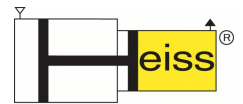
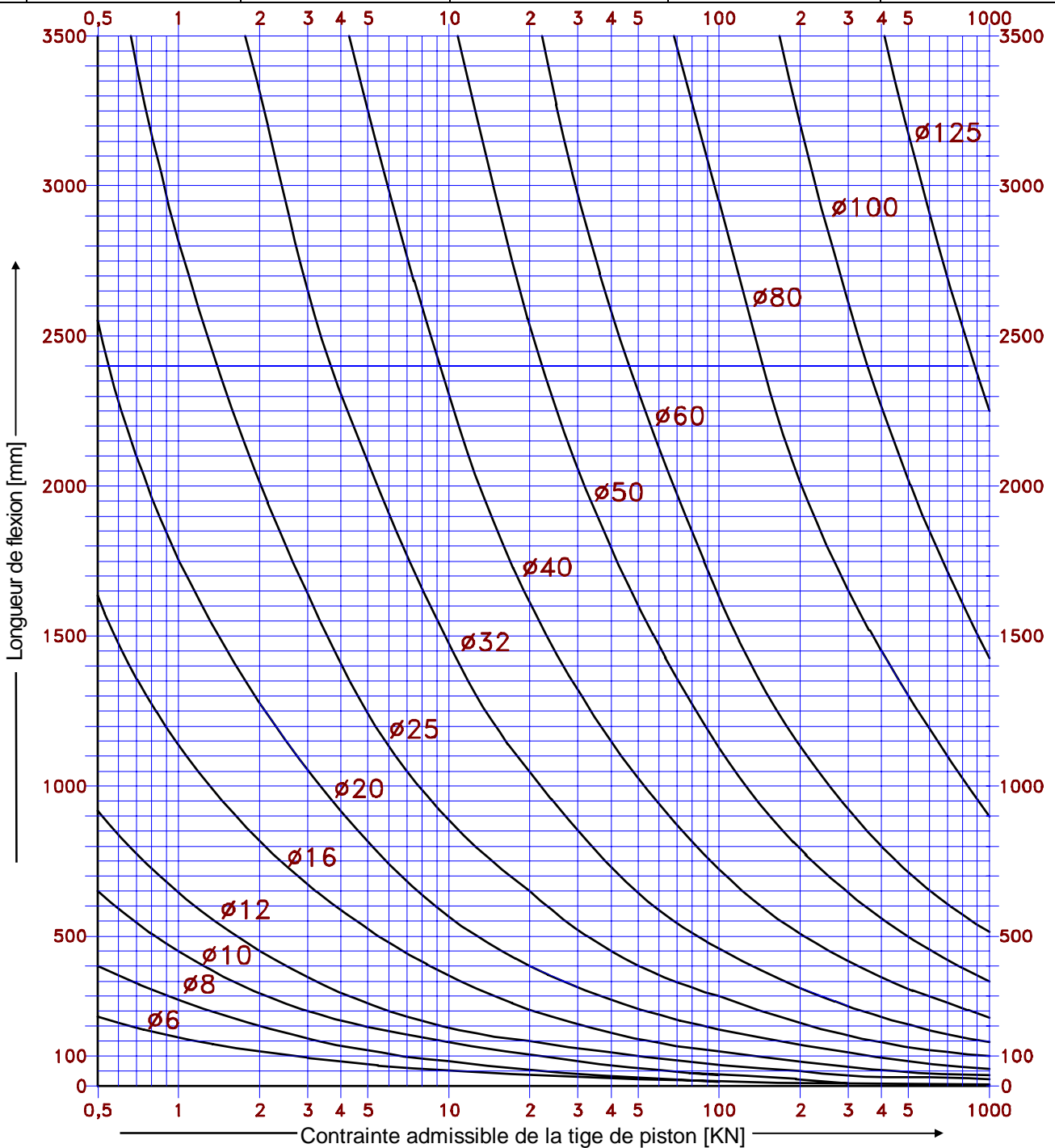


# Diagramme de résistance à la flexion



| Cas de contrainte d'après Euler |                   |              |                                 |                         |                            |              |                                 |              | Formules de calcul approché :  |
|---------------------------------|-------------------|--------------|---------------------------------|-------------------------|----------------------------|--------------|---------------------------------|--------------|--|
| Cas 1                           |                   | Cas 2        |                                 | Cas 3                   |                            | Cas 4        |                                 |              |  |
| Type de montage                 |                   |              |                                 |                         |                            |              |                                 |              | $l_{k\max} = 4,51 \cdot \sqrt{\frac{d^4}{F}}$<br>$d_{\text{erf}} = 0,471 \cdot \sqrt[4]{l_k^2 \cdot F}$<br>$F_{\max} = 20,35 \cdot \frac{d^4}{l_k^2}$<br>Sécurité $\nu = 5$<br>$E = 210000 \text{ N/mm}^2$ |
|                                 | Forme             | 111-2<br>117 | 110-1<br>111/111-1<br>112/112-1 | 116<br>218 / 219<br>225 | 114/114-1<br>115           | 111-2<br>117 | 110-1<br>111/111-1<br>112/112-1 | 111-2<br>117 |  |
|                                 | $l_k = 2 \cdot l$ |              | $l_k = l$                       |                         | $l_k = l \cdot \sqrt{0,5}$ |              | $l_k = 0,5 \cdot l$             |              | $l_k \dots$ long. flexion [mm]<br>$d \dots$ Ø tige [mm]<br>$F \dots$ force piston KN]  |



Revision B \* 15.11.1996 \*K.E.