may aid in the diagnosis of certain thyroid disorders, such as Hashimoto's disease (chronic lymphocytic thyroiditis), nontoxic goiter (enlargement of thyroid gland), Grave's disease (enlargement of the thyroid gland with protrusion of the eyeballs), and cancer of the thyroid.

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

§ 866.5880 Transferrin immunological test system.

(a) Identification. A transferrin immunological test system is a device that consists of the reagents used to measure, by immunochemical techniques, the transferrin (an iron-binding and transporting serum protein) in serum, plasma, and other body fluids. Measurement of transferrin levels aids in the diagnosis of malnutrition, acute inflammation, infection, and red blood cell disorders, such as iron deficiency anemia.

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

§ 866.5890 Inter-alpha trypsin inhibitor immunological test system.

(a) Identification. An inter-alpha trypsin inhibitor immunological test system is a device that consists of the reagents used to measure, by immunochemical techniques, the inter-alpha trypsin inhibitor (a protein) in serum and other body fluids. Measurement of inter-alpha trypsin inhibitor may aid in the diagnosis of acute bacterial infection and inflammation.

(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 § 866.9.


Subpart G—Tumor Associated Antigen immunological Test Systems

§ 866.6010 Tumor-associated antigen immunological test system.

(a) Identification. A tumor-associated antigen immunological test system is a device that consists of reagents used to qualitatively or quantitatively measure, by immunochemical techniques, tumor-associated antigens in serum, plasma, urine, or other body fluids. This device is intended as an aid in monitoring patients for disease progress or response to therapy or for the detection of recurrent or residual disease.

(b) Classification. Class II (special controls). Tumor markers must comply with the following special controls: (1) A guidance document entitled “Guidance Document for the Submission of Tumor Associated Antigen Premarket Notifications (510(k)s) to FDA,” and (2) voluntary assay performance standards issued by the National Committee on Clinical Laboratory Standards.

868.1850 Monitoring spirometer.
868.1860 Peak-flow meter for spirometry.
868.1870 Pulmonary-function data calculator.
868.1880 Gas volume calibrator.
868.1890 Predictive pulmonary-function value calculator.
868.1900 Monitoring spirometer.
868.1910 Esophageal stethoscope.
868.1920 Esophageal stethoscope with electrical conductors.
868.1930 Stethoscope head.
868.1965 Switching valve (ploss).
868.1975 Water vapor analyzer.

Subpart C—Monitoring Devices
868.2025 Ultrasonic air embolism monitor.
868.2300 Bourdon gauge flowmeter.
868.2320 Uncompensated thorpe tube flowmeter.
868.2340 Compensated thorpe tube flowmeter.
868.2350 Gas calibration flowmeter.
868.2375 Breathing frequency monitor.
868.2380 Nitric oxide analyzer.
868.2385 Nitrogen dioxide analyzer.
868.2450 Lung water monitor.
868.2480 Cutaneous carbon dioxide ($P_{\text{CO}_2}$) monitor.
868.2500 Cutaneous oxygen monitor.
868.2550 Pneumotachometer.
868.2600 Airway pressure monitor.
868.2610 Gas pressure gauge.
868.2620 Gas pressure calibrator.
868.2700 Pressure regulator.
868.2775 Electrical peripheral nerve stimulator.
868.2875 Differential pressure transducer.
868.2885 Gas flow transducer.
868.2900 Gas pressure transducer.

Subparts D–E [Reserved]

Subpart F—Therapeutic Devices
868.5000 Emergency airway needle.
868.5100 Nasopharyngeal airway.
868.5110 Oropharyngeal airway.
868.5120 Anesthesia induction catheter.
868.5130 Anesthesia induction filter.
868.5140 Anesthesia induction kit.
868.5150 Anesthesia induction needle.
868.5160 Gas machine for anesthesia or analgesia.
868.5165 Nitric oxide administration apparatus.
868.5170 Laryngotracheal topical anesthesia applicator.
868.5180 Rocking bed.
868.5220 Blow bottle.
868.5240 Anesthesia breathing circuit.
868.5250 Breathing circuit circulator.
868.5260 Breathing circuit bacterial filter.
868.5270 Breathing system heater.
868.5280 Breathing tube support.
868.5300 Carbon dioxide absorvent.
868.5310 Carbon dioxide absorber.
868.5320 Reservoir bag.
868.5330 Breathing gas mixer.
868.5340 Nasal oxygen cannula.
868.5350 Nasal oxygen catheter.
868.5365 Posture chair for cardiac or pulmonary treatment.
868.5375 Heat and moisture condenser (artificial nose).
868.5400 Electroanesthesia apparatus.
868.5420 Ether hook.
868.5430 Gas-scavenging apparatus.
868.5440 Portable oxygen generator.
868.5450 Respiratory gas humidifier.
868.5460 Therapeutic humidifier for home use.
868.5470 Hyperbaric chamber.
868.5530 Flexible laryngoscope.
868.5540 Rigid laryngoscope.
868.5550 Anesthetic gas mask.
868.5560 Gas mask head strap.
868.5570 Nonbreathing mask.
868.5580 Oxygen mask.
868.5590 Scavenging mask.
868.5600 Venturi mask.
868.5610 Membrane lung for long-term pulmonary support.
868.5620 Breathing mouthpiece.
868.5630 Nebulizer.
868.5640 Medicinal nonventilatory nebulizer (atomizer).
868.5650 Esophageal obturator.
868.5655 Portable liquid oxygen unit.
868.5665 Powered percussor.
868.5675 Rebreathing device.
868.5690 Incentive spirometer.
868.5700 Nonpowered oxygen tent.
868.5710 Electrically powered oxygen tent.
868.5720 Bronchial tube.
868.5730 Tracheal tube.
868.5740 Tracheal-bronchial differential ventilation tube.
868.5750 Inflatable tracheal tube cuff.
868.5760 Cuff spreader.
868.5770 Tracheal tube fixation device.
868.5780 Tube introduction forceps.
868.5790 Tracheal tube stylet.
868.5795 Tracheal tube cleaning brush.
868.5800 Tracheostomy tube and tube cuff.
868.5810 Airway connector.
868.5820 Dental protector.
868.5830 Autotransfusion apparatus.
868.5860 Pressure tubing and accessories.
868.5870 Nonbreathing valve.
868.5880 Anesthetic vaporizer.
868.5895 Continuous ventilator.
868.5905 Noncontinuous ventilator (IPPB).
868.5915 Manual emergency ventilator.
868.5925 Powered emergency ventilator.
868.5935 External negative pressure ventilator.
868.5955 Intermittent mandatory ventilation attachment.
868.5965 Positive end expiratory pressure breathing attachment.
868.5975 Ventilator tubing.
Subpart G—Miscellaneous

868.6100 Anesthetic cabinet, table, or tray.
868.6175 Cardiopulmonary emergency cart.
868.6225 Nose clip.
868.6250 Portable air compressor.
868.6400 Calibration gas.
868.6700 Anesthesia stool.
868.6810 Tracheobronchial suction catheter.
868.6820 Patient position support.
868.6885 Medical gas yoke assembly.


