

Grout-Free Expandable Standpipe*

Grout-Free Expandable Standpipe:

IPI Expandable Standpipes eliminate non-productive cure time associated with conventional grout and the expense and inconvenience of resin grout. Installation is achieved by in-situ expansion of a rubber-coated steel standpipe using IPI's high-pressure setting tool. Once expanded and firmly anchored in rock, the standpipe can be pressure tested immediately and drilling can commence. Installation and testing take less than 30 minutes per standpipe. The setting tool utilizes IPI's high-pressure inflatable packer technology to provide a portable, robust and durable installation tool. The assembly includes an IPI re-usable inflatable packer assembly, variable length expandable standpipe, and cordless high-pressure pump.

Applications:

- ◆ Groundwater control in tunneling and mining
- ◆ Pre-excavation grouting
- ◆ High pressure curtain grouting
- ◆ Underground exploration drilling
- ◆ TBM tunnel construction

Benefits:

- ◆ No grout required to install standpipes
- ◆ Portable for underground tunnel height restrictions
- ◆ Pressure-test ready in less than 10 minutes
- ◆ Threaded connection for BOP installation
- ◆ Compatible with Jumbo and TBM drills
- ◆ Re-useable inflatable packer setting tool
- ◆ Cordless high-pressure hydraulic pump
- ◆ After grouting, standpipe extension can be removed to eliminate pipe stick-out into excavation



* Patent Pending



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Technical Specifications:

Standard Dimensions*:		
Expandable Anchor Length	4ft or 8ft	1220mm or 2440mm
Overall Standpipe Length	12ft	3650mm
Expandable Anchor ID (pre-expansion)	2.64in	67mm
Pilot Borehole Size	3.5in	89mm
Maximum Drill-through Size	2.5in	63.5mm

Steps for Installation:

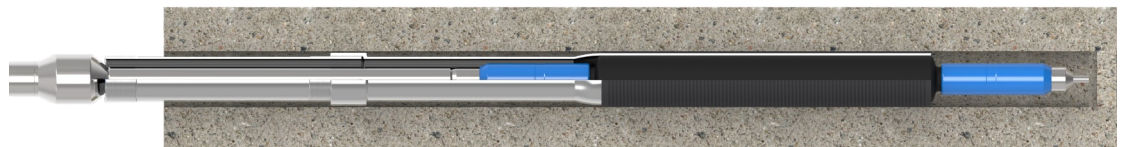
Insert standpipe



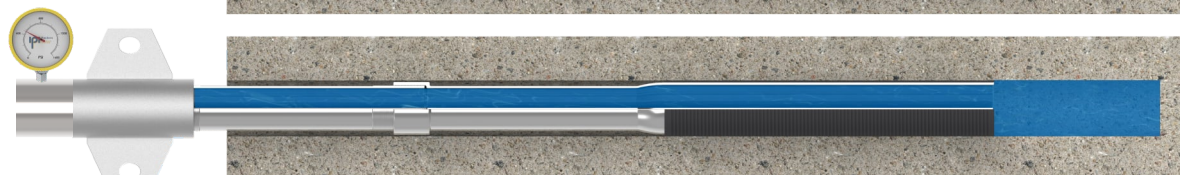
Insert Inflatable packer setting tool



Expand standpipe anchor section



Retrieve setting tool and conduct standpipe pressure test



Drill through standpipe to target depth



Pump grout



OPTIONAL: Remove standpipe extension after grouting



* Custom sizes available upon request

