

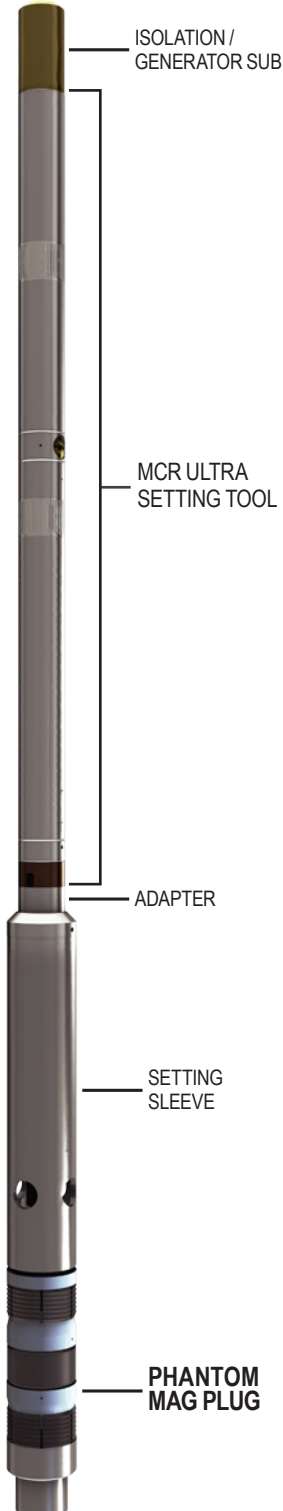
PLUG TECHNOLOGY

MCR's Phantom™ Mag Plug Technology provides unmatched safety, performance and versatility for your bridge or frac plug demands. MCR's magnesium based plug technology provides a self-removing option resulting in an unrestricted well bore. The Phantom Plug assemblies can be activated with a Consumable Trigger System (CTS) integrated within the plug, or externally activated with an Axial **Pyro Torch®** (APT) tool deployed via any standard conveyance method. Each self-removing Phantom Plug system can be deployed on electric wireline, coiled tubing, slickline, or pipe.

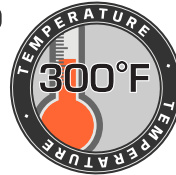
BENEFITS

- **Professional**
Compatible with **MUST™** System, **THG™** activator, Axial Pyro Torch tool and additional systems available upon request.
- **Smart**
The system eliminates the bridge plug milling retrieval process. The Phantom Plug System requires no explosives, hazardous materials or rig operations associated with traditional barriers resulting in the highest reliability and safety at all stages of the operation.
- **Safe**
The entire Phantom Plug System is provided as a non-hazmat process from purchase through service life.
- **Reliable**
The core technology is based on years of design and field proven experience with MCR proprietary thermite technology. The end result is a highly effective, programmed self-removal plug. Complete barrier removal typically occurs in 15 mins or less following activation.
- **Deployment**
The Phantom assembly is shipped as a kit and assembled with end user ease in mind. The unique single use and self-removing system provides the operator with a brand new tool every run where a Phantom Plug System is deployed.
- **Flexible**
Utilizes standard, field proven MCR connectors for integration with a variety of tool systems including the MCR Consumable Trigger System (CTS) and Axial Pyro Torch (APT).





UP TO



UP TO



SPECIFICATIONS

DESCRIPTION:	4-1/2" PHANTOM MAG PLUG SYSTEM (Bridge or Frac); 9.5# to 15.5# casing
LENGTH:	<i>varies with configurations</i>
WEIGHT:	<i>varies with configurations</i>
RUNNING DIAMETER:	3.71" (9.42 cm)
PRESSURE RATING:	Options up to 15,000 psi (differential) (103 MPa)
TEMPERATURE RATING:	Maximum 300°F (149°C)
<i>Contact MCR for up-to-date specifications and size/availability</i>	

SUPPORTING TOOLS

- MCR Ultra Setting Tool (MUST)
- MCR Consumable Trigger (CTS)
- MCR Axial Pyro Torch System (APT)