Source: 47 FR 31142, July 16, 1982, unless otherwise noted.

Subpart A—General Provisions

§ 868.1 Scope.

(a) This part sets forth the classification of anesthesiology devices intended for human use that are in commercial distribution.

(b) The identification of a device in a regulation in this part is not a precise description of every device that is, or will be, subject to the regulation. A manufacturer who submits a premarket notification submission for a device under part 807 may not show merely that the device is accurately described by the section title and identification provisions of a regulation in this part, but shall state why the device is substantially equivalent to other devices, as required by §807.87.

(c) To avoid duplicative listings, an anesthesiology device that has two or more types of uses (e.g., used both as a diagnostic device and as a therapeutic device) is listed only in one subpart.

(d) References in this part to regulatory sections of the Code of Federal Regulations are to chapter I of title 21, unless otherwise noted.

[52 FR 17734, May 11, 1987]

§ 868.3 Effective dates of requirement for premarket approval.

A device included in this part that is classified into class III (premarket approval) shall not be commercially distributed after the date shown in the regulation classifying the device unless the manufacturer has an approval under section 515 of the act (unless an exemption has been granted under section 520(g)(2) of the act). An approval under section 515 of the act consists of FDA’s issuance of an order approving an application for premarket approval (PMA) for the device or declaring completed a product development protocol (PDP) for the device.

(a) Before FDA requires that a device commercially distributed before the enactment date of the amendments, or a device that has been found substantially equivalent to such a device, has an approval under section 515 of the act FDA must promulgate a regulation under section 515(b) of the act requiring such approval, except as provided in paragraph (b) of this section. Such a regulation under section 515(b) of the act shall not be effective during the grace period ending on the 90th day after its promulgation or on the last day of the 30th full calendar month after the regulation that classifies the device into class III is effective, whichever is later. See section 501(f)(2)(B) of the act. Accordingly, unless an effective date of the requirement for premarket approval is shown in the regulation for a device classified into class III in this part, the device may be commercially distributed without FDA’s issuance of an order approving a PMA or declaring completed a PDP for the device. If FDA promulgates a regulation under section 515(b) of the act requiring premarket approval for a device, section 501(f)(2)(A) of the act applies to the device.

(b) Any new, not substantially equivalent, device introduced into commercial distribution on or after May 28, 1976, including a device formerly marketed that has been substantially altered, is classified by statute (section 513(f) of the act) into class III without any grace period and FDA must have issued an order approving a PMA or declaring completed a PDP for the device before the device is commercially distributed unless it is reclassified. If FDA knows that a device being commercially distributed may be a “new” device as defined in this section because of any new intended use or other reasons, FDA may codify the statutory classification of the device into class III for such new use. Accordingly, the regulation for such a class III device states that as of the enactment date of
§ 868.1030 Manual algesimeter.

(a) Identification. A manual algesimeter is a mechanical device intended to determine a patient’s sensitivity to pain after administration of an anesthetic agent, e.g., by pricking with a sharp point.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. The device is also exempt from the current good manufacturing practice regulations in part 820 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.198, with respect to complaint files.

[54 FR 25048, June 12, 1989]
§ 868.1040 Powered algesimeter.

(a) Identification. A powered algesimeter is a device using electrical stimulation intended to determine a patient's sensitivity to pain after administration of an anesthetic agent.

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

§ 868.1075 Argon gas analyzer.

(a) Identification. An argon gas analyzer is a device intended to measure the concentration of argon in a gas mixture to aid in determining the patient's ventilatory status. The device may use techniques such as mass spectrometry or thermal conductivity.

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

§ 868.1100 Arterial blood sampling kit.

(a) Identification. An arterial blood sampling kit is a device, in kit form, used to obtain arterial blood samples from a patient for blood gas determinations. The kit may include a syringe, needle, cork, and heparin.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.1120 Indwelling blood oxyhemoglobin concentration analyzer.

(a) Identification. An indwelling blood oxyhemoglobin concentration analyzer is a photoelectric device used to measure, in vivo, the oxygen-carrying capacity of hemoglobin in blood to aid in determining the patient's physiological status.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See §868.3.


§ 868.1150 Indwelling blood carbon dioxide partial pressure (P_{CO2}) analyzer.

(a) Identification. An indwelling blood carbon dioxide partial pressure P_{CO2} analyzer is a device that consists of a catheter-tip P_{CO2} transducer (e.g., P_{CO2} electrode) and that is used to measure, in vivo, the partial pressure of carbon dioxide in blood to aid in determining the patient's circulatory, ventilatory, and metabolic status.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See §868.3.


§ 868.1170 Indwelling blood hydrogen ion concentration (pH) analyzer.

(a) Identification. An indwelling blood hydrogen ion concentration (pH) analyzer is a device that consists of a catheter-tip pH electrode and that is used to measure, in vivo, the hydrogen ion concentration (pH) in blood to aid in determining the patient's acid-base balance.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See §868.3.


§ 868.1200 Indwelling blood oxygen partial pressure (P_{O2}) analyzer.

(a) Identification. An indwelling blood oxygen partial pressure (P_{O2}) analyzer is a device that consists of a catheter-tip P_{O2} transducer (e.g., P_{O2} electrode) and that is used to measure, in vivo, the partial pressure of oxygen in blood to aid in determining the patient's circulatory, ventilatory, and metabolic status.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has
§ 868.1400 Carbon dioxide gas analyzer.
(a) Identification. A carbon dioxide gas analyzer is a device intended to measure the concentration of carbon dioxide in a gas mixture to aid in determining the patient's ventilatory, circulatory, and metabolic status. The device may use techniques such as chemical titration, absorption of infrared radiation, gas chromatography, or mass spectrometry.
(b) Classification. Class II (performance standards).

