desmos Math Tools Resources Eric

$k = 0.13 \cdot 4.45$	$= 0.5785$
$Spring\ cons\ \tan\ t\ in\ \frac{N}{mm}$	
$L_{max} = 10.5$	$= 10.5$
$L_{engaged} = 4.7$	$= 4.7$
$F_{engaged} = \left(L_{max} - L_{engaged}\right) \cdot k$	$= 3.3553$
$L_{min} = 3.2$	$= 3.2$
$F_{min} = \left(L_{max} - L_{min}\right) \cdot k$	$= 4.22305$
$F_{min}\ Is\ the\ \text{for}\ ce\ required\ \text{for}\ \max\ compression.\ For$	
$our\ purpose,\ we\ need\ it\ do\ be\ \sim 4mm\ in\ \text{length},\ but\ \text{for}$	
$sizing\ the\ servo,\ I\ will\ asSumme\ it's\ going\ to\ \min\ L$	
$AsSum\ \min g\ arm\ \text{length}\ of\ 15mm$	
$A = 0.0015$	$= 0.0015$
$T = F_{min} \cdot 0.0015$	$= 0.006334575$
$So,\ SG_{90}\ should\ work\ldots$	