



**TFE... MKB**  
**TFE... T-2RS**  
**TFE... T-2RS MAG.**

BALL JOINT ENDS

DIN 648, E SERIES - ISO 6126  
 MAINTENANCE FREE

COUPLING: STEEL ON PTFE  
 STEEL END C45



| ARTICLE (*)           | d  | TOLERANCES |           | S  | D4   | I   | D1  | S1  | L     | L1   | LF  | F        | LOAD FACTORS  |              | RADIAL CLEARANCE | SWINGING ANGLE $\alpha$ | WEIGHT Kg. |
|-----------------------|----|------------|-----------|----|------|-----|-----|-----|-------|------|-----|----------|---------------|--------------|------------------|-------------------------|------------|
|                       |    | d          | S         |    |      |     |     |     |       |      |     |          | Dynamic $C_c$ | Static $C_0$ |                  |                         |            |
|                       |    | mm.        |           |    |      |     |     |     |       |      |     |          |               |              |                  |                         |            |
| TFE 6 MKB             | 6  | 0 ÷ +0.008 | 0 ÷ -0.12 | 6  | 8    | 36  | 21  | 4.3 | 46.5  | 12   | 18  | M 6X1    | 3.6           | 8.1          | 0 - 0.032        | 13                      | 0.01       |
| TFE 8 MKB             | 8  | 0 ÷ +0.008 | 0 ÷ -0.12 | 8  | 10.2 | 42  | 24  | 6   | 54    | 14   | 22  | M 8X1.25 | 5.8           | 12.9         | 0 - 0.032        | 15                      | 0.03       |
| TFE 10 MKB            | 10 | 0 ÷ +0.008 | 0 ÷ -0.12 | 9  | 13.2 | 48  | 29  | 7   | 62.5  | 15   | 27  | M10X1.5  | 8.6           | 17.6         | 0 - 0.032        | 12                      | 0.05       |
| TFE 12 MKB            | 12 | 0 ÷ +0.008 | 0 ÷ -0.12 | 10 | 15   | 54  | 34  | 8   | 71    | 19   | 30  | M12X1.75 | 11.4          | 24.5         | 0 - 0.032        | 11                      | 0.08       |
| TFE 15 MKB            | 15 | 0 ÷ +0.008 | 0 ÷ -0.12 | 12 | 18.4 | 63  | 40  | 10  | 83    | 20   | 34  | M14X2    | 17.6          | 36           | 0 - 0.040        | 8                       | 0.14       |
| TFE 17 MKB (T-2RS)    | 17 | 0 ÷ +0.008 | 0 ÷ -0.12 | 14 | 20.7 | 69  | 46  | 11  | 92    | 23   | 36  | M16X2    | 22.4          | 45           | 0 - 0.040        | 10                      | 0.19       |
| TFE 20 MKB (T-2RS)    | 20 | 0 ÷ +0.010 | 0 ÷ -0.12 | 16 | 24.1 | 78  | 53  | 13  | 104.5 | 27.5 | 43  | M20X1.5  | 31.5          | 60           | 0 - 0.040        | 9                       | 0.31       |
| TFE 25 MKB (T-2RS)    | 25 | 0 ÷ +0.010 | 0 ÷ -0.12 | 20 | 29.3 | 94  | 64  | 17  | 126   | 33   | 53  | M24X2    | 51            | 83           | 0 - 0.050        | 7                       | 0.56       |
| TFE 30 MKB (T-2RS)    | 30 | 0 ÷ +0.010 | 0 ÷ -0.12 | 22 | 34.2 | 110 | 73  | 19  | 146.5 | 37   | 65  | M30X2    | 65.5          | 110          | 0 - 0.050        | 6                       | 0.89       |
| TFE 35 T-2RS          | 35 | 0 ÷ +0.012 | 0 ÷ -0.12 | 25 | 39.7 | 140 | 82  | 21  | 181   | 43   | 82  | M36X3    | 112           | 146          | 0 - 0.050        | 6                       | 1.40       |
| TFE 40 T-2RS          | 40 | 0 ÷ +0.012 | 0 ÷ -0.12 | 28 | 45   | 150 | 92  | 23  | 196   | 48   | 86  | M39X3    | 140           | 180          | 0 - 0.060        | 7                       | 1.80       |
| TFE 45 T-2RS          | 45 | 0 ÷ +0.012 | 0 ÷ -0.12 | 32 | 50.7 | 163 | 102 | 27  | 218   | 52   | 94  | M42X3    | 180           | 240          | 0 - 0.060        | 7                       | 2.60       |
| TFE 50 T-2RS          | 50 | 0 ÷ +0.012 | 0 ÷ -0.12 | 35 | 56   | 185 | 112 | 30  | 241   | 60   | 106 | M45X3    | 220           | 290          | 0 - 0.060        | 6                       | 3.40       |
| TFE 60 T-2RS          | 60 | 0 ÷ +0.015 | 0 ÷ -0.15 | 44 | 66.8 | 210 | 135 | 38  | 277.5 | 75   | 115 | M52X3    | 345           | 450          | 0 - 0.060        | 6                       | 5.90       |
| TFE 70 T-2RS          | 70 | 0 ÷ +0.015 | 0 ÷ -0.15 | 49 | 77.8 | 235 | 160 | 42  | 315   | 87   | 125 | M56X4    | 440           | 610          | 0 - 0.072        | 6                       | 8.20       |
| TFE 80 T-2RS          | 80 | 0 ÷ +0.015 | 0 ÷ -0.15 | 55 | 89.4 | 270 | 180 | 47  | 360   | 100  | 140 | M64X4    | 570           | 750          | 0 - 0.072        | 6                       | 12.00      |
| HIGHER THREAD VERSION |    |            |           |    |      |     |     |     |       |      |     |          | 180           |              |                  |                         |            |
| TFE 40 T-2RS MAG.     | 40 | 0 ÷ +0.012 | 0 ÷ -0.12 | 8  | 45   | 150 | 92  | 23  | 196   | 48   | 86  | M42X3    | 140           |              | 0 - 0.060        | 7                       | 1.85       |
| TFE 45 T-2RS MAG.     | 45 | 0 ÷ +0.012 | 0 ÷ -0.12 | 32 | 50.7 | 163 | 102 | 27  | 218   | 52   | 94  | M45X3    | 180           | 240          | 0 - 0.060        | 7                       | 2.66       |
| TFE 50 T-2RS MAG.     | 50 | 0 ÷ +0.012 | 0 ÷ -0.12 | 35 | 56   | 185 | 112 | 30  | 241   | 60   | 106 | M52X3    | 220           | 290          | 0 - 0.060        | 6                       | 3.50       |
| TFE 60 T-2RS MAG.     | 60 | 0 ÷ +0.015 | 0 ÷ -0.15 | 44 | 66.8 | 210 | 135 | 38  | 277.5 | 75   | 115 | M60X4    | 345           | 450          | 0 - 0.060        | 6                       | 6.02       |
| TFE 70 T-2RS MAG.     | 70 | 0 ÷ +0.015 | 0 ÷ -0.15 | 49 | 77.8 | 235 | 160 | 42  | 315   | 87   | 125 | M72X4    | 440           | 610          | 0 - 0.072        | 6                       | 8.38       |
| TFE 80 T-2RS MAG.     | 80 | 0 ÷ +0.015 | 0 ÷ -0.15 | 55 | 89.4 | 270 | 180 | 47  | 360   | 100  | 140 | M80X4    | 570           | 750          | 0 - 0.072        | 6                       | 12.20      |

(\*) When requiring a left-end threading, add the letter "L" in the article code, e.g. TFE L... . Availability and prices upon request.