§ 868.1430 Carbon monoxide gas analyzer.
(a) Identification. A carbon monoxide gas analyzer is a device intended to measure the concentration of carbon monoxide in a gas mixture to aid in determining the patient's status. The device may use techniques such as infrared absorption or gas chromatography.
(b) Classification. Class II (performance standards).

§ 868.1500 Enflurane gas analyzer.
(a) Identification. An enflurane gas analyzer is a device intended to measure the concentration of enflurane anesthetic in a gas mixture.
(b) Classification. Class II (performance standards).

§ 868.1575 Gas collection vessel.
(a) Identification. A gas collection vessel is a container-like device intended to collect a patient's exhaled gases for subsequent analysis. It does not include a sampling pump.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.1620 Halothane gas analyzer.
(a) Identification. A halothane gas analyzer is a device intended to measure the concentration of halothane anesthetic in a gas mixture. The device may use techniques such as mass spectrometry or absorption of infrared or ultraviolet radiation.
(b) Classification. Class II (performance standards).

§ 868.1640 Helium gas analyzer.
(a) Identification. A helium gas analyzer is a device intended to measure the concentration of helium in a gas mixture during pulmonary function testing. The device may use techniques such as thermal conductivity, gas chromatography, or mass spectrometry.
(b) Classification. Class II (performance standards).

§ 868.1670 Neon gas analyzer.
(a) Identification. A neon gas analyzer is a device intended to measure the concentration of neon in a gas mixture exhaled by a patient. The device may use techniques such as mass spectrometry or thermal conductivity.
(b) Classification. Class II (performance standards).

§ 868.1690 Nitrogen gas analyzer.
(a) Identification. A nitrogen gas analyzer is a device intended to measure the concentration of nitrogen in respiratory gases to aid in determining a patient's ventilatory status. The device may use techniques such as gas chromatography or mass spectrometry.
(b) Classification. Class II (performance standards).

§ 868.1700 Nitrous oxide gas analyzer.
(a) Identification. A nitrous oxide gas analyzer is a device intended to measure the concentration of nitrous oxide anesthetic in a gas mixture. The device may use techniques such as infrared absorption or mass spectrometry.
(b) Classification. Class II (performance standards).

§ 868.1720 Oxygen gas analyzer.
(a) Identification. An oxygen gas analyzer is a device intended to measure the concentration of oxygen in respiratory gases by techniques such as mass spectrometry, polarography, thermal conductivity, or gas chromatography. This generic type of device also includes paramagnetic analyzers.
§ 868.1730 Oxygen uptake computer.
(a) Identification. An oxygen uptake computer is a device intended to compute the amount of oxygen consumed by a patient and may include components for determining expired gas volume and composition.
(b) Classification. Class II (performance standards).

§ 868.1750 Pressure plethysmograph.
(a) Identification. A pressure plethysmograph is a device used to determine a patient’s airway resistance and lung volumes by measuring pressure changes while the patient is in an airtight box.
(b) Classification. Class II (performance standards).

§ 868.1760 Volume plethysmograph.
(a) Identification. A volume plethysmograph is an airtight box, in which a patient sits, that is used to determine the patient’s lung volume changes.
(b) Classification. Class II (performance standards).

§ 868.1780 Inspiratory airway pressure meter.
(a) Identification. An inspiratory airway pressure meter is a device used to measure the amount of pressure produced in a patient’s airway during maximal inspiration.
(b) Classification. Class II (performance standards).

§ 868.1800 Rhinoanemometer.
(a) Identification. A rhinoanemometer is a device used to quantify the amount of nasal congestion by measuring the airflow through, and differential pressure across, a patient’s nasal passages.
(b) Classification. Class II (performance standards).

§ 868.1840 Diagnostic spirometer.
(a) Identification. A diagnostic spirometer is a device used in pulmonary function testing to measure the volume of gas moving in or out of a patient’s lungs.
(b) Classification. Class II (performance standards).

§ 868.1850 Monitoring spirometer.
(a) Identification. A monitoring spirometer is a device used to measure continuously a patient’s tidal volume (volume of gas inhaled by the patient during each respiration cycle) or minute volume (the tidal volume multiplied by the rate of respiration for 1 minute) for the evaluation of the patient’s ventilatory status.
(b) Classification. Class II (performance standards).

§ 868.1860 Peak-flow meter for spirometry.
(a) Identification. A peak-flow meter for spirometry is a device used to measure a patient’s maximum ventilatory flow rate.
(b) Classification. Class II (performance standards).

§ 868.1870 Gas volume calibrator.
(a) Identification. A gas volume calibrator is a device that is intended for medical purposes and that is used to calibrate the output of gas volume measurement instruments by delivering a known gas volume.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.1880 Pulmonary-function data calculator.
(a) Identification. A pulmonary-function data calculator is a device used to calculate pulmonary-function values based on actual physical data obtained during pulmonary-function testing.
(b) Classification. Class II (performance standards).

§ 868.1890 Predictive pulmonary-function value calculator.
(a) Identification. A predictive pulmonary-function value calculator is a device used to calculate normal pulmonary-function values based on empirical equations.
(b) Classification. Class II (performance standards).
§ 868.1900 Diagnostic pulmonary-function interpretation calculator.

(a) Identification. A diagnostic pulmonary-function interpretation calculator is a device that interprets pulmonary study data to determine clinical significance of pulmonary-function values.

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

§ 868.1910 Esophageal stethoscope.

(a) Identification. An esophageal stethoscope is a nonpowered device that is inserted into a patient’s esophagus to enable the user to listen to heart and breath 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 §868.9.


§ 868.1920 Esophageal stethoscope with electrical conductors.

(a) Identification. An esophageal stethoscope with electrical conductors is a device that is inserted into the esophagus to listen to a patient’s heart and breath sounds and to monitor electrophysiological signals. The device may also incorporate a thermistor for temperature measurement.

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

§ 868.1930 Stethoscope head.

(a) Identification. A stethoscope head is a weighted chest piece used during anesthesia to listen to a patient’s heart, breath, and other physiological sounds.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.1965 Switching valve (ploss).

