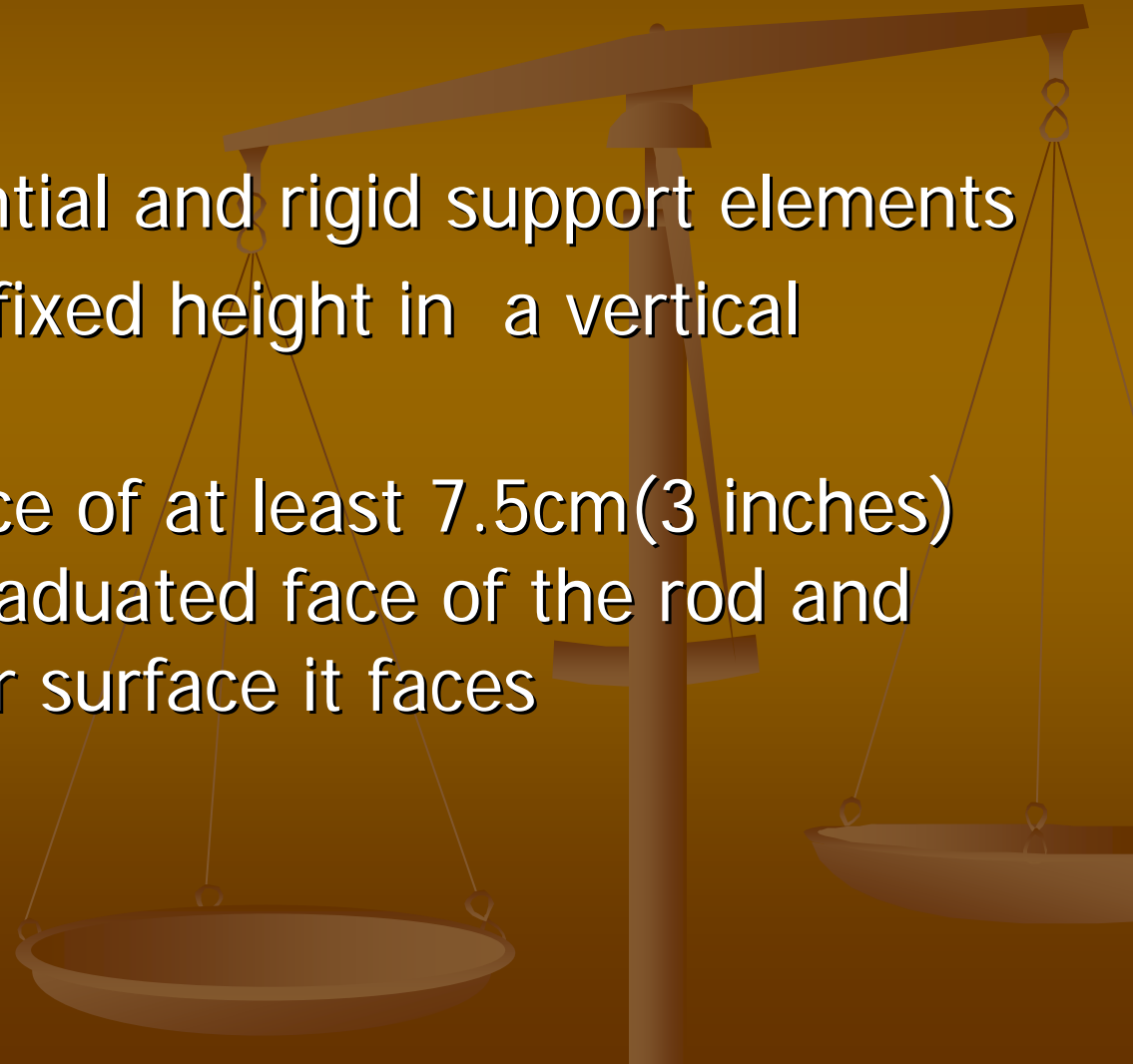
Example – Shims /Blocks

- Removable shims or blocks are not allowed



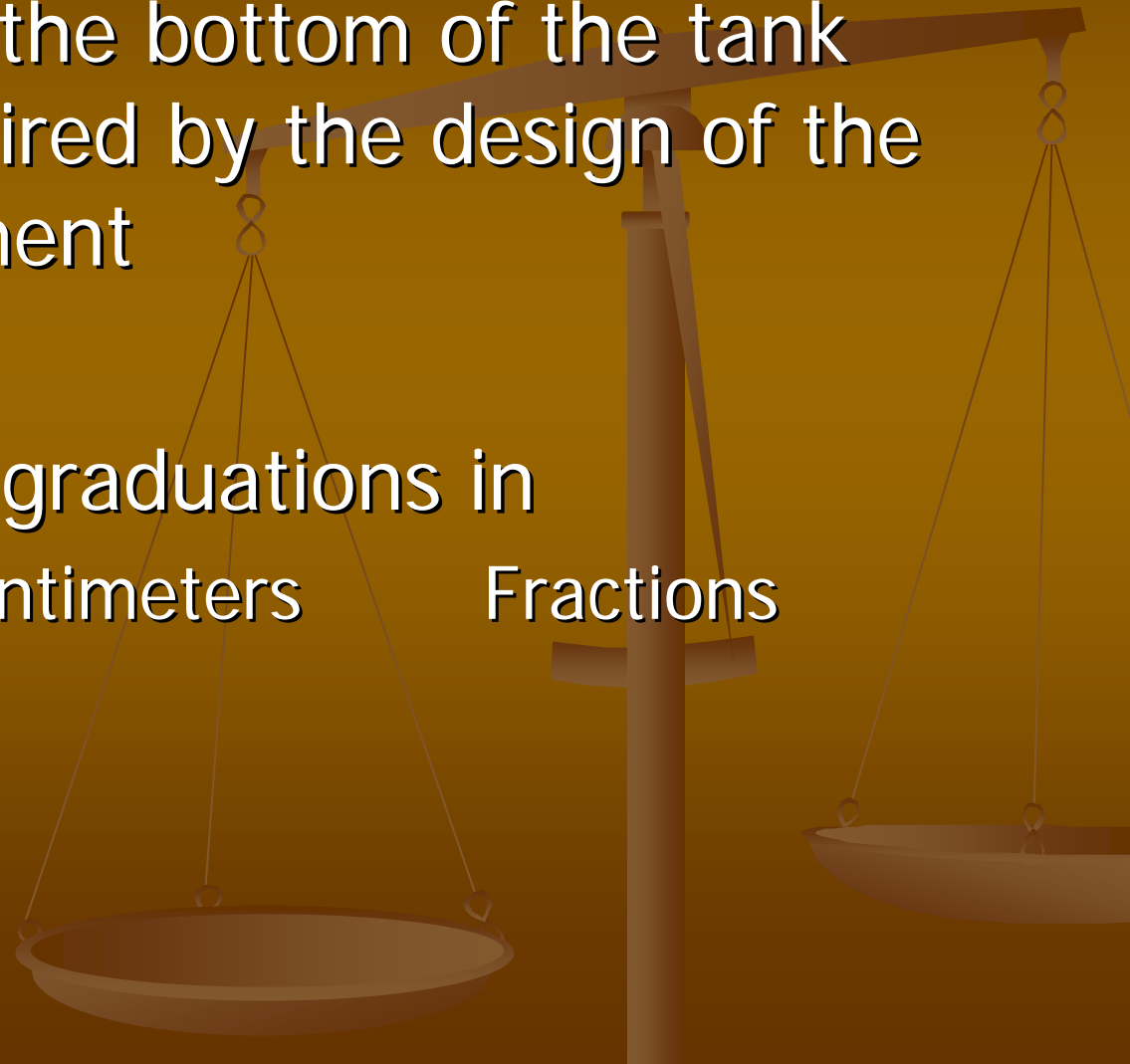
Gauge Rods

- Gauge rod supports or brackets shall
 - Provide substantial and rigid support elements
 - Seat itself at a fixed height in a vertical position
 - Have a clearance of at least 7.5cm(3 inches) between the graduated face of the rod and any tank wall or surface it faces

