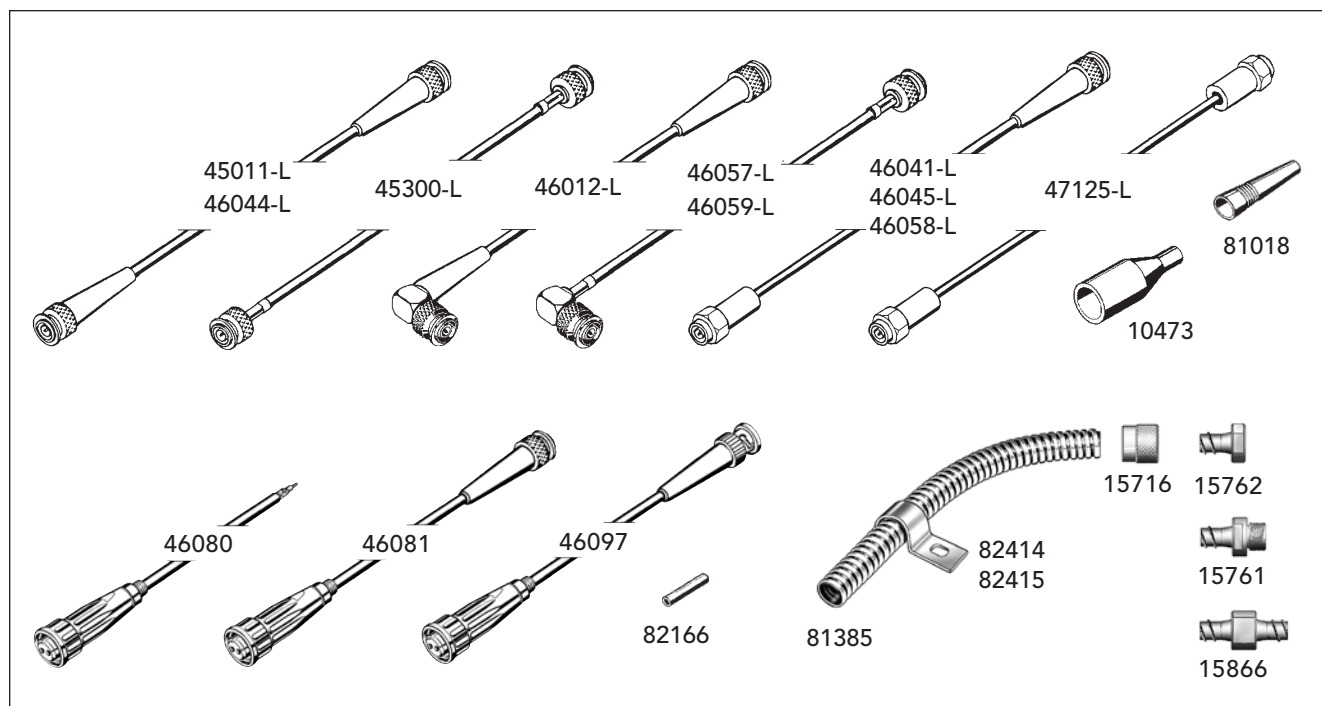


Coaxial cables and accessories



Coaxial cables for shock pulse transducers and vibration transducers with pre-amplifier

- 45011-L Cable with connectors, TNC-TNC, -10 to 70 °C
- 45300-L Cable with connectors, TNC-TNC, -55 to 150 °C
- 46012-L Cable with connectors, TNC-TNC, -10 to 70 °C
- 46041-L Cable with connectors, TNC-TNC, -55 to 150 °C
- 46050-L Cable with connectors, TNC-SMB, -10 to 70 °C
- 46057-L Cable with connectors, TNC-TNC, -55 to 150 °C
- 46058-L Cable with connectors, TNC-TNC, -10 to 70 °C
- 46080-L Cable with connector, 2pin, -55 to 150 °C
- 46081-L Cable with connectors, 2pin-TNC, -10 to 70 °C
- 46097-L Cable with connectors, 2pin-BNC, -10 to 70 °C
- 47125-L Cable with TNC sealing connectors, -55 to 150 °C
- 90005-L Coaxial cable without connectors, -10 to 70 °C
- 90267-L Coaxial cable without connectors, -55 to 150 °C

