

**GUIDE TO
QUALITY
PROCESSING**

with *Spiratone*
STAINLESS STEEL

TANKS

and

REELS

INSTRUCTIONS FOR USING *Spiratone* STAINLESS STEEL TANKS AND REELS

Spiratone Tanks and Reels are made of high quality stainless steel and are not adversely affected by processing solutions for either color or black & white. The cover incorporates a quick-fill, light proof funnel for intake and drainage of chemicals. A small funnel cap permits inversion of the tank for the recommended agitation technique.

TANK CAPACITIES

- 2" - 8 oz. - 1 35mm reel or 2 110 reels
- 3.5" - 16 oz. - 2 35mm reels or 1 120 reel (or equivalent)
- 7" - 32 oz. - 4 35mm reels or 2 120 reels (or equivalent)
- 12" - 64 oz. - 8 35mm reels or 4 120 reels (or equivalent)
- 17" - 85 oz. - 11 35mm reels or 6 120 reels (or equivalent)
- 22" - 107 oz. - 14 35mm reels or 8 120 reels (or equivalent)

LOADING THE REELS (in absolute darkness)

Spiratone S.S. reels are loaded from the center outward. To load 35mm film, cut off the leader, so that you have a squared leading end on the film (with 120 film you only have to remove the paper backing). Holding the reel in your left hand*, cup the film in your right hand and slip the end of

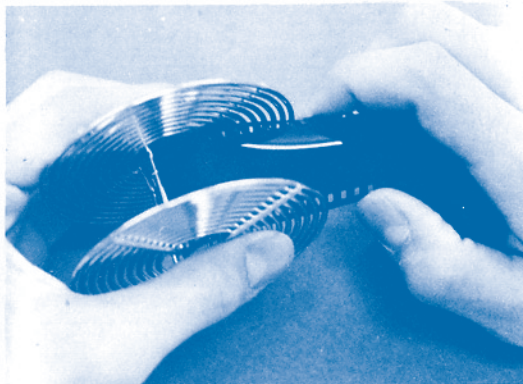
*the reel should be held with the open end of the spiral (where the wire ends), facing away from the left hand.

it under the spring on the center of the reel (emulsion side in). *See illustration below.* Rotate the reel counter clockwise while holding the film cupped in your right hand. The film should load smoothly into the continuous groove of the spiral. If there is still some film left after you have reached the end of the spiral, the film may have jumped its groove or you did not cut off a sufficient length of leader. If the film, once loaded, is buckled or bent at any spot, then two layers of the film (that is film from two adjacent grooves of the spiral) will touch and prevent that area from developing or fixing sufficiently. If at any point the film binds, or becomes stiff or hard to load, unwind a short length and load it again slowly.

Reels for other film sizes are loaded in same way with the exception of the #110 size reel which accommodates both the full 16mm film format as well as the #110 size film.

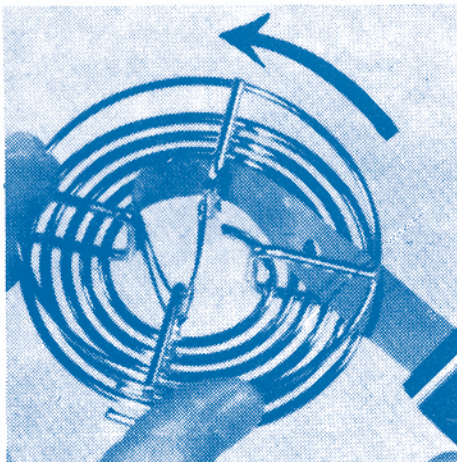
To load the #110 reel, proceed as follows:

1. Depress the center core spring clip and insert end of film under clip (emulsion on the inside).
2. Lay the reel flat on the table, with the spiral grooves downward and twist the film slightly so that it is slanted with the emulsion upward.



3. Rotate the reel (as it is resting on the table) **COUNTER CLOCKWISE** and let the film feed into the reel as it is turned, making sure it is feeding in, slanted, with the emulsion upward. See illustration at right.

Practice loading the reel with a dummy roll of film in regular room light, before trying to actually load an exposed roll for processing. After such practice, try loading without looking — once you can do that, you are ready to load in the dark with a roll for processing.



The Spiratone DUAL SIZE REEL LOADER simplifies the loading of stainless steel reels with either 35mm or 120 film. The Reel Loader, which can be permanently or temporarily attached to any flat surface, is easily adjusted to either size reel. It is supplied complete with clamp for securing it in place and with film guides for both 35mm and 120.

PROCESSING

Still in the dark, the reel (or reels) should be placed in the tank (which was previously filled with developer and brought to the proper temperature) and the tank closed by putting on the cover and the cap. All further steps can be done in ordinary room light. Tap the tank 2 or 3 times against a hard surface to dislodge any air bubbles which may be adhering to the film. Agitate for 5 seconds every 30 seconds (every minute for tanks larger than 7") by inverting the tank slowly several times. When the development cycle is completed, take off the small, watertight funnel cap, **not the large cover**, and pour out the developer. When the tank is empty, **hold it at a tilt** and pour in the stop bath or water rinse. When this cycle is completed follow the same procedure and pour in the fixer. Replace the small funnel cap. Agitate the tank with the fixer every minute (or as recommended by the chemical manufacturer). After the fixer is poured out, the large cover can be taken off and the film washed.

The larger, multiple reel tanks are provided with lift rods to facilitate removal of the reels from the tank. Simply place the reels onto the stem of the lift rod.

Multiple reel tanks must be filled to their full reel capacity. If you want to develop 2 rolls of film in a tank that holds 4, you must put in 2 empty reels in addition to the 2 loaded reels, placing the loaded reels on the bottom. Different size, but not different types film can be processed in the same tank at the same time; e.g. 1 roll of Tri-X 120 size and 2 rolls of Tri-X 35mm size can be processed simultaneously in a 7" tank. However, Tri-X Professional and regular 35mm Tri-X should not be processed together, nor should Plus-X and Tri-X.

DRYING

Use of a wetting agent for the final rinse to avoid drying spots is recommended.

Lift out the end of the film from the reel and attach a film clip. Let the film unwind itself by allowing the reel to roll slowly downward from the secured end of the film. Hang up the film to dry at average room temperature and humidity. Another (weighted) clip should be attached to the bottom of the film to minimize curling. Drying aids such as film squeegee or chamois remove excess water and speed the drying process.

Spiratone STAINLESS STEEL FILM CLIPS are available in weighted and unweighted types. They are hooked for easy handling and hold the film securely without slipping. The weighted model should be placed at the bottom of the film to minimize curling.

Tanks and reels should be thoroughly washed after each use.

Spiratone INC., NEW YORK

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Good News!

The new Spiratone Stainless Steel Tanks feature acid-proof, and easily cleanable, plastic tops and caps which provide a much better (virtually leakproof) seal, yet allow for easy removability.

We are proud to offer you this improvement at no extra cost and are confident that, if you are familiar with stainless steel tanks you will find the new system much more convenient and reliable than the previous all-steel construction.

Spiratone, Inc.

New York