

**GERO<sup>®</sup>therm VARIO, the conical, pressure loss-optimised geothermal probe de 32 mm up to PN16**

Fully factory pre-assembled double U geothermal probes with GERO<sup>®</sup>therm pipe made of PE100-RC (with significantly increased crack-resistance), black, **tapered inner pipe to reduce pressure loss** with wall thickness from 2.5 to 3.0 mm, pressure level depending on depth **PN13.4 to PN16**. Proof of suitability for installation without a sand bed (required minimum service life FNCT of > 8,760 hrs for each raw material batch, test conditions: 80°C, 4 N/mm<sup>2</sup>, 2% Arkopal N-100). Specially developed, injection-moulded probe foot **PN25** for the geothermal field. Flow deflection in the probe foot without cross section narrowing; flow resistance <10 mbar at 1 m/s. Sand/gravel collection container integrated in the probe foot. Two ribs are integrated in the collection container which reduce jamming of the measuring float. This enables problem-free usage of measuring bodies. Patent No. EP 2 395 301. Weld seams made in accordance with DVS, quality monitoring in accordance with the directive HR3.26 of the SKZ Würzburg plastics centre for pipes, weld and deflection (system specification). SKZ certified and monitored. SKZ certificate No. A278. Compliant with the specifications and requirements of the seal of approval for geothermal probe drilling companies (D-A-CH). Abrasion-resistant geothermal probe pipe labelled as geothermal probe pipe with forward and return meter count including production date/batch/flow direction display for forward and return. Factory tested with individual test certificate.

Delivery form: coils on pallets

♻ Recycling: the probe material is sorted and completely recyclable.

This innovative geothermal probe is patented.

Patent No.: EP 2 706 308

Probe pipe dimensions: d 32 x 2.5–3.0 mm

Probe length: ..... m

Art. No.: .....

Quantity ..... Units

**GERO<sup>®</sup>therm VARIO, the conical, pressure loss-optimised geothermal probe de 40 mm, up to PN16**

Fully factory pre-assembled double U geothermal probes with GERO<sup>®</sup>therm pipe made of PE100-RC (with significantly increased crack-resistance), black, tapered inner pipe to reduce pressure loss with wall thickness from 3.1 to 3.7 mm, pressure level depending on depth **PN13.4 to PN16**. Proof of suitability for installation without a sand bed (required minimum service life FNCT of > 8,760 hrs for each raw material batch, test conditions: 80°C, 4 N/mm<sup>2</sup>, 2% Arkopal N-100). Specially developed, injection-moulded probe foot **PN25** for the geothermal field. Flow deflection in the probe foot without cross section narrowing; flow resistance <10 mbar at 1 m/s. Sand/gravel collection container integrated in the probe foot. Two ribs are integrated in the collection container which reduce jamming of the measuring float. This enables problem-free usage of measuring bodies. Patent No. EP 2 395 301. Weld seams made in accordance with DVS, quality monitoring in accordance with the directive HR3.26 of the SKZ Würzburg plastics centre for pipes, weld and deflection (system specification). SKZ certified and monitored. SKZ certificate No. A278. Compliant with the specifications and requirements of the seal of approval for geothermal probe drilling companies (D-A-CH).

Abrasion-resistant geothermal probe pipe labelled as geothermal probe pipe with forward and return meter count including production date/batch/flow direction display for forward and return.

Factory tested with individual test certificate

Delivery form: coils on pallets

♻ Recycling: the probe material is sorted and completely recyclable.

This innovative geothermal probe is patented.

Patent No.: EP 2 706 308

Probe pipe dimensions: d 40 x 3.1–3.7 mm

Probe length: ..... m

Art. No.: .....

Quantity ..... Units

### **GERO<sup>therm</sup>® VARIO, the conical, pressure loss-optimised geothermal probe de 40 mm, up to PN20**

Fully factory pre-assembled double U geothermal probes with GERO<sup>therm</sup>® pipe made of PE100-RC (with significantly increased crack-resistance), black, tapered inner pipe to reduce pressure loss with wall thickness from 3.7 to 4.5 mm, pressure level depending on depth **up to PN20 internal pressure stable** and increase of the buckling pressure during the pressing process. Proof of suitability for installation without a sand bed (required minimum service life FNCT of > 8,760 hrs for each raw material batch, test conditions: 80°C, 4 N/mm<sup>2</sup>, 2% Arkopal N-100). Specially developed, injection-moulded probe foot **PN25** for the geothermal field. Flow deflection in the probe foot without cross section narrowing; flow resistance <10 mbar at 1 m/s. Sand/gravel collection container integrated in the probe foot. Two ribs are integrated in the collection container which reduce jamming of the measuring float. This enables problem-free usage of measuring bodies. Patent No. EP 2 395 301. Weld seams made in accordance with DVS, quality monitoring in accordance with the directive HR3.26 of the SKZ Würzburg plastics centre for pipes, weld and deflection (system specification). SKZ certified and monitored. SKZ certificate No. A278. Certified and monitored by KIWA KOMO. Certificate No.: K84665/01. Compliant with the specifications and requirements of the seal of approval for geothermal probe drilling companies (D-A-CH). Abrasion-resistant geothermal probe pipe labelled as geothermal probe pipe with forward and return meter count including production date/batch/flow direction display for forward and return.

Factory tested with individual test certificate

Delivery form: coils on pallets

♻ Recycling: the probe material is sorted and completely recyclable.

This innovative geothermal probe is patented.

Patent No.: EP 2 706 308

Probe pipe dimensions: d 40 x 3.7–4.5 mm

Probe length: ..... m

Art. No.: .....

Quantity ..... Units

**GERO<sup>®</sup>therm VARIO, the conical, pressure loss-optimised geothermal probe geothermal probes de 50 mm, up to PN20**

Fully factory pre-assembled double U geothermal probes with GERO<sup>®</sup>therm pipe made of PE100-RC (with significantly increased crack-resistance), black, tapered inner pipe to reduce pressure loss with wall thickness from 4.6 to 5.6 mm, pressure level depending on depth **up to PN20 internal pressure stable** and increase of the buckling pressure during the pressing process. Proof of suitability for installation without a sand bed (required minimum service life FNCT of > 8,760 hrs for each raw material batch, test conditions: 80°C, 4 N/mm<sup>2</sup>, 2% Arkopal N-100). Specially developed, injection-moulded probe foot **PN25** for the geothermal field. Flow deflection in the probe foot without cross section narrowing; flow resistance <10 mbar at 1 m/s. Sand/gravel collection container integrated in the probe foot. Two ribs are integrated in the collection container which reduce jamming of the measuring float. This enables problem-free usage of measuring bodies. Patent No. EP 2 395 301. Weld seams made in accordance with DVS, quality monitoring in accordance with the directive HR3.26 of the SKZ Würzburg plastics centre for pipes, weld and deflection (system specification). SKZ certified and monitored. SKZ certificate No. A278. Certified and monitored by KIWA KOMO. Certificate No.: K84665/01. Compliant with the specifications and requirements of the seal of approval for geothermal probe drilling companies (D-A-CH). Abrasion-resistant geothermal probe pipe labelled as geothermal probe pipe with forward and return meter count including production date/batch/flow direction display for forward and return.

Factory tested with individual test certificate

Delivery form: coils on pallets

♻ Recycling: the probe material is sorted and completely recyclable.

This innovative geothermal probe is patented.

Patent No.: EP 2 706 308

Probe pipe dimensions: d 50 x 4.6–5.6 mm

Probe length: ..... m

Art. No.: .....

Quantity ..... Units