Title (en)

JOINING OF REINFORCED THERMOPLASTIC PIPE (RTP) FOR HIGH PRESSURE TRANSPORTATION APPLICATIONS

Title (de)

VERFAHREN ZUM VERBINDEN VON VERSTÄRKTEN THERMOPLASTISCHEN ROHREN FÜR HOCHDRUCKTRANSPORTANWENDUNGEN

Title (fr)

ASSEMBLAGE DE TUBES RENFORCES EN THERMOPLASTIQUE POUR APPLICATIONS DE TRANSPORT HAUTE PRESSION

Publication

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Application

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Abstract (en)

[origin: GB2347892A] An electrofusion coupler 14 suitable for joining the ends of one reinforced thermoplastic pipe 10 to an adjacent and axially aligned end of another reinforced thermoplastic pipe 12, comprises an annular body to surround the adjacent ends of the pipes to be joined and heating element 18, 20 to weld the inside surface of the annular body of the coupler to the plastics material of the outside surface of the pipes, wherein the coupler is provided with axial reinforcement 24. The reinforcement 24 may be in the form of a sleeve 22 having flanges 24 arranged to engage the axial ends of the coupler 14. The sleeve 22 may be made of steel, or of any suitable material such as composite, plastics or ceramic. The reinforcement may also be in the form of a mesh or a cage made from metal, plastics or ceramic, and may be secured inside the coupler (see 62 in Figure 8), or at points along the external length of the coupler. Alternatively the reinforcement may be a bracket in the form of a ring (64, Figure 9) placed at each axial end of the coupler and provided with two or more circumferentially spaced rods (66, Figure 9). A joint and method of making the joint using the coupler are also disclosed.

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