



Level Indication > Tank Gauge **Cooper's Hawk II BA**

The Cooper's Hawk Tank BA is an application-specific level gauge featuring easy to read visual level measurement for standard 55 gallon barrels, and includes a 4-band scale for metering chemical injection pumps.

Design

The Cooper's Hawk II BA Barrel Gauge is a specialized version of the Cooper's Hawk II Tank Level Gauge, suited for use with horizontal 55 gallon drums. It comes complete with a metering valve and 4-band scale, measuring volume ([gal] & [L]) as well as a rate scale, for measuring volume flow (in [qt/day] & [L/day]).

Construction

The borosilicate sight glass is protected on three sides by the aluminum case, while the face of the gauge is protected with optical acrylic shield. Standard trim includes zinc-plated carbon steel connections, PTFE seals and an orange HDPE float ball. Optionally, the gauge can be furnished with 316SS connections, and FEPM (Aflas) or PTFE-FKM (Teflon-coated Viton) seals.

Flexibility

The Cooper's Hawk II BA is a multi-function gauge, providing both fluid level and chemical injection rate when used with a chemical injection system. By isolating the gauge using the metering valve, flow rate can be determined by measuring the product drawn from the gauge glass. The metering valve is available as a spare part, for turning any of the Cooper's Hawk II tank gauges into a flow metering device.

Specifications

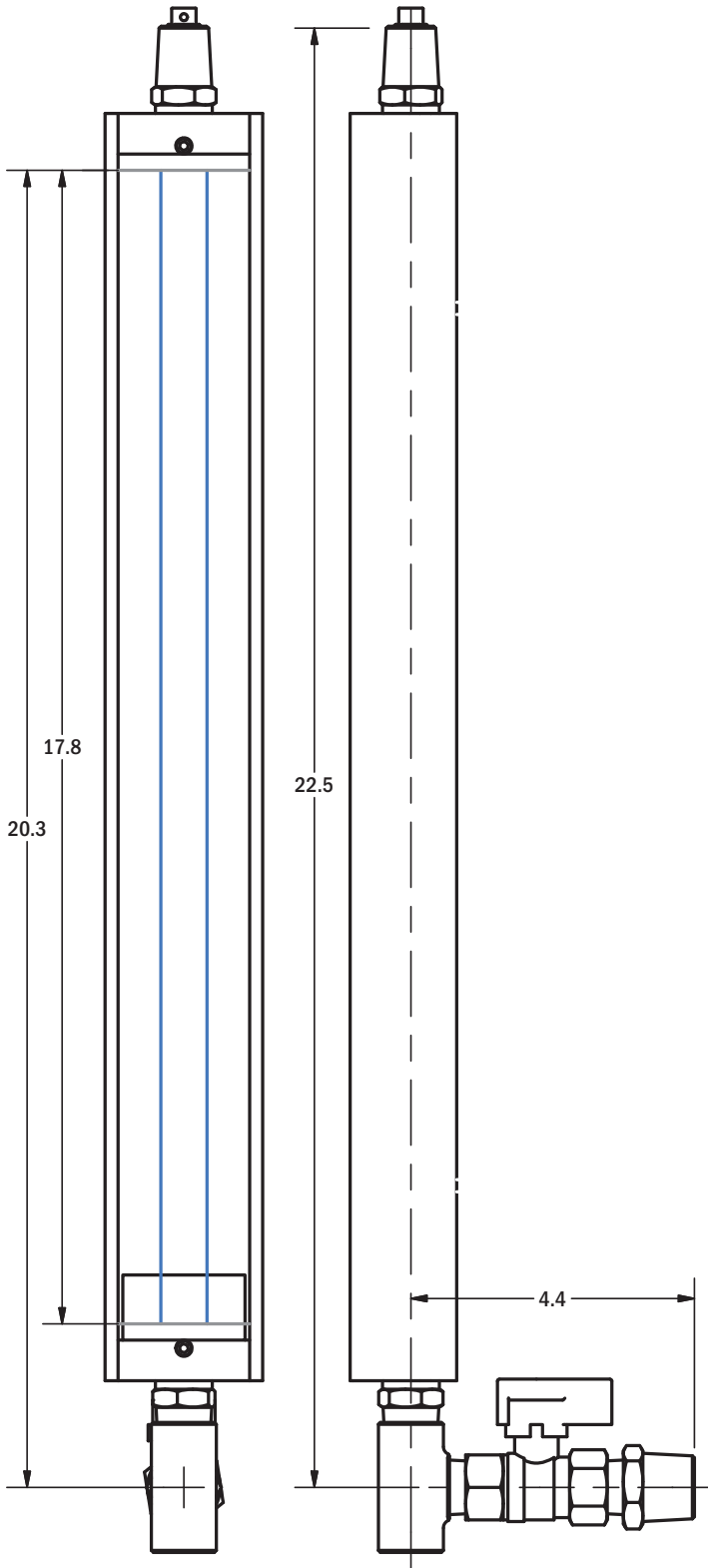
Measuring Principle	Sightglass
Maximum Range	55 Gal [208 L]
Local Display	Visual
Process Connection	3/4 NPT (Barrel), 1/2 NPTF
Process Temperature	-40 °C to 80 °C
Ambient Temperature	-40 °C to 70 °C
Pressure	Atmospheric



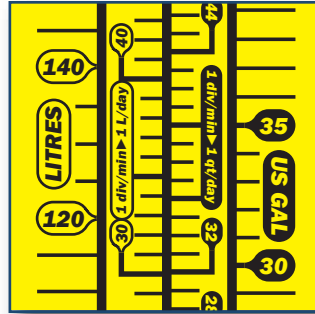
Above: Cooper's Hawk Barrel Gauge installed on the 3/4 NPT bung of a 55 gal drum, with metering valve.

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Dimensions



Rate Scale



The 4-band scale provides flow rate when the gauge is isolated from the tank via the metering valve. By counting the number of divisions traversed per minute, the flow rate, Q , is calculated as follows

1 2 3 4

Above: Cooper's Hawk Barrel Gauge four-band scale. Use the band 2 to measure flow rate in L / day; band 3 for qt / day.

$$Q \text{ [L / day]} = \# \text{ Band 2 divisions} \div \text{time [minutes]}$$

or

$$Q \text{ [qt / day]} = \# \text{ Band 3 divisions} \div \text{time [minutes]}$$

Right: Cooper's Hawk Barrel Gauge Metering valve assembly, with 3/4 NPT Bung connection by 1/2 NPTF process connection.



Ordering Information

- 1.) Specify Cooper's Hawk II BA Barrel Gauge
- 2.) Specify Size and Options per chart below.

Sizing			Options				
CHA	-	BA	-	T	S	0	V
CHA Cooper's Hawk II							
		BA Barrel Gauge					
				0 Standard zinc-plated carbon steel trim			
				1 316 Stainless Steel Trim			
					0 Standard PTFE seals		
					1 FEPM (Aflas) Seals		
					2 PTFE-FKM (PTFE-coated Viton) Seals		
						0 Standard Mounting	
							0 No Valve
							1 Standard Valve (Brass)
							2 Stainless Valve (316SS)

Bold Type indicates Standard items.