

GRAVIT-GAUGE HIPPO[®]

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Gravit-Gauge HIPPO Product Datasheet

Product Overview

The Gravit-Gauge HIPPO magnetic level indicator is a versatile level indicator utilizing state-of-the-art material technology to reliably indicate fluid levels. The Gravit-Gauge HIPPO allows precise, reliable, real-time, safe and continuous measurement of fluid level. The Gravit-Gauge HIPPO is specifically designed for fluid level measurement on High Pressure Pneumatic Over Oil Actuators.

Pneumatic Over Oil Actuators:

Pneumatic over oil actuators utilize high pressure gas to move hydraulic fluid through a linear or rotary motor. Failures of Pneumatic over oil actuators can occur when fluid levels in the actuator accumulator tanks are not maintained at the proper levels. The Gravit-Gauge HIPPO can be installed onto new and existing pneumatic over oil actuator accumulator tanks to continually indicate the hydraulic fluid levels.



Benefits and Features

- **Safe** – Unlike site gauges, the Gravit-Gauge HIPPO is a closed system utilizing 316 stainless steel components. The Gravit-Gauge provides a safe and simple solution for real-time level measurement without the risk of broken or stained site glass.
- **Simple** - For most Pneumatic Over Oil Actuators, **no modifications** are required install the Gravit-Gauge on to the existing actuator system. The Gravit-Gauge HIPPO can be installed utilizing the existing connections on the top and bottom of the tank.
- **Compact** – The Gravit-Gauge utilizes a state of the art buoyancy system which allows the gauge to use smaller diameter components compared to similar level indicators. The Gravit-Gauge HIPPO is capable of much higher pressures in a much smaller footprint. The Gravit-Gauge is efficient in design and robust in practice.
- Professional Installation Available
- Custom Sizes Available
- Custom Applications Available
- Field Service and Support



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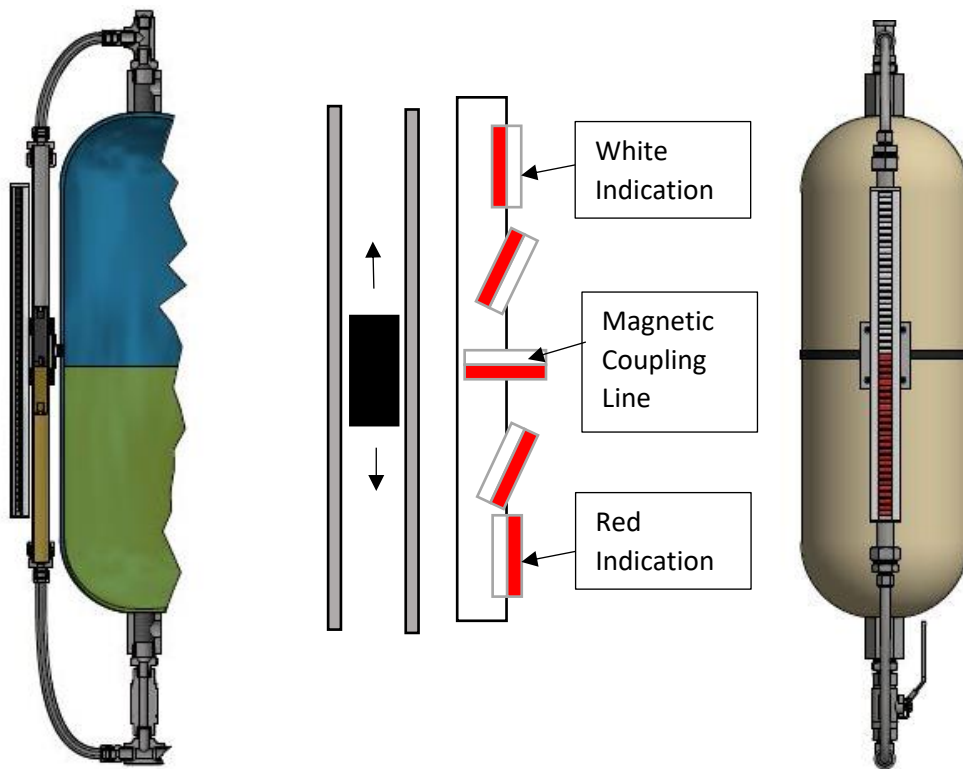
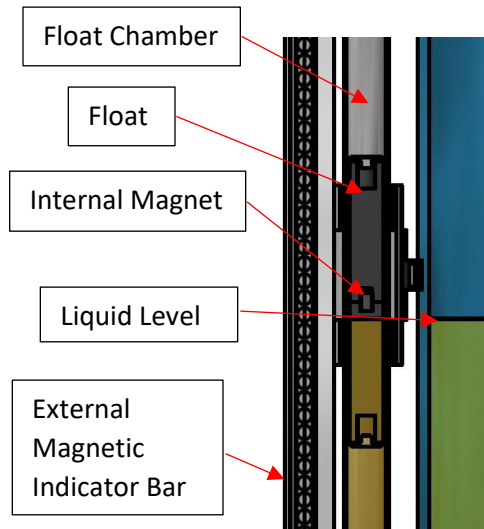
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How It Works

