



APPLICATION SUMMARY

Transcatheter valve replacement is a minimally invasive valve replacement technique that enables valve replacement without the need for open heart surgery. TAVR and TVMR valves are inserted via catheter, inflated and locked into place with a balloon. The bovine pericardial tissue and the bio-compatible metal support structure need to withstand the fatigue of opening and closing in rhythm with a beating heart. To test the fatigue resistance of the valve, a load cell is coupled between a linear actuator and a syringe piston that is pumped up and down to simulate the forces inside a beating heart.

PRODUCTS IN USE

1 LSB S-Beam Tension and Compression Load Cell paired with a USB220 Data Logging System or IAA Series Signal Conditioning Amplifier.

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

