



OVALIZING INSTRUCTIONS FOR VENTINOX® LINERS

The VENTINOX® ovalizer is designed to reshape VENTINOX® liners into square, rectangular or oval configurations. The ovalizer is easy to use, but there are certain procedures that will help you improve the quality and consistency of the reshaped liner. The ovalizing process is easier with two people.

Note: *ovalizing reduces the cross-sectional area of the flue. Please refer to the sizing tables in ProTech Technical Bulletin #1009 for further information.*

1. With a marker, draw a line down the length of the liner. Spiral wound liners, both interlocked and corrugated, have a tendency to cork-screw. This line serves as a guide to keep the liner from twisting on the rollers.
 2. Begin by inserting the round liner a few inches into the rollers. This will give the ovalizer a surface to grip. Adjust the rollers until you begin to feel resistance, then run the liner through to get a flat area started over the entire length. This may take two or three passes.
 3. Once a flat area has been established, take four turns on the roller adjuster handle; any more than four may cause the rollers to slip.
- Run the liner through and start the process over, working the liner back and forth until you have reduced it to the proper dimensions.
4. If the rollers do not self-feed, give the liner a push to get it started. Do not force the liner through the rollers. Adjust the roller pressure until you can get the liner to move by exerting moderate effort on the drive handle.
 5. The larger the liner diameter, the more passes it will take to get the oval shape. As the liner begins to change shape the amount of pressure that can be applied will change.
 6. All liner materials have "spring back", a tendency to want to stay round. The amount of "spring back" varies with liner design, material and size. Generally the liner will spring back about 1/4" more than the distance between rollers.
 7. To make a rectangle or square liner, first ovalize the liner so that its minor dimension is approximately that required. Then rotate the liner so that the flat sides are perpendicular to the rollers. Gradually reduce the major dimension. Repeat this process until the required minor and major dimensions are achieved.