

Notified Body n° 0426



ITALCERT S.r.l.
viale Sarca, 336 - IT 20126 MILANO MI
tel. +39 0266104876 - fax +39 0266101479
E-mail italcert@italcert.it

CERTIFICATE N° 062-03-00-DM

(in compliance with Annex II of the Directive 93/42/EEC)

ITALCERT

certifies that

Full Quality Assurance System
applied for the design, manufacture and final inspection
of "Medical Devices" - MD -

by the manufacturer

MD S.r.l.

Via Guido Rossa, 22/c - 30037 SCORZÈ (VE) - ITALY

in the headquarters located in

Via Guido Rossa, 22/c
30037 SCORZÈ (VE) - ITALY

complies with the requirements stated in

Directive 93/42/EEC - Annex II (excluding point 4)

and authorizes the same manufacturer to mark

CE 0426

in compliance with the criteria defined in Annex XII of the Directive 93/42/EEC
the MD reported in Annex 1 of this Certificate

dr. ing. Roberto Cusolito

A blue ink signature of Roberto Cusolito.

MANAGING DIRECTOR

First Issue date
2006-05-24

Renewal date
2019-05-24

Expire date
2024-05-23

This certificate must be published only in integral form and accompanied by its Annex 1.
This certificate is the English translation of the certificate n°062-03-00-DM issued by ITALCERT Srl in Italian language.
In case of discrepancy you must refer to the original certificate issued in Italian language.

Annex 1 to the Certificate n° 062-03-00-DM

- page 1 of 2 -

Active medical device intended to administer and/or remove medicines, body liquids or other substances to or from the body

- Terminal units for medical gas and vacuum pipeline systems (class IIb)

PF-01xx-yyyy	Base blocks for terminal units for medical gas pipeline systems
PF-02xx-yyyy	Outlets for terminal units for medical gas pipeline systems
PF-06xx-yyyy	Probes for terminal units for medical gas pipeline systems
PF-36xx-yyyy	Doublers for terminal units for medical gas pipeline systems
KT-02xx-yyyy	Maintenance kits for terminal units
PF-34xx-yyyy	Pre-installed terminal units boxes
PF-66xx-yyyy	Hose assemblies
KT-01xx-yyyy	Maintenance kits for base blocks

- Second stage pressure regulators for medical gas pipeline systems (class IIb)

PF-05xx-yyyy / PF-37xx-yyyy	Line pressure regulators for medical gas pipeline systems
KT-05xx-yyyy / KT-37xx-yyyy	Maintenance kits for line pressure regulators
PF-55xx-yyyy	High flow line pressure regulators
KT-55xx-yyyy	Maintenance kits for high flow line pressure regulators
PF-44xx-yyyy	Pre-assembled cabinets for second stage pressure regulation / line pressure stabilization and regulation cabinets

- Terminal units for type 1 AGSS (Anaesthetic gas scavenging systems) (class IIa)

PF-02Ex-yyyy	Outlets for terminal units for AGSS
PF-01Ex-yyyy	Base blocks for terminal units for AGSS
PF-06Ex-yyyy	Probes for terminal units for AGSS
KT-02Ex-yyyy	Replacement kits for terminal units for AGSS
PF-76xx-yyyy	Accessories for AGSS

- Flow-meters for connection with terminal units of medical gas pipeline systems (class IIa)

PF-26xx-yyyy	Flow meters
PF-27xx-yyyy	Humidifiers for flow meters
PF-57xx-yyyy	Flow selectors

- Medical suction devices

PF-38xx-yyyy	Vacuum regulators with collection for collection jar or hose barb fitting (class IIa)
PF-50xx-yyyy	Vacuum regulator – Probe – Flexible hose kit – Hose barb fitting/collection jar – filter (class IIb)

- Shut-off area valves and Vacuum control units (class IIb)

PF-03xx-yyyy	Shut-off area valves for medical gases and vacuum
PF-35xx-yyyy	Vacuum control units
PF-45xx-yyyy	Area valves pre-assembled cabinets
PF-46xx-yyyy	Shut off valves pre-assembled cabinets for fire control
PF-48xx-yyyy	Shut off line valves pre-assembled cabinets
PF-49xx-yyyy	Medical gas distribution system management cabinet
PF-61xx-yyyy	Shut-off area valves for medical gases and vacuum
PF-64xx-yyyy	AVSU (Area Valve Service Unit)
KT-61xx-yyyy	Maintenance kits for shut-off area valves
PF-74xx-yyyy	Area shut-off valves for compressed medical gases and vacuum
KT-74xx-yyyy	Connecting kits for area shut-off valves PF-74xx-yyyy
KT-76xx-yyyy	Maintenance kits for area shut-off valves PF-74xx-yyyy

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Annex 1 to the Certificate n° 062-03-00-DM

- page 2 of 2 -

- High pressure systems (class IIb)
 - PF-40xF-yyyy Pigtails for cylinders
 - PF-40xP-yyyy Pigtails for cylinder bundles
 - PF-40xT-yyyy High pressure flexible connections
 - PF-42xy-zzzz Cylinder manifolds

- First stage regulation devices (class IIb)
 - PF-43xx-yyyy First stage regulators for medical gas cylinder manifolds
 - KT-43xx-yyyy Maintenance kits for first stage pressure regulators
 - PF-51xx-yyyy Automatic change-over decompression units for medical gases
 - PF-52xx-yyyy Automatic change-over
 - PF-53xx-yyyy Emergency decompression units for medical gases
 - PF-62xx-yyyy First stage regulators for medical gas cylinder manifolds
 - KT-62xx-yyyy Maintenance kits for first stage pressure regulators
 - PF-70xx-yyyy High-flow manual change-over safety decompression station for medical gases

- Double-stage regulation devices (class IIb)
 - PF-54xx-yyyy Double-stage decompression units for medical gases
 - PF-56xx-yyyy Double-stage emergency decompression units for medical gases
 - PF-59xx-yyyy HTM 02-01 automatic manifolds for medical gases
 - PF-60xx-yyyy HTM 02-01 emergency reserve manifolds for medical gases

Milan, 2019-05-24

dr. ing. Roberto Cusolito

Managing Director

CERTIFICATO N° 306SGQ06

CERTIFICATE N° 306SGQ06

Si certifica che il
this is to certify that - on certifie que

Sistema di Gestione per la Qualità

Quality Management System - Système de Gestion pour la Qualité

messo in atto da
implemented by - mis en acte par

MD S.r.l

Via Guido Rossa, 22/c - IT 30037 SCORZE' (VE)

nella Sede Operativa di
Operative Unit - Siège Opérationnel

Via Guido Rossa, 22/c - IT 30037 SCORZE' (VE)

è conforme alla norma
is in compliance with the standard - est conforme à la norme

UNI EN ISO 9001-2015 (ISO 9001-2015)

per i seguenti Processi
concerning the following kinds of Processes - pour les suivants Processus

**Progettazione e produzione di componenti per impianti di distribuzione
dei gas medicinali e per vuoto e per impianti di evacuazione dei gas anestetici.**

*Design and manufacture of components for pipeline systems for compressed medical gases
and vacuum and for anaesthetic gas scavenging disposal systems.*

*Conception et fabrication de composants pour systèmes de distribution de gaz médicaux comprimés
et de vide e pour Systèmes d'évacuation de gaz d'anesthésie non réutilisables*

Il presente Certificato è soggetto al rispetto delle condizioni stabilite dai Regolamenti per la Certificazione in vigore applicabili
This Certificate shall satisfy the requirements established in the Rules for the certification in force applicable

Ce certificat est soumis à la conformité avec les termes et conditions du règlement de certification applicable.

In caso di discordanza tra le lingue utilizzate nella traduzione del contenuto del presente certificato, fare riferimento alla lingua italiana
In cases of discrepancy between the languages used in the translation of the content of this certificate, please refer to the Italian language
En cas de divergence entre les langues utilisées pour la traduction du contenu de ce certificat, veuillez vous référer à la langue italienne

L'AMMINISTRATORE DELEGATO

MANAGING DIRECTOR



Dr. Ing. Roberto Cusolito

Data di Prima Emissione

First Issue Date

2011-10-10

Data di Rinnovo

Renewal Date

2020-11-19

Data di Scadenza

Expiration Date

2023-06-05

Settore IAF 17



SGQ N° 023A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CERTIFICATO N° 306DM09

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Si certifica che il
this is to certify that - on certifie que

Sistema di Gestione per la Qualità

Quality Management System - Système de Gestion pour la Qualité

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nella Sede Operativa di
Operative Unit - Siège Opérationnel

Via Guido Rossa, 22/c – IT 30037 SCORZE' (VE)

è conforme alla norma
is in compliance with the standard - est conforme à la norme

