



## **Diamond drill installation instructions – Grouter Mk4R**

The **DD Grout Plugs Grouter Mk4R** 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. 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 (tapered) male threaded pipe of the pressure rating required. BSPT is best suited for grouting since it will lock and seal the threads, and cannot open the check valve.
6. For use as a standpipe, this plug has an internal spacer that allows a 1" BSPP (parallel) threaded pipe to remotely open the check valve up to 500 psi (34 bar). An external tap will allow drainage of the water table to be regulated, for example with pumping capacity.

The **Grouter Mk4R** 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.

[sales@ddgroutplugs.com](mailto:sales@ddgroutplugs.com)



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