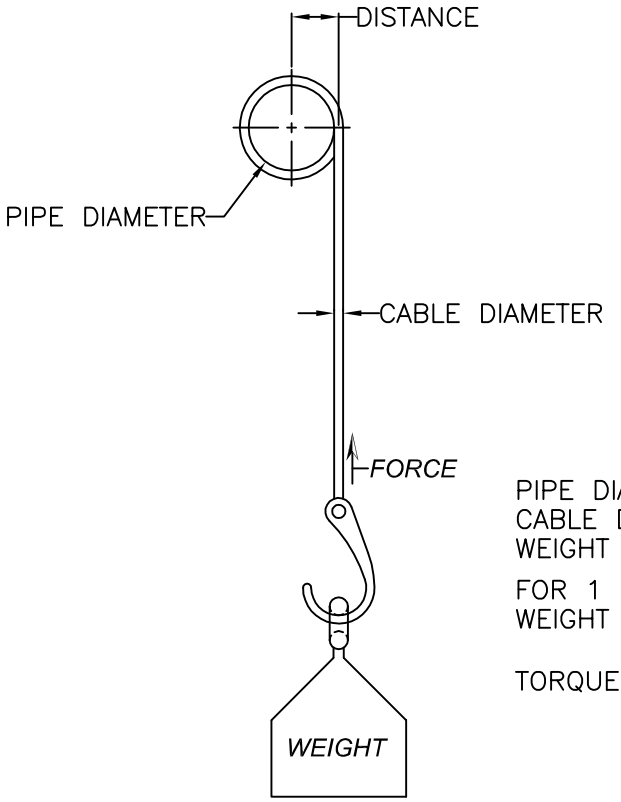
TORQUE = FORCE X DISTANCE

1 PART LINE
3,000# LOAD



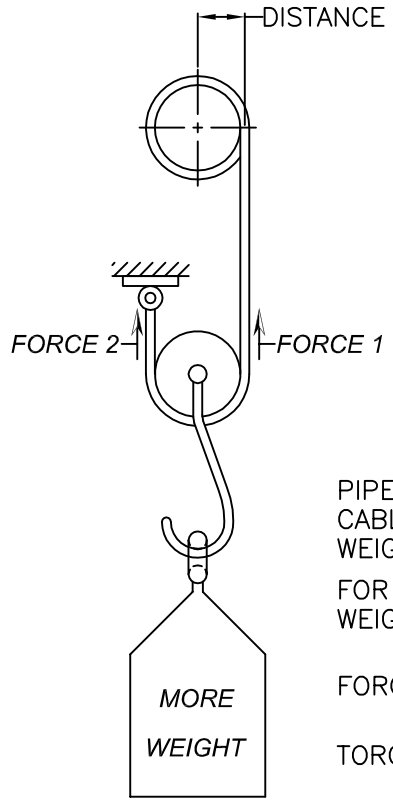
PIPE DIA. = 2.375
CABLE DIA. = .25
WEIGHT = 3,000#

FOR 1 PART LINE
WEIGHT = FORCE

$$\text{TORQUE} = \frac{2.375 + .25}{2} \times 3000$$

$$= 3{,}937 \text{ INCH–POUNDS}$$

2 PARTS LINE
6,000# LOAD



PIPE DIA. = 2.375
CABLE DIA. = .25
WEIGHT = 6,000#

FOR 2 PARTS LINE
WEIGHT = FORCE 1 + FORCE 2

$$\text{FORCE 1} = \text{FORCE 2} = \frac{6{,}000}{2} = 3{,}000\#$$

$$\text{TORQUE} = \frac{2.375 + .25}{2} \times 3000$$

$$= 3{,}937 \text{ INCH–POUNDS}$$