Accessories

- 10473 Sealing cover for TNC/BNC connector
- 81018 PVC sleeve for TNC/BNC crimp connector
- 82166 Neoprene tube for cable 90267-L
- 81385 Protection tube, outer diameter 9.3 mm, stainless acid proof steel
- 82414 Clips JR 9.5 mm, stainless steel
- 82415 Clips JR 9.5 mm, stainless acid proof steel
- 15716 Sleeve for protection tube, stainless steel
- 15761 Fitting for protection tube, stainless steel, thread for locknut M10 x 1
- 15762 End piece for protection tube, stainless steel
- 15866 Coupler for protection tube, stainless steel

Coaxial cables for vibration transducers without pre-amplifier

- 46044-L Low noise cable with TNC connectors, -10 to 70 °C, L = max. 10 m
- 46045-L Low noise coaxial cable with one standard TNC and one sealing connector (SPM 13008), -10 to 70 °C, L = max. 10 m
- 46059-L Low noise cable with TNC connectors, -10 to 70 °C, L = max. 10 m
- 90176-L Low noise coaxial cable without connectors, -10 to 70 °C
- 90292-L Low noise coaxial cable without connectors, -65 to 150 °C

Coaxial cable for vibration transducer TRV-01

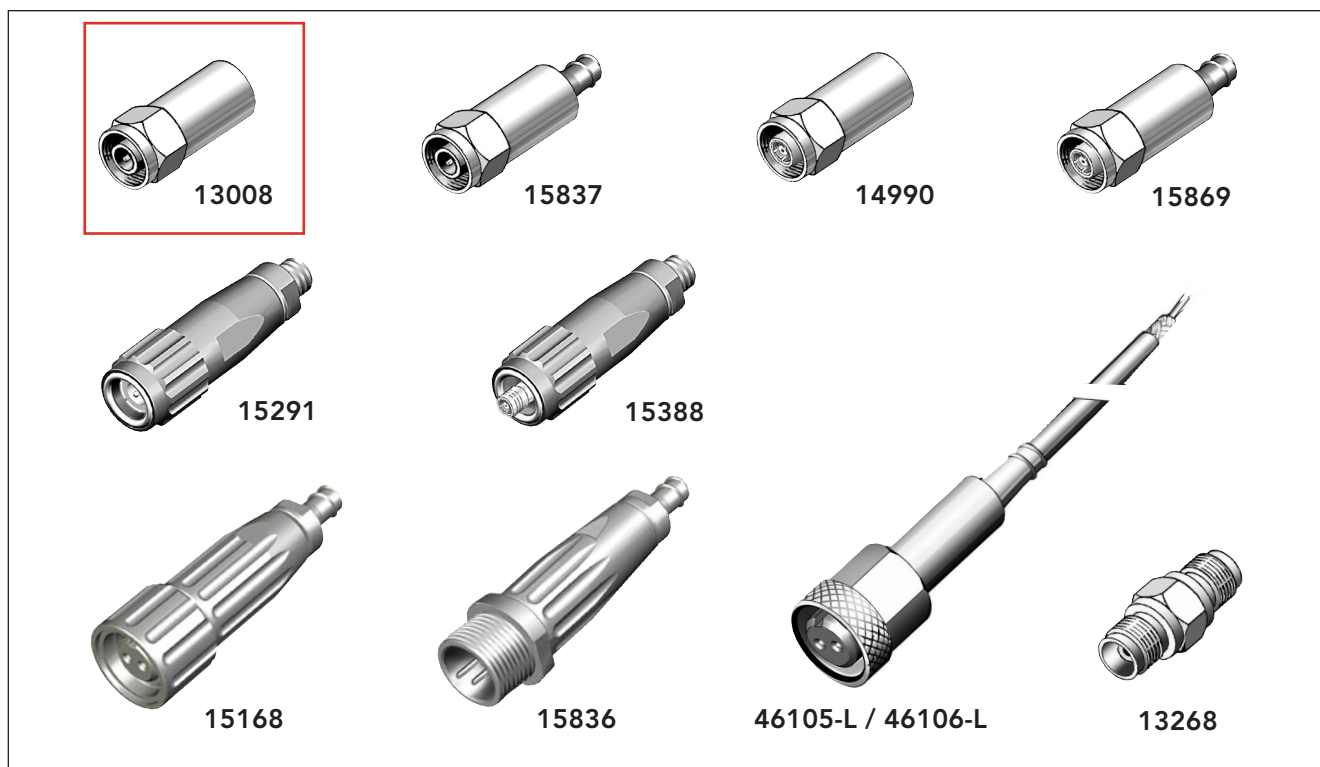
- 46019-L Low noise cable with connectors, TNC-SMA, -10 to 70 °C, L = max. 10 m

Note:

When ordering cables and/or protection tube, please state the desired length (L) in meters.