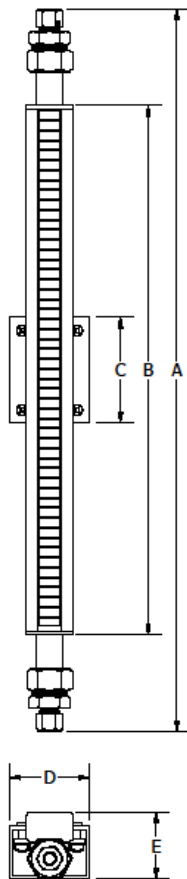
The Gravit-Gauge HIPPO utilizes the principles of magnetic coupling and a specially designed buoyancy system to measure the internal fluid level of the tank.

The Gravit-Gauge HIPPO is attached to the top and bottom of the tank which creates a closed loop measurement of the internal tank liquid volume. The specially designed buoyancy system contains a magnet which is coupled to the external magnetic bar graph indicators. As the fluid level in the tank changes, the float remains consistent with the fluid level and magnetically coupled to the indicator bar graph. The indicator bar graph changes color as the magnetic float changes position.



GRAVIT-GAUGE
HIPPO

Gravit-Gauge Dimensional Data



GRAVIT-GAUGE HIPPO STANDARD DIMENSIONS			
Dimension	HIPPO - 10	HIPPO - 15	Units
A	21.75 (552.5)	26.75 (279.5)	in (mm)
B	11.25 (285.8)	16.25 (412.8)	in (mm)
C	4.00 (101.6)	4.00 (101.6)	in (mm)
D	3.00 (76.2)	3.00 (76.2)	in (mm)
E	2.63 (66.7)	2.63 (66.7)	in (mm)

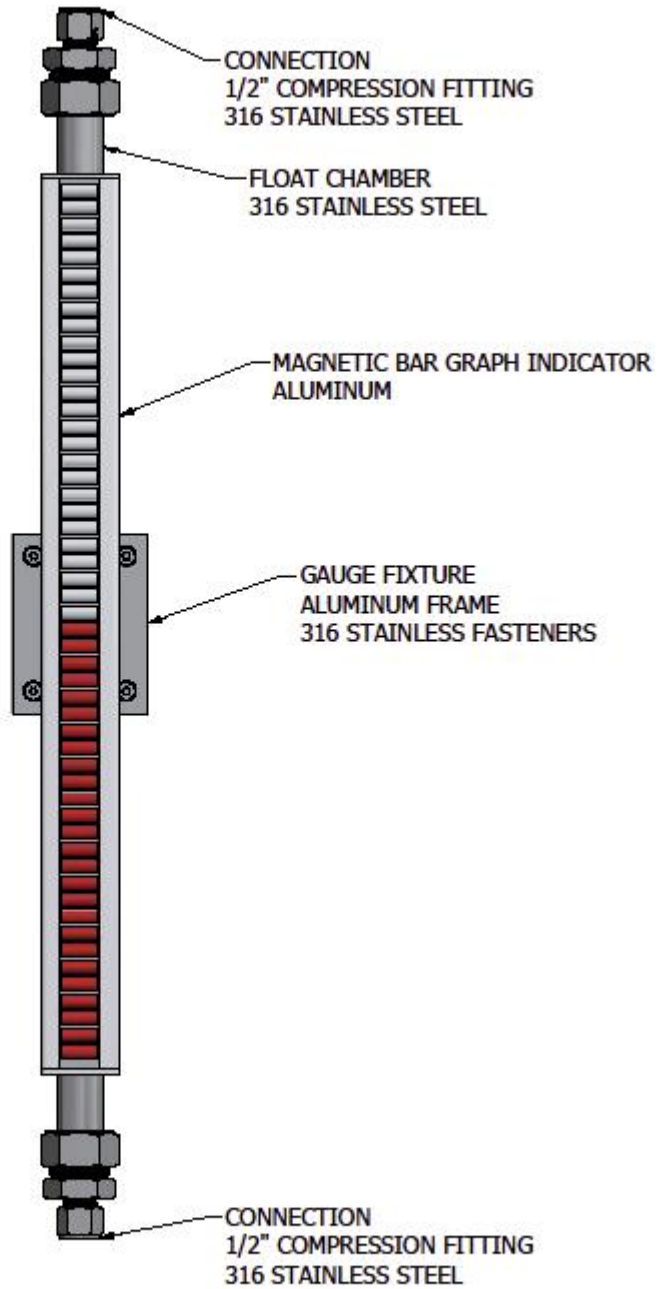
Note: Custom gauge lengths available upon request.