UNI CEI EN ISO 13485-2016 (ISO 13485-2016)

per i seguenti Processi
concerning the following kinds of Processes - pour les suivants Processus

**Progettazione e produzione di componenti per impianti di distribuzione
dei gas medicinali e per vuoto e per impianti di evacuazione dei gas anestetici.**

*Design and manufacture of components for pipeline systems for compressed medical gases
and vacuum and for anaesthetic gas scavenging disposal systems.*

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L'AMMINISTRATORE DELEGATO

MANAGING DIRECTOR



Dr. Ing. Roberto Cusolito

Data di Prima Emissione

First Issue Date

2005-12-01

Data di Rinnovo

Renewal Date

2020-11-19

Data di Scadenza

Expiration Date

2023-06-05



SGQ N° 023A

Membro dagli Accordi di Mutuo Riconoscimento FA, IAF e ILAC.
Signatory of EA, IAF and ILAC Mutual Recognition Agreements






Surface mount installation systems for terminal units





IDENTIFICATION

- ▶ Surface mount wall outlet box for installation of medical gas and AGSS terminal units (model for systems with centralized blower)
- ▶ Equipped with wall box cover with bas-relief moulding for gas identification sticker
- ▶ Construction in white ABS with threaded inserts for fastening terminal units
- ▶ Modular design to allow multiple boxes to be installed in series

SURFACE MOUNT BOX

CODE	DESCRIPTION	PACKAGING		
		 type	 kg	 pcs
PF-2100-4000	Surface mount box for terminal units	unboxed	0.14	1

GAS IDENTIFICATION STICKERS

CODE	GAS	SYMBOL	COLOR	PACKAGING	
				 type	 pcs
ET-2100-000V	Vacuum	Vac	Yellow	bag	1
ET-2100-00O2	Oxygen	O ₂	White	bag	1
ET-2100-00AC	Medical Air	Air	Black - White	bag	1
ET-2100-0N2O	Nitrous Dioxide	N ₂ O	Blue	bag	1
ET-2100-0CO2	Carbon Dioxide	CO ₂	Grey	bag	1
ET-2100-0AC8	Instruments Air	Air-800	Black - White	bag	1
ET-2100-00EV	Anaesthetic gas scavenging	AGSS	Magenta	bag	1





Humidifiers for flow meters for oxygen therapy



IDENTIFICATION

- ▶ Humidifier for oxygen therapy designed to contain demineralized water used to increase the relative humidity of the oxygen supplied to the patient
- ▶ Autoclavable polycarbonate jar
- ▶ Autoclavable plastic cap
- ▶ Internal silicone rubber tube complete with filter for diffusion of oxygen in the water
- ▶ Hose connector on humidifier cap for connection to patient administration devices (masks, nasal catheters...)
- ▶ Indication of water filling limit and safety information
- ▶ Latex-safe humidifier assembly

CE MARKING

Notified body 0426

CE marking in risk class II A in accordance with Legislative Decree 24 February 1997, no. 46 "Implementation of Directive 93/42/EEC, concerning Medical Devices" and further modifications

REFERENCE STANDARDS

UNI 11341: "Bubbling humidifiers for medical use - fundamental requirements"

HTM 02-01: "Medical gas pipeline systems"

*Validity of the standards is referred to the current year



- ▶ Capacity: 250 cc
- ▶ Connection with flow meter via nickel-plated brass union with G 1/4" or 9/16" fitting
- ▶ Maximum pressure: 500 kPa
- ▶ Maximum flow rate: 20 l/min
- ▶ Sterilizable in autoclave at 121 °C
- ▶ Time for sterilization cycle: 20 minutes



This is a translation of certificate N. IT94/0008

SGS

The quality management system of

SILMET S.p.A.

Via Martiri della Libertà, 31 - 25030 Torbole Casaglia (BS) - Italy

has been assessed and certified as meeting the requirements of

ISO 9001 / UNI EN ISO 9001:2015

For the following activities

Manufacturing and trading under own brand name of copper tube plumbing for hydro-thermo sanitary plants, distribution systems of medical gases and their mixtures, air, vacuum and anesthetic evacuation gases, for air conditioning and refrigeration applications, and other industrial use and manufacturing and rolling of copper strips and sheets for building and industrial use.

EA Sector: 17, 29

This certificate is valid from 04/06/2021 until 04/06/2024 and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 04/06/2024.

Issue 10. Certified since 01/09/1994.