Sealed Connectors - Overview



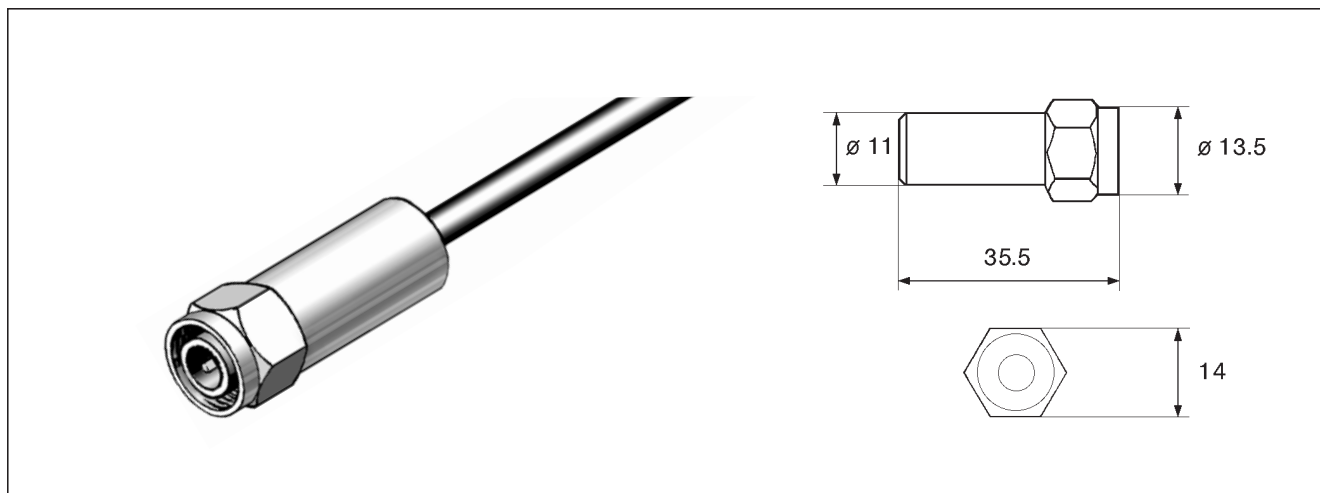
The listed equipment is used for SPM cable installations for shock pulse and vibration monitoring. See specific data sheets (TD) for installation descriptions and technical specifications

Article no.	Connector	Type	Protection	Material	Fitting for protection tube	TD sheet
13008	TNC	plug	IP67	stainless steel	no	TD-009
15837	TNC	plug	IP67	stainless steel	yes	TD-292
15291	TNC	plug	IP67	composite	yes	TD-257
13268	TNC	jack-jack	IP67	stainless steel	no	TD-025
14990	SMB	plug	IP67	stainless steel	no	TD-248
15869	SMB	plug	IP67	stainless steel	yes	TD-294
15388	SMB	plug	IP67	composite	yes	TD-258
15168	2-pin	jack	Ex, IP67	composite	yes	TD-217
15836	2-pin	plug	Ex, IP67	composite	yes	TD-291
46105-L	2-pin	jack with integrated cable -65° to +200°C *	Ex, IP67	stainless steel	yes	TD-296
46106-L	2-pin	jack with integrated cable, -40° to +90°C *	Ex, IP67	stainless steel	yes	TD-296

* When ordering connector with integrated cable, please state the desired cable length (L) in meters.



TNC Cable Plug 13008



SPM 13008 is a special TNC cable plug for SPM installations in moist environments. It prevents moisture from entering the coaxial cable and causing loss of signal strength. The cable plug fits standard shock pulse transducers and other SPM measuring equipment with TNC jacks having a $\varnothing 14$ mm connector base. It must be used wherever the TNC connection is exposed to water, steam, or high humidity.

The cable seal, marked A below, seals the cable entry when the connector collet is tightened. The sealing ring marked B is placed over the receiving TNC jack and seals the other end of the connection.

Note: The connector package contains two cable seals (A) of different sizes, marked in different colours:

- green seal for cable diameter 4 mm
- black seal for cable diameter 5 mm.

