

EU RO Mutual Recognition Technical Requirements

Technical Interpretation (MR TI)

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|--|---|---------------------------|------------|
| MR TI Ref: TI005 | Relating to MR Technical Requirements for: PLASTIC PIPING SYSTEMS (COMPONENTS) <i>(Version 0.3 adopted on 01 April 2016)</i> | MR TI Version | 0.0 |
| | | MR TI Status | Released |
| | | MR TI Date of Issue | 31.08.2016 |
| | | Tier | 2 |
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Background:

From application of the MR TR for Plastic Piping Systems (components) (Rev. 0.3 adopted on 01/04/2016), a request for clarification (RfC005) on some type testing requirements mentioned in paragraph [2.b] has been submitted to the TC. In particular the following questions have been made:

- (a) Are the following tests required to be carried out in all cases?
- Collapse test in all cases (external pressure strength), even if the plastic pipe is not intended to be used for vacuum conditions inside the pipe or under a head of liquid acting on the outside of the pipe;
 - Bonding qualification tests to qualify procedure for making bonds in all cases, even if only straight pipes and no fittings are to be covered by the EU MR TA.
- (b) Is it required to submit a procedure for making bonds in all cases, even if only straight pipes are concerned by the EU MR TA?

EU RO MR Technical Committee Response:

First of all, a clarification on the applicability of the TR is deemed necessary. According to paragraph [1.b] the TR for Plastic Piping Systems (components) is applicable to '*pipng systems with parts made of rigid plastic*'. The definition of piping systems is given in paragraph [1.a]. This TR can be applied only in case of request for certification of piping systems including components (i.e.: straight pipe lengths, fittings, joints, internal and external liners, coverings and coatings required to comply with the performance criteria). Therefore EU RO MR certification of straight pipes alone is not permitted.

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Regarding the collapse test, paragraph [2.a.i.2] b) says that external pressure is *'to be considered for any installation subject to vacuum conditions inside the pipe or a head of liquid acting on the outside of the pipe'*.

The interpretation is that collapse test is required to be carried out only for piping systems designed for those kinds of installations. Clear indication should be given in the TAC regarding the use limitation, when the collapse test is not required.

Regarding the question if bonding test for the qualification of the procedure for joining pipes with other pipes and fittings is always required, the following points are to be considered:

- (a) MR TAC is only applicable to certification of piping systems, not pipes or fittings alone;
- (b) Internal pressure test is always to be carried out on spools made of different pipe sizes, fittings and pipe connections (ref. to Table 1 of the TR), bonded together according to a defined procedure;
- (c) Performance of each installation of piping system depends on bonding procedure.

Based on above, the interpretation is that the bonding procedure prepared by the Manufacturer shall be included in the technical documentation to be submitted for approval and the bonding qualification test is always to be carried out in the ambit of type tests required for MR certification of plastic piping systems components.

MR TI APPROVAL DATE AND REVISION NUMBER

| Date | Revision | Comment |
|------|----------|---------|
| | 0.0 | |

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