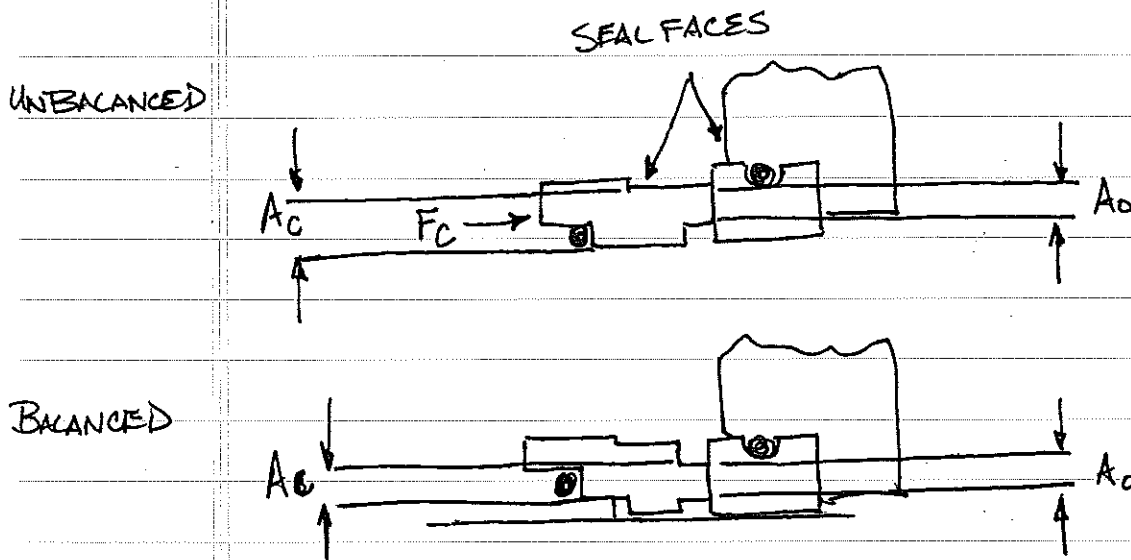


EXAMPLE: SINGLE SEAL, OD PRESSURIZED



A_o = OPENING AREA

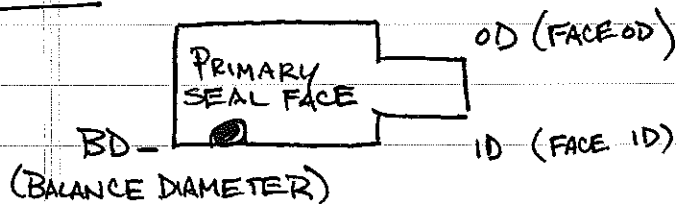
A_c = CLOSING AREA

F_c = CLOSING FORCE

$$\text{AREA} = \pi r^2$$

$$BR = \frac{OD^2 - BD^2}{OD^2 - ID^2} = \frac{A_c}{A_o}$$

CALCULATION



SO IF $OD = 3.525''$

$ID = 3.125''$

$BD = 3.00''$

$$BR = \frac{OD^2 - BD^2}{OD^2 - ID^2} = 1.288 \times 100 = 128.8\%$$

UNBALANCED