Use the appropriate seal and discard the other. Lubricate the thread with oil or grease. Tighten the connector with a 14 mm open wrench.

The instruction for cable stripping is included in the package. SPM offers two tools for connector mounting:

- 81052 Cutting tool for stripping coaxial cables
- 81026 Crimping tool for fitting cable connectors.

To join two cables in moist environment, use the TNC adapter SPM 13268 (separate data sheet) together with two cable connectors SPM 13008.

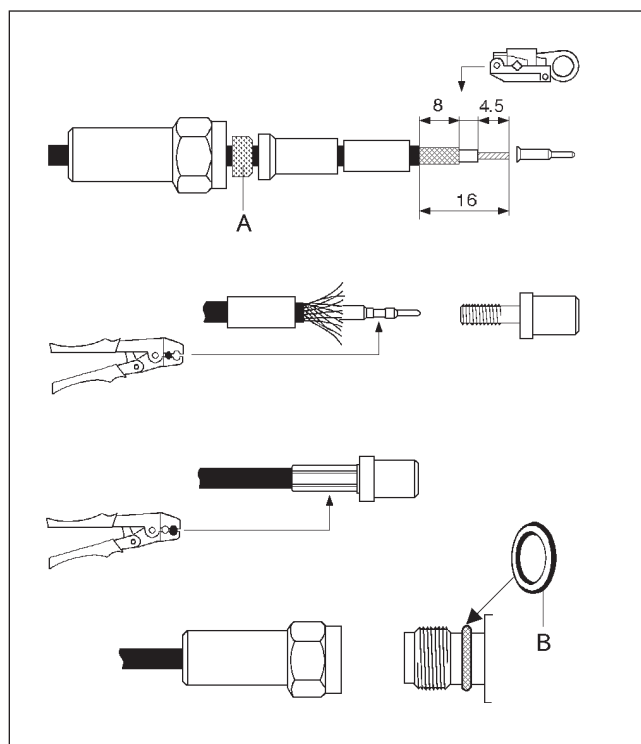
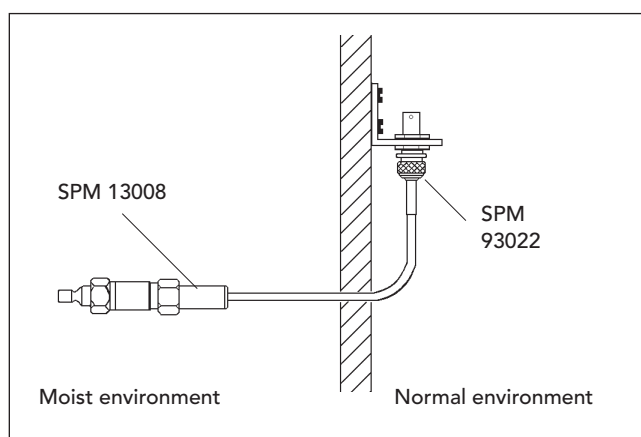
Technical data:

Material, connector body: Stainless acid proof steel,
Sandvik Grade:1802, EN:1.4523