Gravit- Gauge HIPPO Design Data

Gravit-Gauge Standard Design Data	
Gauge Materials:	316 Stainless Steel
Maximum Pressure:	*1,700 (psig), 117 (bar)
Minimum Pressure:	Full Vacuum
Maximum Temperature:	200 (F), 93 (C)
Minimum Temperature:	-40 (F), -40 (C)
For Fluid Type:	Air, Natural Gas, Oil, Water, Nitrogen
End Connection:	1/2" OD Tube Compression Fitting
Indicator Material:	Aluminum
Mounting Bracket Material:	Aluminum, S.S. Clamp, Nylon Strap
Standards:	ANSI B 1.20.1, ASTM A269, ASTM A450, API, AGA, ASME B31.3
* Higher pressures available for custom applications	



Gravit-Gauge HIPPO Design Data



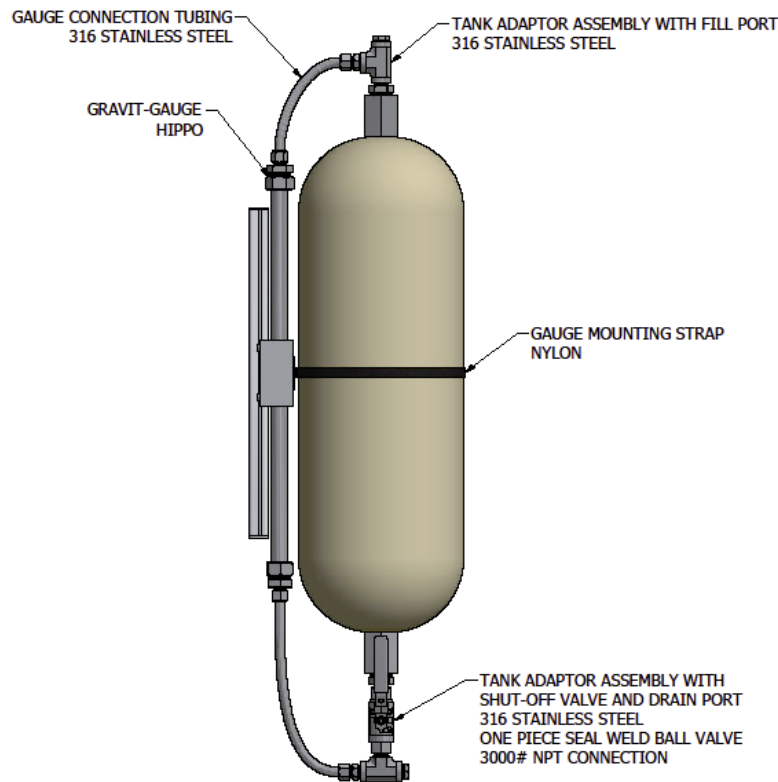
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Gravit-Gauge HIPPO Gas Over Oil Actuator Installation Kit (Optional)

The Gravit-Gauge HIPPO can be purchased with an optional actuator installation kit. The kit includes all materials required for a simple and safe installation on existing gas over oil actuators.

Gravit-Gauge HIPPO Installation Kit			
Item	Quantity	Section	Description
Valve	1	Install Kit	3000# NPT SS Threaded Valve, Single Piece Body
Tubing	2	Install Kit	316 Stainless Steel Tubing
Tee	2	Install Kit	316 Stainless Steel Pipe Fitting, Tee Connector, NPTF Female
Plug	2	Install Kit	316 Stainless Steel Pipe Fitting Plug with External Hex Drive, NPT
Tube Fitting Adaptor	2	Install Kit	Stainless Steel Tube Fitting, Male Connector to Male NPT
Straight Connector	2	Install Kit	316 Stainless Steel Pipe Fitting, Straight Connector with Hex Body
Tank Adaptor	2	Install Kit	316 Stainless Steel Pipe Fitting, Reducing Connector with Hex Body



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