

v-Trakka™ VT2

Christmas-tree Valve Continuous-position Transmitter (Indicator-window Mount)



Technical Detail

Power / Signal

24VDC, Loop-Powered, 4-20mA

Valve Window Sizes (70mm x)

170mm, 200mm, 270mm,
285mm

Transmitter Cert

ATEX EEx D, IP67, -20°C To +50°C

Valve-Stroke Range

Up To 242mm (9.5")

Instrument Support

316 St/Steel

Base

316 St/Steel, Nitrile Gasket

Transmitter

316 St/Steel

Window

Toughened Glass

Email: vtrakka@able.co.uk

- 2-Wire EEx d Loop-powered Transmitter
- Continuous Direct Measurement of Tree Valve-position;
- Designed to retrofit to most topside trees using the indicator window design, such as Vetco Gray;
- Extremely stable and robust design eliminates dependence on problematic limit switches and inferred pressure measurements.

Application

Many operators have no electronic feedback to confirm valve position or use limit switches and consider them unreliable and unsuitable; limit switch technology only provides valve status as fully open or fully closed with no continuous feedback.

To compensate for this, an alternative method has been to infer the position of the valve by trending the pressure in the hydraulic lines. However, accuracy of pressure measurement versus valve position is poor, as is reliability, due to transmitter blockages that require maintenance. Drift also causes a problem where open or close pressures are not linear and not always repeatable.

The consequence of poor valve control can be process failure, shutdown and impact on a safe working environment. Such loss of production can incur immense costs.

Continuous measurement of valve position, speed and uniformity of movement, allows diagnostic insight into the condition of the valves and hydraulic feeds. Improved maintenance planning and failure prediction are an additional benefit.



The Vetco Gray RHA-48

ABLE v-Trakka™ VT2

For a continuous direct valve position measurement, ABLE have developed the valve VT2 v-Trakka valve position transmitter which can be retrofitted to many leading types of surface Xmas tree valves to provide an accurate and repeatable mill-amp output correlating to the actual physical valve position.

Once installed, the v-Trakka requires no maintenance.

The v-Trakka is a compact instrument suitable for installation in the harsh Well-deck environment. Its 316 steel construction, machined from solid block, provides significant protection from any damage, dirt and everyday work challenges. There are no external moving parts. The high-viz reflective position marker can be viewed through the toughened-glass window slot.

Designed to replace basic limit switches and high-maintenance pressure monitoring, the v-Trakka is a well-tested solution and also available with limit switches where existing control systems are not yet analogue-ready.

Registered Address

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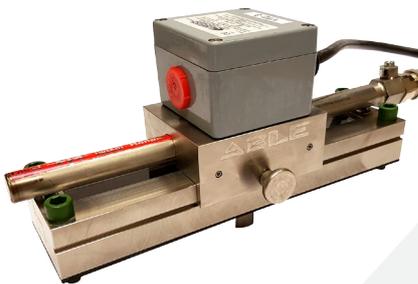
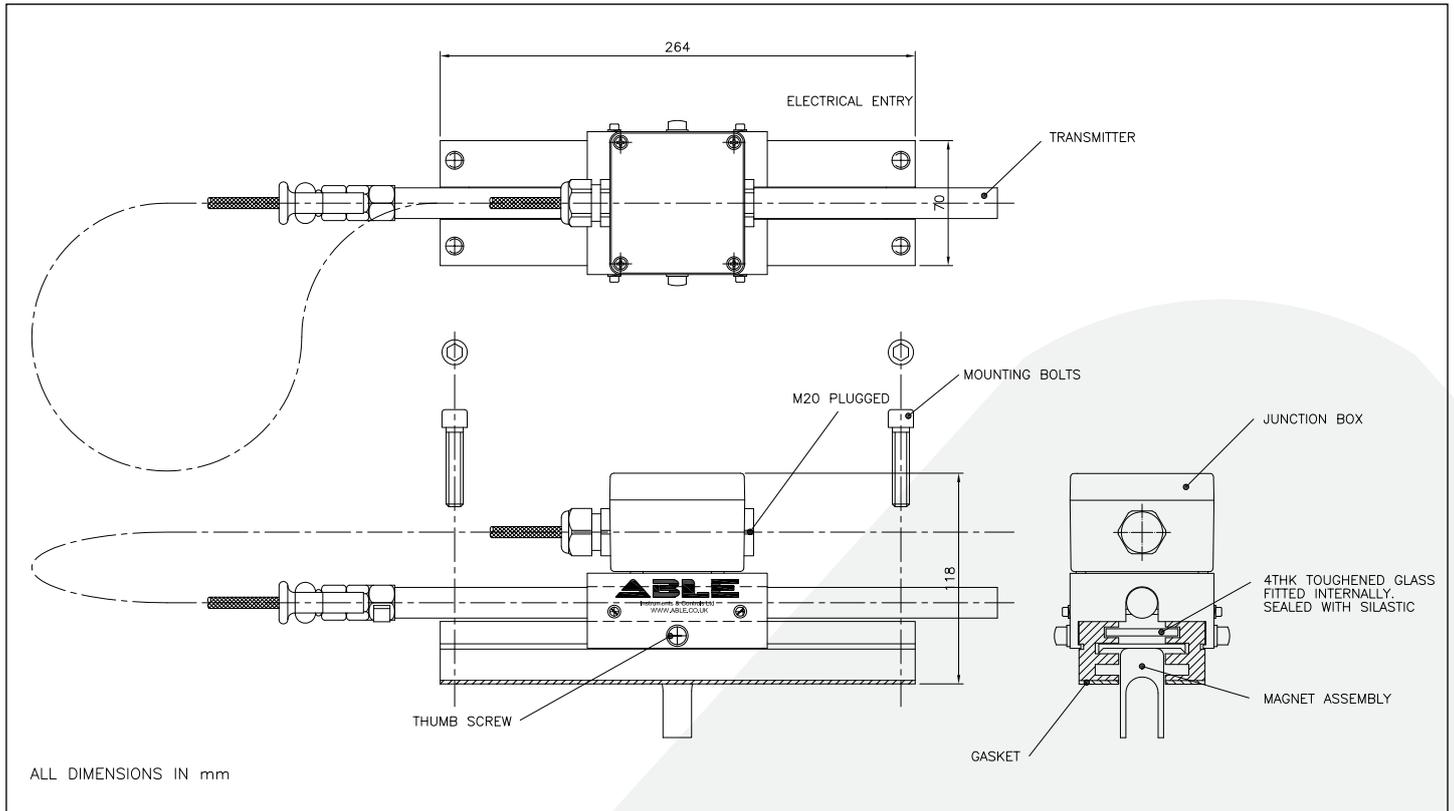
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Christmas-tree Valve Continuous-position Transmitter (Indicator-window Mount)



Without V-Trakka 2



With V-Trakka 2



With V-Trakka 2

Application:

Oil rig topside Well-Slots can have a variety of trees. The valves, on these trees, generally have the following functions: Upper-Master, Production-Wing, Tubing, Anulus and Gas-Lift. The type of valve can be with or without a central stem.

Where there is a central stem, the v-Trakka type VT1 can usually be used. [Please follow this link for the VT1 Datasheet.](#)

Where there is no central stem, the v-Trakka type VT2 can usually be used.

Most installations of the VT2 v-Trakka's have been on Vetco Gray trees with valves RHA-75, RHA-60, RHA-48, RHA-35

We can offer a trial unit for assessment of Form-Fit-&-Function for any untested valve models (email photo's or drawings).

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