

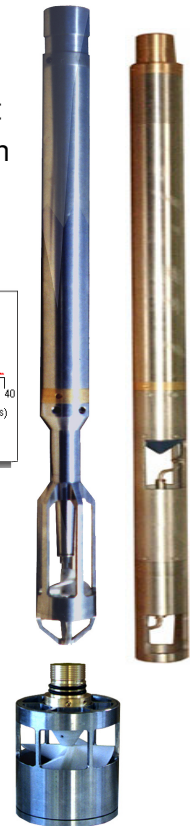
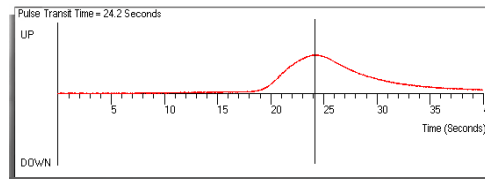
Flowmeter Sondes

The Geovista flowmeter probes can be used on their own, in combination with other Geovista sondes.

*** Impeller Flowmeter:** Different size impeller cages can be interchanged to suit different pipe or borehole diameters. An adapter is available to run this sonde in series with a Temperature & Conductivity sonde. The combinability with a Temperature & Conductivity sonde is particularly useful during pumping tests.

*** Heat-Pulse Flowmeter:**

This sonde is used to measure flow rates that are below the threshold of the impeller flowmeter.



Specifications:

| Impeller Flowmeter | |
|---------------------------|------------------------------------------------------------------------------|
| Weight / length: | 3.5 kg / 0.48 m |
| Cage Diameter : | Optional interchangeable impeller cage sizes to order (Ø 50, 75 and 100 mm) |
| Threshold Velocity: | Varies with cage size. |
| Resolution: | 1/40th turn |
| Data output: | Flow, direction |
| Max. Press./ Temp.: | 20MPa / 80°C |

| Heat-Pulse Flowmeter | |
|-----------------------------|-----------------|
| Weight / length: | 6.2 kg / 0.9 m |
| Sonde Ø: | 51 mm |
| Measure Range: | 0.1 to 3 m/min |
| Resolution: | 0.1 s |
| Data output: | Time, Direction |
| Max. Press./ Temp.: | 20MPa / 80°C |

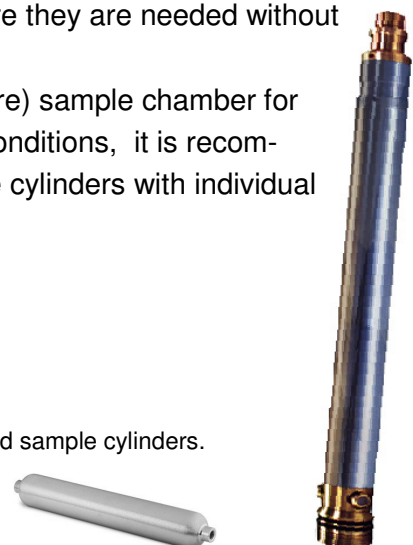
Addressable Fluid Sampler

The Geovista Fluid Sampler sonde is capable of retrieving samples from boreholes, using a combination of motorised and manual valves. The sonde can be run alone or in combination with other Geovista sondes like for example a Gamma Ray, CCL and Temperature & Conductivity sondes so that samples are taken exactly where they are needed without additional logging runs.

The sonde is normally supplied with a 1 litre (or optionally 2 litre) sample chamber for general sampling. For sample preservation under downhole conditions, it is recommended to use a system of removable smaller volume sample cylinders with individual valves, typically 300 cc each.

Specifications:

| | | |
|----------------|-------------------------------------------------------------------------|-------------------|
| Weight : | 3.0 kg | 0.45 m |
| Length : | 0.45 m (Without sample chamber) | |
| Diameter: | 44 mm | |
| Sample Volume: | 1 litre or 2 Litre (Main chamber), or as per selected sample cylinders. | |
| Max. Press. : | 10MPa | Max. Temp. : 80°C |



Geovista reserve the right to change the products' list and specifications without prior notice