

air, usually at a pressure of 3000psi, through an opening 11 at one end of the capsule. This opening is normally closed by a valve 12 comprising a valve spool 13 fitted with two 'O' rings 14 and 15 of different sizes (see FIGURE 5), the outer, larger ring 14 engaging a valve seat formed around the opening 11.

5 The valve spool 13 is supported by one end of a cylindrical stem 16 extending through the chamber C1 coaxially with the capsule body, the other end of the stem extending into a blind bore 17 formed in a grub screw 18. The stem is a sliding fit in this bore, which may be hexagonal in shape, so that when the capsule is being charged the pressure of the air from the supply forces open the

10 valve 12, the larger 'O' ring 14 carried by the spool 13 being disengaged from the valve seat and the stem 16 sliding further into the blind bore 17. When the chamber C1 has been filled with air at a pressure of 3000 psi, the inner, smaller 'O' ring 15 acts on the outer ring to urge it back into engagement with the valve seat thereby to reclose the valve. If desired, a spring (not shown) may be

15 provided to assist closure of the valve.

The grub screw 18 is engaged with a screw thread formed in a bore in a body 19 which closes the end of the chamber C1 remote from the filling opening. This body 19 has an externally screw-threaded portion engaged with an internal screw thread 20 in the capsule body 10, a seal 21 being located

20 between the two bodies.

The body 19 defines a chamber C2 which communicates with the