(a) Identification. A switching valve (ploss) is a three-way valve located between a stethoscope placed over the heart, a blood pressure cuff, and an earpiece. The valve allows the user to eliminate one sound channel and listen only to a patient’s heart or Korotkoff (blood pressure) sounds through the other channel.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. The device is also exempt from the current good manufacturing practice regulations in part 820 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.190, with respect to complaint files.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.1975 Water vapor analyzer.

(a) Identification. A water vapor analyzer is a device intended to measure the concentration of water vapor in a patient’s expired gases by using techniques such as mass spectrometry.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


Subpart C—Monitoring Devices

§ 868.2025 Ultrasonic air embolism monitor.

(a) Identification. An ultrasonic air embolism monitor is a device used to detect air bubbles in a patient’s blood stream. It may use Doppler or other ultrasonic principles.

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

§ 868.2300 Bourdon gauge flowmeter.

(a) Identification. A bourdon gauge flowmeter is a device intended for medical purposes that is used in conjunction with respiratory equipment to sense gas pressure. The device is calibrated to indicate gas flow rate when the outflow is open to the atmosphere.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.2320 Uncompensated thorpe tube flowmeter.

(a) Identification. An uncompensated thorpe tube flowmeter is a device intended for medical purposes that is used to indicate and control gas flow rate accurately. The device includes a vertically mounted tube and is calibrated when the outlet of the flowmeter is open to the atmosphere.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2340 Compensated thorpe tube flowmeter.

(a) Identification. A compensated thorpe tube flowmeter is a device intended for medical purposes that is used to control and measure gas flow rate accurately. The device includes a vertically mounted tube, with the outlet of the flowmeter calibrated to a reference pressure.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2350 Gas calibration flowmeter.

(a) Identification. A gas calibration flowmeter is a device intended for medical purposes that is used to calibrate flowmeters and accurately measure gas flow.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2375 Breathing frequency monitor.

(a) Identification. A breathing (ventilatory) frequency monitor is a device intended to measure or monitor a patient’s respiratory rate. The device may provide an audible or visible alarm when the respiratory rate is outside predetermined limits.

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


§ 868.2380 Nitric oxide analyzer.

(a) Identification. The nitric oxide analyzer is a device intended to measure the concentration of nitric oxide in respiratory gas mixtures during administration of nitric oxide.

(b) Classification. Class II. The special control for this device is FDA’s “Guidance Document for Premarket Notification Submissions for Nitric Oxide Administration Apparatus, Nitric Oxide Analyzer, and Nitrogen Dioxide Analyzer.”


§ 868.2385 Nitrogen dioxide analyzer.

(a) Identification. The nitrogen dioxide analyzer is a device intended to measure the concentration of nitrogen dioxide in respiratory gas mixtures during administration of nitric oxide.

(b) Classification. Class II. The special control for this device is FDA’s “Guidance Document for Premarket Notification Submissions for Nitric Oxide Administration Apparatus, Nitric Oxide Analyzer, and Nitrogen Dioxide Analyzer.”


§ 868.2450 Lung water monitor.

(a) Identification. A lung water monitor is a device used to monitor the trend of fluid volume changes in a patient’s lung by measuring changes in thoracic electrical impedance (resistance to alternating current) by means of electrodes placed on the patient’s chest.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See § 868.3.

§ 868.2480 Cutaneous carbon dioxide (Pc\(\text{CO}_2\)) monitor.

(a) Identification. A cutaneous carbon dioxide (Pc\(\text{CO}_2\)) monitor is a noninvasive heated sensor and a pH-sensitive glass electrode placed on a patient’s skin, which is intended to monitor relative changes in a hemodynamically stable patient’s cutaneous carbon dioxide tension as an adjunct to arterial carbon dioxide tension measurement.

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

[54 FR 27160, June 28, 1989]

§ 868.2500 Cutaneous oxygen monitor.

(a) Cutaneous oxygen monitor for an infant patient who is not under gas anesthesia—

(1) Identification. A cutaneous oxygen monitor for an infant patient who is not under gas anesthesia is a device that uses a noninvasive sensor (e.g., a Clark-type polarographic electrode) placed on the patient’s skin and that is intended to monitor relative changes in the cutaneous oxygen tension in an infant patient who is not under gas anesthesia.

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

(b) Cutaneous oxygen monitor for all other uses—

(1) Identification. A cutaneous oxygen monitor for all other uses is a device that uses a noninvasive sensor (e.g., a Clark-type polarographic electrode) placed on the patient’s skin and that is intended to monitor relative changes in the cutaneous oxygen tension in a noninfant patient or in any patient, including an infant, who is under gas anesthesia.

(2) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval for the device described in paragraph (b)(1). See §868.3.


§ 868.2550 Pneumotachometer.

(a) Identification. A pneumotachometer is a device intended for medical purposes that is used to determine gas flow by measuring the pressure differential across a known resistance. The device may use a set of capillaries or a metal screen for the resistive element.

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

§ 868.2600 Airway pressure monitor.

(a) Identification. An airway pressure monitor is a device used to measure the pressure in a patient’s upper airway. The device may include a pressure gauge and an alarm.

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

§ 868.2610 Gas pressure gauge.

(a) Identification. A gas pressure gauge (e.g., bourdon tube pressure gauge) is a device intended for medical purposes that is used to measure gas pressure in a medical gas delivery system.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2620 Gas pressure calibrator.

(a) Identification. A gas pressure calibrator is a device intended for medical purposes that is used to calibrate pressure-measuring instruments by generating a known gas pressure.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2700 Pressure regulator.

(a) Identification. A pressure regulator is a device, often called a pressure-reducing valve, that is intended for medical purposes and that is used to convert a medical gas pressure from a high variable pressure to a lower, more constant working pressure. This device includes mechanical oxygen regulators.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.2775 Electrical peripheral nerve stimulator.

(a) Identification. An electrical peripheral nerve stimulator (neuromuscular blockade monitor) is a device used to apply an electrical current to a patient to test the level of pharmacological effect of anesthetic drugs and gases.

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

§ 868.2875 Differential pressure transducer.

(a) Identification. A differential pressure transducer is a two-chambered device intended for medical purposes that is often used during pulmonary function testing. It generates an electrical signal for subsequent display or processing that is proportional to the difference in gas pressures in the two chambers.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2885 Gas flow transducer.

