



Specification Sheet: Medical Gas Cylinders for Emergency Services & First Responders.



Reliability When You Need It Most.

When every second counts, you need equipment you can trust. Luxfer's medical gas cylinders are purpose-built for the unique challenges faced by the emergency services and first responders. Engineered for rapid deployment, uncompromising safety, and reliable performance, our cylinders help deliver life-saving care in the most critical moments.

Ready for Action, Built for Safety

Experience the assurance of medical cylinders designed for rapid response. Luxfer combines advanced engineering with proven durability to support you in the field, wherever and whenever you're needed.

What Sets Us Apart?

Our unwavering commitment to first responder needs means we offer a range of portable cylinders that are easy to use in fast-paced situations. Each Luxfer cylinder undergoes thorough inspection to ensure the highest levels of safety and reliability. Additionally, Luxfer stands out by offering one of the most extensive ranges of medical cylinders in the industry, with a wide variety of sizes tailored for specific applications - ensuring first responders always have the optimal solution for any emergency scenario.

Applications

Luxfer's medical gas cylinders are trusted by:

- Ambulance crews and paramedics.
- Fire and rescue teams.
- Disaster relief and mass casualty response units.

The Benefits of Luxfer Medical Gas Cylinders

- **Extensive Product Range:** We offer one of the widest selections of high-quality medical gas cylinders in the industry, catering to diverse healthcare needs. From portable oxygen therapy to emergency use, making us a trusted partner for medical gas cylinders worldwide.
- **Application Specific Innovation:** At Luxfer, we consistently innovate to support our customers and end users. We have developed a 10L cylinder for the emergency services and ambulance vehicles. This provides teams with a high-capacity, reliable oxygen supply for extended patient care during multiple emergencies. Our range also includes a 2L cylinder, often used for patient transfers. This cylinder offers a lightweight, compact solution ideal for short-distance patient transfers between wards or departments, enabling easy handling by staff and ensuring uninterrupted oxygen therapy during brief moves without the bulk of larger cylinders.
- **Beyond the Cylinder:** We offer a complete suite of services including custom sleeves, painting, valving, and cages, providing tailored solutions for your specific requirements.

Our Proprietary Aluminum Alloys

- L6X is our specific formula of 6061-T6 aluminum alloy. It was introduced in 1987 and has been exclusively used by Luxfer since 1988. L6X has become standard in the industry for various applications. Our L6X aluminum alloy has been specifically optimized to improve durability, fracture toughness, corrosion resistance and cylinder weight.
- Introduced in 2002, L7X is our higher-strength 7000-series aluminum alloy. L7X represents a significant metallurgical advancement, allowing us to improve cylinder strength, increase filling pressures, provide greater gas capacity and optimize cylinder weight.

Cylinder Technologies for Your Medical Gas Applications

- Type 1 cylinders are manufactured using aluminum billets, through a cold-extrusion process – providing a seamless, complete cylinder. Type 1 cylinders have a flat base, so they can be free standing without the need for additional support.
- Type 2 cylinders contain the liner of a Type 1 cylinder, which is then wrapped with carbon fiber around the body of the cylinder to provide lighter weight cylinders, without compromising performance. Type 2 cylinders have a flat base, so they can be free standing without the need for additional support.
- Type 3 cylinders are manufactured by fully wrapping an aluminum cylinder liner with carbon fiber. This provides extra strength and support for the cylinder, allowing it to be filled to higher pressures. Type 3 cylinders have a rounded base, requiring additional support to stand upright.

Medical Gas Cylinder Pressures – 200bar and 300bar

- Across the UK and Europe, many existing medical gas systems, regulators, and networks are designed and rated for 200bar pressure. At Luxfer, we provide 200bar medical gas cylinders for existing gas infrastructure, and 300bar medical gas cylinders for those upgrading infrastructure to take advantage of the benefits of higher-pressure gas cylinders.
- For applications where lightweight, high gas capacity and ease of handling are paramount, our L6X composite Type 3 cylinders are available at 300bar pressure.
- In standard cylinder sizes (2L to 10L), Luxfer's L7X 300bar gas cylinders provide significantly higher gas capacity with a minimal increase in cylinder size and weight.

Medical Gas Cylinders for Emergency Services and First Responders

Part Number	Standard	Aluminum & Cylinder Type	Water Volume (l)	Service Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Oxygen Capacity (l)	Thread Size
A637/1/Q	TPED	L6X Type 1	2	200	102	395	2.60	426.5	17E
A834/1/Q	TPED	L6X Type 1	2	200	102	390	2.70	426.5	25E
A634/1/Q	TPED	L6X Type 1	2	200	102	395	2.70	426.5	25E
P3340N	TPED	L6X Type 1	10	200	140	965	11.59	2132.5	25E
P3338N	TPED	L6X Type 1	10	200	176	660	12.91	2132.5	25E
P7029N	TPED	L7X Type 1	2	200	102	360	1.85	426.5	17E
P7052N	TPED	L7X Type 1	2	200	102	360	1.85	426.5	25E
P7033N	TPED	L7X Type 1	10	200	140	930	10.00	2132.5	25E
P7046N	TPED	L7X Type 1	2	300	102	415	2.80	611.8	25E
P7060N	TPED	L7X Type 1	10	300	140	975	11.80	3058.9	25E
P7050S	TPED	L7X Type 2	2	300	97	390	1.90	611.8	25E
M19J*	TPED	L6X Type 3	2	300	101	386	1.45	611.0	17E

Please contact us if you require information about additional cylinder sizes.

*Service Life (years) = NLL