



G-Stor[®] Pro H₂

TYPE 3 HYDROGEN CYLINDERS

Luxfer's G-Stor[®] Pro H₂ products are the leading line of lightweight high-pressure hydrogen storage cylinders.



Giving you more
innovation.

G-Stor® Pro H2



TYPE 3 HYDROGEN CYLINDERS

Luxfer's G-Stor® Pro H2 products are the leading line of lightweight high-pressure hydrogen-storage cylinders used by a number of the world's largest OEMs that design, develop and manufacture state-of-the-art compressed hydrogen-storage systems for fuel cell and bulk gas transport applications.

The G-Stor® Pro H2 advantage is our lightweight, impermeable Type 3 cylinder technology, resulting in a certified, cost-effective hydrogen storage solution that is ideal for fuel cell transit buses, heavy-duty trucks, vans, bulk gas transport, forklifts, boats, drones and trains.

Numerous hydrogen-storage systems fitted with G-Stor® Pro H2 cylinders are operating around the globe. Luxfer provides G-Stor® Pro H2 cylinders for fuel cell transit buses to transit agencies throughout the United States and Europe.

Benefits of G-Stor® Pro H2

- Lightweight.
- Zero permeation.
- Fast-fill capability.
- Operating pressures ranging from 5,076 psi (350 bar) to 7,500 psi (517 bar).

Benefits of Hydrogen

- Significantly safer to store than liquid fuels – leaks will disperse into the air instead of on the ground.
- If created by water electrolysis using renewable energy such as solar, then greenhouse gases are eliminated.
- Fuel cell vehicles offer a near-silent operation and reduced maintenance with no moving engine parts.
- Water is the only byproduct from a fuel cell vehicle.

Vehicle Applications	Service pressure	Diameter		Length		H2 Capacity		Weight		Total weight, tank and fuel		Water volume	Neck mount	Part #
	bar	in	mm	in	mm	lb	kg	lb	kg	lb	kg	l		
	350	13.4	340	29.1	740	2.2	1.0	57	26	59.2	27.0	42	No	Q042H35
	350	13.4	340	34.4	875	2.8	1.3	64	29	66.8	30.3	52	No	Q052H35
	350	13.4	340	57.4	1458	5.0	2.3	106	48	111.0	50.3	94	No	Q095H35
	350	15.7	400	35.4	900	3.9	1.8	84	39	87.9	40.8	74	No	V074H35
	350	16.3	415	63.5	1614	8.0	3.6	161	73	169.0	76.6	150	Yes	W150H35
	350	16.3	415	83.1	2110	10.9	5.0	209	95	219.9	100.0	205	Yes	W205H35
	350	16.3	415	124.6	3165	17.2	7.8	304	138	321.2	145.8	322	Yes	W322H35
	350	16.5	419	108.0	2743	14.3	6.5	260	117.9	274.3	124.4	280	Yes	ALT909FS
	350	16.5	419	120.0	3048	16.0	7.3	285	129.2	301.0	136.5	310	Yes	ALT909
	431	17.3	439	120.0	3048	19.0	8.6	414	187.8	433.0	196.4	310	Yes	ALT962L

Bulk Gas Transport	Service pressure	Diameter		Length		H2 Capacity		Weight		Total weight, tank and fuel		Water volume	Neck mount	Part #
	bar	in	mm	in	mm	lb	kg	lb	kg	lb	kg	l		
	350	16.3	415	63.5	1614	8.0	3.6	161	73	169.0	76.6	150	Yes	W150H35
	350	16.3	415	83.1	2110	10.9	5.0	209	95	219.9	100.0	205	Yes	W205H35
	350	16.3	415	108.0	2743	14.8	6.7	271	123	285.8	129.7	275	Yes	W275H35
	350	16.3	415	124.6	3165	17.2	7.8	304	138	321.2	145.8	322	Yes	W322H35
	450	17.1	435	110.9	2817	18.4	8.3	410	186	428.4	194.3	283	Yes	W283H45
	450	17.1	435	123.1	3128	20.2	9.1	463	210	483.0	219.1	315	Yes	W320H45
	517	17.6	447	120.0	3048	22.1	10.0	490	222.2	512.1	232.2	309	Yes	ALT881HPT

All cylinders are dual-ported, unless otherwise noted.
Other sizes and custom cylinder lengths and size configurations are available upon request with minimum order.
Approved pressure relief device must be used for fire protection.
Cylinder specifications are nominal values and are subject to change without notice.