

MARYLAND METRICS

P.O.Box 261 Owings Mills, MD 21117 USA

(410)358-3130 (800)638-1830 Faxes: (410)358-3142 (800)872-9329
<http://mdmetric.com> techinfo@mdmetric.com

TECHNICAL INFORMATION and DATA

Guidelines for maximum permissible operation force

Type of force	Permissible operating force in % of the yield load			
	Property class	3.6 – 6.6	4.8 – 8.8	10.9 – 14.9
Constant tensile force Safety limit against fracture: 2		85%	62%	55%
Repeated tensile shocks Safety limit against fracture: 2 Notch factor of thread: K = 3,5		24%	18%	16%
Constantly alternating (dynamic) tensile force (rotating parts, over 10 000 changes of load) Safety limit against fracture: 2 Notch factor of thread: Kw = 3 Fatigue strength under bending stress = 55% of the tensile strength		15%	12%	10%
Constantly alternating (dynamic) tensile and compressive forces. (rotating parts, flexure, over 10 000 changes of load) Safety limit against fracture:2 Notch factor of thread: Kw = 3 Fatigue strength under reversing stress = 40% of the tensile strength		11%	8%	7%