Hydrogen Tank Whitelist

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Preface & Foreword

This document should make the lives easier for the Formula Student teams, which want to build a hydrogen powered vehicle. This document is a collection of hydrogen tanks and suppliers, which are certified according to standards in the Hydrogen Rules 2027.

Teams are only allowed to use hydrogen tanks, which are part of the Hydrogen Tank Whitelist. These hydrogen tanks are already checked by officials. This means if teams are ordering one of the following hydrogen tanks, there should be no problems to have a rules compliant hydrogen tank.

If a team wants to use a hydrogen tank that is not on the Hydrogen Tank Whitelist, they must submit a Whitelist Addition Request Form (WARF). The WARF template is provided on the competition websites. The officials will check the submitted document and add the hydrogen tank to the list, if it is according to the Hydrogen Rules. Please check chapter G3 of the Hydrogen Rules 2027 for details.

The document is solely based on the submitted information. The competitions are not liable for incorrect information.

Forvia

Hydrogen tanks

The following hydrogen tanks are designed and manufactured for 350 bar nominal operating pressure of hydrogen. The type 3 tanks are certified by an accredited body and marked or stamped according to the standard GB/T 35544-2025.

Part number	Diameter (mm)	Length without OTV (mm)	Length with OTV (mm)	Weight (kg)	Water volume (l)	Hydrogen capacity (kg)
35-S1_III	280	730	765	18	28	0,7
35-M9–III	363	867	912	35	56	1,2

OTV

OTV HTV 350 with part number 872.88.090 - 872.88.090A or 872.88.170 - 872.88.170A from OMB Saleri S.p.A. This is rated to EC79.

Luxfer

Hydrogen tanks

The following hydrogen tanks are designed and manufactured for 350 bar nominal operating pressure of hydrogen. They are certified by an accredited body and marked or stamped according to the standard EC79. All hydrogen tanks have two possibilities for mounting: Neck mount or body mount. The thread size for all hydrogen tanks is either 2–12 UNF or 1.125–12 UNF. All hydrogen tanks are Type 3 tanks.

Part number	Diameter (mm)	Length without OTV (mm)	Length with OTV (mm)	Weight without OTV (kg)	Water volume (l)	Hydrogen capacity (kg)
M030H35	298	715	???	18,4	30	0,72
Q042H35	340	740	???	25	42	1,01
Q052H35	340	875	???	29,2	52	1,25
V060H35	400	767	???	36	60	1,45
V074H35	400	900	???	38,9	74	1,8

Hydrogen Tanks on stock (07.08.2026): 2 units of the M030

Link to the website: https://www.luxfercylinders.com/product/g-stor-h2-hydrogen-cylinders/

Delivery time: 16 to 22 weeks, if hydrogen tank and/or OTV not on stock

OTV

In season 24/25, on the Q042H35 assembly a Cavanga Hydrogen Solenoid Shut Off Valve - BV-352 24V was used. In season 25/26, on the M030H35 assembly a PTEC OTV 35MPA VALVE B64 (B64-0-61-H) was used.

	Season 24/25	Season 25/26
Tank Model	Q042H35	M030H35
OTV Model	HYD-HS1/7704900003	B64-0-61-H
OTV Manufacturer	Cavanga	PTEC PRESSURE TECHNOLOGY GmbH
TRPD Model	1009500312	included in OTV
TRRD Manufacturer	Cavanga	included in OTV

Worthington

This was a special offer from the company, which was moving from one facility to another. To empty their storage, they offer the following unused hydrogen tanks.

Hydrogen tanks

The following hydrogen tank is designed and manufactured for 350 bar nominal operating pressure of hydrogen. The “Hydrogen Cylinder D417 78L 350BAR TPED Hydrogen Type 3 Cylinder” is certified by an accredited body and marked or stamped according to the standardEC 79/2009.

Part number	Diameter (mm)	Length without OTV (mm)	Length with OTV (mm)	Weight (kg)	Water volume (l)	Hydrogen capacity (kg)
???	417	884	930	49,9*	78	1,9

*hydrogen tank+ OTV= 51,1kg

OTV

B64-0-XX from PTEC PRESSURE TECHNOLOGY GmbH which is rated to EC79.

The PTEC 35 MPa H2 valve is a multifunctional valve to be assembled on a tank system, for stationary or automotive usage.