The Model 7601/7641 is a 316 stainless steel transducer and feedthrough assembly designed for low to medium pressure, indoor or outdoor applications. The assembly allows for the removal of the entire transducer for repair, replacement, or cleaning, without dewatering the pipe.

The Model 7601/7641 assembly is installed in a dewatered pipe from the inside out. Installation is performed by accurately determining the transducer locations, drilling holes in the pipe for penetration of the feedthroughs, and then measuring the as-built transducer locations.

The feedthrough assembly is sealed on the pipe wall using an O-ring inner seal and an outer seal of packing material. No welding is required.

A Model 7642 Jacking Mechanism is used for removal or insertion of the 7601 transducer under pressurized conditions.
**HARDWARE**

**DESIGN SPECIFICATIONS**

- **Operating Frequency:** 1 MHz
- **Pipe Diameter Range:** 1.5 - 24 ft. (0.5 - 7.5 meters)
- **Maximum Service Pressure:** 450 psi (31 bar)
- **Temperature Limits:**
  - Operating: 32 to 122°F (0 to 50°C)
  - Storage: 14 to 122°F (-10 to 50°C)
- **Construction Material:** 316 SS Body with PVC Window

**DIMENSIONAL DATA**

- **Feedthrough Diameter:** 1.50 in. (38 mm)
- **Maximum Pipe Wall Thickness:** 1.75 in. (45 mm)
- **Clearance Required for Transducer Removal/Replacement:** 36 in. (915 mm) radial clearance from outer pipe wall

Contact Accusonic for information on transducers recommended for specialized applications.