

VTRAKKA-2

VIEW-BLOCK MOUNT

Continuous Position Monitoring Upgrade for Tree Valves

Issue 01 Rev 0

OM83223-2

Date – November 2017

Installation Guide

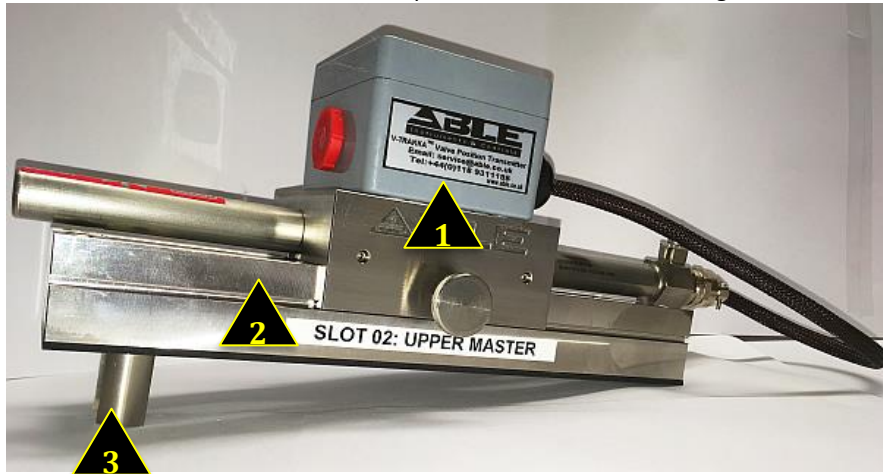
The VT2 ships **assembled**, comprising the following sub-assemblies:

1: Transmitter Block

2: Viewing Block

3: Slider

The transmitter block can be removed, in the event that replacement is needed, leaving the view block in place



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NOTE

- 1 There are 4 main bolts on the VT2. These secure the VT2 to the valve chassis. They are self-retaining bolts.
- 2 The VT2 has a "Slider" that does not rotate, so cannot fall out of the View Block.
- 3 This design does not have markings to show "OPEN" and "CLOSED". This supports reversible mounting direction and is deemed a feature: Feedback is welcome.

Installation

Step 1

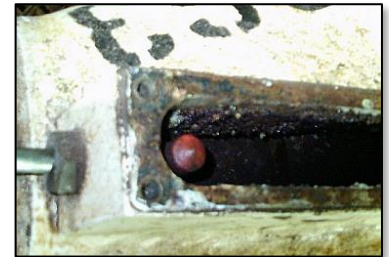
Identify the correct VT2 for the intended valve to be upgraded: There are 4 VT2 lengths to suit various valves. The first batch will be labeled, similar to the photo on page 1.

Remove the existing viewing block: 3 parts (Upper-block/Lower-block/Perspex-sheet), plus four bolts. May be rusty. These old parts can be removed to storage or disposed of in the appropriate recycle containers.



Step 2

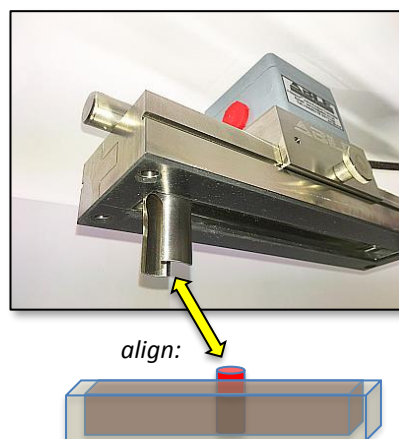
Tree Valve: Clean the mounting surfaces, indicator-rod and view-chamber. The most important part to clean carefully is the valve-rod: This is usually red and should be cleaned of any grit.



Step 3

Fit the VT2 onto the valve whilst being careful to align the VT2 Slider so that it drops over the valve indicator rod. Secure the VT2 using the 4 bolts.