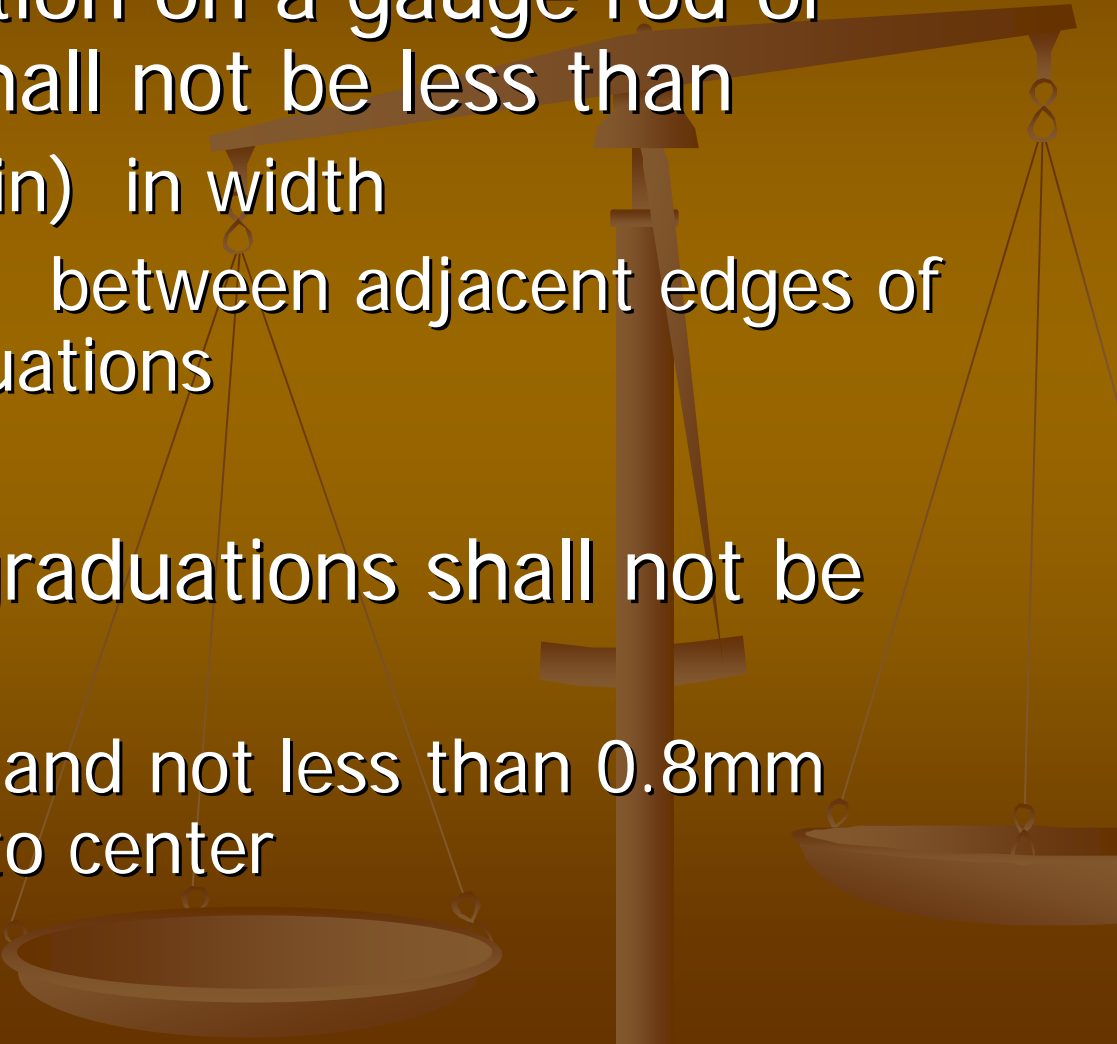


Gauge Rod or Surface Gauge

- Shall not touch the bottom of the tank unless it is required by the design of the supporting element
- Shall designate graduations in
Inches Centimeters Fractions
Numerical Series

