



TANK WEIGHING ASSEMBLY

The Tank Weighing Assembly shall be designed for installation under tank gussets, flanges or legs to assure accurate measurement of the weight and its contents. Tanks weighing assemblies shall be located where shown on the contract drawings. Tanks weighing assemblies shall be Eagle Microsystems, Inc. Model TWA-XXX.

Each tank weighing assembly shall be constructed of high strength, ductile cast iron and shall be zinc plated for corrosion resistance. Load shall be applied via a center-mounted loading plate which shall transmit the load to the center of a double-ended shear beam load cell for optimum accuracy and durability. The load cell shall be sized for a specified fraction of the intended total load. The load cell shall be constructed of electroless nickel-plated tool steel.

The weighing assembly shall be designed to be bolted directly to the floor and the vessel without requiring extra mounting plates, load buttons or other attachment devices. The assembly shall provide for thermal growth and contraction of the weighed structure without the need for installation of check rod assemblies. The assembly shall be approved for application in UBC-88 Seismic Zones 1-4.

Each assembly shall have a rated capacity of _____ pounds with a safe overload capacity of 200%. In addition the load cell shall be capable of withstanding a side load equal to 100% of rated load without damage.

The assembly shall provide a measurement accuracy of +/- 0.1% of rated maximum load. The load cell shall require an excitation voltage of 15 Vdc and full scale output shall be 3 mV/V +/- 0.25%. The load cell shall be Factory Mutual Approved for use in Class 1, Div. 1, Group A,B,C, & D hazardous environments. Each unit shall be furnished with