

## TOM MUIR BAYONET CLASP WITH SWIVELS AND STAINLESS STEEL SPRING

### OUTLINE:

Day 1: Overview of bayonet clasps in Powerpoint. Participants will be introduced to a diagram and dimensions of the parts and an explanation of the spring and swivel mechanisms.

Alignment channel and guide will be cut in outer housing.

The first part of the bayonet housings will be cut and faced off. Reinforced rings may be added to outer housing.

End caps will be formed and faced off. Alternative method of dapping discussed.

Discussion of torch and heating.

The first end caps will be soldered to the housings and cleaned up.

One end cap will be center drilled.

Parts to the swivel mechanism will be made and filed to fit in preparation for soldering inside the inner bayonet housing on day 2.

Spring pad that fits inside larger housing will be soldered and flared.

Question and answers.

Day 2: Powerpoint on stage 2.

Stainless steel spring will be created, trimmed to size, and ends finished to specifications.

Continued discussion of torch and precision soldering.

Swivel parts soldered together on inner unit of bayonet clasp and cleaned up.

Second end cap will be soldered onto inner unit and cleaned up.

Finishing techniques.

Questions from participants will be answered.

Day 3: Powerpoint presentation on stage 3

Layout for alignment peg, measuring for proper placement, drilling, soldering, and

cleanup.

Tube-making and alternatives to standard methods.

Examination and discussion of variations on bayonet clasps.

Question and answer session.

#### WORKSHOP OUTCOMES:

- Understanding engineering principles related to bayonet clasps.
- Develop strong foundations in sawing, filing, and soldering.
- Precision fitting, cutting, filing, and soldering.
- Useful soldering setups and registration of parts to be joined.
- Problem-solving and creative applications of material that can be applied to other areas of the jeweler's and metalsmith's studios.
- Proper cleanup and finishing of parts.
- Learn alternative methods of dapping and tube-making.