the pipe may additionally be provided with a reinforcing skeleton, termed a carcass in the art.

The invention has for its object to remedy or reduce at least one of the drawbacks of the prior art or at least provide a useful alternative to the prior art.

The object is achieved through features which are specified in the description below and in the claims that follow.

The invention relates to the manufacturing of an endless multilayer pipeline which is suitable for transporting oil and gas offshore and onshore. The invention also relates to an endless or continuous multilayer pipeline which has a smaller bending radius than pipe strings in metal. The invention also relates to an apparatus for manufacturing such an endless multilayer pipeline that is suitable for transporting oil and gas.

In a first aspect, the invention relates to an endless multilayer pipeline including at least:
- an inner fluid-tight ply formed of a first thermoplastic polymer material;
- an inner fibre-reinforced thermoplastic polymer ply including a wrapped fibre-reinforcement and surrounding the inner fluid-tight ply;
- a first intermediate ply formed of a second thermoplastic polymer material;
- an outer fibre-reinforced thermoplastic polymer ply including a wrapped fibre-reinforcement, wherein at least one of the inner fibre-reinforced thermoplastic polymer ply and the outer fibre-reinforced thermoplastic polymer ply includes at least one fibre-containing layer and one reinforcement-free layer.

The first intermediate ply may be formed of an expanded thermoplastic polymer material. The first intermediate ply ~~may be~~is provided with at least one channel oriented axially. The multilayer pipeline may further include a second intermediate ply formed of a third thermoplastic polymer material. The second intermediate ply may be provided with at least one channel oriented axially. The cross section of the channel may be substantially circular. The cross section of the channel may be substantially oblong. The cross section of the channel may be substantially trapezoidal.

The second intermediate ply may be provided with at least one heating element oriented axially.

The wrapped fibre reinforcement ~~may~~ includes at least one fibre tape.