



tomography



crosshole



downhole



surface seismic



geotomographie

manufacturer of seismic borehole equipment



BGK3/7 | Borehole Geophone

The borehole geophone BGK series is used to receive P- and S-waves in dry or water filled boreholes. The borehole geophone BGK3 consists of a tri-axial sensor whereas the BGK7 consists of six horizontal sensors, separated by 30° intervals, and one vertical sensor. The geophone is coupled to the borehole wall by a pneumatic clamping system (inflatable bladder). Air is supplied to the BGK through an electro-pneumatic hybrid cable with a Kevlar tension string. A magnetic compass shows azimuthal deviation to North and can be used to get the orientation of the geophone in the borehole. The cable is terminated by a connector to the seismograph.

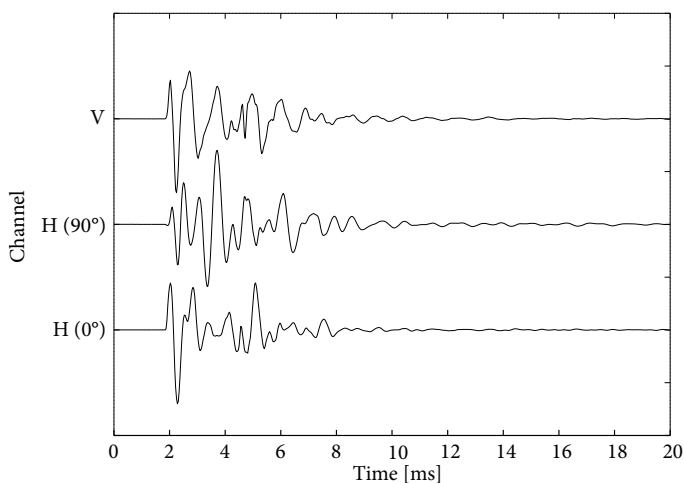


Borehole geophone BGK with cable drum, pneumatic clamping mechanism using an inflatable bladder and a standard bicycle pump and magnetic compass display.

Technical Details

- Natural sensor frequency:** 30 Hz (others on request)
- Sensor arrangement:** Tri-axial (BGK3) or 6 horizontal (30°)/1 vertical (BGK7)
- Operational depth:** Up to 100 m
- Receiver length:** 705 mm
- Receiver diameter:** 50 mm
- Receiver weight:** 3 kg
- Cable weight per metre:** 145 g
- Cable strength:** 2150 N
- Borehole diameter:** 75 mm (or larger if spacers are used)
- Clamping system:** Inflatable bladder
- Orientation:** Magnetic compass (+/-2.5°)
- Depth indicator:** Cable marking every 2 m
- Connector:** To any seismograph
- Storage:** On drum

Data Example BGK3



Data Example BGK7

