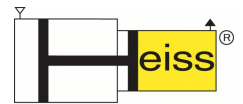
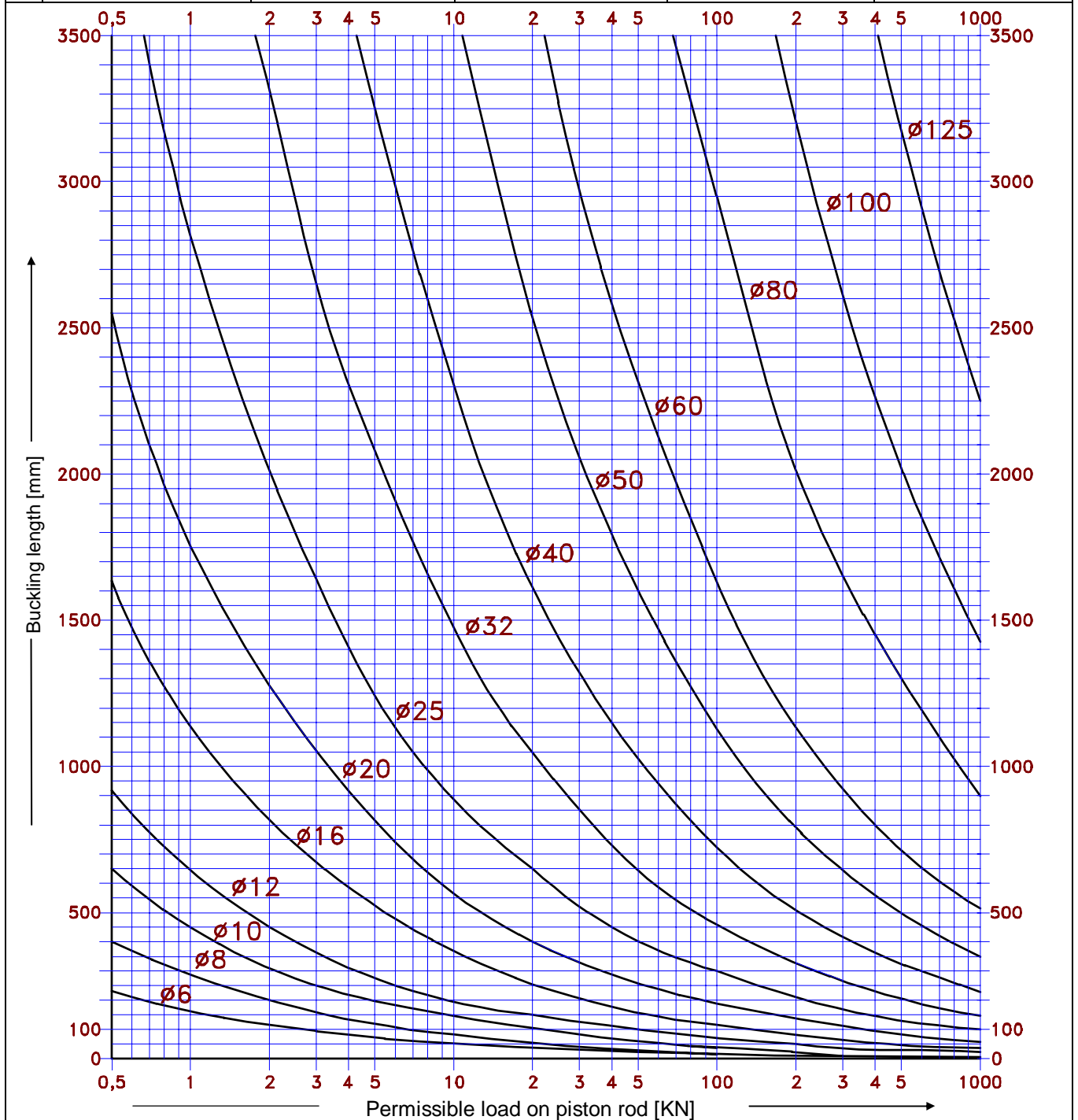


# Load/buckling diagram



Loading case according to Euler									Rule of thumb for calculation:
Case 1		Case 2		Case 3		Case 4			
Type of installation									$l_{kmax} = 4,51 \cdot \sqrt{\frac{d^4}{F}}$ $d_{erf} = 0,471 \cdot \sqrt[4]{l_k^2 \cdot F}$ $F_{max} = 20,35 \cdot \frac{d^4}{l_k^2}$ Safety factor $v = 5$ $E = 210000 \text{ N/mm}^2$
	Conf.	111-2 117	110-1 111/111-1 112/112-1	116 218 / 219 225	114/114-1 115	111-2 117	110-1 111/111-1 112/112-1	111-2 117	
	$l_k = 2 \cdot l$		$l_k = l$		$l_k = l \cdot \sqrt{0,5}$		$l_k = 0,5 \cdot l$		$l_k$ buckling lgth [mm] $d$ Rod- $\emptyset$ [mm] $F$ piston force [KN]



Revision B \* 15.11.1996 \*K.E.