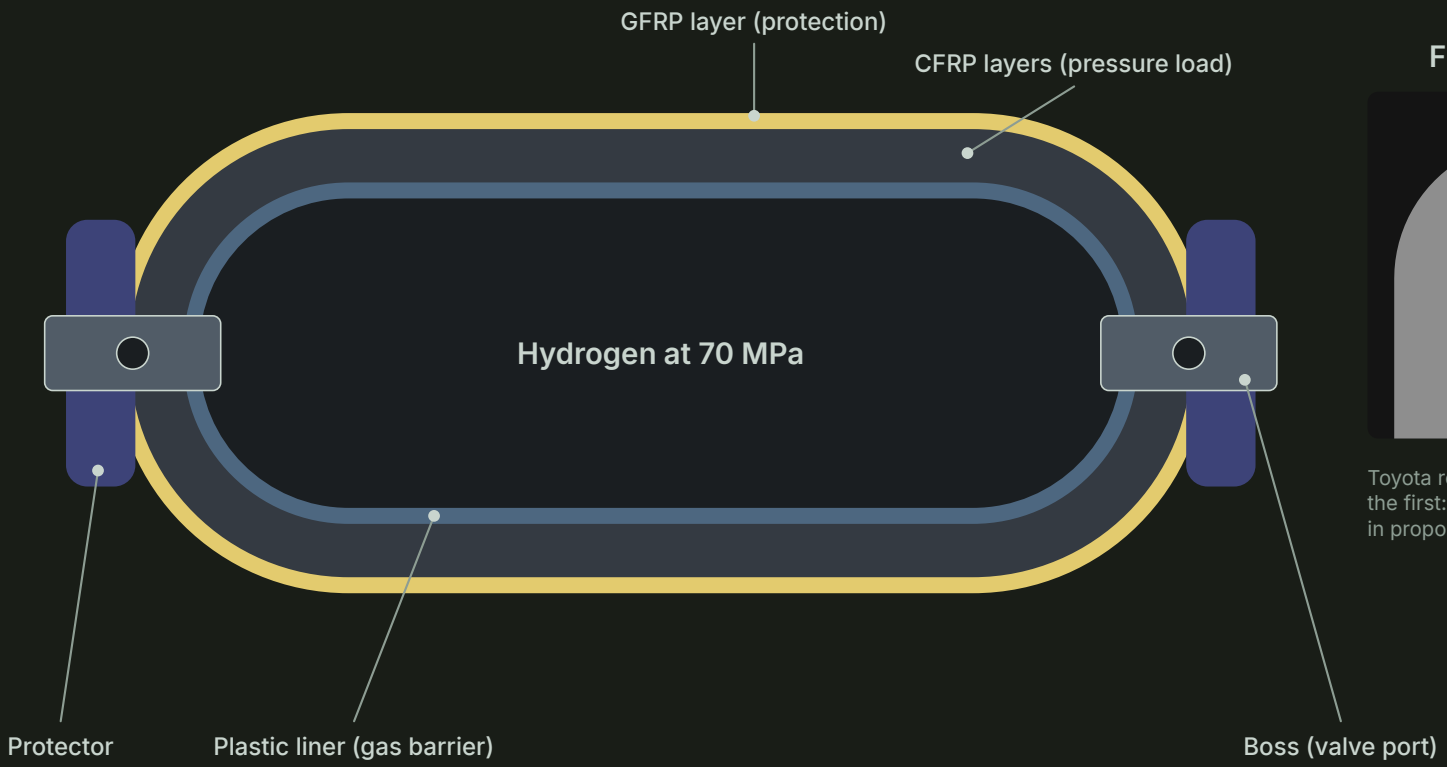
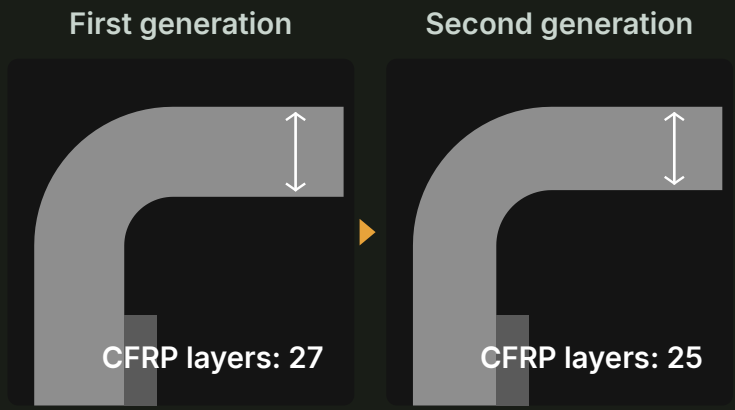
High-pressure hydrogen tank: wall build-up

A plastic liner holds the gas; carbon-fibre (CFRP) layers carry the 70 MPa load; an outer glass-fibre (GFRP) layer protects them.





Toyota reports 25 CFRP layers in the second-generation tank against 27 in the first: a thinner, lighter wall at the same pressure. Wall thickness drawn in proportion; schematic, not CT data.

Redrawn schematic (Vassal, DesignCraft) after Toyota public descriptions of the Mirai tank. Not to scale.