

# Overview

## Components

Item	Description	P/N	Item	Description	P/N
1	Central Control Monitor System Configuration Card Service Data Card	802100 803739 803740		Occluder Module	803480
			17	Occluder Head	806455
				Temperature Module	802114
2	Monitor Mounting Arm	801441		Temperature Sensor (YSI (Yellow Springs Instruments) Series 700 temperature probes, or equivalent)	24710008
3	Roller Pump, 6 in	801041		Pressure Module	802112
4	Roller Pump, 4 in	801040		Pressure Transducer Kit	16433301
5	Centrifugal Control Unit	801046		Pressure Transducer Cable	806747
6	Centrifugal Drive Motor Manual Drive Unit Disposable Pump (8/ctn)	164267 164268 164275		Pressure Adapter Cable	806748
			18	Pressure Monitoring Kit	16066100
7	Telescoping Pole with solution rack Mounting Pole 4 ft Short Pole	16431701 16553401 801407	19	Flowmeter Module	802018
				Flow Sensor	6382
				Flowmeter Mounting Bracket	801550
				Ultrasonic Sensor Gel	164278
8	Crossbar	16426	20	Electronic Gas System	801188
9	Pole Collar	801403		Oxygen Sensor	801074
10	Crossbar Fitting	145980		Gas Supply Hose Kit (US) Oxygen Hose-green; Air Hose-yellow	814475
11	Bracket, Hanging Bags	146819		Gas Supply Hose Adapter Sets (US) NCG Hose Adapter Set	144207
12	Lamp, Long Lamp, Short	801238 801558		DISS Hand Tight Hose Adapter Set	144215
				Ohio Diamond Hose Adapter Set	144223
13	Hand Crank Bracket (includes two hand cranks)	802089 801016			
14	Roller Pump Pole Mount	801093			
15	Centrifugal Unit Pole Mount Roller Pump Mntg. Ext. Large Roller Pump Mntg. Ext. Small	804372 802523 802524		Gas Supply Hose Kit (Outside the US) Oxygen Hose-white; Air Hose-white/black Hoses do not include adapters for hospital gas outlets.	814474
16	Modules in Retaining Rack			95-5 Supply Hose (%O2/%CO2)	164595
	Air Bubble Detect Module	802110		Interface Module for CDI™ 101/CDI™ 100	802558
	Air Sensor 3/8 x 3/32	5773		Serial Cable	804981
	Air Sensor 1/4 x 1/16	5785		Interface Module for CDI™ 500	803479
	Air Sensor 1/4 x 3/32	5791		Serial Cable	804981
	Cable Assembly	149892		Interface Module RS-232	802113
	Sensor Holder	149876		Serial Cable	804982
				Interface Module RS-485	803518
				Serial Cable	810166
	Level Sensor II Module	802111		Module Cover	
	Level Sensor II Alarm Transducer, Red	195274		Right Side	804405
	Level Sensor II Alert Transducer, Yellow	195215		Left Side	804404
	Level Sensor II Mounting Pads (60 pack)	195240			
	Level Sensor II Gel Pad	217390			

## Level Detection System



## Level Detect Overview

### Purpose of Device

The Level Detect Module serves as the interface between alert and alarm level sensors and the rest of the system. This module is responsible for determining if the blood level has fallen below a specified point in the venous reservoir and for communicating that status to the system.

The level sensor attaches to a rigid reservoir with a disposable adhesive pad. Ultrasonic signals are used to detect the presence or absence of fluid at the sensor position for a range of venous reservoir thicknesses.

### Affected Product

This document is applicable to the following products:

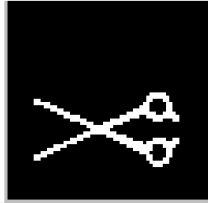
- 802111 Level Detect Module
- 195215 Ultrasonic Level II Sensor Yellow
- 195274 Ultrasonic Level II Sensor Red
- 195240 Level Sensor II Pads 60 PK

# Occluder System

## Occluder System

P/N 803480 Occluder Module

P/N 806455 Occluder Head



### Overview

#### Purpose of the Device

The Occluder System provides a precision, computer-controlled, tube clamping mechanism used to regulate venous return flow in the perfusion circuit. The occluder system consists of an occluder module and occluder head.

The occluder head serves as the tube clamping mechanism. A section of tubing is positioned between the plunger and the occluder cap. The tubing occlusion can be adjusted by controlling the occluder head, using the central control monitor (CCM) controls to move the plunger toward or away from the occluder cap.

The occluder module serves as the interface between the occluder head and the system. The occluder head receives its power and control signals from the occluder module. The occluder head can be unplugged from the occluder module.

The user controls the occluder system from the CCM and can configure it to respond to the arterial pump, either roller or centrifugal types. The responses can be set to open, close, or go to a particular %Flow.

#### Operating Parameters

##### *Occluder Requirements*

##### **Tube Size**

The occluder supports tubing sizes in the range 1/4 in (6,4 mm) I.D. x 1/16 in (1,6 mm) wall thickness to 1/2 in (12,7 mm) I.D. x 3/32 in (2,4 mm) wall thickness.

