

Well Flow Management

Well Testing | Solids management system

Enclosed Solids Handling Tank

The Expro Enclosed Solids Handling Tank (ESHT) enables solids removal and measurement with minimum exposure to vapours.

The ESHT is designed to operate at minimum pressures and to collect solids which are filtered out during the production process by high pressure applications.

The tank consists of a vertical, cylindrical upper section with a funnel shaped lower section. Sight glasses in the funnel enable liquid and solid level determination. A 10" air operated valve at the bottom of the funnel allows draining of solids into suitable containers.

The design includes a 2" or 3" inlet, 2" liquid drains at several levels on the tank and a flame arrestor as an integral part of the vent line for safety of operation.

An internal water spray enables the tank and sight glasses to be flushed periodically.

Finally, a weight indicator is supplied to measure the amount of solids produced and a roller conveyor at the bottom of the frame enables easy and safe removal of the filled containers.

Applications

- Onshore and offshore oil and gas well testing and clean-up operations
- Solids exclusion
- Frac clean up

Features and benefits

- Reduces the need for manual handling
- Reduces exposure to personnel
- Small footprint



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Technical specifications			
	Type 1	Type 2	Type 3
Working pressure (inlet manifold) psi (bar)	150 (10)	150 (10)	150 (10)
Working pressure (vessel) psi (bar)	Atmospheric	Atmospheric	150 (10)
Capacity bbl (m³)	10.4 (1.7)	12.6 (2.0)	9.4 (1.5)
Effluent inlet	2" fig 1502 (female)	3" fig 1502 (female)	3" fig 1502 (female)
Liquid outlet	2" fig 1502 (male)	2" fig 1502 (male)	2" fig 1502 (male)
Solids outlet	10" Knife valve	10" Knife valve	10" Knife valve
Water flush	½" Crowsfoot	½" Crowsfoot	1"150# flange
Relief outlet	N/A	N/A	4" fig 206
Vent outlet	N/A	N/A	4" fig 206
Air inlet	½" Crowsfoot	½" Crowsfoot	½" Crowsfoot
Manhole inches (mm)	16 (406.4)	19 (482.6)	24 (609.6)
Weight (dry) lbs (kgs)	6,062 (2,750)	7,716 (3,500)	16,534 (7000)
Dimensions (L x W x H) ft. (m)	6.6 x 6.2 x 14.8 (2.0 x 1.9 x 4.5)	6.6 x 6.2 x 12.5 (2.0 x 1.9 x 3.8)	6.9' x 5.9 x 14.4 (2.1 x 1.8 x 4.4)
Special features	<ul style="list-style-type: none"> Air operated solids drain valve Internal water flush system 4 liquid drains at several heights Integrated flame arrestor in vent line Separate weight indicator for solids measurement 	<ul style="list-style-type: none"> Air operated solids drain valve Internal water flush system 5 liquid drains at several heights Integrated flame arrestor in vent line Separate weight indicator for solids measurement 	<ul style="list-style-type: none"> Pressurized vessel Internal water flush system 5 liquid drains at several heights Separate weight indicator for solids measurement Nitrogen purge facility Air operated solids drain valve

Note: 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