



Level Indication > Zero Emission

Greyhawk

The Greyhawk Level Indication system provides an effective and economical way to directly gauge level in knock-out or other horizontal tanks.

Design

The Greyhawk Level Indicator brings together the proven Cooper's Hawk level gauge with an integrated float and stillwell for use on knock-out or other horizontal tanks. The gauge extends upward from the top of the tank, making it visible over berms and other obstacles. This, coupled with a high visibility red marker and high contrast background make the Greyhawk gauging system a simple and effective method to gauge tank volume. The float and indicator are internally secured to the gauge, making installation as simple as inserting the float guide tube into the tank, and screwing the plug into the tank bung.

Construction

This system features the same durable aluminum, borosilicate and teflon construction of the Cooper's hawk gauge system with resilient aluminum float guide tube, a molded polyethylene float and polyethylene indicator.

Flexibility

The Greyhawk comes complete with the polyethylene float, 3 NPT bung, and can be supplied for tanks with a diameter of 18" to 96". Stainless Steel wetted components, including the float, are available for corrosive or high temperature applications.

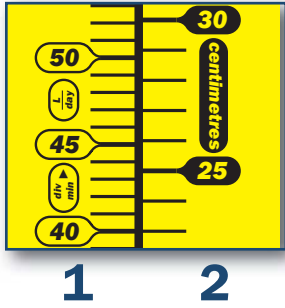
Specifications

Measuring Principle	Float + sight glass
Maximum Range	96in. [8 ft, 2.44 m]
Local Display	Visual
Process Connection	3 NPT
Process Temperature	-40 °C to 60 °C
Ambient Temperature	-40 °C to 60 °C
Pressure	0.15 bar [2 psi]



Left: Greyhawk Level Indication System
Top: Detail of 2-band scale and indicator
Above: Cutaway of Float and stillwell

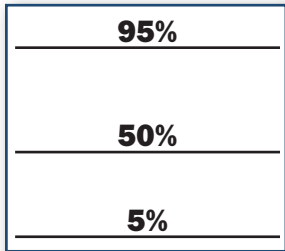
2-Band Scale



The 2-band scale provides flow rate when the gauge is isolated from the tank. Flow rate, Q, [L / day] is calculated as follows

$$Q \text{ [L / day]} = \frac{\# \text{ Band 1 divisions}}{\text{time [minutes]}}$$

Optional Volume Scale



The optional volume scale provides indication of 5%, 50% and 95% volume capacity, based on the provided diameter of the tank (D). Scale has black text on a white background.

Dead Band

Dead band is the region where the gauge may not indicate the true level. The total dead band is the sum of **DB-1** and **DB-2** is a constant 5.5" for all liquid densities and gauge heights. The proportion between DB-1 and DB-2 varies with tank diameter and liquid density.

The maximum value for DB-1 or DB-2 is 4.5".

e.g an 8ft tank with 0.7 SG liquid,

DB-1 will be 4.5", DB-2 will be 1", DB-1 + DB-2 = 5.5".

Ordering Information

- 1.) Specify Greyhawk Gauging System
- 2.) Specify required dimension

	Sizing			Scale
	GR	H	D	R
GR Greyhawk				
H Dimension H (inches) Tank Bottom to top of cxn.				
D Tank Diameter (inches) inside diameter				
0 Standard 2-Band Rate Scale				
1 Optional Volume Scale, marked at 5%, 50%, 95% of D				

Bold Type indicates Standard items.