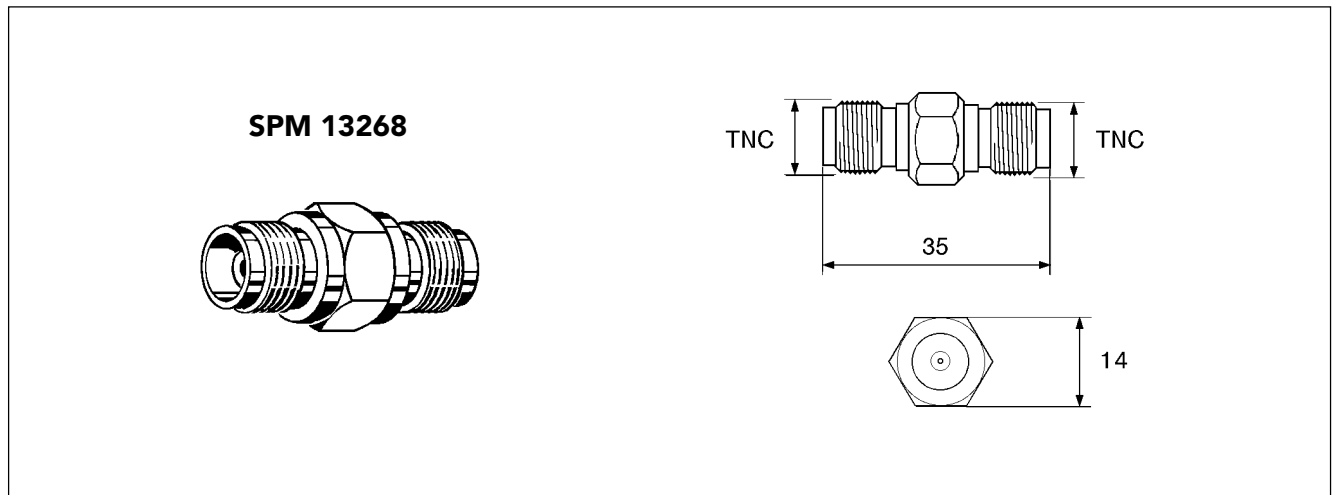
Connector type: TNC plug

Seals: Viton (fluor rubber)

Torque: Min. 7 Nm / Max. 9 Nm

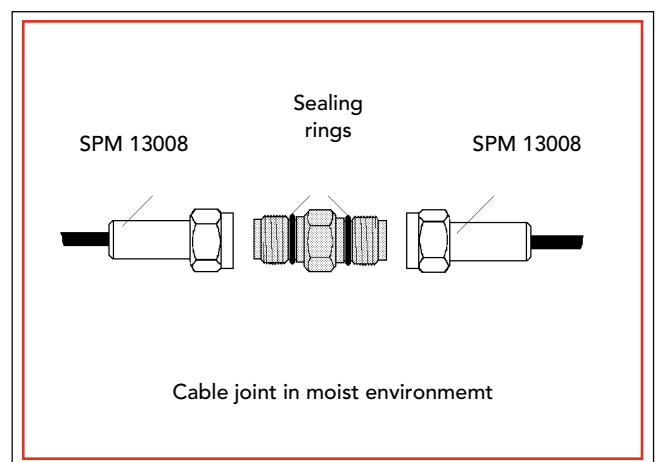


TNC Adapter for Sealed Installation



SPM 13268 is a special TNC adapter (jack - jack) for joining two coaxial cables. It is used to repair broken cables or to prolong cables during installation.

In environments where the connection is exposed to water, steam, or high humidity, the cable plugs must be of type SPM 13008. This type of plug prevents moisture from entering the coaxial cable and causing loss of signal strength. The sealing rings are placed over the receiving TNC jacks of the adapter. The connection is tightened with two 14 mm open wrenches until the sealing rings are slightly flattened against the adapter body.

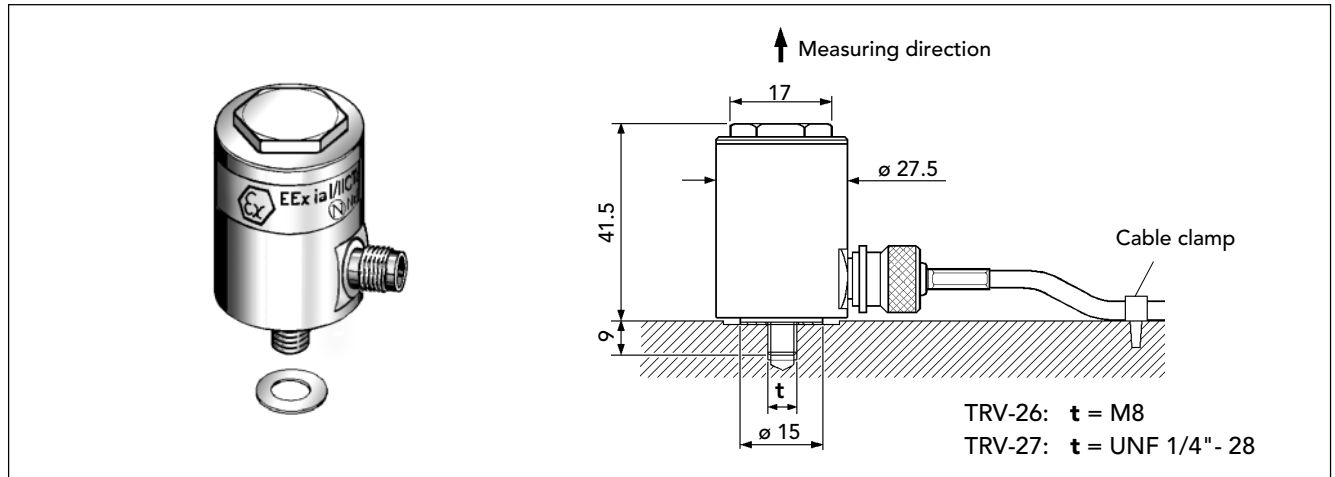


Technical Data

Material, adapter body:	Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
Connector tightness	IP65 with TNC connector IP67 with conn. SPM13008
Connector type:	TNC jack



