

TANKAGE | VENTING GAUGE HATCHES

MODEL 200 & 300 TVTH



Features

- Economical gauge and thief hatch with integral pressure and vacuum relief.
- Flush top-mounted design does not extend into tank.
- Available in 4, 6, 8, 12, 16 and 32 ozsi pressure relief settings, with fixed 0.4 ozsi vacuum relief.
- Standard sweet trim (TVTH Model 200)
- Sour Service Trim (TVTH 300) with stainless or inconel springs
- Fusion-bond Epoxy (FBE) coating available for acid service

FEATURES

Economical Thief Hatch

- The Tank Vent Thief Hatch (TVTH) Model 200 and 300 are a budget-conscious choice for integrated thief access and pressure + vacuum relief.

Flush Top-Mount design

- The pressure and vacuum relief mechanism operates above the tank roof to maintain functionality if the thief hatch opening is irregular or undersize.

Variety of Pressure Settings

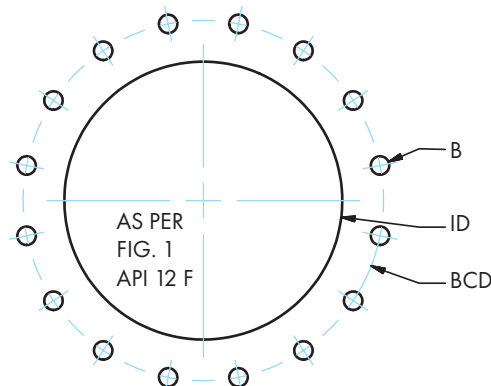
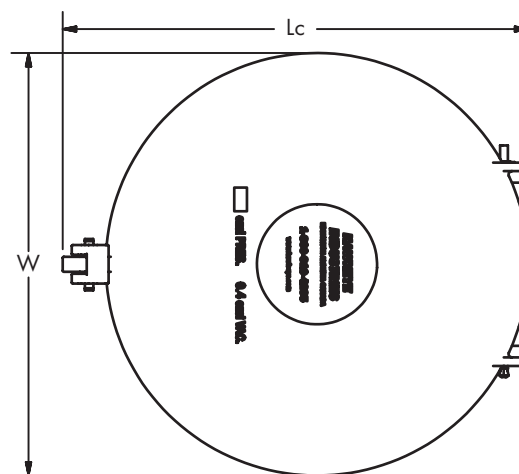
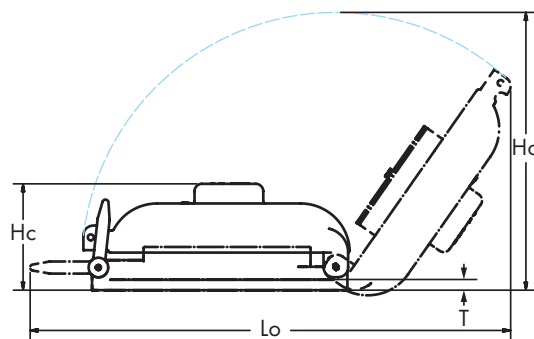
- The TVTH 200 and 300 are available with wide variety of factory-set pressure relief settings
- Vacuum relief is fixed at 0.4 ozsi.

Two Trim Levels for Sweet or Sour Service

- The TVTH 200 is designed for sweet service with polyisoprene pressure and vacuum gaskets and stainless steel springs.
- The TVTH 300 is suitable for sour service, with expanded FKM (Sponge Viton) gaskets and stainless steel, or optionally inconel, springs.