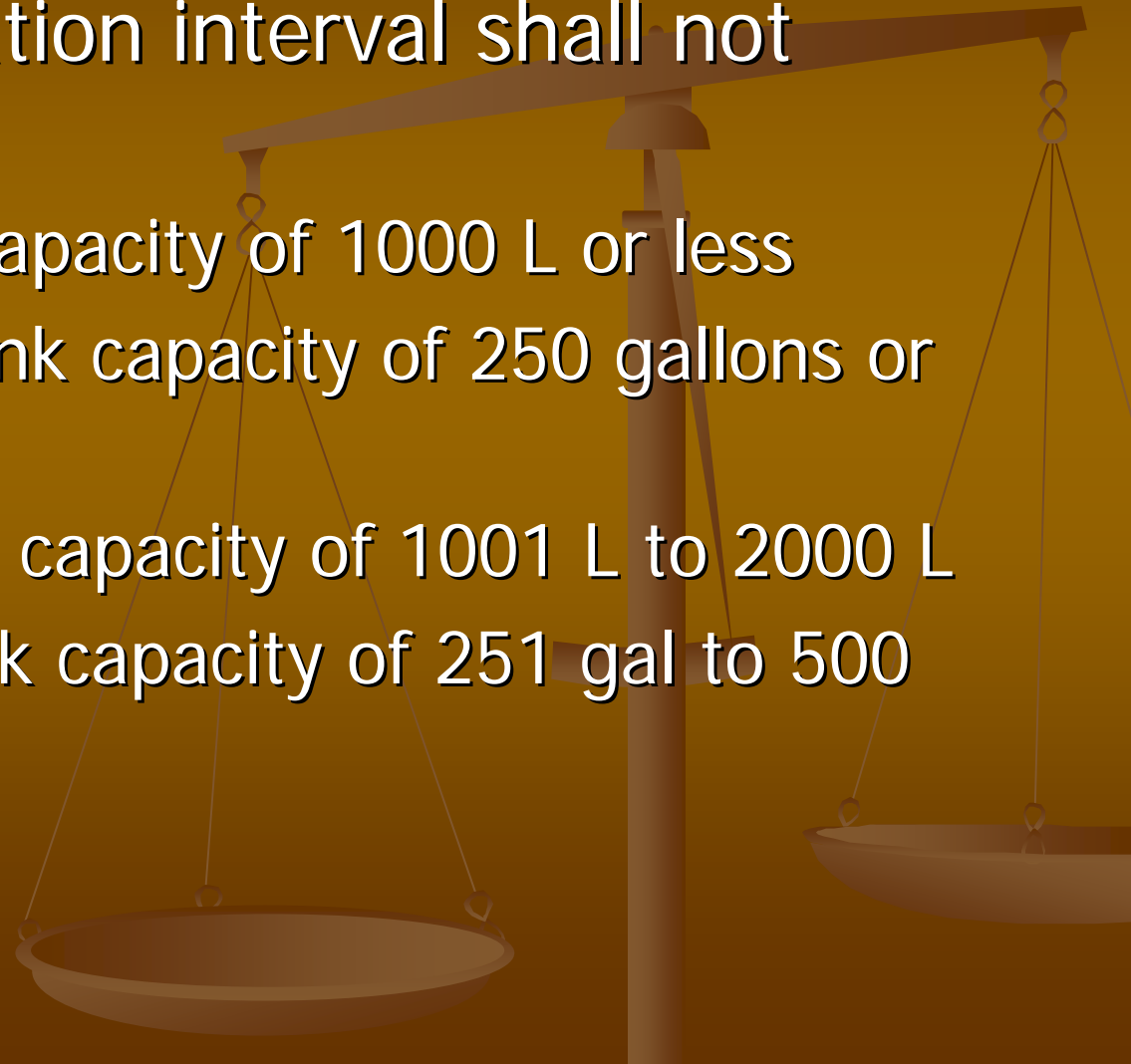


Gauge Rod or Surface Gauge

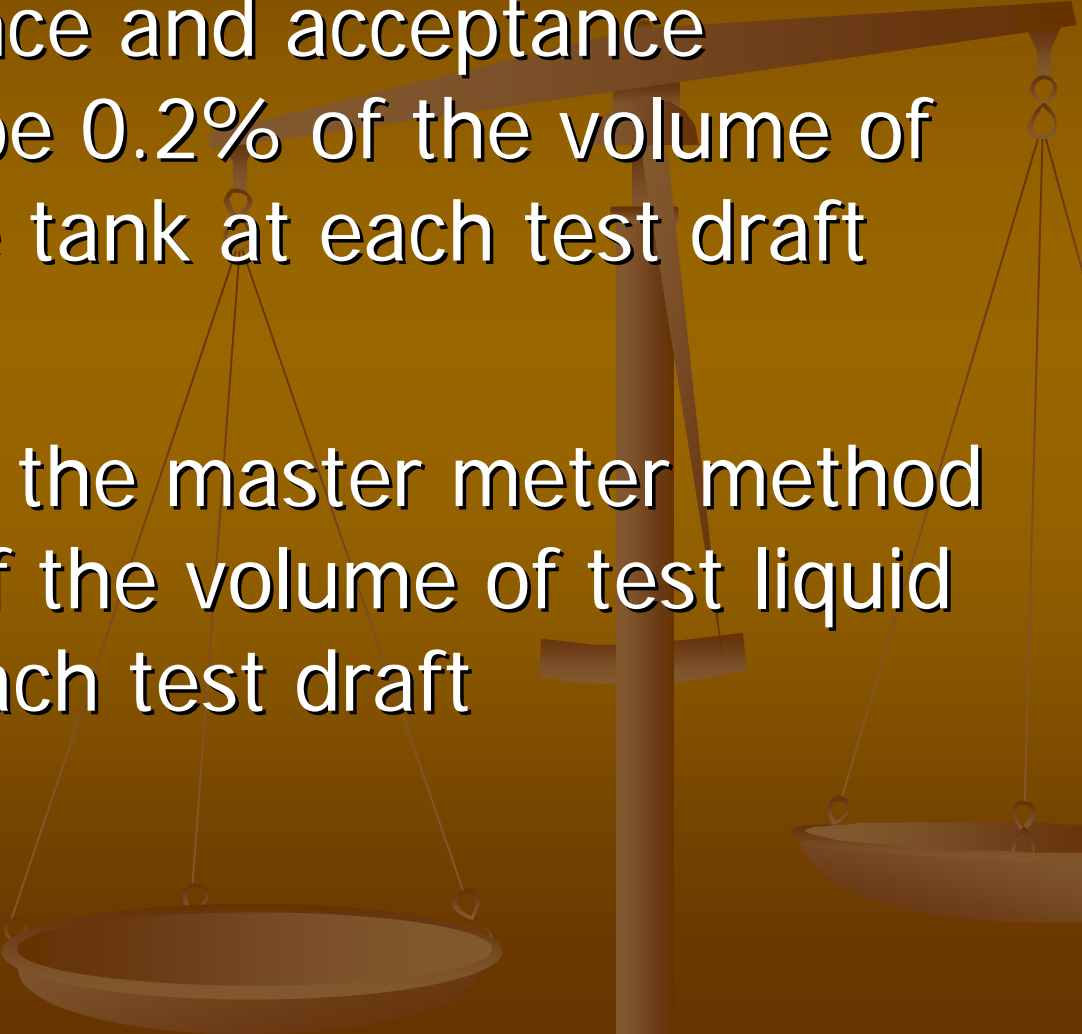
- Width of graduation on a gauge rod or surface gauge shall not be less than
 - 0.12mm (0.005 in) in width
 - 0.4mm (1/64 in) between adjacent edges of successive graduations
 - The spacing of graduations shall not be more than
 - 1.6mm (1/16in) and not less than 0.8mm (1/32in) center to center
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Gauge Rod or Surface Gauge

- Value of graduation interval shall not exceed
 - 2 L for a tank capacity of 1000 L or less
½ gallon for a tank capacity of 250 gallons or less
 - 4 L for a a tank capacity of 1001 L to 2000 L
1 gallon for a tank capacity of 251 gal to 500 gal



Acceptance Tolerances

- Basic maintenance and acceptance tolerance shall be 0.2% of the volume of test liquid in the tank at each test draft
 - Tanks tested by the master meter method shall be 0.4% of the volume of test liquid in the tank at each test draft
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Questions?