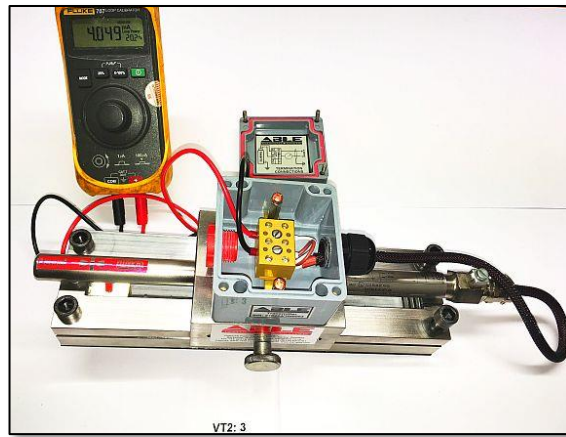
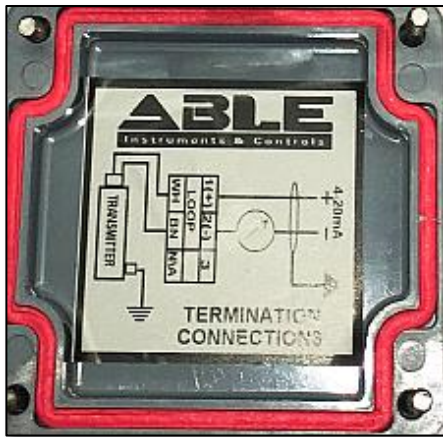
Note: The base of the VT2 has an adhesive backed nitrile-rubber gasket to protect against dissimilar-metal corrosion. All metal parts of the VT2 are 316 grade stainless steel. Your tree valve casings and body are generally carbon steel.



Valve view-block chamber >>

Step 4

Cable the transmitter to your field cable (or loop-calibrator/remote-logger). Exercise the valve multiple times to establish mA values representing 100% open and closed. Configure Delta-V accordingly. Leave on a cycle or pattern of stroke-testing and record the mA trend for assessment of smooth, repeatable output.

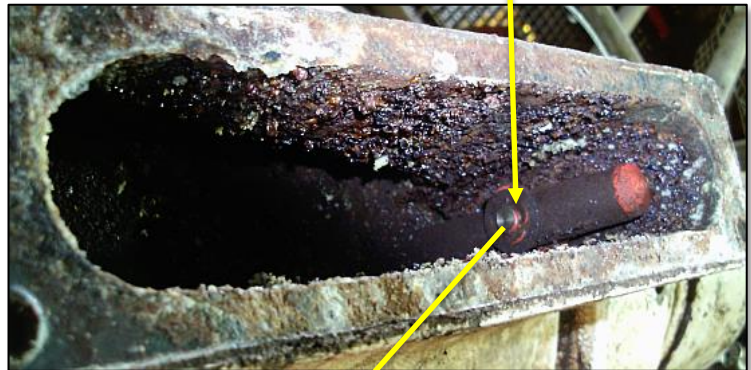
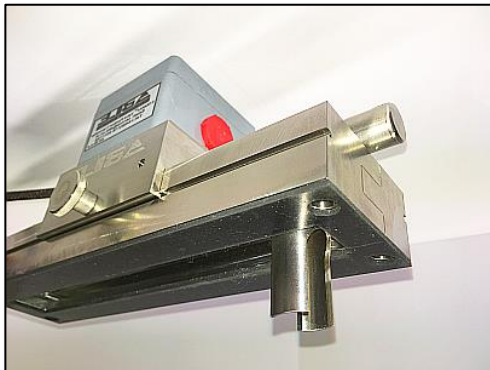


Although VT2 mounting can be tested quite simply by an instrument technician, performance and trend analysis should be done by or with an ABL engineer (particularly for the initial batches)

A further note about the VT2 Indicator-cap.....

It is designed to slide over the valve's own indicator rod, which has a **link-pin** through it; (this is the slim steel rod that protrudes out of the valve as an additional indication of the valve position) This link-pin presents an **obstruction** to our VT2 Slider; hence the slider-cap design with cut-outs.

Hopefully the diagram below will help to explain this:



The different sizes of VT2 are designed for each valve type:
 VT2-1 (smallest size for RHA35)
 Used on the Tubing-Valve, and the lower valves (Anulus and Gas-lift) when MSAS is not in place.

VT2-2 Used on the Production-Wing valves (RHA48)

VT2-3 Used on the Upper-Master valves (RHA60)

VT2-4 Rarely used: Only 2 (RHA75) valves may use this size on BB: Slot 13; B65z

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