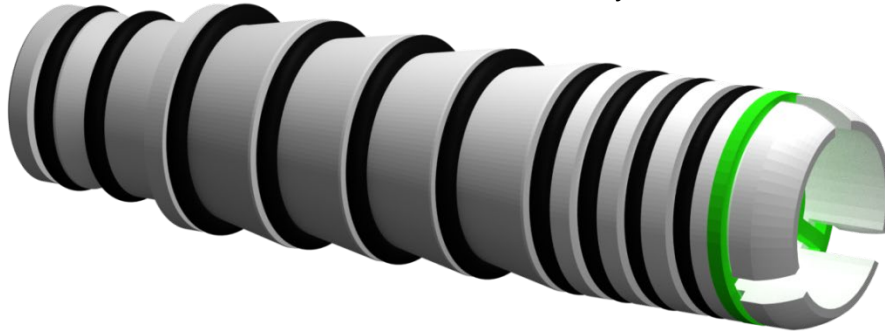


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Grouter Mk4 Data Sheet

The *DD Grout Plugs Grouter Mk4™* is constructed using the *DD Grout Plugs Hydra-Barb Technology™*. It is a simple mechanical plug for grouting underground diamond drill holes against high pressure water flow. The *Grouter Mk4* is temperature rated to 100 degrees C, and pressure rated to 1000 psi (69 Bar) with a 2:1 Factor of Safety. The *Grouter Mk4* is suitable for grouting underground hard rock formations drilled with a diamond matrix drill bit.

IMPORTANT: The *Grouter Mk4* is made for use with standard size reamers.

Installation can be carried out two ways;

- With a diamond drill rig using a sub made from old but straight drill rod. The installation sub can be re-used. The plug can be installed into the sub by hand or by putting the sub on the end of the drill rod, putting a plate over the centraliser, and gently pushing the plug in to the sub by feeding the drill rod against the plate.
- Development jumbo installation for intersected holes, using a 46mm split set dolly fitting into the back of the plug.

The plug is made with tolerances to fit standard sized reamer holes only.

Grouting can occur through diamond drill rods if installing with a diamond drill rig, or alternately later through a 1" BSPT male threaded pipe to the pressure rating required. The stainless steel insert in the plug will not corrode and is made of a grade that will be picked up by magnets.

With an additional internal components on request, the plug can be used as a standpipe (*Grouter Mk4R*, red). The internal check valve can be remotely opened using a 1" BSPP male threaded pipe up to 500 psi (34 Bar). A tap installed on the end of the pipe then allows regulating the water flow, monitoring pressure readings or taking periodic water samples.

For further information please contact;

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© 2023, Patent Numbers and Application Numbers:

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