

lapesa | Storage of HYDROGEN GAS

TYPE OF TANK

Pressure tank for hydrogen storage, compressed in gas phase, at ambient temperature.

Cylindrical, horizontal or vertical installation, without thermal insulation.

DESIGN

Maximum allowable pressure (PS) up to 40 bar (standard version).

Working temperature: -20 °C - ambient.

Approved in accordance with Directive 2014/68/EU (European Pressure Equipment Directive).

MANUFACTURING

Made of carbon steel (for other materials, please consult), with the necessary controls and inspections for an adequate storage of H₂ gas.

Welding processes controlled for hydrogen use.

Manufactured according to code.

With specific thermal distensioning for H₂.

QUALITY ASSURANCE

Control of internal steel defects for use with pressurised hydrogen.

100% x-ray of the tank body.

Pressure strength test.

Rest of controls according to code.

The tank is accompanied by its corresponding EU Declaration of Conformity.

EXTERIOR FINISH

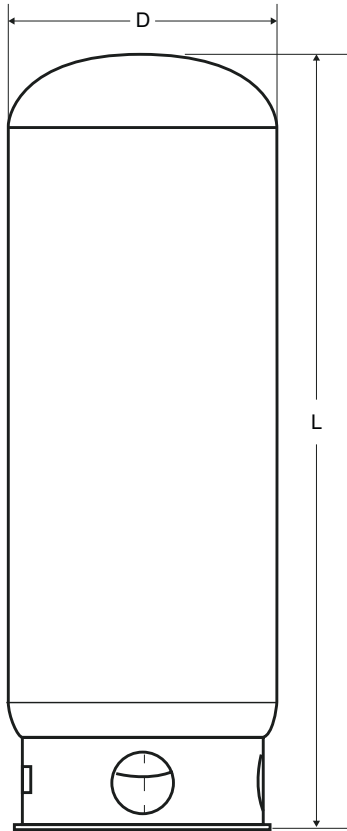
Outer surface pickled by shot blasting, and protected by two coats of paint: primer with high anticorrosive power, and exterior in reflective white polyurethane.

EQUIPMENT

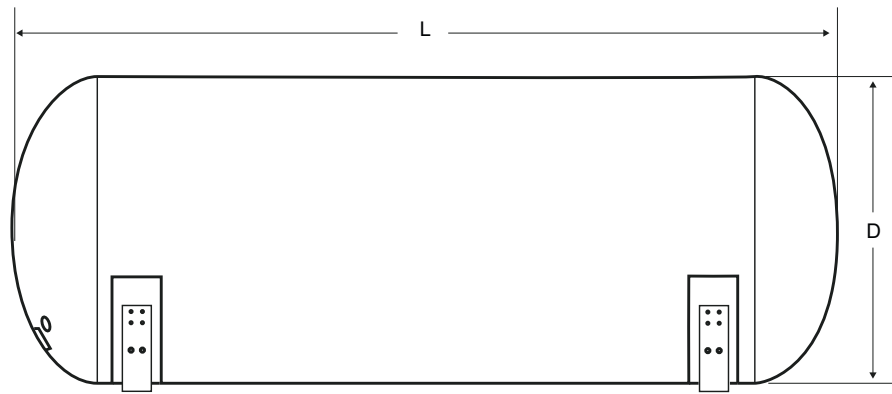
Connections for equipment can be adapted to customer's requirements, subject to definition before purchase order.



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 | Storage of **HYDROGEN GAS**


*Tanks specifically designed and manufactured for compressed **HYDROGEN GAS**, intended for hydrogen supply stations or industrial applications.*



MODELS AND MAIN FEATURES

HORIZONTAL MODELS	LH 10H	LH 25H	LH 50H	LH 100H	LH 145H	LH 200H
Nominal volume (m ³)	10	25	50	100	145	200
Outside diameter D (mm)	1.500	2.200	2.450	3.000	3.000	3.500
Total length L (mm)	5.950	7.350	11.550	15.350	21.850	22.300
Empty weight (Ton)	3,5	8,9	18,2	34,7	48,3	66,8
H ₂ content weight (kg) ¹	36	90	180	360	522	720

VERTICAL MODELS	LH 10V	LH 25V	LH 50V	LH 100V	LH 145V	LH 200V
Nominal volume (m ³)	10	25	50	100	145	200
Outside diameter D (mm)	1.500	2.200	2.450	3.000	3.000	3.500
Total height L (mm)	6.300	7.850	12.000	15.850	22.350	22.800
Empty weight (Ton)	3,7	10,1	19,2	36	49,6	69
H ₂ content weight (kg) ¹	36	90	180	360	522	720

(1) Gas weight at 40 bar and 0°C.

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