

The Empty Weight Stamped on a CO2 Cylinder is called “TARE” is the **weight** of an empty Co2 extinguisher which has all the component for filling excluding the Hose and Horns.

SANS10019-TARE MASS-3.32

The “TARE” weight is stamped on the dome of the CO2 Cylinder then you add the gas content to get the “GROSS” – The total weight of the extinguisher **excluding** the hose and horns.

Manufacturing Process:

The Manufacturer has a known weight for the valve and syphon tube. But the cylinder itself will vary slightly in weight, and there for this is taken into account when the mentioned components are added. The cylinder will be stamped with the true “TARE” weight.



This leads us to the Instruction label fitted. This label gives you Full and Empty, and some include the Discharge hose and horns. This could differ from the actual true “TARE” weight stamped on the cylinder.

You should always compare the Instruction Label details against the cylinder stampings. Remember “TARE” does not include the hose or horns. This you will have to take into consideration when you perform your calculation.

Most of you service as I call it “at the hook” and do not remove the hose or horns. If you do this task regularly you should have these weights already written down or in your head or otherwise you cannot get an accurate weight.

Average Weight:

Hose and Horn (5kg) – 65 grams

Swivel Horn (2kg) –19 grams

Cone Horn (2kg) –11 grams

Let’s take an example and use a notional 5kg CO2

The TARE is 13.5kg and the contents of CO2 gas is 5kg = Full /Gross weight of 18,5kgs + the hose and horn weighing 65 grams

We have the exact Full/Gross weight, and now we have to allow for the Tolerance of +/-5%

Know this is where you have to be careful or you could be under or over weight due the horn and hose assembly.





TOOL BOX 070- CO2 EXTINGUISHER WEIGHTS.

You don't have a calculator how will you calculate the 5%? This is easy as you only allowing the tolerance on the Gas / Contents of the extinguisher. There is a 1000grams to a kilogram and 10% is 100grams and there for 5% is 50 Grams

5% of 5Kg is $5 \times 50 = 250 \text{ Grams}$

The total weight of your extinguisher is 18,3kg without the hose and horn +/- the 250grams

Maximum 5% lower weight is 18,25kg or upper weight 18,75kg

Finally, you must add the hose and horn weighs to both lower and higher. So that means the extinguisher cannot weigh more than **19.4kg** or less than or less than **18.9kg**

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