##### **Fluid Temperatures**

20°C to 40°C

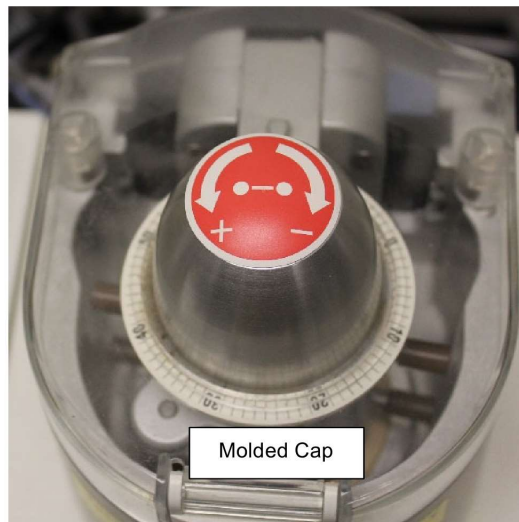
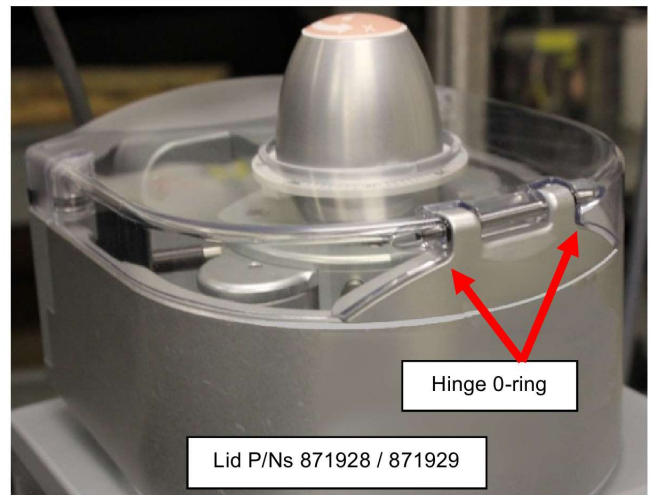
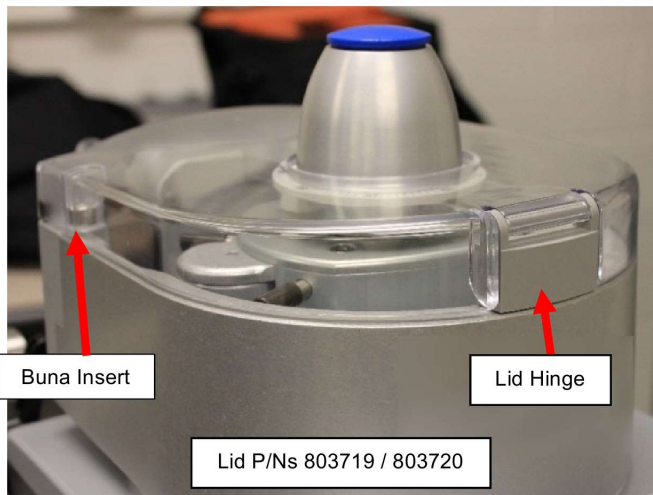
##### *Occluder Performance*

##### **Voltage**

24 VDC nominal

12 VDC  $\pm$  5%

Roller Pump: External Components			
	Part or Sub-Assembly	Disassembly	Reassembly
1.	Lid Assembly	a. Remove molded cap from top of occlusion knob.	a. Press buna inserts into lid (if new lid). NOTE: Use P-80 rubber lubricant if needed.
	Molded Lid Hinge	b. Remove lid assembly from race.	b. Install molded lid hinge to lid.
	Buna Drag Insert	c. Pull molded lid hinge from assembly. NOTE: Applicable for lids P/Ns 803719 and 803720 only. Hinge is not replaceable for lids P/Ns 871928 and 871929.	c. Install lid assembly onto race.
	Occlusion Cap	NOTE: There is no disassembly required for drag inserts.	d. For lid (P/Ns 871928 and 871929), apply linear lube to hinge o-rings if hinge squeaks. e. Insert cap onto top of occlusion knob.





TÜVRheinland®

**EC Certificate**  
**Directive 93/42/EEC Annex II, excluding Section 4**  
**Full Quality Assurance System**  
**Medical Devices**

**Registration No.:** HD 60121893 0001

**Report No.:** 12031336 001

**Manufacturer:** Terumo Corporation  
44-1, 2-chome, Hatagaya  
Shibuya-Ku, Tokyo 151-0072  
Japan

**Products:** see attachement for products included

Replaces Approval, Registration No.: HD 60077473 0001

**Expiry Date:** 2022-08-29

The Notified Body hereby declares that the requirements of Annex II, excluding section 4 of the directive 93/42/EEC have been met for the listed products. The above named manufacturer has established and applies a quality assurance system, which is subject to periodic surveillance, defined by Annex II, section 5 of the aforementioned directive. For placing on the market of class III devices covered by this certificate an EC design-examination certificate according to Annex II, section 4 is required.

