MINOVA

MINING

Friction pipe bolt

TYPE Ø33, Ø39, Ø48

DESCRIPTION

The bolt is made from a section of Ø33, Ø39, Ø48 mm in diameter and dedicated thickness. The cross-section of the bolt is an incomplete outline of the pipe that closes during the bolting operation.

The upper part of the anchor is formed into a cone. The lower part has a retaining ring for mounting the washer.

When set in the hole, the bolt is given the required load capacity due to elastic rod structure.

APPLICATION AND USE

Friction pipe bolts type ø33 ø39 ø48 are designed for roof and ribs support in mine working areas as an independent or secondary bolting roof support system. They are also used for the attachment of various components of mining equipment.

ADVANTAGES

- Easy installation system that guarantees immediate achievement of anchor bolting capacity parameters
- Ability to transfer loads resulting from bursts and tectonic movements
- A wide range of diameters available
- High capacity of bolts

TECHNICAL DATA

Ø33 BOLT

Parameter	Minimum		Typical	
Yield Strength	415MPa	80kN	510MPa	100kN
Ultimate Tensile Strength of Tube	510MPa	100kN	610MPa	120kN
Friction Bolt Diameter			ø33mm x 2.3 mm	
Hole Diameter Range	30mm min./32mm max.			
Mass per Metre			1.53 kg	

Ø39 BOLT

Parameter	Minimum		Typical	
Yield Strength	415MPa	90kN	510MPa	115kN
Ultimate Tensile Strength of Tube	510MPa	115kN	600MPa	135kN
Friction Bolt Diameter			ø39mm x 2.3 mm	
Hole Diameter Range	35mm min./38mm max.			
Mass per Metre			1.77 kg	

Ø48 BOLT

Parameter	Minimum		Typical	
Yield Strength	345MPa	120kN	445MPa	160kN
Ultimate Tensile Strength of Tube	460MPa	165kN	510MPa	180kN
Friction Bolt Diameter			ø48mm x 3.2 mm	
Hole Diameter Range	44mm min./46.5mm max.			
Mass per Metre			2.86 kg	

APPLICATION METHOD

Drill a hole of a length equal to the length of the bolt. Preassemble the anchor by placing the washer on the rod.

Prepare the bolt for installation by inserting the end into the borehole and the ring in the socket of the percussion machine with impact energy of 200 ÷ 250 J. The bolt should be hammered in till the washer rests against the rock surface.

PACKAGING AND TRANSPORTATION

As a standard practice, anchor poles are packed in bundles of 100pcs and plates are stapled with 10pcs of wire.

Other packaging options available on request.

DISCLAIMER

All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties expressed or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.
- RUSSIA: ZAO "Carbo-ZAKK"
- SLOVAKIA: Minova Bohemia s. r. o., organizačná zložka
- SOUTH AFRICA: Minova Africa (Pty) Ltd.
- SPAIN: Minova Codiv S.L.U.
- SWEDEN / NORWAY: Minova Nordic AB
- UNITED KINGDOM: Minova Weldgrip Ltd.; Minova International Ltd.
- APAC: Minova Australia Pty Ltd.
- AMERICAS: Minova USA Inc.

CUSTOMER SERVICE

For additional support options available at your area, contact our local offices.

www.minovaglobal.com