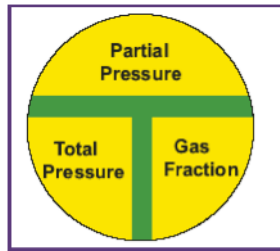


The Circle T is your Friend!

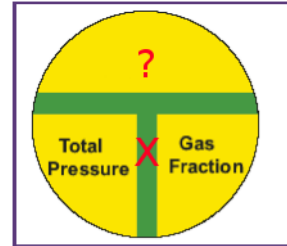


When trying to figure out the Partial Pressure of Oxygen at a given depth.. You must know the depth (in P) and % of O₂ (fO₂).

$$PO_2 = P \times fO_2$$

For instance, the partial pressure of Oxygen (PO₂) at a depth of 99' (P=4) when breathing 32% Nitrox (fO₂ = 0.32)

$$PO_2 = 4 \times 0.32, PO_2 = 1.3!$$



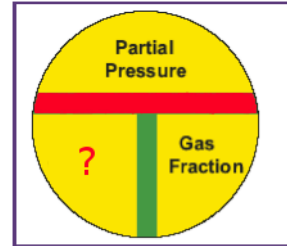
Calculating the Maximum Operating Depth... You must know the % of O₂ in the mix (fO₂). The answer is given in P, you must convert that to Depth (D)

MOD = PO₂ ÷ fO₂; remember PO₂ should NEVER exceed 1.4! So you should use: **MOD = 1.4 ÷ fO₂**

For instance.. The MOD of 34% Nitrox is:

$$MOD = 1.4 \div 0.34, MOD = 4.11.$$

Converted to D is 102'.

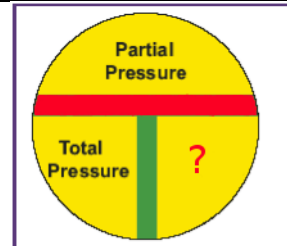


Calculating the Best Mix of a gas. You must know the maximum depth you will go to (in P). The answer is given in %.

MIX = PO₂ ÷ P; remember PO₂ should NEVER exceed 1.4! So you should use: **MIX = 1.4 ÷ P**

For instance, the best mix for going to 110' (P=4.33) is:

$$MIX = 1.4 \div 4.33, \text{ or } 32.3\%$$



Formulas for Success:

1. Depth (in sea water) to P: either $P = (D+33)/33$ or $P = (D/33) + 1$
2. P to Depth (in sea water): $D = (P \times 33) - 33$ or $D = (P - 1) \times 33$

Maximum Operating Depth

Cylinder Marking Made Easy

Date of analysis

MOD: 111'

10/10/13

32.1%

KS

Oxygen % carried out to tenths

Your initials

PLACE THIS LABEL ON YOUR TANK NECK SO YOU CAN SEE IT!

Your Analysis: Tank #