**Effective Date:** 2017-08-30

**Date:** 2017-08-25



Notified Body

*M. Aihara*  
M.Sc. M. Aihara

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

TÜV Rheinland LGA Products GmbH is a Notified Body according to Directive 93/42/EEC concerning medical devices with the identification number 0197.

**TÜV Rheinland**  
**LGA Products GmbH**  
**Tillystraße 2, 90431 Nürnberg**

**Attachment to  
Certificate**

**Registration No.:** HD 60121893 0001  
**Report No.:** 12031336 001

**Manufacturer:** Terumo Corporation  
44-1, 2-chome, Hatagaya  
Shibuya-Ku, Tokyo 151-0072  
Japan

Products included:

- Blood Bags
- Blood Donor Set with/without Blood Transfusion Filter
- Blood Transfusion Filter
- Intravenous Catheter
- Intravenous Administration Set
- Hypodermic Syringe
- Winged Needle
- Dental Needle
- Other Medical Needle
- Blood Administration Set
- Lancet



**Notified Body**

**Date:** 2017-08-25

*M. Aihara*  
**M.Sc. M. Aihara**

**TÜV Rheinland**  
**LGA Products GmbH**  
**Tillystraße 2, 90431 Nürnberg**

**Attachment to  
Certificate**

**Registration No.:** HD 60121893 0001  
**Report No.:** 12031336 001

**Manufacturer:** Terumo Corporation  
44-1, 2-chome, Hatagaya  
Shibuya-Ku, Tokyo 151-0072  
Japan

**Products included:**

- Extra-corporeal Membrane Oxygenator
- Cardiopulmonary Bypass Arterial Line Blood Filter
- Heart-Lung Bypass Defoamer
- Cardiotomy Reservoir
- Cardiopulmonary Bypass Blood Reservoir
- Haemoconcentration Filter
- Centrifugal Pump
- Angiographic Catheter
- Balloon Dilatation Catheter
- Catheter Guide Wire
- Guiding Catheter
- Catheter Introducer
- Stents
- Extension Tube
- Temperature Control Unit for Heart-Lung Bypass System Module
- Infusion Pump
- Syringe Infusion Pump
- Clinical Electronic Thermometer

**Date:** 2017-08-25



**Notified Body**

*M. Aihara*  
**M.Sc. M. Aihara**





# Certificate

No. Q5 037584 0026 Rev. 01

**Holder of Certificate:** **Terumo Medical Products (Hangzhou) Co., Ltd.**

M4-9-5 Hangzhou Economic &  
Technological Development Zone  
310018 Hangzhou  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Scope of Certificate:**

Design and Development, Production and Distribution of Connector, Balloon Catheter, Silicone Balloon Catheter, Silicone Balloon Catheter with Temperature Sensor, Extension Tube, Three-Way Stopcock with Extension Tube, Suction Catheter, P-Type Catheter with Aspirator Collector, Nelaton Catheter, Stomach Tube, Feeding Tube, Connecting Tube, Oxygen Catheter, Three-way Stopcock, Surplug Needle-Free Connector, Intravenous Hyperalimentation, Solution Administration Set for Infusion Pump, Solution Administration Set for Pediatric, Solution Administration Set, Volumetric Solution Administration Set for Infusion Pump, Disposable Volumetric Solution Administration Set, Volumetric Blood Administration Set, Winged Infusion Set, Winged Blood Sampling Set, Surplug Needle-Free Connector with Extension Tube, Surplug Solution Administration Set, Surplug Three-Way Stopcock, Final Filter PS, Automated Peritoneal Dialysis, Blood Administration Set for Infusion Pump, Extra-Corporeal Membrane Oxygenator, Digital Electronic Sphygmomanometer, Electronic Thermometer, Surplug AD, Surplug AD Manifold, Surplug AD Three Way Stopcock, Surplug AD Extension Tube, Surplug AD Administration Set, Intravenous Catheter for Single Use, Nasogastric Tube for Single Use  
Production and Distribution of Cardiotomy Reservoir

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf.

**Report No.:** SH1907321  
**Valid from:** 2019-12-01  
**Valid until:** 2022-11-30

**Date,** 2019-11-19

Christoph Dicks  
Head of Certification/Notified Body

# Certificate

No. Q5 037584 0026 Rev. 01

**Applied Standard(s):** EN ISO 13485:2016  
 Medical devices - Quality management systems -  
 Requirements for regulatory purposes  
 (ISO 13485:2016)  
 DIN EN ISO 13485:2016

**Facility(ies):** Terumo Medical Products (Hangzhou) Co., Ltd.  
 M4-9-5 Hangzhou Economic &, Technological Development Zone,  
 310018 Hangzhou, PEOPLE'S REPUBLIC OF CHINA

TÜV SÜD  
 ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT