

123 Helpsheet

Hardware

Top Caps

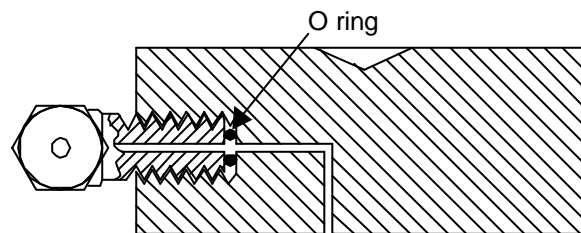
Fitting 1/8" BSP 'Swagelok' type connectors to Perspex top caps (new method)

1 Introduction

1/8" BSP Swagelok type connectors are often used to connect 1/8" tubing inside the triaxial cell as back pressure lines. When connecting to a Perspex top cap it is possible to overtighten the metal connector and cause damage to the thread of the Perspex top cap. To reduce the risk of damage to the topcap, a new method using the insertion of an o-ring is described. This method ensures a watertight seal may be achieved even when the connector is screwed 'finger' tight. The method may be used on either right angle or straight connectors, *but you must ensure the connector thread is NOT tapered* as is the case on some right angle connectors.

2 Fitting the connector

- 1) Put the "O" ring at the bottom of the threaded hole in the top cap. The "O" ring should have an inside diameter of 5mm and a thickness of 2mm. The "O" ring material should be Nitrile.
- 2) Carefully screw the swagelok connector into the top cap. Avoid cross threading the connector in the top cap.



- 3) **The connector should not be over tightened with a spanner!**

The connector can be up to 45° from the horizontal.