DIMENSIONS

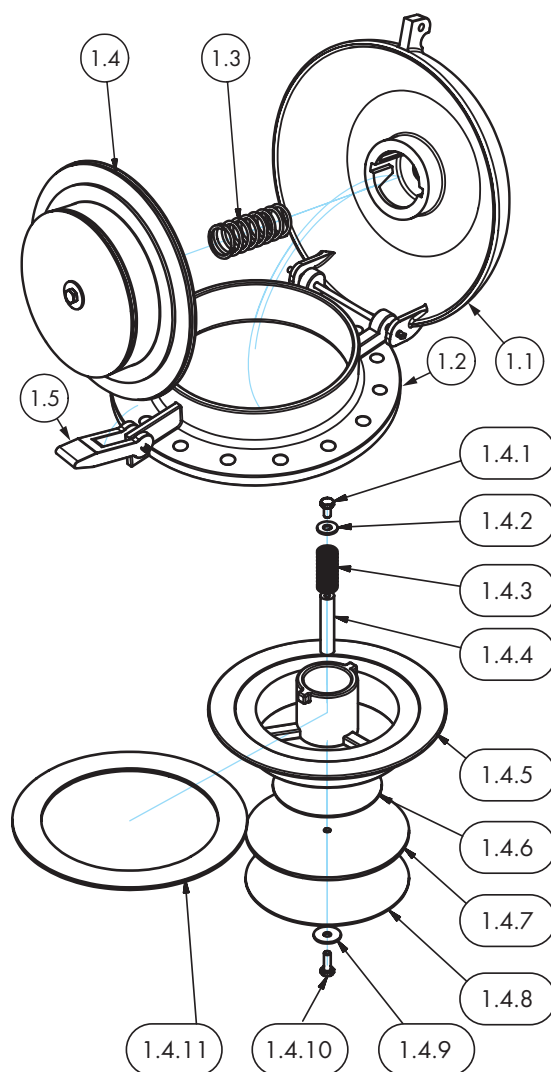
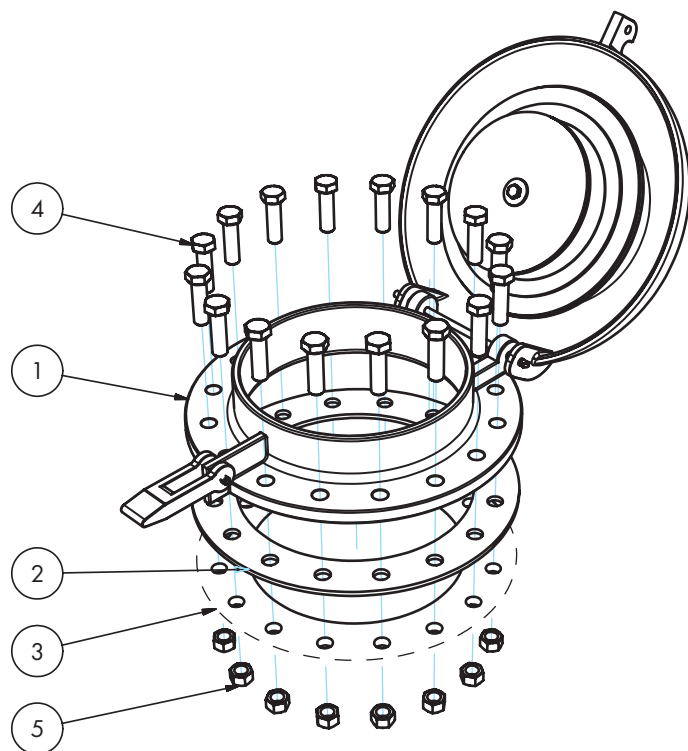
Dimension		Value	
		[in.]	[mm.]
Hc	Height (Closed)	5 ½	140
Ho	Height (Minimum to Open)	14 ¼	362
Lc	Length (Hatch Closed)	13 ½	343
Lo	Length (Hatch Open)	24 ½	622
W	Width	12 ¼	311
T	Flange Thickness	½	13
	Weight	11 ¼ lb	5.1 kg
B	Bolt Hole	17/32	13.5
ID	Cutout Diameter	8	203
BCD	Bolt Circle Diameter	10-3/8	264
	Bolt Size & Number	½-13UNC-2A x 16 plcs	



SPECIFICATIONS

Function	Venting Gauge Hatch Tank Access + Pressure & Vacuum Relief
Temperature Range	-40°C to 75°C (TVTH 200, polyisoprene) -25°C to 205°C (TVTH 300, eFKM).
Pressure Relief Type	Spring-loaded pallet
Pressure Relief Range	4 to 32 ozsi (see Relief Settings)
Vacuum Relief Range	0.4 ozsi fixed
Tank Connection	8" API (Fig 1 API 12F)

PARTS LIST & MATERIALS OF CONSTRUCTION



Item	Part Name	Std. Material	Opt. Material
1	TVTH Assembly		
1.1	TVTH Lid	AL ZLD108	
1.2	TVTH Lid	AL ZLD108	
1.3	Pressure Spring	302 SS	X750 Inconel ¹
1.4	Pressure & Vacuum Pallet		
1.4.1	Vacuum Spring Screw	AISI 304 SS	
1.4.2	Vacuum Spring Washer	AISI 304 SS	
1.4.3	Vacuum Spring	302 SS	X750 Inconel ¹
1.4.4	Vacuum stem	AL6061 OR EQ	
1.4.5	P & V Pallet	AL ZLD108	
1.4.6	Vacuum Disc	AL 5052 OR EQ	
1.4.7	Vacuum Gasket	Polyisoprene	eFKM ²
1.4.8	Vacuum Plate	AL 5052 OR EQ	
1.4.9	V. Gasket Washer	AISI 304 SS	
1.4.10	V. Gasket Screw	AISI 304 SS	
1.4.11	P. Gasket	Polyisoprene	eFKM ²
1.5	Latch	AL ZLD108	
2	Base Gasket	Chloroprene	FKM
3*	Tank connection		
4†	Installation Bolt		
5†	Installation Nut		

