

# TECHNICAL DATA



Threaded rod **FIS A**

|                          | zinc plated,<br>steel grade<br>5.8<br>Art.-No. | zinc plated,<br>steel grade<br>8.8<br>Art.-No. | stainless<br>steel<br>Art.-No. | Approval<br>ETA | Drill hole diameter<br>$d_0$<br>[mm] | min. / max. ancho-<br>ring depth<br>[mm] | min. / max. usable<br>length<br>[mm] | min. / max. filling<br>quantity FIS SB<br>[scale units] | Sales unit<br>[pcs] |
|--------------------------|--|--|--------------------------------|-----------------|--------------------------------------|--|--------------------------------------|---|---------------------|
| Item                     | gvz  | gvz  | A4                             |                 |                                      |  |                                      |   |                     |
| <b>FIS A M 8 x 90</b>    | <b>090274</b>                                  | <b>519390</b>                                  | <b>090440</b>                  | ■               | 10                                   | 60 / 78                                  | 1 / 19                               | 2 / 3   | 10                  |
| <b>FIS A M 8 x 110</b>   | <b>090275</b>                                  | <b>519391</b>                                  | <b>090441</b>                  | ■               | 10                                   | 60 / 98                                  | 1 / 39                               | 2 / 3   | 10                  |
| <b>FIS A M 8 x 130</b>   | <b>090276</b>                                  | <b>519392</b>                                  | <b>090442</b>                  | ■               | 10                                   | 60 / 118                                 | 1 / 59                               | 2 / 4   | 10                  |
| <b>FIS A M 8 x 175</b>   | <b>090277</b>                                  | <b>519393</b>                                  | <b>090443</b>                  | ■               | 10                                   | 60 / 160                                 | 4 / 104                              | 2 / 5   | 10                  |
| <b>FIS A M 8 x 1000</b>  | <b>509214</b> 1)                               | —  | <b>509230</b> 1)               | ■               | 10                                   | 60 / 160                                 | —                                    | 2 / 5   | 10                  |
| <b>FIS A M 10 x 110</b>  | <b>090278</b>                                  | —  | <b>090444</b>                  | ■               | 12                                   | 60 / 96                                  | 1 / 37                               | 3 / 4   | 10                  |
| <b>FIS A M 10 x 130</b>  | <b>090279</b>                                  | —  | <b>090447</b>                  | ■               | 12                                   | 60 / 116                                 | 1 / 57                               | 3 / 5   | 10                  |
| <b>FIS A M 10 x 150</b>  | <b>090281</b>                                  | <b>517935</b>                                  | <b>090448</b>                  | ■               | 12                                   | 60 / 136                                 | 1 / 77                               | 3 / 5   | 10                  |
| <b>FIS A M 10 x 170</b>  | <b>044969</b>                                  | <b>519395</b>                                  | <b>044973</b>                  | ■               | 12                                   | 60 / 156                                 | 1 / 97                               | 3 / 6   | 10                  |
| <b>FIS A M 10 x 190</b>  | —  | <b>517936</b>                                  | <b>519420</b>                  | ■               | 12                                   | 60 / 176                                 | 1 / 117                              | 3 / 7   | 10                  |
| <b>FIS A M 10 x 200</b>  | <b>090282</b>                                  | <b>519396</b>                                  | <b>090449</b>                  | ■               | 12                                   | 60 / 186                                 | 1 / 127                              | 3 / 7   | 10                  |
| <b>FIS A M 10 x 1000</b> | <b>509215</b> 1)                               | <b>509223</b> 1)                               | <b>509231</b> 1)               | ■               | 12                                   | 60 / 200                                 | —                                    | 3 / 7   | 10                  |
| <b>FIS A M 12 x 120</b>  | <b>044971</b>                                  | <b>519397</b>                                  | <b>044974</b>                  | ■               | 14                                   | 70 / 103                                 | 1 / 34                               | 3 / 5   | 10                  |
| <b>FIS A M 12 x 140</b>  | <b>090283</b>                                  | <b>519398</b>                                  | <b>090450</b>                  | ■               | 14                                   | 70 / 123                                 | 1 / 54                               | 3 / 6   | 10                  |
| <b>FIS A M 12 x 160</b>  | <b>090284</b>                                  | <b>517937</b>                                  | <b>090451</b>                  | ■               | 14                                   | 70 / 143                                 | 1 / 74                               | 3 / 7   | 10                  |
