



OMEGA FLEX, INC.
451 Creamery Way
Exton, PA 19341-2509
(610)-524-7272

www.mediTrac.com

MEDITRAC®

CSI Section:

22 63 00 Medical Gas Systems

1.0 RECOGNITION

Omega Flex® MediTrac® recognized in this report has been evaluated for use as plenum-rated piping. The fire-resistance properties of MediTrac® comply with the intent of the provisions of the following codes and regulations:

- 2024 and 2021 Uniform Mechanical Code® (UMC)
- 2024 and 2021 International Mechanical Code® (IMC)
- 2024 and 2021 International Plumbing Code® (IPC)
- 2022 California Mechanical Code (CMC) - see attached supplement.
- 2022 California Plumbing Code (CPC) - see attached supplement.

2.0 LIMITATIONS

Use of the MediTrac® recognized in this report is subject to the following limitations:

2.1 Omega Flex®, Inc.'s MediTrac® shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.2 Omega Flex®, Inc.'s MediTrac® does not comply with the 2024 Uniform Plumbing Codes.

2.3 Installers shall conform to the qualification requirements imposed by the state and/or local requirements and hold a valid ASSE 6010 or state equivalent license. The installer shall successfully complete the MediTrac® CMT installation program by a factory-authorized trainer.

2.4 MediTrac® CMT piping system shall only use components provided by OmegaFlex® for use with the MediTrac® CMT system.

2.5 When MediTrac® is installed underground or in a concrete slab, piping shall be encased in a nonmetallic conduit.

2.6 The Tubing recognized in this report is produced by Omega Flex in Exton, PA.

3.0 PRODUCT USE

3.1 General: Omega Flex®'s MediTrac®, Corrugated Medical Tubing (CMT) is intended for use to convey nonflammable medical gas and non-flammable medical support gases for vacuum and WAGD systems in accordance with NFPA 99.

3.2 Design:

The MediTrac® system has a maximum operating pressure of 185 psi (1275.57 kPa) which incorporates a factor of safety of 3.5 in accordance with NFPA 99 section 5.1.10.1.4, and (2) has a maximum continuous use operating temperature of 250°F (121°C) and a maximum withstand temperature exposure of 1000°F (538°C).

3.3 Installation:

3.3.1 Installation General: Installation shall be in accordance with the applicable code, this report; and CMT size selection shall be in accordance with the manufacturer's published installation instructions.

3.3.2 MediTrac® Tubing Specifications, minimum bend radius, and maximum hanger spacing are shown in table 1.

4.0 PRODUCT DESCRIPTION

4.1 MediTrac®: The Omega Flex® MediTrac® flexible corrugated medical tubing (CMT) system is available in ½, ¾, 1, 1½, and 2-inch (12.7, 19, 25.4, 38.1, and 50.8 mm) sizes. The CMT is corrugated copper alloy tubing with axially swaged brass fittings. The proprietary fittings have a stainless steel anti-tamper sleeve and copper tube stub. The copper tube stub allows connection to rigid copper tube systems.

4.2 Plenum-Rated Jacket Material: MediTrac® is equipped with an outer jacket fabricated from low density polyethylene with a demonstrated a maximum flame spread index of less than 25 and a maximum smoke developed index of less than 50 when tested in accordance with UL 723.

4.3 Cleaning: The fittings and Tubing are cleaned to CGA G4.1 by the manufacturer.

5.0 IDENTIFICATION

MediTrac® is identified by the Omega Flex® name and trademark, product name, and evaluation report number (ER-920).

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with Section 104.2.3 of the 2024 IPC and Section 104.11 of previous editions. This document shall only be reproduced in its entirety.

