

Variable Description	Variable	Value	Units
Alpha angle	2a	14.5000	
Minor diameter	dr	0.5000	inches
Major diameter	d	0.6250	inches
Mean diameter	dm	0.5625	inches
Number of engaged threads	nt	3.0000	
Pitch	p	0.1250	inches
Lead	l	0.1250	inches
Force applied	F	0.0000	lbs
Coefficient of friction threaded pair-nut material	f	0.1700	
Coefficient of friction thrust collar running	f_c	0.0900	
Coefficient of friction thrust collar starting	f_c	0.1500	
Collar diameter max.	dc_max	0.6300	inches
Collar diameter min.	dc_min	0.3500	inches
Diameter of collar	dc	0.4900	inches
Torque required to raise	TR	0.0000	in*lbs
Torque required to lower	TL	0.0000	in*lbs
Self locking value	$\pi \cdot f \cdot dm$	0.3004	<i>selflocking</i>
Thread efficiency		#DIV/0!	
Suitable length		1.0000	inches
Thread length	LT	1.5000	inches
Length of unthreaded portion	ld		inches
Length of threaded portion in grip	lt		inches
Area of unthreadede portion	Ad		in^2
Area of thread portion	At		in^2
Fastern Stiffness	kb		
Variable Description	Variable	Value	Units
Elastic 304 steel	E	28000.0000	kpsi
Body shear stress	τ	0.0000	kpsi
Compressive axial stress	σ	0.0000	kpsi
Bearing Stress	σ_B	0.0000	kpsi
Threaded Root bearing pressure	σ_b	0.0000	kpsi
Fsy			
Fsu	#DIV/0!	82.4/ τ	