



Taylor Valve Technology

Model 140-LLI

LIQUID LEVEL INDICATOR

TRUSTED
SINCE 1958
WORLDWIDE

Accuracy.

Quality.

Simplicity.



www.taylorvalve.com
TELEPHONE (405) 787.0145 (USA)



Site Adjustment of the Indicator:

Adjusting for zero:

1. Measure from the surface of the tank to the reference of the connection above the tank.
2. Install the 1" or 1.5" gauge valve between the tank connection and the indicator. As installed, the indicator will be roughly 100% full.
3. With NO pressure applied to the pipe, adjust the indicator to the tank level. The indicator will be roughly 100% full.

Adjusting for fluid gravity:

4. For the tank to be used, set the reference of the connection above the tank.
5. Install the 1" or 1.5" gauge valve and adjust the 1" gauge valve above the tank to be roughly 100% full.
6. Close the 1" or 1.5" gauge valve and open the 1" or 1.5" gauge valve between the tank and the indicator.
7. Adjust the indicator to the tank level.
8. If both the indicator and the gauge valve are set to the tank level, the indicator will be roughly 100% full.
9. The indicator will be roughly 100% full.

Technology for our Environment

SINCE 1958



Taylor INTRODUCTION

Servicing the oil and gas industry worldwide for over 50 years, providing our customers with reliable pressure devices at competitive prices.

MODEL 140-LLI

The Model 140-LLI displays the level in a tank by sensing the head pressure and converting it to movement of a pointer on a fixed scale, continuously indicating liquid level in an atmospheric (vented) vessel.

Because of its unique design, the Model 140-LLI has a long service life with minimal maintenance requirements. The Model 140-LLI utilizes a set of precision crafted diaphragms as the sensing element, and the superior seal design isolates mechanical working parts from process fluids and corrosive agents in the atmosphere. Span and zero adjustment knobs are on the exterior of the unit, and if maintenance is ever required on the interior of the unit, the face plate can be easily removed.

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FEATURES & BENEFITS

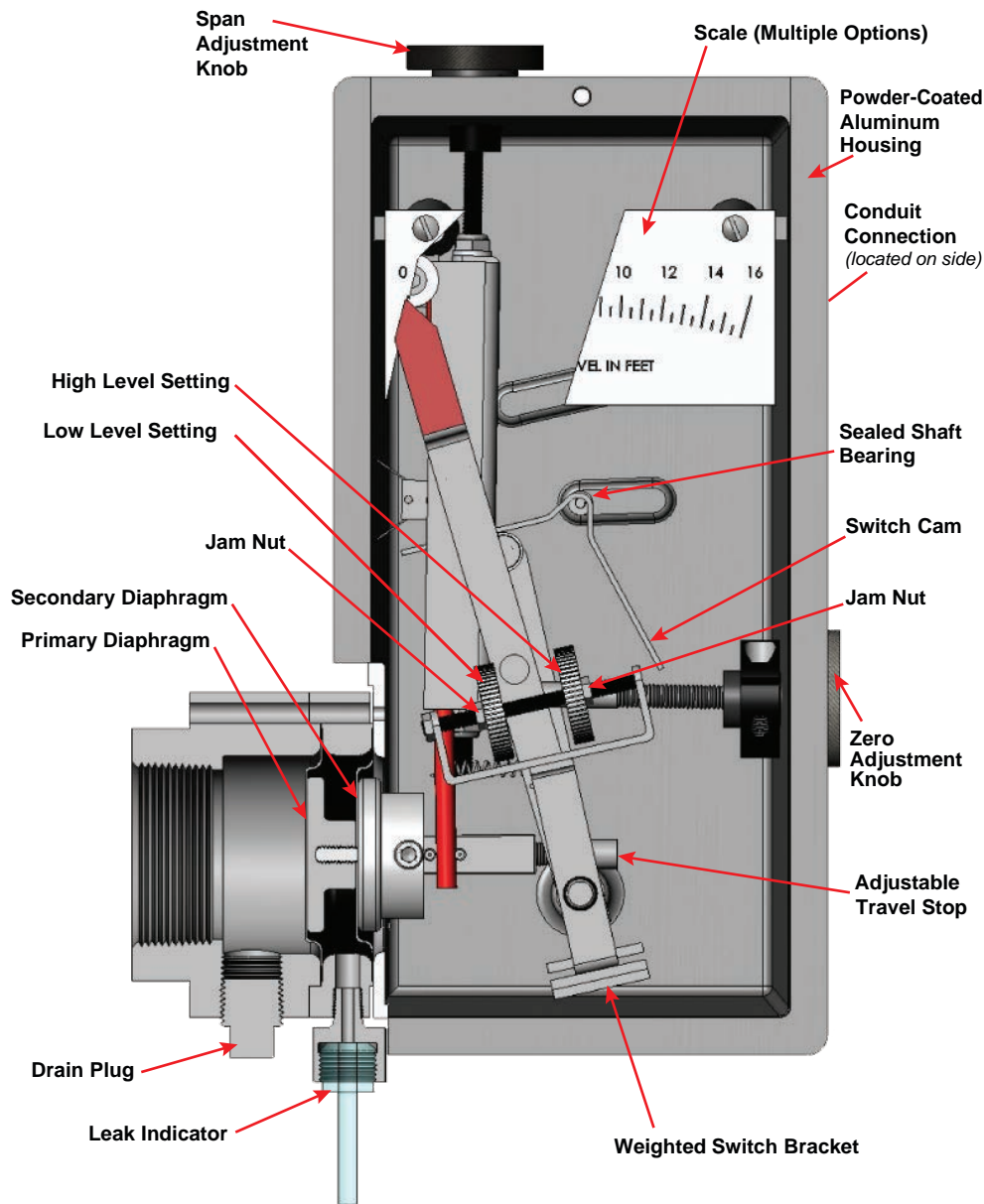
All connections are stainless steel as a standard.

