

Well Flow Management

Well Testing | Measurement

Atmospheric Gauge Tank

Atmospheric (gauge) tanks are designed to operate at minimum pressures. Included in the design is a venting system which allows removal of any vapours from the tank whilst flow is directed to it.

These tanks have two compartments to enable flow to one compartment while the other is being emptied.

The standard size and configuration for atmospheric tanks used during well testing is dual compartment, with a total capacity of 90 bbl (45 bbl per compartment). Other capacities and configurations are available however to suit client requirements.

A flame arrestor is an integral feature of the gauge tank and is flanged directly to the unit. An additional safety feature is the inclusion of a “thief hatch”, this is created by forming a balanced man entry opening which allows the cover to be lifted, thus venting to the atmosphere should pressure begin to build up in the vessel.

Expro Atmospheric tanks are additionally fitted with optional, removable 2” (50mm) 150 psi (10 bar) rated steam heated coils located in the lower region of each tank compartment. These are essential where heavy crude oil or emulsions are anticipated.

Applications

- Onshore & offshore well testing
- Measure large volume of liquid at atmospheric pressure
- Measure low liquid flow rate

Features and benefits

- Liquid level indication
- Thief hatch to prevent over pressuring of the vessel
- Two compartment
- Flame arrestor to prevent flashback of any ignited gases from the vent line
- Third-party certified in accordance with requirements
- Optional steam heated coils



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Technical specifications			
Capacity bbl (m³)	50 (8)	100 (16)	200 (32)
Working pressure	Atmospheric	Atmospheric	Atmospheric
Manhole size inches (mm)	10 (254) Hinged on each compartment	18 (457) Hinged on each compartment	18 (457) Hinged on each compartment
Connections	2" fig 200 F - Inlet 3" fig 200 M - Outlet 3" drain line	3" fig 206 F - Inlet 4" fig 206 M - Outlet 3" drain line	3" fig 206 F - Inlet 4" fig 206 M - Outlet 3" drain line
Weight (dry) lbs (kgs)	4,410 (2,000)	8,350 (3,787)	12,350 (5,601)
Dimensions (L x W x H) ft. (m)	7 x 7 x 9 (2.1 x 2.1 x 2.7)	14.5 x 8 x 8 (4.4 x 2.4 x 2.4) Dimensions with flame arrestor removed	21.5 x 8 x 8 (6.5 x 6.5 x 2.4) Dimensions with flame arrestor removed

Note: Piping design code as per ANSI B31.B

Other sizes, configurations and pressure ratings are available to meet most applications, for more information contact your local Expro representative or email welltesting@expro.com