(a) Identification. A gas flow transducer is a device intended for medical purposes that is used to convert gas flow rate into an electrical signal for subsequent display or processing.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.2900 Gas pressure transducer.

(a) Identification. A gas pressure transducer is a device intended for medical purposes that is used to convert gas pressure into an electrical signal for subsequent display or processing.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


Subparts D–E [Reserved]

Subpart F—Therapeutic Devices

§ 868.5090 Emergency airway needle.

(a) Identification. An emergency airway needle is a device intended to puncture a patient’s cricothyroid membrane to provide an emergency airway during upper airway obstruction.

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

§ 868.5100 Nasopharyngeal airway.

(a) Identification. A nasopharyngeal airway is a device used to aid breathing by means of a tube inserted into a patient’s pharynx through the nose to provide a patent airway.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5110 Oropharyngeal airway.

(a) Identification. An oropharyngeal airway is a device inserted into a patient’s pharynx through the mouth to provide a patent airway.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5120 Anesthesia conduction catheter.

(a) Identification. An anesthesia conduction catheter is a flexible tubular device used to inject local anesthetics into a patient and to provide continuous regional anesthesia.

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

§ 868.5130 Anesthesia conduction filter.

(a) Identification. An anesthesia conduction filter is a microporous filter used while administering to a patient injections of local anesthetics to minimize particulate (foreign material) contamination of the injected fluid.

(b) Classification. Class II (performance standards).
§ 868.5140 Anesthesia conduction kit.
(a) Identification. An anesthesia conduction kit is a device used to administer to a patient conduction, regional, or local anesthesia. The device may contain syringes, needles, and drugs.
(b) Classification. Class II (performance standards).

§ 868.5150 Anesthesia conduction needle.
(a) Identification. An anesthesia conduction needle is a device used to inject local anesthetics into a patient to provide regional anesthesia.
(b) Classification. Class II (performance standards).

§ 868.5160 Gas machine for anesthesia or analgesia.
(a) Gas machine for anesthesia—(1) Identification. A gas machine for anesthesia is a device used to administer to a patient, continuously or intermittently, a general inhalation anesthetic and to maintain a patient's ventilation. The device may include a gas flowmeter, vaporizer, ventilator, breathing circuit with bag, and emergency air supply.
(2) Classification. Class II (performance standards).
(b) Gas machine for analgesia—(1) Identification. A gas machine for analgesia is a device used to administer to a patient an analgesic agent, such as a nitrous oxide-oxygen mixture (maximum concentration of 70 percent nitrous oxide).
(2) Classification. Class II (performance standards).

§ 868.5165 Nitric oxide administration apparatus.
(a) Identification. The nitric oxide administration apparatus is a device used to add nitric oxide to gases that are to be breathed by a patient. The nitric oxide administration apparatus is to be used in conjunction with a ventilator or other breathing gas administration system.
(b) Classification. Class II. The special control for this device is FDA's "Guidance Document for Premarket Notification Submissions for Nitric Oxide Analyzer, and Nitrogen Dioxide Analyzer."
[65 FR 11465, Mar. 3, 2000]

EFFECTIVE DATE NOTE: At 65 FR 11465, Mar. 3, 2000, § 868.5165 was added to subpart F, effective Mar. 3, 2000.

§ 868.5170 Laryngotracheal topical anesthesia applicator.
(a) Identification. A laryngotracheal topical anesthesia applicator is a device used to apply topical anesthetics to a patient's laryngotracheal area.
(b) Classification. Class II (performance standards).

§ 868.5180 Rocking bed.
(a) Identification. A rocking bed is a device intended for temporary use to help patient ventilation (breathing) by repeatedly tilting the patient, thereby using the weight of the abdominal contents to move the diaphragm.
(b) Classification. Class II (performance standards).

§ 868.5220 Blow bottle.
(a) Identification. A blow bottle is a device that is intended for medical purposes to induce a forced expiration from a patient. The patient blows into the device to move a column of water from one bottle to another.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.198, with respect to complaint files.
[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.5240 Anesthesia breathing circuit.
(a) Identification. An anesthesia breathing circuit is a device that is intended to administer medical gases to a patient during anesthesia. It provides both an inhalation and exhalation route and may include a connector, adaptor, and Y-piece.
§ 868.5250 Breathing circuit circulator.

(a) Identification. A breathing circuit circulator is a turbine device that is attached to a closed breathing circuit and that is intended to circulate anesthetic gases continuously by maintaining the unidirectional valves in an open position and reducing mechanical dead space and resistance in the breathing circuit.

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


§ 868.5260 Breathing circuit bacterial filter.

(a) Identification. A breathing circuit bacterial filter is a device that is intended to remove microbiological and particulate matter from the gases in the breathing circuit.

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

§ 868.5270 Breathing system heater.

(a) Identification. A breathing system heater is a device that is intended to warm breathing gases before they enter a patient’s airway. The device may include a temperature controller.

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

§ 868.5280 Breathing tube support.

(a) Identification. A breathing tube support is a device that is intended to support and anchor a patient’s breathing tube(s).

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.5300 Carbon dioxide absorbent.

(a) Identification. A carbon dioxide absorbent is a device intended for medical purposes that consists of an absorbent material (e.g., soda lime) that is intended to remove carbon dioxide from the gases in the breathing circuit.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5350 Nasal oxygen catheter.

(a) Identification. A nasal oxygen catheter is a device intended to be inserted through a patient's nostril to administer oxygen.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5365 Posture chair for cardiac or pulmonary treatment.

(a) Identification. A posture chair for cardiac or pulmonary treatment is a device intended to assist in the rehabilitation and mobilization of patients with chronic heart or lung disease.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.5375 Heat and moisture condenser (artificial nose).

(a) Identification. A heat and moisture condenser (artificial nose) is a device intended to be positioned over a tracheotomy (a surgically created opening in the throat) or tracheal tube (a tube inserted into the trachea) to warm and humidify gases breathed in by a patient.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5400 Electroanesthesia apparatus.

(a) Identification. An electroanesthesia apparatus is a device used for the induction and maintenance of anesthesia during surgical procedures by means of an alternating or pulsed electric current that is passed through electrodes fixed to a patient's head.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. A PMA or notice of completion of a PDP is required to be filed with the Food and Drug Administration on or before December 26, 1996 for any electroanesthesia apparatus that was in commercial distribution before May 28, 1976, or that has, on or before December 26, 1996 been found to be substantially equivalent to an electroanesthesia apparatus that was in commercial distribution before May 28, 1976. Any other electroanesthesia apparatus shall have an approved PMA or a declared completed PDP in effect before being placed in commercial distribution.