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web: www.uniform-es.org • 4755 East Philadelphia Street, Ontario, California 91761-2816 – USA





EVALUATION REPORT

Number: **920**

Originally Issued: 05/07/2024

Valid Through: 05/31/2025

The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-920

6.0 SUBSTANTIATING DATA

6.1 Test reports are from laboratories in compliance with ISO/IEC 17025.

6.2 UL 1365 issue No.6 dated October 5, 2018, UL Outline of Investigation for Corrugated Medical Tubing (CMT) Systems.

6.3 Reports of UL723 testing.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Omega Flex® MediTrac® to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.5 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

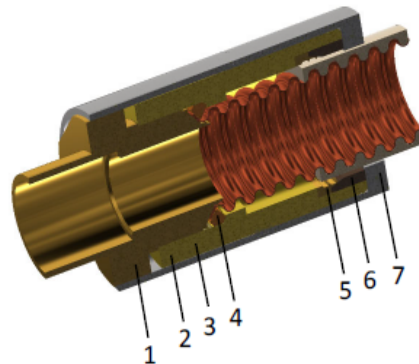
For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1
MediTrac® Specifications, Bend Radius and Support Spacing

MediTrac®	½"	¾"	1"	1½"	2.00"
Nominal CMT ID Inches	0.597	0.82	1.06	1.525	2.06
Jacket OD inches	0.875	1.125	1.375	2.125	2.625
Minimum Bend Radius inches	6	8	10	24	30
Copper Tube size for Hanger inches	¾	1	1¼	2	2½
Maximum Hanger spacing feet.	6	7	8	10	10

MEDITRAC® SWAGED SEALED FITTING COMPONENTS

Item	Description	Material
1.	Adaptor	CA360 Brass
2.	Anti-Tamper Sleeve	300 Series Stainless Steel
3.	Non-Removable Threaded Axial Swaging Tool	CA360 Brass
4.	Split Ring	Brass/Stainless Steel
5.	Jacket Lock	CA360 Brass
6.	Rear Swage Sleeve	CA360 Brass
7.	Treaded Driver	300 Series Stainless Steel





CALIFORNIA SUPPLEMENT

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22 63 00 Medical Gas Systems

1.0 RECOGNITION

The Omega Flex® MediTrac® CMT piping is recognized in ER-920 for plenum rated piping and in this supplement has been evaluated as noted in Sections 2.1 and 2.2 for conveying medical gas as well as vacuum/WAGD. For the purposes of this supplement, Omega Flex® MediTrac® has been found to comply with the intent of the provisions of the following codes and regulations:

- 2022 California Plumbing Code (CPC)
- 2022 California Mechanical Code (CMC)

2.0 LIMITATIONS

Use of the Omega Flex® MediTrac® CMT piping recognized in this report is subject to the following limitations in addition to those in ER-920:

2.1 HCAi, (formerly OSHPD) 1, 1R, 2, 3, 4, & 5: Medical gas systems for health care facilities that are regulated by HCAi (hospitals, skilled nursing facilities, and intermediate care facilities, licensed clinics, and correctional treatment centers) shall be in accordance with NFPA 99, Standard for Health Care Facilities. California Fire Code Referenced Standards (Chapter 80) lists the applicable version of the Standard. See California Building Code Table 1224.4.6.1 for location and number of station outlets for oxygen, vacuum, and medical air.

2.2 HCAi, (formerly OSHPD) 1, 1R, 2, 3, 4, & 5 A medical gas source system serving an HCAi 1, 2, 3, or 5 building shall not be located in an HCAi 1R or HCAi 3 building. HCAi 1R buildings may be served by an individual main supply line from other HCAi buildings, with a main line valve as per NFPA 99. [NFPA 99:5.1.4.2.1, 5.1.4.2.2, 5.1.4.3.1, 5.1.4.3.2] Valves shall be accessible and clearly labeled.

Exception: A medical gas source system serving only an HCAi 1R or 3 buildings may be located within it.

2.3 This supplement expires concurrently with ER-920.

3.0 Installation

General: Installation shall be in accordance with the applicable code, this report; and CMT size selection shall be in accordance with the manufacturer's published installation instructions.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org