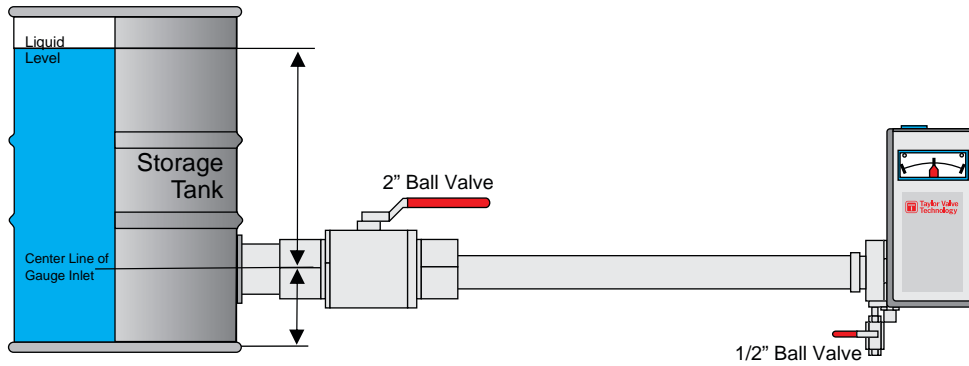
Span and zero adjustment knobs are on the exterior of the unit.

A secondary diaphragm ensures that a leak in the primary diaphragm will not result in a leak to the unit interior.

A leak indicator between the primary and secondary diaphragms lets the operator know if the primary seal is compromised.

PART DESCRIPTION





Specifications

Operating Temperature

-20°F to 225°F

Maximum Head Pressure

90 PSI

Range (Vessel Height)

3 feet through 60 feet

Electrical Switches

SPDT Micro Switch; 11 Amp @ 120 to 250 VAC ½ Amp @ 125 VDC

Electrical Connections

½" Female Pipe Thread or ¾" Female Pipe Thread

Indicator Accuracy

+ / - 2% of Full Scale

CSA Certified

Explosion Proof Class I, Division I, Group D

Options

Connection Options

2" FNPT Standard (Stainless Steel)

2" Grooved End (Stainless Steel)

Scale Options

Include feet of water, gallons, barrels, cubic meters and others

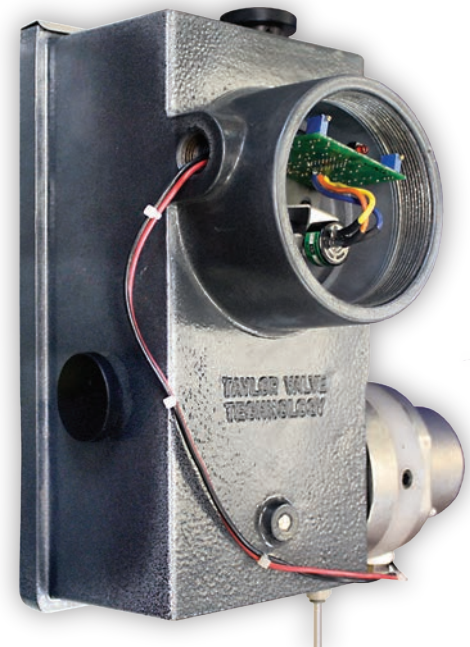
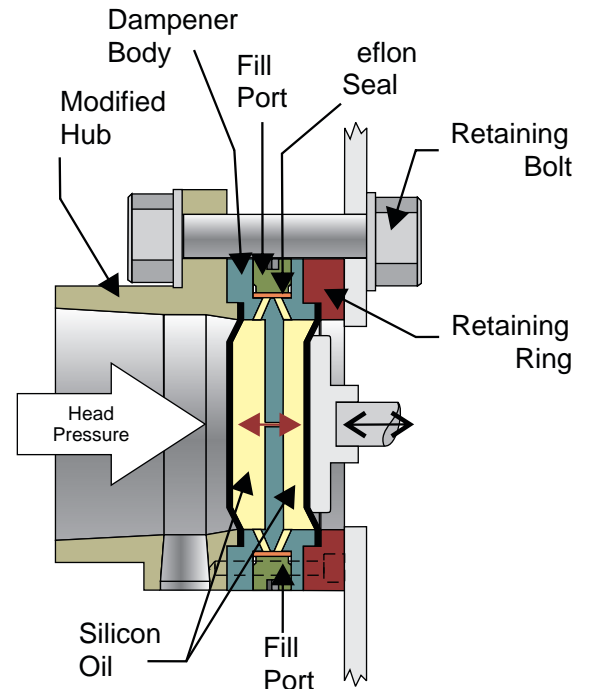
Multiple Switch Options

Including 2 through 7 switches

Pulsation Dampener

The pulsation dampener minimizes pressure spikes caused by erratic flow of liquid into or out of the vessel, delivering a constant pressure on the spring for more accurate readings.

Pulsation Dampener



Model Numbering System

140 - - - - -

SYSTEM

Code	Description
A	Atmospheric

SIGNAL & OUTPUT OPTIONS

Code	Description
01	Local Level Indication
02	1 ea SPDT Microswitch
03	2 ea SPDT Microswitches
04	3 ea SPDT Microswitches
05	4 ea SPDT Microswitches
06	5 ea SPDT Microswitches
07	6 ea SPDT Microswitches
08	7 ea SPDT Microswitches
10	4 to 20 mA (Output) 2-wire

CONNECTOR OPTIONS

Code	Description
01	2" FNPT SSI
04	2" ANSI 150 SCH40 RF Flange SS
07	2" ANSI 150 SCH40 RF Flange PVC
08	2" Clean Service clamped connector
10	2" Grooved End stainless steel

OPTIONS

Code	Description
01	Pulsation Dampener

DIAPHRAGM OPTIONS

Code	Description
01	Fluorocarbon
05	Buna "N"
0X	Other Materials

LOCAL INDICATOR SCALES

Code	Description	
	Feet	Meters
01	0 to 3	0 to 0.91
02	0 to 4	0 to 1.21
03	0 to 6	0 to 1.82
04	0 to 8	0 to 2.43
05	0 to 10	0 to 3.04
06	0 to 12	0 to 3.65
07	0 to 15	0 to 4.57
08	0 to 16	0 to 4.87
09	0 to 20	0 to 6.09
10	0 to 24	0 to 7.31
11	0 to 25	0 to 7.62
12	0 to 30	0 to 9.14
13	0 to 36	0 to 10.97
14	0 to 40	0 to 12.19
15	0 to 48	0 to 14.63
16	0 to 60	0 to 18.28
17	0 to 100%	Special Scale

Determining the Model Number

Example given: Standard Model 140-A-02-01-09-01 — Liquid Level Indicator for atmospheric (vented) vessels with: single pull double throw microswitch, 2" FNPT stainless steel tank connection, Fluorocarbon diaphragms, 0-20 feet indicator scale, standard powder-coated aluminum housing.

Gauge Plug and Probe System

Taylor Valve Gauge Plug® and Gauge Probe® Fittings have been an industry standard since their invention in 1958 by Julian Taylor. This system provides the most reliable method of quick gauge integration and sampling in the world. The easy to use slip-on / slip-off operation will endure any field environment for millions of cycles without repair or maintenance.