§ 868.5420 Ether hook.

(a) Identification. An ether hook is a device that fits inside a patient's mouth and that is intended to deliver vaporized ether.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. If the device is not labeled or otherwise represented as sterile, it is exempt from the current good manufacturing practice regulations in part 820 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.198, with respect to complaint files.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.5430 Gas-scavenging apparatus.

(a) Identification. A gas-scavenging apparatus is a device intended to collect excess anesthetic, analgesic, or trace gases or vapors from a patient's breathing system, ventilator, or extracorporeal pump-oxygenator, and to conduct these gases out of the area by means of an exhaust system.

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

§ 868.5440 Portable oxygen generator.

(a) Identification. A portable oxygen generator is a device that is intended to release oxygen for respiratory therapy by means of either a chemical reaction or physical means (e.g., a molecular sieve).
§ 868.5450 Respiratory gas humidifier.

(a) Identification. A respiratory gas humidifier is a device that is intended to add moisture to, and sometimes to warm, the breathing gases for administration to a patient. Cascade, gas, heated, and prefilled humidifiers are included in this generic type of device.

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

§ 868.5450 Respiratory gas humidifier.

(a) Identification. A respiratory gas humidifier is a device that is intended to add moisture to, and sometimes to warm, the breathing gases for administration to a patient. Cascade, gas, heated, and prefilled humidifiers are included in this generic type of device.

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

§ 868.5460 Therapeutic humidifier for home use.

(a) Identification. A therapeutic humidifier for home use is a device that adds water vapor to breathing gases and that is intended for respiratory therapy or other medical purposes. The vapor produced by the device pervades the area surrounding the patient, who breathes the vapor during normal respiration.

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

§ 868.5460 Therapeutic humidifier for home use.

(a) Identification. A therapeutic humidifier for home use is a device that adds water vapor to breathing gases and that is intended for respiratory therapy or other medical purposes. The vapor produced by the device pervades the area surrounding the patient, who breathes the vapor during normal respiration.

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

§ 868.5470 Hyperbaric chamber.

(a) Identification. A hyperbaric chamber is a device that is intended to increase the environmental oxygen pressure to promote the movement of oxygen from the environment to a patient’s tissue by means of pressurization that is greater than atmospheric pressure. This device does not include topical oxygen chambers for extremities (§878.5650).

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

§ 868.5470 Hyperbaric chamber.

(a) Identification. A hyperbaric chamber is a device that is intended to increase the environmental oxygen pressure to promote the movement of oxygen from the environment to a patient’s tissue by means of pressurization that is greater than atmospheric pressure. This device does not include topical oxygen chambers for extremities (§878.5650).

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

§ 868.5530 Flexible laryngoscope.

(a) Identification. A flexible laryngoscope is a fiberoptic device used to examine and visualize a patient’s upper airway and aid placement of a tracheal tube.

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

§ 868.5530 Flexible laryngoscope.

(a) Identification. A flexible laryngoscope is a fiberoptic device used to examine and visualize a patient’s upper airway and aid placement of a tracheal tube.

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

§ 868.5540 Rigid laryngoscope.

(a) Identification. A rigid laryngoscope is a device used to examine and visualize a patient’s upper airway and aid placement of a tracheal tube.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5540 Rigid laryngoscope.

(a) Identification. A rigid laryngoscope is a device used to examine and visualize a patient’s upper airway and aid placement of a tracheal tube.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5570 Nonrebreathing mask.

(a) Identification. A nonrebreathing mask is a device fitting over a patient’s face to administer oxygen. It utilizes one-way valves to prevent the patient from rebreathing previously exhaled gases.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5570 Nonrebreathing mask.

(a) Identification. A nonrebreathing mask is a device fitting over a patient’s face to administer oxygen. It utilizes one-way valves to prevent the patient from rebreathing previously exhaled gases.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5580 Oxygen mask.

(a) Identification. An oxygen mask is a device placed over a patient's nose, mouth, or tracheostomy to administer oxygen or aerosols.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5590 Scavenging mask.

(a) Identification. A scavenging mask is a device positioned over a patient's nose to deliver anesthetic or analgesic gases to the upper airway and to remove excess and exhaled gas. It is usually used during dentistry.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5600 Venturi mask.

(a) Identification. A venturi mask is a device containing an air-oxygen mixing mechanism that dilutes 100 percent oxygen to a predetermined concentration and delivers the mixed gases to a patient.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5610 Membrane lung for long-term pulmonary support.

(a) Identification. A membrane lung for long-term pulmonary support is a device used to provide to a patient extracorporeal blood oxygenation for longer than 24 hours.

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See §868.3.


§ 868.5620 Breathing mouthpiece.

(a) Identification. A breathing mouthpiece is a rigid device that is inserted into a patient's mouth and that connects with diagnostic or therapeutic respiratory devices.

(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 §868.9.


§ 868.5630 Nebulizer.

(a) Identification. A nebulizer is a device intended to spray liquids in aerosol form into gases that are delivered directly to the patient for breathing. Heated, ultrasonic, gas, venturi, and refillable nebulizers are included in this generic type of device.

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

§ 868.5640 Medicinal nonventilatory nebulizer (atomizer).

(a) Identification. A medicinal nonventilatory nebulizer (atomizer) is a device that is intended to spray liquid medication in aerosol form into the air that a patient will breathe.

(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 §868.9.


§ 868.5650 Esophageal obturator.

(a) Identification. An esophageal obturator is a device inserted through a patient's mouth to aid ventilation of the patient during emergency resuscitation by occluding (blocking) the esophagus, thereby permitting positive pressure ventilation through the trachea. The device consists of a closed-end semirigid esophageal tube that is attached to a face mask.

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

§ 868.5655 Portable liquid oxygen unit.

(a) Identification. A portable liquid oxygen unit is a portable, thermally insulated container of liquid oxygen that
is intended to supplement gases to be inhaled by a patient, is sometimes accompanied by tubing and an oxygen mask. An empty portable liquid oxygen unit is a device, while the oxygen contained therein is a drug.

