

dametric 

TVD-T3T1

Metso VAL0323610



TOUCHPOINT VIBRATION DETECTOR

MANUAL



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1. General

The TVD-T3T1 is a transducer for measuring the touch-point vibrations in a pulp refiner.

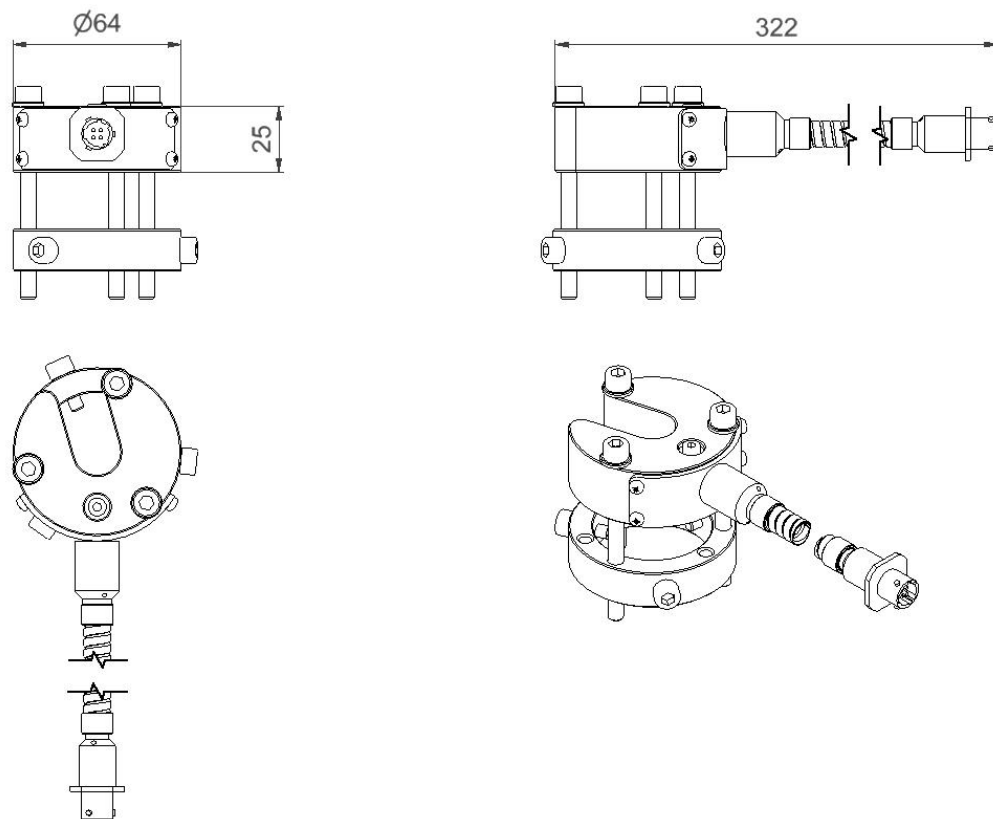
The unit is mounted direct on the back of a TDC sensor (True Disc Clearance). The sensor is fed with a constant current, and returns a superimposed ac-signal proportional to the acceleration amplitude.

The signal is amplified and monitored in a TVD monitor. There are two versions of the monitor. The TVD-M2/TVD-M3 models are stand-alone units and the TVD-RM1/TVD-RM3 are designed for the RMS-system.

2. Technical description

Sensor type:	Piezoelektrisk accelerometer
Sensitivity:	10mV/g
Range:	600g topp
Frequency range:	0.5 – 29kHz (± 3 dB)
Resonance frequency:	> 45kHz
Temperature range:	-20 ... 125°C
Excitation voltage:	18-30VDC
Current consumption:	2-10mA
Output impedance:	100 Ω
Isolation:	Internal circuitry is isolated from the cover
Shielding:	Intern circuitry is internally shielded
Weight:	ca 0.5 kg
Enclosure:	Stainless steel
Mounting:	On the backside of a TDC sensor
Connector:	4-pole, type MIL-C-26482
Valmet art.no.:	VAL0323610

3. Outline drawing



4. Mounting instruction

The transducer is mounted on the TDC-sensor. The screws between the sensor and the mounting ring are delivered in 2 lengths. The longer ones are to be used when the cable K-GTS is used, and the shorter ones are for the cable K-GT.

- Check that the sensor has 3 mounting holes according to the drawing below.
- Mount and tighten the TDC-sensor.
- Connect the TDC cable (normally a K-GTS) to the TDC sensor.
- Mount the TVD-sensor on top of the TDC-sensor. Mount and tighten the ring on the TDC-sensor. Mount the three long M6 screws and pull the TVD-sensor tight to the TDC-sensor. The screws should be tightened with the force of 5 Nm.
- Connect the TVD-cable (4-pole) to the TVD-sensor. Check that the connector bayonet snaps.



5. Contact

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