Ultrasonic Tongue and Groove Double Shear Joint

The tongue and groove double shear joint for ultrasonic welding is used to obtain a very strong weld on parts smaller than 2" (50.8mm) in diameter or length.

This type of weld joint should generally not be used where a hermetic seal is required because air that is trapped between the two parts can be pushed out through the shear on either side, possibly leaving a small leak path.