§ 868.5665 Powered percussor.
(a) Identification. A powered percussor is a device that is intended to transmit vibration through a patient’s chest wall to aid in freeing mucus deposits in the lung in order to improve bronchial drainage and that may be powered by electricity or compressed gas.
(b) Classification. Class II (performance standards).

§ 868.5675 Rebreathing device.
(a) Identification. A rebreathing device is a device that enables a patient to rebreathe exhaled gases. It may be used in conjunction with pulmonary function testing or for increasing minute ventilation.
(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 § 868.9.

§ 868.5690 Incentive spirometer.
(a) Identification. An incentive spirometer is a device that indicates a patient’s breathing volume or flow and that provides an incentive to the patient to improve his or her ventilation.
(b) Classification. Class II (performance standards).

§ 868.5700 Nonpowered oxygen tent.
(a) Identification. A nonpowered oxygen tent is a device that encloses a patient’s head and upper body to contain oxygen delivered to the patient for breathing. This generic type of device includes infant oxygen hoods.
(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 § 868.9.

§ 868.5710 Electrically powered oxygen tent.
(a) Identification. An electrically powered oxygen tent is a device that encloses a patient’s head and, by means of an electrically powered unit, administers breathing oxygen and controls the temperature and humidity of the breathing gases. This generic type device includes the pediatric aerosol tent.
(b) Classification. Class II (performance standards).

§ 868.5720 Bronchial tube.
(a) Identification. A bronchial tube is a device used to differentially intubate a patient’s bronchus (one of the two main branches of the trachea leading directly to the lung) in order to isolate a portion of lung distal to the tube.
(b) Classification. Class II (performance standards).

§ 868.5730 Tracheal tube.
(a) Identification. A tracheal tube is a device inserted into a patient’s trachea via the nose or mouth and used to maintain an open airway.
(b) Classification. Class II (performance standards).

§ 868.5740 Tracheal/bronchial differential ventilation tube.
(a) Identification. A tracheal/bronchial differential ventilation tube is a device used to isolate the left or the right lung of a patient for anesthesia or pulmonary function testing.
(b) Classification. Class II (performance standards).

§ 868.5750 Inflatable tracheal tube cuff.
(a) Identification. An inflatable tracheal tube cuff is a device used to provide an airtight seal between a tracheal tube and a patient’s trachea.
(b) Classification. Class II (performance standards).

§ 868.5760 Cuff spreader.
(a) Identification. A cuff spreader is a device used to install tracheal tube cuffs on tracheal or tracheostomy tubes.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807.
§ 868.5770 Tracheal tube fixation device.

(a) Identification. A tracheal tube fixation device is a device used to hold a tracheal tube in place, usually by means of straps or pinch rings.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 51 FR 40388, Nov. 6, 1986]

§ 868.5780 Tube introduction forceps.

(a) Identification. Tube introduction forceps (e.g., Magill forceps) are a right-angled device used to grasp a tracheal tube and place it in a patient's trachea.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 51 FR 40388, Nov. 6, 1986]

§ 868.5790 Tracheal tube stylet.

(a) Identification. A tracheal tube stylet is a device used temporarily to make rigid a flexible tracheal tube to aid its insertion into a patient.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 51 FR 40388, Nov. 6, 1986]

§ 868.5795 Tracheal tube cleaning brush.

(a) Identification. A tracheal tube cleaning brush is a device consisting of a brush with plastic bristles intended to clean tracheal cannula devices after their removal from patients.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807. If the device is not labeled or otherwise represented as sterile, it is exempt from the current good manufacturing practice regulations in part 820, with the exception of § 820.180, with respect to general requirements concerning records, and § 820.198, with respect to complaint files.

[51 FR 40389, Nov. 6, 1986]

§ 868.5800 Tracheostomy tube and tube cuff.

(a) Identification. A tracheostomy tube and tube cuff is a device intended to be placed into a surgical opening of the trachea to facilitate ventilation to the lungs. The cuff may be a separate or integral part of the tracheostomy tube and is, when inflated, intended to establish a seal between the tracheal wall and the tracheostomy tube. The cuff is used to prevent the patient's aspiration of substances, such as blood or vomit, or to provide a means for positive-pressure ventilation of the patient. This device is made of either stainless steel or plastic.

(b) Classification. Class II.

[51 FR 40389, Nov. 6, 1986]

§ 868.5810 Airway connector.

(a) Identification. An airway connector is a device intended to connect a breathing gas source to a tracheal tube, tracheostomy tube, or mask.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 51 FR 40389, Nov. 6, 1986]

§ 868.5820 Dental protector.

(a) Identification. A dental protector is a device intended to protect a patient's teeth during manipulative procedures within a patient's oral cavity.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 51 FR 40389, Nov. 6, 1986]
§ 868.5830 Autotransfusion apparatus.
(a) Identification. An autotransfusion apparatus is a device used to collect and reinfuse the blood lost by a patient due to surgery or trauma.
(b) Classification. Class II (performance standards).

§ 868.5860 Pressure tubing and accessories.
(a) Identification. Pressure tubing and accessories are flexible or rigid devices intended to deliver pressurized medical gases.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 868.5870 Nonrebreathing valve.
(a) Identification. A nonrebreathing valve is a one-way valve that directs breathing gas flow to the patient and vents exhaled gases into the atmosphere.
(b) Classification. Class II (performance standards).

§ 868.5880 Anesthetic vaporizer.
(a) Identification. An anesthetic vaporizer is a device used to vaporize liquid anesthetic and deliver a controlled amount of the vapor to the patient.
(b) Classification. Class II (performance standards).

§ 868.5895 Continuous ventilator.
(a) Identification. A continuous ventilator (respirator) is a device intended to mechanically control or assist patient breathing by delivering a predetermined percentage of oxygen in the breathing gas. Adult, pediatric, and neonatal ventilators are included in this generic type of device.
(b) Classification. Class II (performance standards).

§ 868.5905 Noncontinuous ventilator (IPPB).
(a) Identification. A noncontinuous ventilator (intermittent positive pressure breathing-IPPB) is a device intended to deliver intermittently an aerosol to a patient’s lungs or to assist a patient’s breathing.
(b) Classification. Class II (performance standards).

