

Valvengine

Bioprosthetic Valve Cycling System

A precision-engineered bioprosthetic heart valve simulation system that delivers high performance at an accessible price point purpose-built for R&D and engineering professionals, yet compact and versatile enough for field demonstrations by sales & marketing teams.

System Features

- Pulse Range: 0-200 BPM (Cycle or Pulse = Push/Pull)
- Adjustable SYS/DIA Pulse Duration (150-750 ms)
- Adjustable Flow Power (0-100% or 0-6L/min)
- Maximum Output Pressure: ~450 mmHg
- Intuitive Touchscreen Controls (HMI)
- 4 Valved Ports (CPC - PLCD 16006)
- Low Power Rating (20VDC 180W)

System Specifications

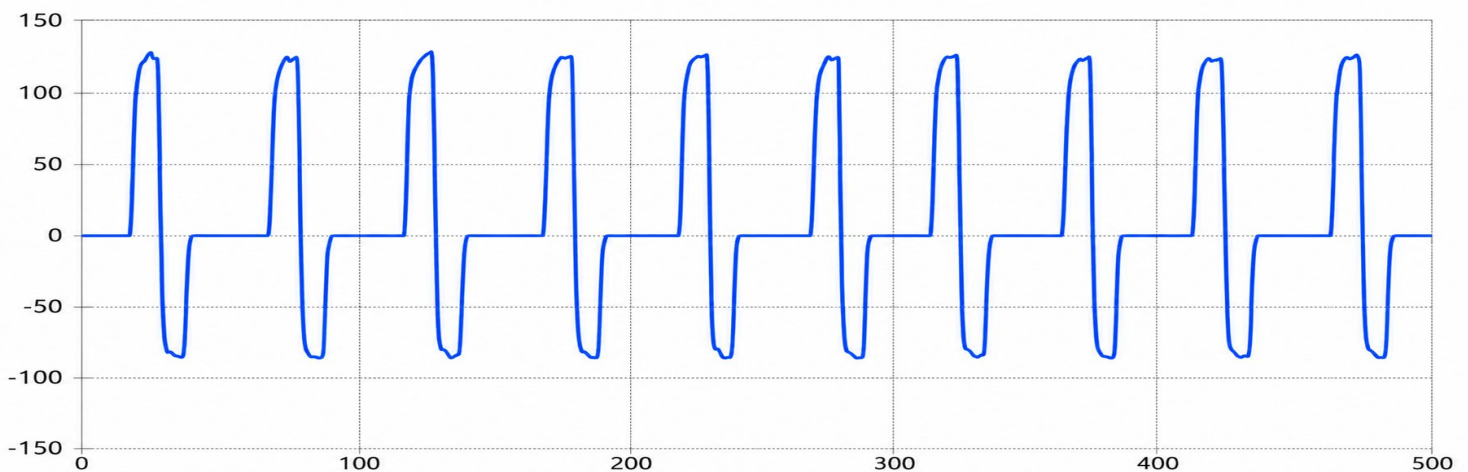
- Dimensions: (320*130*120)mm
- Enclosure Material: Aluminum
- System Total Weight: 9lb

Waveform Characterization Test

Test consisted of the Valvengine connected to a 15L water tank using four 36in-long 3/8in ID rigid PVC hoses. System cycling at 60 BPM.

>>**Systole** (FP:70% PD:400ms) >>**Diastole** (FP:50% PD:300ms)

Waveform observed and captured by the DPM (Digital Pressure Monitor)



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