§ 870.1660 Indicator injector.
(a) **Identification.** An indicator injector is an electrically or gas-powered device designed to inject accurately an indicator solution into the bloodstream. This device may be used in conjunction with a densitometer or thermodilution device to determine cardiac output.
(b) **Classification.** Class II (performance standards).

§ 870.1670 Syringe actuator for an injector.
(a) **Identification.** A syringe actuator for an injector is an electrical device that controls the timing of an injection by an angiographic or indicator injector and synchronizes the injection with the electrocardiograph signal.
(b) **Classification.** Class II (performance standards).

§ 870.1750 External programmable pacemaker pulse generator.
(a) **Identification.** An external programmable pacemaker pulse generator is a device that can be programmed to produce one or more pulses at preselected intervals; this device is used in electrophysiological studies.
(b) **Classification.** Class II (performance standards).

§ 870.1800 Withdrawal-infusion pump.
(a) **Identification.** A withdrawal-infusion pump is a device designed to inject accurately drugs into the bloodstream and to withdraw blood samples for use in determining cardiac output.
(b) **Classification.** Class II (performance standards).

§ 870.1875 Stethoscope.
(a) **Manual stethoscope**—(1) **Identification.** A manual stethoscope is a mechanical device used to project the sounds associated with the heart, arteries, and veins and other internal organs.
(2) **Classification.** Class II (performance standards).
(b) **Electronic stethoscope**—(1) **Identification.** An electronic stethoscope is an electrically amplified device used to project the sounds associated with the heart, arteries, and veins and other internal organs.

§ 870.1915 Thermodilution probe.
(a) **Identification.** A thermodilution probe is a device that monitors cardiac output by use of thermodilution techniques; this device is commonly attached to a catheter that may have one or more probes.
(b) **Classification.** Class II (performance standards).

Subpart C—Cardiovascular Monitoring Devices

§ 870.2050 Biopotential amplifier and signal conditioner.
(a) **Identification.** A biopotential amplifier and signal conditioner is a device used to amplify or condition an electrical signal of biologic origin.
(b) **Classification.** Class II (performance standards).

§ 870.2060 Transducer signal amplifier and conditioner.
(a) **Identification.** A transducer signal amplifier and conditioner is a device used to provide the excitation energy for the transducer and to amplify or condition the signal emitted by the transducer.
(b) **Classification.** Class II (performance standards).

§ 870.2100 Cardiovascular blood flowmeter.
(a) **Identification.** A cardiovascular blood flowmeter is a device that is connected to a flow transducer that energizes the transducer and processes and displays the blood flow signal.
(b) **Classification.** Class II (performance standards).

§ 870.2120 Extravascular blood flow probe.
(a) **Identification.** An extravascular blood flow probe is an extravascular ultrasonic or electromagnetic probe used in conjunction with a blood flowmeter.
§ 870.2300 Cardiac monitor (including cardiotachometer and rate alarm).

(a) Identification. A cardiac monitor (including cardiotachometer and rate alarm) is a device used to measure the heart rate from an analog signal produced by an electrocardiograph, vectorcardiograph, or blood pressure monitor. This device may sound an alarm when the heart rate falls outside preset upper and lower limits.

(b) Classification. Class II (performance standards).

§ 870.2350 Electrocardiograph lead switching adaptor.

(a) Identification. An electrocardiograph lead switching adaptor is a passive switching device to which electrocardiograph limb and chest leads may be attached. This device is used to connect various combinations of limb and chest leads to the output terminals in order to create standard lead combinations such as leads I, II, and III.

(b) Classification. Class II (performance standards).

§ 870.2360 Electrocardiograph electrode.

(a) Identification. An electrocardiograph electrode is the electrical conductor which is applied to the surface of the body to transmit the electrical signal at the body surface to a processor that produces an electrocardiogram or vectorcardiogram.

(b) Classification. Class II (performance standards).

§ 870.2370 Electrocardiograph surface electrode tester.

(a) Identification. An electrocardiograph surface electrode tester is a device used to test the function and application of electrocardiograph electrodes.

(b) Classification. Class II (performance standards).

§ 870.2390 Phonocardiograph.

(a) Identification. A phonocardiograph is a device used to amplify or condition the signal from a heart sound transducer. This device furnishes the excitation energy for the transducer and provides a visual or audible display of the heart sounds.

(b) Classification. Class I (general controls). The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter subject to the limitations in §870.9.