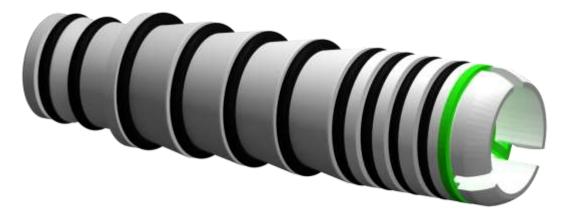
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## Diamond drill installation instructions - Grouter Mk4 & Mk4R

The *DD Grout Plugs Grouter Mk4* is made for pressure grouting diamond drill holes. To work, the plug needs to be installed in competent ground. For best results it pays to check the core for a good installation location.

## Instructions;

- 1. For diamond drill rig installation you will need a 300mm section of old, straight drill rod as an installation sub. Cut it off square, and file off any sharp edges on the outside and file a small chamfer on the inside edge. This sub can be re-used for further installations.
- 2. Wet the sub and the plug. Knock the cut end of the sub on to the small end of the plug.
- 3. Feed the plug with the drill string into the planned location. The front sealing o-rings are on staggered seat heights with the back one being the tightest. Grouting can occur immediately through the rods, or alternatively at a later date through the internal 1" BSP threaded fitting.
- 4. On completion of installation or grouting, pull the rods. Note there will be a disconnection force of up to 3 tonnes, this is normal. The plug will hold its position and the internal check valve will hold grout or high pressure water.
- 5. For grouting at a later date, connect up a 1" BSPT male threaded pipe of the pressure rating required. A 1" BSPT (tapered) thread is best suited for grouting since it will lock and seal the threads, and cannot open the check valve.

The *Grouter Mk4* is designed with materials that will resist acid and chemicals such as grout accelerator, and will not corrode. It can be drilled out if the hole is extended at a later date. The stainless steel insert will be quite tough to drill through, or at 40mm diameter could be over-cored for removal. The stainless steel insert in the plug will not corrode and is made of a grade that will be picked up by magnets.

Pressure Rating: 1000 psi (69 Bar) at a 2:1 Factor of Safety

Temperature Rating: 100 degrees C.

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Australia (granted) 2014376126 USA (granted) 10,577,886 Philippines (granted) 1-2016-501372 Eurasia (Russia, Kazakhstan) (granted) 035669 ARIPO (Tanzania, Ghana, Zambia) AP/P/2016/009330 New Zealand (granted) Canada (granted) 2,935,386 Indonesia P-00201605136 Europe 14877624.8 South Africa 2016/04598 Chile (granted) 62.699 Argentina P15 01 00037 Mexico (granted) 372758