



POLYPROPYLENE THE STABLE ALTERNATIVE
INSTEAD OF STEEL
IN PLANT CONSTRUCTION



aquatherm

state of the pipe



Price fluctuations are rarely positive in business. Prices for the raw materials of copper and steel have almost doubled within the last 11 months. The construction industry and its customers are confronted with this price volatility when steel piping systems are used within building services engineering.

PRICES FOR **STEEL**
FLUCTUATE



SUPPLY PRODUCTION CAPACITIES **DEMAND STATE OF THE** NATURAL DISASTERS **GLOBAL ECONOMY**

Factors influencing fluctuating commodity prices.



Rising steel prices on the world market in 2020 have led to double-digit inflation surcharges being imposed on numerous products at the beginning of 2021.

In addition, there are supply bottlenecks that can result in delivery delays of several months.

AVOID UNCERTAINTIES **WHEN CHOOSING POLYPROPYLENE**

price stability, durability and CO₂ footprint. The price of PP pipes remains stable and predictable. Engineers designing HVAC/P systems and contractors bidding on them can be assured that the price of PP pipes will not fluctuate due to changes in the commodity markets.

Given the uncertainties and price volatility of the steel market, polypropylene (PP) pipes are the safest alternative, considering





At a time when price fluctuations and other unpredictable factors negatively affect the use of steel pipes, it is a great advantage if the total cost of a pipe installation remains predictable. However, stable pricing is only one of the many advantages that PP pipes offer over steel. Significantly lighter weight, longer service life and virtually leak-free joints are among some of the advantages.



UNLIKE METAL
PP-R
DOES NOT
CALCIFY OR CORRODE

LESS

CO₂

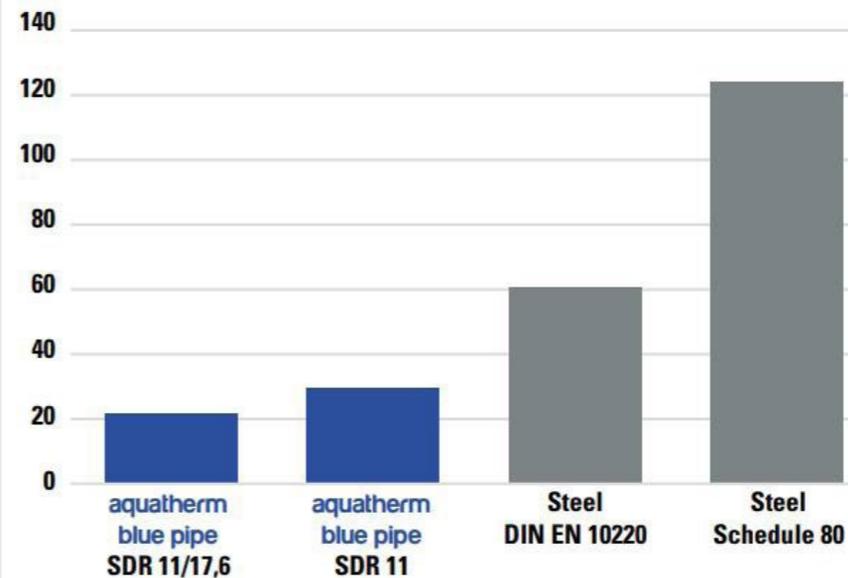
EMISSIONS

Polypropylene reduces our carbon footprint on the planet:

For example, the manufacture of a PP cooling water system in ship-building produces only one sixth of the harmful CO₂ emissions compared to a steel system.

CO₂ EMISSION (TONS)* FOR PP AND STEEL PIPES BASED ON THE CHILLED WATER SYSTEM FOR A SHIP WITH APP. 200 CABINS

(approx. 5700 m pipe in 32-355 mm)



*Source: CO₂ emissions for PP (1.70 kg/kg) are based on EU Plastics Association and for Steel (1.54 kg/kg) on Fraunhofer Institut

HEAT FUSION BENEFITS

No open flame, no flying sparks: aquatherm products are superior to steel in their connection technology. The pipe and fitting are briefly heated using thermal fusion tooling and then simply joined together creating a fully homogeneous, cohesive and permanently safe connection.





With aquatherm prefabrication, installers save time and money on site. aquatherm plans and builds manifolds and special components directly in its own factory according to customers' specifications and ships them ready for installation anywhere in the world.

DELIVERED
AS
PLANNED

TRUST THE GLOBAL LEADER

Not all PP pipes are the same. That is why, for almost 50 years, customers worldwide have trusted aquatherm, the world's leading manufacturer of plastic piping systems made of polypropylene for plant construction and building services.





In an ever-changing business climate where prices for metal pipe systems change frequently and new market entrants come and go, aquatherm consistently helps contractors, engineers, facility managers and building owners maintain their competitive edge. To manufacture safe and innovative piping systems

"Made in Germany": That is our promise.



Made

in

Germany



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