

Medical copper pipes

Degreased copper pipes intended for medical as well as other equivalent gas pipeline systems.

The pipes are degreased and meet the requirements of SIS HB 370. The pipes are delivered plugged and marked, in closed packages and in lengths of 5 meters. The product is CE marked.



Program text

QMT 7410XX Medical copper tubes, straight lengths with narrow diameter tolerances according to EN 13348, EN 1057, EN ISO 7396-1, and the stricter requirements for purity according to SIS HB 370. The pipes are delivered in lengths of 5 m.

Construction

QMT Medical copper tubes, in straight lengths and with narrow diameter tolerances according to EN 13348, EN 1057, EN ISO 7396-1 and SIS HB 370. QMT's pipes are allowed to bend up to and including DN 18. For bending, EN 13348 table 7 must be used. **Note, that local regulations may exist at each hospitals regarding bending of pipes.**

The delivery length is 5 m. QMT's pipes are cleaned in an environmentally adapted, controlled and closed process. The product is labeled as below. Certificates are issued on request where the hydrocarbon content on the inside of the tube is guaranteed to be less than 2,5 mg/m². Qmt's Medical copper tubes complies with EN ISO 7396-1 and national norm SIS HB 370.

Technical specs

Extending limit	min 280 N/mm ²
Breaking limit	min 310 N/mm ²
Extension	min 5%
Hardness ca	HV 125
Density	8,94 kg/dm ³
Purity	2,5 mg/m ²
Alligation	EN 13348 / EN 1057 / CU-DHP / CW024A

Marking

Every pipe is uniqlly marked.



Dy	Tolerance outer diameter	Tolerance wall thickness
6	±0,04	±13%
8	±0,04	±13%
10	±0,04	±13%
12	±0,04	±13%
15	±0,04	±13%
18	±0,04	±13%
22	±0,06	±15%
28	±0,06	±15%
35	±0,07	±15%
42	±0,07	±15%
54	±0,07	±15%
70	±0,10	±15%
76,1	±0,15	±15%
88,9	±0,20	±15%
108	±0,70	±15%

Installation instructions

The installer must have the necessary product knowledge and knowledge of shielding gas soldering, and have undergone soldering tests in accordance with EN ISO 13585 and EN 13134. Soldering shall be done with shielding gas and with at least 5 % phosphorus copper solder without flux. Please note that the product must be kept free of oil, grease and other impurities. Sealing plugs packaging or protective packaging must not be removed until time of assembly, there may be a risk of damaging or contaminating the product. We recommend that pipe cutters be used when cutting the pipes. Cut pipes shall have the ends deburred. It is very important that the installer ensures that chips etc. that can end up in the pipes are removed after cutting and that the pipes are quickly sealed properly with plugs. Be careful that the plug does not break and cause chips.

The copper pipe must not be subjected to external forces. Suspension and connection shall be in accordance with the applicable standard. When installing against vibrating equipment or equipment that can cause vibration, pipes must be separated by elastic elements, such as hoses that meet current requirements. The installer shall ascertain that the correct gas and function are achieved by safety testing and that the installation complies with EN ISO 7396-1 and national standard SIS HB 370. The installation must be safety inspected in accordance with current standards prior to operations.

QMT-tech's assortment includes all equipment as well as individually packed fittings.

Operations

The piping system shall be subject to annual operational control in accordance with SIS HB 370. The product should not be reused, but returned or handed over to an authorized recycling company after replacement.

Warning

The use of shielding gas in medical gas systems must be carefully planned and separated from the rest of the system. After soldering has ended, the system is flushed with the medical gas (= pharmaceutical) that must be in the system, to prevent personal injury. See the hospital's instructions. Please note that electricity and gas must be kept separate from each other. Piping systems that do not have an alarm system can cause injury to person or equipment. In order to prevent gas shortages or excessive pressure drops in the gas system, plant representatives must constantly monitor gas demand and change pipe sizing should greater needs arise. The piping system must not be dimensioned in such a way that the maximum gas velocity exceeds 25 m/s.

Parts

QMT 741008	8 x 0,8
QMT 741010	10 x 1,0
QMT 741012	12 x 1,0
QMT 741015	15 x 1,0
QMT 741018	18 x 1,0
QMT 741022	22 x 1,0
QMT 741028	28 x 1,0
QMT 741035	35 x 1,5
QMT 741042	42 x 1,5
QMT 741054	54 x 1,5
QMT 741070	70 x 2,0
QMT 741076	76,1 x 2,0
QMT 741089	88,9 x 2,0
QMT 7410108	108 x 2,0



The pipes are washed and plugged. Certificates are obtained on these pipes where the hydrocarbon content is guaranteed to be below 2,5 mg/m²