

Composite cylinders
for hydrogen bundle & container storage

Efficient hydrogen transport & distribution solutions reducing total cost of ownership and CO_2 emissions.

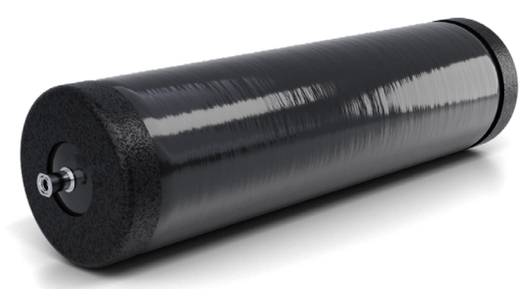


LIGHTWEIGHT SOLUTIONS FOR HYDROGEN TRANSPORT & DISTRIBUTION

- **Lightweight & fatigue resistant composite cylinder** designed for high working pressure.
- **Complete MEGC solutions with partners**. Up to 1 ton of usable hydrogen.

SAFE & COST-EFFECTIVE COMPOSITE CYLINDERS SUPPLIED TO MEGC PARTNERS

- **Type III cylinders**
  Compatible with high speed in refueling & defueling: high & homogeneous thermal conductivity. Compliant with vacuum procedures: metal liner.



- **Type IV cylinders**
  The lightest cylinder technology for high-pressure hydrogen storage. Maximized lifespan and high fatigue resistance, enabling very high-pressure storage capacities.

- **Working pressure**
  38 MPa / 45 MPa / 50 MPa / 52 MPa

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Type III Cylinders – Technical Characteristics

CYLINDER ID	WORKING PRESSURE (MPa)	DIAMETER (mm)	LENGTH (mm)	WATER VOLUME (L)	EMPTY MASS (kg)	H_2 CAPACITY (kg)	MOUNTING METHOD	MARKET APPLICATION	CERTIFICATION
38-XL1_III	38	565	2200	378	175	9.7	Neck	Infrastructure_EU	TPED
								Infrastructure_US	DOT
52-XL1_III	52	588	2200	378	263	12,3	Neck / Strap	Infrastructure_US	DOT

Nota: Diameter and length values refer to the composite cylinder under ambient pressure conditions

Type IV Cylinders – Technical Characteristics

CYLINDER ID	WORKING PRESSURE (MPa)	DIAMETER (mm)	LENGTH (mm)	WATER VOLUME (L)	EMPTY MASS (kg)	H_2 CAPACITY (kg)	MOUNTING METHOD	MARKET APPLICATION	CERTIFICATION
38-L1_IV	38,1	502	2386	353	114	9.0	Neck	Infrastructure_EU	TPED
45-XL1_IV	45	604	2350	440	199	12.9	Neck / Strap	Infrastructure_KO	KGS
								Infrastructure_US	DOT
50-XL1_IV	50	604	2350	440	199	13.9	Neck / Strap	Infrastructure_EU	TPED
52-XL1_IV	52	604	2350	440	199	14.4	Neck / Strap	Infrastructure_US	DOT

Nota: Diameter and length values refer to maximal composite cylinder dimensions @ 118% NWP ; Diameter, Length, Mass and Capacity values can be adjusted according to final approval

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