

# Threaded Vessel Rings 78 mm (3")

## JAR-KIT-78MM

william wood-write

penblanks.ca

**Note:** There are many ways to make this vessel project depending on your preference and the tooling you have available. The instructions below outline one way it can be done.

### Preparing the Blank:

1. Select a blank of your choice and mark the centers on each end.
2. Mount the blank on the lathe between centers and rough turn it round.
3. Turn tenons on each end to be mounted in a chuck later.
4. Note where you'd like the lid to be parted from the base.
5. Start shaping the blank to the profile of your choice.

### Parting the lid from the base:

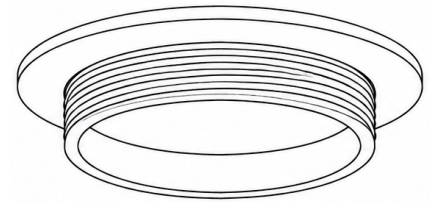
1. At the area you'd like the lid to be parted from the base, cut in a tenon that will fit the inside diameter and width of the ring you'll be using for the lid. In this example, the male ring (external threads) is used on the lid.
2. With a thin parting tool, part the lid from the base just below the tenon you created.

### Turning the lid:

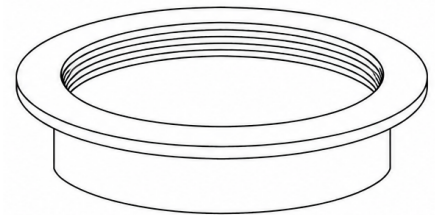
1. Mount the lid in a chuck.
2. Create a recess for the lip of the ring to sit in. This will ensure the lid and base sit flush when threaded together.
3. Hollow out and sand the inside of the lid, if desired.
4. Remove the lid from the chuck.
5. Using a two-part epoxy, glue the lid ring in place over the tenon. Be careful not to use too much. You want to avoid epoxy squeezing out the sides when you insert the ring. You can scuff up the smooth portions of the ring to create a better surface for the epoxy to adhere to.
6. Set the lid aside to cure.

### Turning the base:

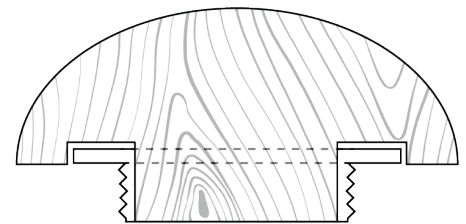
1. Mount the base in the chuck.
2. Square up the face of the blank so it is perfectly flat.
3. Turn a recess to fit the base ring (female ring with interior threads). Remove small amounts of material at a time and test fit the ring as you go.
4. Turn another small recess for the lip of the ring to sit into.
5. Once the recesses are cut, hollow out and sand the interior.
6. Remove the base from the chuck.



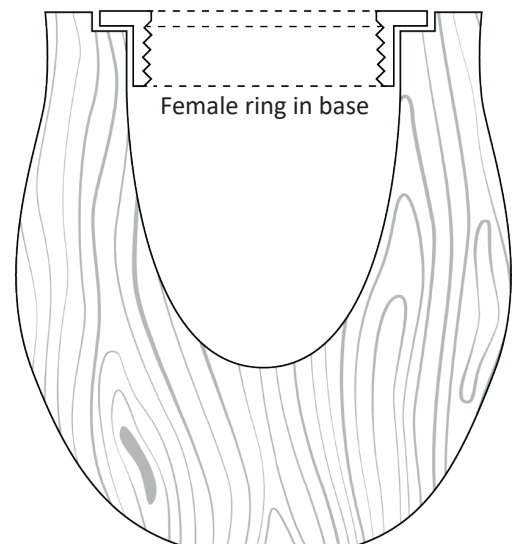
Male ring



Female ring



Male ring in lid



Female ring in base

## **Aligning the grain:**

1. Thread the female ring over the male ring on the lid.
2. Set the lid into the base, aligning the grain of each piece. Make a small pencil mark on each piece that you can use to line up the two sections when you do the base glue-up.
3. Scuff up the smooth portions of the base ring and apply two-part epoxy to the recesses in the base. Be careful not to use too much.
4. With the base ring still threaded onto the lid, push it into the recess in the base, lining up the grain with the pencil mark. Set aside to cure.

## **Finishing the vessel:**

1. With the lid and base attached, mount the vessel between centers on the lathe.
2. You can do any final shaping at this point.
3. Sand the outside of the vessel.
4. Part off the vessel at each end.
5. Sand the ends and apply a finish of your choice, if desired.