

# Durability Testing of Membranes of Cardiac Valves in Electrodynamic Testing System

**For the simultaneous testing of 6 membranes for cardiac valves at the time in 1 machine. Testing device with 6 load cells for independent test data acquisition of each sample.**

## Tests and Samples

- **Durability Testing**
  - Testing Frequency 30 Hz
  - Testing Force 200 N
  - Load Cycles 600<sup>6</sup>
  - Testing Duration approx. 250 days
- **Membranes of Cardiac Valves (Septal Occluder)**

## Frame

- Electrodynamic testing system Type LFV-E 200 N
- Servoelectric drive mounted on upper crosshead
- Table-top load frame in rigid 2-column-construction
- Mechanical clamped upper crosshead with 2 handles and electrical height adjustment for easy and quick positioning and test set-up

## Testing Device

- Loading device with integrated 6 load cells
- Testing fixture for 6 membranes of cardiac valves
- Saline bath with temperature controller for simulation of 37°

## Control and Data Acquisition

- Closed loop displacement controlled test procedure in connection with digital measuring and control system Type **PCS 8000** and materials testing Software **DION7** with application package **DION7 EASY**
- Data acquisition and data storage of all test data of the 6 samples with min. / max. force and displacement / load cycles



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