§ 868.5915 Manual emergency ventilator.
(a) Identification. A manual emergency ventilator is a device, usually incorporating a bag and valve, intended to provide emergency respiratory support by means of a face mask or a tube inserted into a patient’s airway.
(b) Classification. Class II (performance standards).

§ 868.5925 Powered emergency ventilator.
(a) Identification. A powered emergency ventilator is a demand valve or inhalator intended to provide emergency respiratory support by means of a face mask or a tube inserted into a patient’s airway.
(b) Classification. Class II (performance standards).

§ 868.5935 External negative pressure ventilator.
(a) Identification. An external negative pressure ventilator (e.g., iron lung, cuirass) is a device chamber that is intended to support a patient’s ventilation by alternately applying and releasing external negative pressure over the diaphragm and upper trunk of the patient.
(b) Classification. Class II (performance standards).

§ 868.5955 Intermittent mandatory ventilation attachment.
(a) Identification. An intermittent mandatory ventilation (IMV) attachment is a device attached to a mechanical ventilator that allows spontaneous breathing by a patient while providing mechanical ventilation at a preset rate.
(b) Classification. Class II (performance standards).

§ 868.5965 Positive end expiratory pressure breathing attachment.
(a) Identification. A positive end expiratory pressure (PEEP) breathing attachment is a device attached to a ventilator that is used to elevate pressure in a patient’s lungs above atmospheric pressure at the end of exhalation.
§ 868.5975 Ventilator tubing.

(a) Identification. Ventilator tubing is a device intended for use as a conduit for gases between a ventilator and a patient during ventilation of the patient.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.5995 Tee drain (water trap).

(a) Identification. A tee drain (water trap) is a device intended to trap and drain water that collects in ventilator tubing during respiratory therapy, thereby preventing an increase in breathing resistance.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


Subpart G—Miscellaneous

§ 868.6100 Anesthetic cabinet, table, or tray.

(a) Identification. An anesthetic cabinet, table, or tray is a device intended to store anesthetic equipment and drugs. The device is usually constructed to eliminate build-up of static electrical charges.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.6175 Cardiopulmonary emergency cart.

(a) Identification. A cardiopulmonary emergency cart is a device intended to store and transport resuscitation supplies for emergency treatment. The device does not include any equipment used in cardiopulmonary resuscitation.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. The device is also exempt from the current good manufacturing practice regulations in part 820 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.198, with respect to complaint files.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.6225 Nose clip.

(a) Identification. A nose clip is a device intended to close a patient’s external nares (nostrils) during diagnostic or therapeutic procedures.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. The device is also exempt from the current good manufacturing practice regulations in part 820 of this chapter, with the exception of §820.180, with respect to general requirements concerning records, and §820.198, with respect to complaint files.

[47 FR 31142, July 16, 1982, as amended at 54 FR 25048, June 12, 1989]

§ 868.6250 Portable air compressor.

(a) Identification. A portable air compressor is a device intended to provide compressed air for medical purposes, e.g., to drive ventilators and other respiratory devices.

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

§ 868.6400 Calibration gas.

(a) Identification. A calibration gas is a device consisting of a container of gas of known concentration intended to calibrate medical gas concentration measurement devices.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 868.6700 Anesthesia stool.

(a) Identification. An anesthesia stool is a device intended for use as a stool for the anesthesiologist in the operating room.
§ 868.6810  
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.  
[47 FR 31142, July 16, 1982, as amended at 54 FR 25049, June 12, 1989]

§ 868.6810  Tracheobronchial suction catheter.  
(a) Identification. A tracheobronchial suction catheter is a device used to aspirate liquids or semisolids from a patient’s upper airway.  
(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 § 868.9.  

§ 868.6820  Patient position support.  
(a) Identification. A patient position support is a device intended to maintain the position of an anesthetized patient during surgery.  
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.  

§ 868.6885  Medical gas yoke assembly.  
(a) Identification. A medical gas yoke assembly is a device intended to connect medical gas cylinders to regulators or needle valves to supply gases for anesthesia or respiratory therapy. The device may include a particulate filter.  
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.  

PART 870—CARDIOVASCULAR DEVICES

Subpart A—General Provisions  
Sec.  
870.1 Scope.  
870.3 Effective dates of requirement for premarket approval.  
870.9 Limitations of exemptions from section 510(k) of the Federal Food, Drug, and Cosmetic Act (the act).  

Subpart B—Cardiovascular Diagnostic Devices  
870.1025 Arrhythmia detector and alarm.  
870.1100 Blood pressure alarm.  
870.1110 Blood pressure cuff.  
870.1130 Noninvasive blood pressure measurement system.  
870.1140 Venous blood pressure manometer.  
870.1200 Diagnostic intravascular catheter.  
870.1210 Continuous flush catheter.  
870.1220 Electrode recording catheter or electrode recording probe.  
870.1230 Fiberoptic oximeter catheter.  
870.1240 Flow-directed catheter.  
870.1250 Percutaneous catheter.  
870.1270 Intracavitary phonocatheter system.  
870.1280 Steerable catheter.  
870.1290 Steerable catheter control system.  
870.1300 Catheter cannula.  
870.1310 Vessel dilator for percutaneous catheterization.  
870.1330 Catheter guide wire.  
870.1340 Catheter introducer.  
870.1350 Catheter balloon repair kit.  
870.1360 Trace microsphere.  
870.1370 Catheter tip occluder.  
870.1380 Catheter stylet.  
870.1425 Programmable diagnostic computer.  
870.1435 Single-function, preprogrammed diagnostic computer.  
870.1450 Densitometer.  
870.1550 Angiographic injector and syringe.  
870.1660 Indicator injector.  
870.1670 Syringe actuator for an injector.  
870.1750 External programmable pacemaker pulse generator.  
870.1800 Withdrawal-infusion pump.  
870.1875 Stethoscope.  
870.1915 Thermodilution probe.  

Subpart C—Cardiovascular Monitoring Devices  
870.2050 Biopotential amplifier and signal conditioner.  
870.2060 Transducer signal amplifier and signal conditioner.  
870.2100 Cardiovascular blood flowmeter.  
870.2110 Extravascular blood flow probe.  
870.2300 Cardiac monitor (including carotid waveform and rate alarm).  
870.2310 Apex cardiograph.  
870.2320 Ballistocardiograph.  
870.2330 Echocardiograph.  
870.2340 Electrocardiograph.  
870.2350 Electrocardiograph lead switching adaptor.