* parts supplied by others

† parts sold separately

¹ Available on TVTH 300 only² Standard on TVTH 300

RELIEF SETTINGS

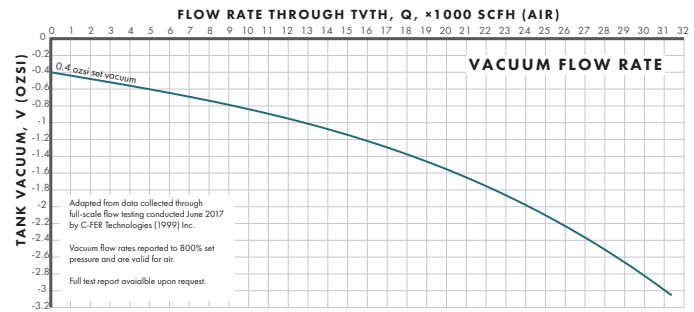
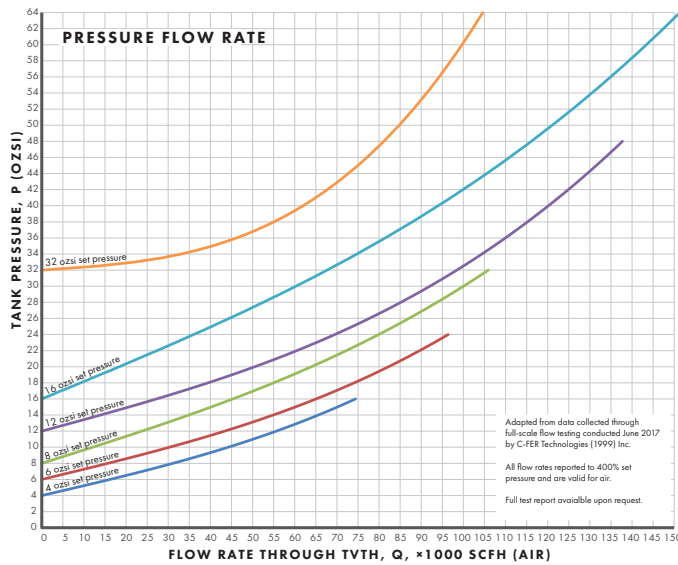
The following relief pressures are available and in stock. Pressures not listed can be achieved, but with additional lead time and a 25 pc minimum order.

Pressure Setting [ozsi]	TVTH 200	TVTH 300	
	AISI 302 SS	INCONEL	
4	●	●	●
6	●	●	
8	●	●	●
12	●	●	
16	●	●	●
32	●	●	●

Vacuum Setting [ozsi]	TVTH 200	TVTH 300	
	AISI 302 SS	INCONEL	
0.4	●	●	●

FLOW CHARACTERISTIC

Empirical flow rate information for the Model 200 and 300 TVTH below is adapted from data collected from full-scale flow testing conducted by C-FER Technologies (1999) Inc. in June 2017.



PACKAGING

TVTH 200 and 300's are shipped ready-to-install in individual boxes. Package dimensions are 13 in. wide, 12 ¾ in. deep and 6 in. high and weigh 12 ½ lb each. Bulk orders of TVTH 200 and 300s can be palletized in multiples of 21 units (eg 21 pc, 42 pc, 63 pc, etc).

CERTIFICATION

TVTH 200 and 300's pressure and vacuum relief settings can be factory certified at an additional expense. Following assembly, TVTH 200 and 300 are tested on the low-flow test bench for pressure-tightness and confirmation of relief setting. Certified hatches are accompanied by a certificate stating the relief pressure of the hatches.

ORDERING INFORMATION

TVTH 200 and 300s are stocked in Edmonton, ready to ship 1-day or less.

For Sweet Service

1. Specify TVTH 200 Thief Hatch
2. Specify Pressure Relief Setting (4, 6, 8, 12, 16 or 32 ozsi).

For Sour Service

1. Specify TVTH 300 Thief Hatch
2. Specify spring material (Stainless Steel Standard, Inconel Available)
3. Specify Pressure Relief Setting (4, 6, 8, 12, 16 or 32 ozsi).

RELATED PRODUCTS

The TVTH 200 and 300 are just one part of our tankage product lines, which also includes:

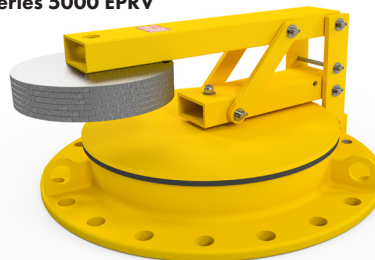
Vapor Control

- Series 5000 EPRV
- Series 6000 PVRV

Mechanical Level Indication

- Model 375LS Low Profile Liquid Seal Level Indication System
- Model 750 Open Level Indication System and Model 750LS Liquid Seal Level Indication System

Series 5000 EPRV



Model 375LS Level Gauging System