The audit leading to this certificate commenced on 17/05/2021

Previous issue certificate validity date was until 04/06/2021

Authorized by
Paola Santarelli



SGS ITALIA S.p.A.

Via Caldera, 21 - 20153 MILANO - Italy

t + 39 02 73 93 11 f +39 02 70 10 94 89 www.sgs.com

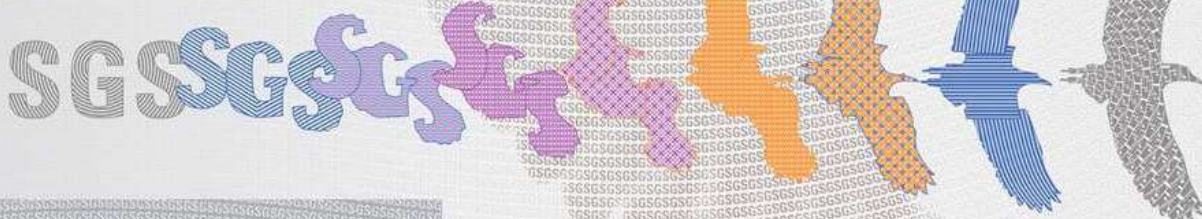
Page 1 of 1



SGQ N° 0015 A

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB, LAT, PTP e RMT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM, PRD e PRS e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT, ISP e PTP

Signatory of EA MLA for the accreditation schemes QMS, EMS, PRD, PRS, INSP, GHG, TL, CL, PTP and RMT, of IAF MLA for the accreditation schemes QMS, EMS, ISMS, FSMS, PRD and PRS and of ILAC MRA for the accreditation schemes TL, ML, CL, INSP and PTP



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MEDICAL, the ideal choice for plants for the distribution of medical gases and vacuum systems.

Manufactured according to the most modern technologies on the current world market, in observance of European standard EN 13348, compatible with equipment manufactured in accordance with the Medical Device Directive 93/42/EEC, result of scientific studies and tests that guarantee the maximum compatibility for distributing the following gases and systems:

- oxygen, nitrous oxide, nitrogen, helium, carbon dioxide, xenon;
- air for breathing;
- specific mixtures of these gases mentioned above;
- air for operating surgical instruments;
- anaesthetic gases and vapours;
- vacuum.

The inner surface meets the requirements of reference standard and is also exempted from incompatible materials with medical gases. The standard EN 13348 is harmonized under the PED Directive 97/23/EC (EU Pressure Equipment Directive), therefore the Silmet MEDICAL tubes also meet the requirements of that Directive.



TECHNICAL CHARACTERISTICS

Alloy	Cu-DHP CW024A (Cu = 99,90% min. - P = 0,015 ÷ 0,040%)		
Physical state according to EN 13348	Annealed R220	Half-Hard R250	Hard R290
Unit tensile strength – R min.	220 N/mm²	250 N/mm²	290 N/mm²
Percentage elongation – A min.	40%	20% o 30%	3%
Total carbon	C ≤ 0.02 g/m² max. in compliance with standard EN 13348		
Inner surface	Glossy		
Marking on tube	SILMET MEDICAL EN 13348 Ø X sp. Year quarter		
Dimensions and tolerances	In compliance with standard EN 13348		
Internal surface roughness	RA - 1/10 of micron		
Linear thermal expansion coefficient	0.00168 mm/m °C		
Thermal conductivity at 20°C	364 W/m · K		
* the symbol # is only present in the half-hard physical state			

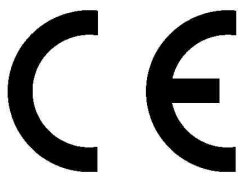
TABLE OF DIMENSIONS

external nominal diameter d	nominal thickness e						
	mm						
mm	0,7	0,8	0,9	1	1,2	1,5	2
8		R V		R V			
10		R V		R V			
12				R V			
15	R V			R V			
18				R V			
22			R V	R V		R V	
28			V	V		V	
35					V	V	
42					V	V	
54					V	V	V
R tubes in coils							
V tubes in straight lengths							



Other sizes can be supplied by agreement between the purchaser and the supplier.

For availability and feasibility of these measures and for other sizes please contact our sales department.



