

TOLERANCES

HAKATHEN MMP in a protective/corrugated pipe



| Article | Dimension | Aluminium | Ø Outer | Tolerance | Ø Inner | Tolerance | Wall thick-ness | Tolerance | Ovalitiy bars *) | Ovalitiy coils *) |
|---|-------------------|-------------------|------------|------------|------------|------------|-----------------|------------|------------------|-------------------|
| | Nominal dimension | Nominal thickness | PipeTest | | PipeTest | | PipeTest | | PipeTest | PipeTest |
| <i>MMP</i> <i>in a protective/ corrugated pipe</i> | 10.0 x 1.30 | 0.20 | 10.00 | +0.20 / -0 | 7.20 | +0.20 / -0 | 1.30 | +0.20 / -0 | max. 0.35 | max. 0.50 |
| | 11.6 x 1.50 | 0.20 | 11.40 | +0.20 / -0 | 8.20 | +0.20 / -0 | 1.50 | +0.20 / -0 | max. 0.35 | max. 0.50 |
| | 12.0 x 1.80 | 0.20 | 12.00 | +0.20 / -0 | 8.20 | +0.20 / -0 | 1.80 | +0.20 / -0 | max. 0.35 | max. 0.50 |
| | 14.0 x 2.00 | 0.18 | 14.00 | +0.30 / -0 | 9.70 | +0.30 / -0 | 2.00 | +0.30 / -0 | max. 1.00 | max. 1.80 |
| | 16.0 x 2.00 | 0.18 | 16.00 | +0.20 / -0 | 11.80 | +0.20 / -0 | 2.00 | +0.20 / -0 | max. 0.75 | max. 0.90 |
| | 16.0 x 2.00 | 0.2 | 16.00 | +0.30 / -0 | 11.70 | +0.30 / -0 | 2.00 | +0.30 / -0 | max. 1.00 | max. 1.80 |
| | 16.0 x 2.00 | 0.40 | 16.00 | +0.20 / -0 | 11.80 | +0.20 / -0 | 2.00 | +0.20 / -0 | max. 0.75 | max. 0.90 |
| | 16.0 x 2.25 | 0.20 | 16.00 | +0.20 / -0 | 11.30 | +0.20 / -0 | 2.25 | +0.20 / -0 | max. 0.75 | max. 0.90 |
| | 16.0 x 2.25 | 0.40 | 16.00 | +0.20 / -0 | 11.30 | +0.20 / -0 | 2.25 | +0.20 / -0 | max. 0.75 | max. 0.90 |
| | 17.0 x 2.00 | 0.20 | 17.00 | +0.20 / -0 | 12.80 | +0.20 / -0 | 2.00 | +0.20 / -0 | max. 0.80 | max. 1.00 |
| | 18.0 x 2.00 | 0.25 | 18.00 | +0.20 / -0 | 13.80 | +0.20 / -0 | 2.00 | +0.20 / -0 | max. 0.90 | max. 1.10 |
| | 20.0 x 2.00 | 0.25 | 20.00 | +0.30 / -0 | 15.70 | +0.30 / -0 | 2.00 | +0.30 / -0 | max. 1.20 | max. 2.00 |
| | 20.0 x 2.00 | 0.40 | 20.00 | +0.20 / -0 | 15.80 | +0.20 / -0 | 2.00 | +0.20 / -0 | max. 1.00 | max. 1.20 |
| | 20.0 x 2.25 | 0.25 | 20.00 | +0.20 / -0 | 15.30 | +0.20 / -0 | 2.25 | +0.20 / -0 | max. 1.00 | max. 1.20 |
| | 20.0 x 2.25 | 0.40 | 20.00 | +0.20 / -0 | 15.30 | +0.20 / -0 | 2.25 | +0.20 / -0 | max. 1.00 | max. 1.20 |
| | 20.0 x 2.50 | 0.25 | 20.00 | +0.20 / -0 | 14.80 | +0.20 / -0 | 2.50 | +0.20 / -0 | max. 1.00 | max. 1.20 |
| | 20.0 x 2.50 | 0.40 | 20.00 | +0.20 / -0 | 14.80 | +0.20 / -0 | 2.50 | +0.20 / -0 | max. 1.00 | max. 1.20 |
| | 25.0 x 2.50 | 0.35 | 25.00 | +0.30 / -0 | 19.70 | +0.30 / -0 | 2.50 | +0.30 / -0 | max. 1.20 | max. 2.00 |
| | 25.0 x 2.50 | 0.50 | 25.00 | +0.25 / -0 | 19.80 | +0.30 / -0 | 2.50 | +0.25 / -0 | max. 1.10 | max. 1.40 |
| | 26.0 x 3.00 | 0.35 | 26.00 | +0.25 / -0 | 19.80 | +0.30 / -0 | 3.00 | +0.25 / -0 | max. 1.10 | max. 1.60 |
| 26.0 x 3.00 | 0.50 | 26.00 | +0.25 / -0 | 19.80 | +0.30 / -0 | 3.00 | +0.25 / -0 | max. 1.20 | max. 1.60 | |
| 32.0 x 3.00 | 0.50 | 32.00 | +0.25 / -0 | 25.80 | +0.30 / -0 | 3.00 | +0.25 / -0 | max. 1.30 | max. 1.80 | |
| 40.0 x 3.50 | 0.50 | 40.00 | +0.25 / -0 | 32.80 | +0.30 / -0 | 3.50 | +0.25 / -0 | max. 1.40 | max. 2.00 | |
| 50.0 x 4.00 | 0.60 | 50.00 | +0.40 / -0 | 41.80 | +0.40 / -0 | 4.00 | +0.40 / -0 | max. 1.50 | --- | |
| 63.0 x 4.50 | 0.80 | 62.80 | +0.40 / -0 | 53.30 | +0.60 / -0 | 4.50 | +0.40 / -0 | max. 1.60 | --- | |

*) Reference values

All dimensions and tolerances measured according to HakaGerodur / Gerodur guidelines