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Hawkeye IS
INSTALLATION GUIDE

TOOLS REQUIRED

- Phillips screwdriver
- 5/16" (8mm) nut driver
- Wire strippers
- ½" NPT connector and appropriate cable

PARTS SUPPLIED IN PACKAGE

- Hawkeye™ IS plunger arrival sensor
- Hose clamp
- Control drawing
- Installation guide

STEP ONE

Using Philips screwdriver, loosen captive screws in enclosure lid; remove lid from base.

STEP TWO

Slide hose clamp through slots on base of Hawkeye™ enclosure. Securely fasten hose clamp to lubricator using 5/16" (8mm) nut driver **underneath the catcher.**

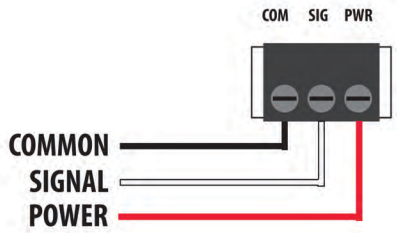
STEP THREE

Measure and strip cable wires. Screw connector onto 1/2" NPT port on Hawkeye™ enclosure, and feed wires into sensor enclosure. (Connectors are usually weather tight strained reliefs.)

STEP FOUR

Terminate wires for power and signal to 3-pin connector inside Hawkeye™ enclosure. Then tighten cable end of connector to secure cables.

FIG. A



STEP FIVE

Prior to powering Hawkeye™, set sensitivity switch to desired setting using screwdriver. Replace enclosure lid, tighten captive screws.

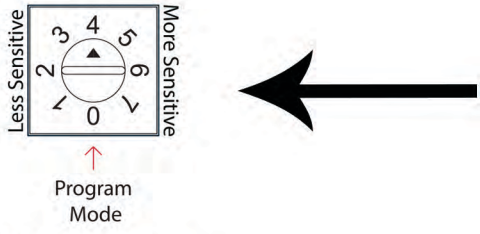


FIG. D - Sensitivity Settings

SENSITIVITY SWITCH

Hawkeye™ has a built in 7 position adjustment dial (FIG. D). This allows false detections to be eliminated by reducing sensitivity. Alternatively, sensitivity can be increased to aid in the detection of non-ferrous plungers when minor well movements at the spring and anvil must be detected. The switch is located within the enclosure. Switch position 0 allows for Hawkeye™ software to be upgraded. During normal operation, a Hawkeye™ sensor left in position 0 will not detect a plunger.

Contact Well Master today to find out how we can help optimize your oil and gas well production.
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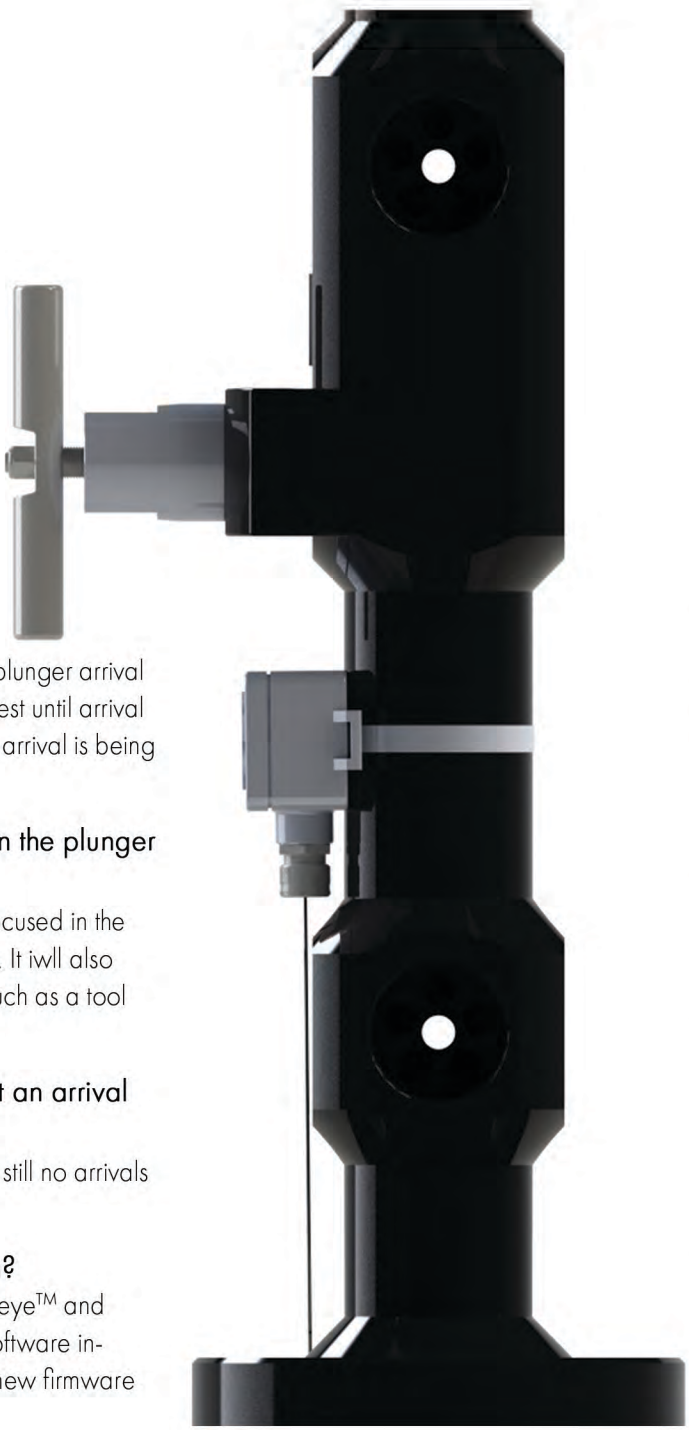
MOUNTING LOCATION

The ideal mounting location for Hawkeye™ depends on the type of plunger being used. When using a ferrous (magnetic) plunger material such as steel, Hawkeye™ should be mounted under the catcher and as close as possible to where the plunger rests during flow (sales) for best results. Avoid mounting near the catcher or anvil. When using a non-ferrous (non-magnetic) plunger material such as stainless steel, aluminum, or titanium, HawkeyeTM should be mounted where the most amount of movement will occur when the plunger arrives; most commonly near the anvil, or at the tip of the trigger rod if applicable.



FAQ

What sensitivity level should i use?

Start with 4 and test if normal plunger arrival is detected. If no plunger arrival is detected, increase sensitivity level incrementally and repeat test until arrival is consistently captured. Sensitivity should be lowered if a false arrival is being detected due to nearby passing objects.

Why is the Hawkeye™ detecting plunger arrivals when the plunger has not surfeced yet?

The HawkeyeTM senses changes in the magnetic field that is focused in the direction of an arriving plunger, but not limiited to that direction. It iwll also pick up passing metal objects on the back side of the sensor, such as a tool belt or a wrench.

The Hawkeye™ is hooked up correctly, but there is not an arrival signal being detected...

Check that the sensitivity is set greater than 0. If so, and there is still no arrivals detected, the sensor will need to be looked at.

Can I troubleshoot my own sensor before sending it in?

Yes. Well Master offers a Link cable that connects to the Hawkeye™ and using a computer with a USB connection and the ETC Vision software installed, the Hawkeye™ can be tested electronically and have new firmware installed onto it.

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