EC DECLARATION OF CONFORMITY

The manufacturer:

**Silmet S.p.A. – Via Martiri della Libertà, 31
25030 – Torbole Casaglia (BS) Italy**

Declare that the seamless, round copper tubes for water and gas in sanitary and heating applications with an outside diameter of 6 - 76,1 mm, for:

- Distributing networks for hot water and cold water
- Hot water heating systems including panel heating systems (under-floor, wall, overhead)
- Domestic gas and liquid fuel distribution
- Drainage, and disposal of other liquids and gaseous waste
- Fire suppression and extinction systems
- Pressure and vacuum systems

comply with the requirements of the following EC Directives, when installed according to national regulations

89/106/EEC EU Construction Products Directive
97/23/EC EU Pressure Equipment Directive


and comply with the requirements of these directives is demonstrated through conformity with the following standard:

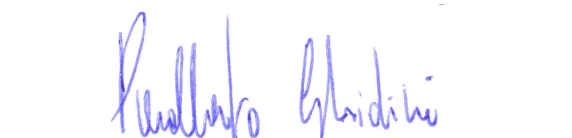
EN 1057:2010 Seamless, round copper tubes for water and gas in sanitary and heating applications

Notified body: Identification No. DPC 0679

CSTB

84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne la Vallée CEDEX 2
Test Report No.: CA 09-010



Francesco Orio – Quality Manager

Pieralberto Ghidini – Managing Director

April, 01 2010

BASIS FOR THE CE MARKING

EN 1057:2010 Annex ZA

Compliance with the Construction Products Directive 89/106/EEC

Essential characteristic	Result	Remarks
Reaction to fire	Class A1	Decision of the Commission 96/603/EC, amended 2000/605/EC
Crushing strength	NPD*	Derived from wall thickness and mechanical properties
Internal pressure	NPD*	Derived from wall thickness and mechanical properties
Dimensional tolerances	pass	All tubes must meet the specified dimensional tolerances
Resistance to high temperature	suitable for use up to 120 °C	Temperatures found in heating system pipes have non significant influence on the mechanical properties of copper. Copper tubes can also be used for higher temperatures. National regulations must be observed when used at higher temperatures
Weldability	pass	The suitability for welding is characteristic of the copper grade used for products and ensured through the control of the material composition
Tightness	pass	All tubes must be subjected to leak-tightness testing
Durability of crushing strength, internal pressure and tightness	pass	All tubes must meet the requirements regarding surface condition

* Note: "No Performance Determined" according to EN 1057 ZA.3

EN 1057:2010 Annex ZB

Compliance with the Pressure Equipment Directive 97/23/CE

Essential characteristic	Remarks
Material properties	Material properties must be met in accordance with the required mechanical properties. Copper is not susceptible to brittle fracture due to its face-centred cubic crystal structure
Conformity of material and manufacturer's certified documentation	On request, compliance of the product is confirmed by a certificate of the manufacturer according to EN 10204 Annex ZA

GENERAL REMARKS

- The CE marking ensures the free movement of goods within Europe. It does not replace existing national regulations for special applications (e.g. water, gas, sanitary, heating installations, etc.)
- The copper tube is suitable for drinking water applications. The national regulations for drinking water applications remain applicable and must be followed.

This declaration is no guarantee of properties in terms of product liability. The safety information of the product documentation must be observed.

REPUBLICA MOLDOVA

ISCY "Inmacom - Didactic"

Denumirea persoanei juridice

CERTIFICAT DE CALIFICARE PROFESIONALĂ

Seria CPL

Nr 008830

Prezentul certificat eliberat

D-lui/D-nei

Botnaru Valeriu

(numele, prenumele)

autentică absolvirea cursului multidisciplinar de

calificare profesională
în meseria electroagrușorilor

Durata studiilor 334 ore

Semnătura titularului

[Signature]

a studiat disciplinele:

Nr. crt.	Denumirea disciplinei	Nr. de ore	Nota
1.	Inițiere în domeniul ocupational	34	9 (nouă)
2.	Științe electrice	78	9 (nouă)
3.	Științe cu gaze	58	8 (opt)
4.	Practica	160	9 (nouă)

a susținut examenele de calificare

Nr. crt.	Examenul (probă)	Nota
1.	Examen de calificare	8 (opt)

În baza Hotărârii Comisiei de Evaluare

din 03 noiembrie 2020

i se acordă calificarea de electroagrușorilor

(calificarea/specializarea profesională)

de categoria a patra în domeniul

Președintele comisiei



Conducătorul instituției

Eliberat la 03.11.2020

Nr. de înregistrare 1876

Notă: Programa Cursurilor este aprobată de Ministerul Educației