| <b>FIS A M 12 x 180</b>  | <b>090285</b>                                  | <b>519399</b>                                  | <b>090452</b>                  | ■               | 14                                   | 70 / 163                                 | 1 / 94                               | 3 / 7   | 10                  |
| <b>FIS A M 12 x 200</b>  | —  | <b>517938</b>                                  | <b>519421</b>                  | ■               | 14                                   | 70 / 183                                 | 1 / 114                              | 3 / 8   | 10                  |
| <b>FIS A M 12 x 210</b>  | <b>090286</b>                                  | —  | <b>090453</b>                  | ■               | 14                                   | 70 / 193                                 | 1 / 124                              | 3 / 9   | 10                  |
| <b>FIS A M 12 x 260</b>  | <b>090287</b>                                  | —  | <b>090454</b>                  | ■               | 14                                   | 70 / 240                                 | 4 / 174                              | 3 / 10  | 10                  |
| <b>FIS A M 12 x 1000</b> | <b>509216</b> 1)                               | <b>509224</b> 1)                               | <b>509232</b> 1)               | ■               | 14                                   | 70 / 240                                 | —                                    | 3 / 10  | 10                  |
| <b>FIS A M 16 x 130</b>  | <b>044972</b>                                  | <b>519400</b>                                  | <b>044975</b>                  | ■               | 18                                   | 80 / 109                                 | 1 / 30                               | 5 / 7   | 10                  |
| <b>FIS A M 16 x 175</b>  | <b>090288</b>                                  | <b>519401</b>                                  | <b>090455</b>                  | ■               | 18                                   | 80 / 154                                 | 1 / 75                               | 5 / 10  | 10                  |
| <b>FIS A M 16 x 200</b>  | <b>090289</b>                                  | <b>517939</b>                                  | <b>090456</b>                  | ■               | 18                                   | 80 / 179                                 | 1 / 100                              | 5 / 11  | 10                  |
| <b>FIS A M 16 x 250</b>  | <b>090290</b>                                  | <b>517940</b>                                  | <b>090457</b>                  | ■               | 18                                   | 80 / 229                                 | 1 / 150                              | 5 / 14  | 10                  |
| <b>FIS A M 16 x 300</b>  | <b>090291</b>                                  | <b>519402</b>                                  | <b>090458</b>                  | ■               | 18                                   | 80 / 279                                 | 1 / 200                              | 5 / 17  | 10                  |
| <b>FIS A M 16 x 1000</b> | <b>509217</b> 1)                               | <b>509225</b> 1)                               | <b>509233</b> 1)               | ■               | 18                                   | 80 / 320                                 | —                                    | 5 / 19  | 10                  |
| <b>FIS A M 20 x 245</b>  | <b>090292</b>                                  | <b>519404</b>                                  | <b>090459</b>                  | ■               | 24                                   | 90 / 220                                 | 1 / 131                              | 11 / 28   | 10                  |
| <b>FIS A M 20 x 290</b>  | <b>090293</b>                                  | <b>519406</b>                                  | <b>090460</b>                  | ■               | 24                                   | 90 / 265                                 | 1 / 176                              | 11 / 32   | 10                  |
| <b>FIS A M 20 x 1000</b> | —  | <b>519410</b> 1)                               | <b>519427</b> 1)               | ■               | 24                                   | 90 / 400                                 | —                                    | 11 / 48   | 10                  |
| <b>FIS A M 24 x 290</b>  | <b>090294</b>                                  | —  | <b>090461</b>                  | ■               | 28                                   | 96 / 260                                 | 1 / 165                              | 15 / 39   | 5                   |
| <b>FIS A M 24 x 380</b>  | <b>090295</b>                                  | —  | <b>090462</b>                  | ■               | 28                                   | 96 / 350                                 | 1 / 255                              | 15 / 52   | 5                   |
| <b>FIS A M 30 x 340</b>  | <b>090296</b>                                  | —  | <b>090463</b>                  | ■               | 35                                   | 120 / 304                                | 1 / 185                              | 28 / 67   | 5                   |
| <b>FIS A M 30 x 430</b>  | <b>090297</b>                                  | —  | <b>090464</b>                  | ■               | 35                                   | 120 / 394                                | 1 / 275                              | 28 / 88   | 5                   |

1) Order washer and nut separately.