Vibration Transducer TRV-26 / 27



The transducers TRV-26 and TRV-27 are piezo-electric accelerometers of compression type, designed for vibration monitoring of industrial machinery. Intended for use with the handheld instruments Tester T30Ex and Analyzer A30Ex in potentially explosive atmosphere.

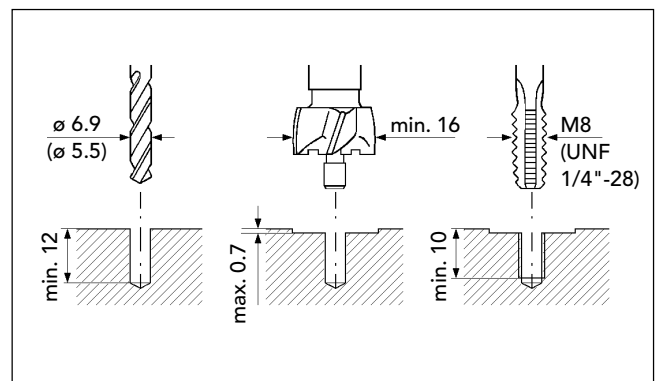
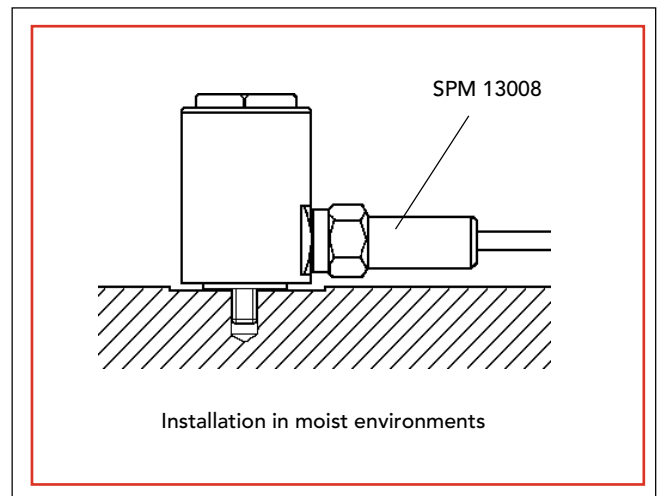
The transducer is mounted in a threaded hole on a smooth, flat surface on the machine. It is delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. Fix low noise coaxial cable (SPM 90176-L or 90292-L) with TNC connector with a clamp close to the transducer.

For installations in moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion.

Technical data

Certificate of conformity:	NEMKO 03 ATEX 185
Ex certification:	I M2/II 2 G EEx ib I/IIB T4
CE number:	CE 0470
Nominal sensitivity, main axis:	10 pC/m/s ² (7-12 pC/m/s ²) *
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s ² /∞ strain
Linear frequency range:	0 to 5000 Hz
Max. peak acceleration:	600 m/s ²
Temperature range:	0°C to +50°C (+32°F to +120°F)
Typical temperature drift:	0.25% / °C
Casing:	Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
Design:	Sealed
Connector tightness:	IP 65 with TNC connector IP 67 with conn. SPM 13008
Weight:	171 grams (6 oz)
Connector type:	TNC
Torque limit:	10 Nm (7.4 lbf/ ft)

* Individual value given on the calibration chart.



To drill the mounting hole, use drill bit 6.9 mm (M8) or 5.5 mm (UNF 1/4"-28). Torque and unscrew the transducer with a torque wrench and a 17 mm socket (SPM 81086).

Part Numbers

TRV-26	Vibration transducer, M 8
TRV-27	Vibration transducer, UNF 1/4"-28
13008	Sealing TNC cable plug
81027	Holder for counterbore
81057	Counterbore, diam. 20 mm
81030	Pilot for UNF 1/4" (TRV-27)
81031	Pilot for M8 (TRV-26)

