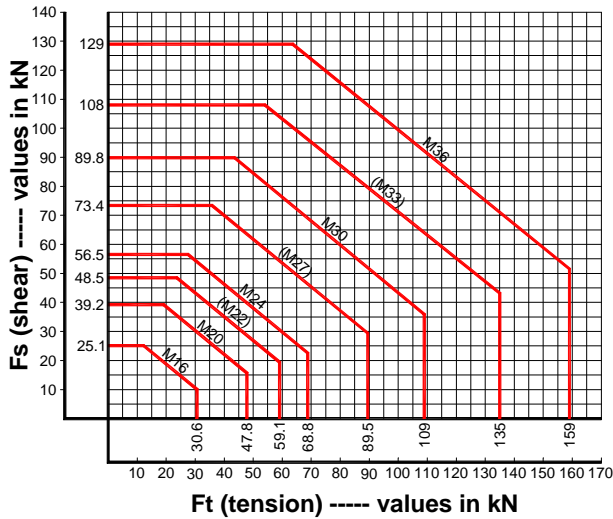




## BOLT LOAD CAPACITY DIAGRAMS TO BS5950 (THE LIMIT STATE METHOD ie. FACTORED APPLIED LOADS)

### Grade 4.6 Bolts to BS4190



#### Notes :

- 1) These tables are for :-  
I.S.O. Metric Coarse Thread Bolts
- 2) The combined shear and tension  
$$\frac{V_{app}}{V_{cap}} + \frac{T_{app}}{T_{cap}} \leq 1.4$$
- 3) The allowable stresses of the bolts are :-  
(N/mm<sup>2</sup>) Grade 4.6    Grade 8.8  
 $\sigma_t$             195            450  
 $\sigma_v$             160            375
- 4) The effective areas of the bolts are :-  
a)  $A_t$  = Gross area (tensile area)  
b)  $A_v$  = Gross area (shear area)

### Grade 8.8 Bolts to BS3692

