



PRODUCT NOTE

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SeeDOS Ltd
cwalters@seedos.com
www.seedos.com

SUBJECT: Exradin RSVP Phantom Option Explanation (REFs 72140 and 72169)

All Exradin Thimble Ionization Chambers can be adapted to be used with the RSVP Phantom[□]. There is just one basic modification that is made to the chamber. For the A1SL, A14SL and A16: their Ø6.4 mm aluminum stem is lengthened to 305 mm long, which is already sealed to the chamber body. For all other Exradin Thimble Chambers: their 2-piece stem is replaced with a one-piece Ø12.7 mm polycarbonate, 305 mm long, stem. This stem is then sealed to the chamber base via an O-Ring. This sealing of the stem to chamber body is crucial for the functioning of the Phantom, least water will leak from the Phantom while in use.



Figure 1 – Location of O-Ring seal on Ø12.7 mm stems.

All Exradin Thimble chambers (except for SL's and A16) come with their own sealing ball to seal to the Ø12.7 mm polycarbonate stem, as well as seal to the threaded clamp ring of the Phantom. The A1SL, A14SL and A16 chambers will be able to utilize the sealing ball that is already included with the purchase of the RSVP Phantom[□].



Figure 2 – Sealing ball for use with Ø12.7 mm stem.

One simply unthreads the two white thumbscrews of the sealing ball, which relaxes the internal sealing O-Rings of the ball. The chamber then gets inserted into the ball through the white thumbscrews (chamber tip in first). Once the ball is in position on the stem, the white thumbscrews get tightened down, thereby compressing the internal O-Rings into the chamber stem, sealing the ball to the stem. Mount Chamber-Sealing Ball assembly into Phantom and secure in place with threaded clamp ring. The integral O-Ring in the threaded clamp ring will seal the Phantom to the sealing ball.



Figure 3 – Example of final assembly.

□ The Phantom Laboratory, New York, USA

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