

C~plug® Resorbable Cement Restrictor

C~plug®		
Size	Quantity	Art.-No.
8 mm	1	237008
10 mm	1	237010
12 mm	1	237012
14 mm	1	237014
16 mm	1	237016
18 mm	1	237018
20 mm	1	237009

C~plug® Application Set

Inserter inclusive measuring sleeve	1	237051
Sizing/Setting Instrument Set (6 sizes with box)	1	237032
Single Size of Sizing/Setting Instrument		
8 mm	1	237033
10 mm	1	237034
12 mm	1	237035
14 mm	1	237036
16 mm	1	237037
18 mm	1	237038

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Manufacturer

C~plug®
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Application Set

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C~plug®

Modern cementing techniques allow the creation of an optimal cement mantle within the femoral canal. The usage of cement restrictors in modern cementing techniques are a proven standard as a restrictor reduces the risk of a revision. The distal restrictor seals the intramedullary cavity and improves cement grouting to the implant surface for better implant fixation. A distal plug ensures the cement penetration into cancellous bone because of the supportive pressurization by the restrictor.



The specific concept of the C~plug®

- Resorbable and therefore no plug removal necessary
- Biocompatible
- Accurate positioning
- Reduced distal pressure
- Efficient protection of the intramedullary cavity
- Easy and safe instrumentation

C~plug® fulfills all requirements of a cement restrictor

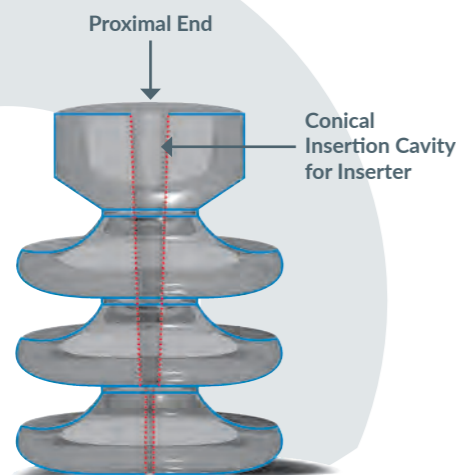
- Increased contact surface
- Accurate positioning
- Reducing distal pressure
- Resorbable composition

Increased Contact Surface

The C~plug® is a cylindrical restrictor with three rings seated on the base. The special designed rings lead to an increased contact surface during the insertion. The curved rings have an optimal stability and offer a high degree of resistance to possible displacement. The rings also support the optimal penetration of the bone cement.

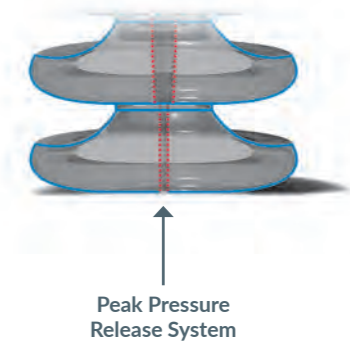
Accurate Positioning

The insertion cavity of the C~plug® is slightly conical and the initial inserter is straight. This leads to less adhesion between the inserter and the C~plug®. If the inserter is withdrawn out of the femoral canal, the C~plug® will automatically be placed at the distal depth limit of the femoral canal.



Reducing Distal Pressure

Due to the Peak Pressure Release System the distal pressure on the C~plug® is reduced. A special shaped air vent allows the air to pass which balances the pressure on both sides of the device. Consequently, the C~plug® remains exactly where it was initially placed.



Resorbable Composition

The C~plug® is a resorbable and biocompatible bone cement restrictor made out of porcine gelatin (approx. 57%), glycerol (approx. 37%), water (approx. 6%) and methyl-p-hydroxybenzoate (approx. 0.2%) and is available in 7 sizes (from 8 mm to 20 mm).



Application Set



The application set consists of the inserter and the sizing/setting instruments available in 6 sizes (from 8 mm to 18 mm). The individual sizing/setting instrument is screwed on the inserter in order to determine the diameter of the femoral canal. The inserter is scaled to measure the insertion depth limit for the C~plug®.

To facilitate an optimal cement mantle around the stem it is necessary to add 1 to 1.5 cm to the measured length. If the adequate size of the C~plug® is determined it will be placed with the inserter at the

desired depth of the femoral canal. The inserter will be removed while the C~plug® remains in situ. The surgery can proceed with cement filling and stem implantation.