Como-Pex is one of the few companies in Europe which has a vertically integrated production and the only one in Greece which is producing all the parts of its system which guarantees the total of Thermohydraulic installations. Through its affiliate EUROLIM SA is producing the fittings which cooperate to the Como-Pex system.

**Certifications**

Como-pex pipes and fittings meet and exceed the specifications set by European Standards, the internationally accepted German DIN, the Spanish UNE and the British BS standards. As a result Como-pex does not present so much as a single failure in the regular biannual tests carried out by official institutes on random samples from production and the warehouse.

The outcome of all the above is that Aqua-plus has been certified as a final product by the following organizations:

- **ISO 9001** by TÜV Germany.
- **EVETAM** Greece, SKZ Germany, AENOR Spain, CSA Canada, ZIK Croatia, PCT Russia for the mechanical strengths of the pipe.
- **MPA-NRW** Germany for oxygen permeability.
- **WRAS** Great Britain, ZIK Croatia, PCT Russia, for the suitability of Como-Pex pipes for drinking water.
- **ISS Serbia** for the suitability of Como-Pex pipes for drinking water.

Furthermore, the pipes are also checked by the State General Laboratory for their suitability for drinking water.

**Regulative manifold (with stuffing)**

The manifolds are produced from brass profile, according to the requirements of the European Norm EN 12167 and DIN 50930/6 which refers to the suitability of brass fittings for potable water installations.

The position of mechanism in the manifold body is vertical, which results in increased water supply and improved water flow.

The manifold has a battery type mechanism, so by the rotation of the raffle, the valve does not rise and fall, but only the valve, while mineral salt deposit on the O-ring is avoided. This detors the O-ring and axle wear.

**Wall plate Elbow 120°**

It is a wall plate elbow with 120° leaning, which facilitate the installer’s intervention, in case of replacement of the brass part or the pipe line entirely.

By using the suspension in the lower part of the elbow, it is managed not to have a water flow out of the protection corrugated pipe in case of leakage.

**Brass bar manifold**

The manifolds are produced from brass profile alloy CW614N, according the requirements of the European Norm EN 12167 and DIN 50930/6. They are produced in dimensions of 3/4”, 1” and 1 1/4”, from 2-12 outlets of 1/2”. The brass threads are made according to EN ISO 228. The product has low hardness for being more durable to mechanical stress and distinguished for its big wall thickness.

**Electric valve**

The Flash Valve electro-valve is produced with strict European criteria following the EU specifications (instruction application EU73/23) labeled CE, certified from Labor SA laboratory. The engine is Cruzet and wears an embodied ratchet type mechanical break.

The Flash Valve electro-valve has a torque of 17,9Nm, certified according to “Pony Brake”, which giras the ball valve even in very tough conditions resulting not having any engine problem.

**Brass Fittings**

They are produced from high quality alloy and are covering all requirements of European and German specifications. Specifically for the extensions, the raw material has been thermally processed in order to reach the appropriate hardness and to minimize the possibility of season cracking.
Temperature peaks of 110°C in 4 bars of working pressure do not affect Como-PEX pipes.

Due to their cross linked structure, Como-PEX pipes have thermal memory which allows them to recover in their first structure after a thermal stress. In other words, the internal structure of the material “remembers” the initial form that has been given during its production.

Como-PEX pipes are featuring great durability by aging in connection to high temperature and pressure conditions. The lifetime diagram confirms the excellent performance of the pipes, in the case they are used according to manufacturer’s specifications and suggestions.

Como-PEX pipes are durable, flexible and totally reliable for water supply and heating installations. Como-PEX pipes are produced with or without oxygen barrier and are exceeding the European standard EN ISO 15875 and the German ones DIN 18092/16893.

The pipes with oxygen barrier coating are responding to DIN 4728 and are specially designed for applications in heating installations. The external layer EVOH does not allow oxygen to penetrate the pipe and start corrosion in the metallic parts of the system.

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**Polyethylene behaviour to potable water**

**PE** is a material that is not reacting with water or its components (totally dormant), is not polluting with any chemical product which can harm the water quality, microbial and bacterial factors are not developed in its surface. This shows no corrosion by chemical factors, cement, calcium or acidic water. Features very tiny roughness (surface irregularities average rate in mm), having as result pipes and fittings to be protected from the water abrasion to the internal surface of pipe, while the rate of pressure drop is very low. For all these reasons, Greenspace, as it can be seen in the table below, also other corresponding environmental non-state organizations, are propinng this type of plastic pipes for urban and residential water supply networks, because they have low energy footprint, provide clean potable water without detrimental components and same time do not have corrosion problems as the metal ones. They even propose as first choice the use of plastic pipes PEX-a, PEX-b and Polybutylene (PB) for the water supply installations.

PEX pipes are safely and reliably used for 40 years all over the world. They are designed for a lifetime of more than 50 years, for temperatures up to 95°C and working pressure from 6 to 10 bar.

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