



**LUXFER**  
GAS CYLINDERS



Cylinder Brochure



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# Glossary of Terms

## Type 1 Cylinders

Type 1 cylinders are manufactured using aluminum billets, through a cold-extrusion process – providing a seamless, complete cylinder.

## Type 2 Cylinders

Type 2 cylinders contain an aluminum liner, which is then wrapped with carbon fiber around the body of the liner to provide lighter weight cylinders, without compromising performance.

## Type 3 Cylinders

Type 3 cylinders are manufactured by fully wrapping an aluminum liner with carbon fiber. This provides extra strength and support for the cylinder, allowing it to be filled to higher pressures.

## TPED

Transportable Pressure Equipment Directive (2010/35/EU), is a European Union (EU) directive for cylinders placed on the market within the European Economic Area (EEA), but not in Great Britain. An EU Notified Body must verify the conformity of the product. The cylinder carries the “Pi” mark ( $\pi$ ) to indicate compliance with the directive. “Pi” marked TPED cylinders may be used internationally under certain conditions.


## TPER

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, is a UK regulation for cylinders placed on the market within Great Britain. A UK Approved Body must verify the conformity of the product. The cylinder carries the “Rho” mark ( $\rho$ ) to indicate compliance with the regulation.

## PED

Pressure Equipment Directive (2014/68/EU) is a European Union directive that sets mandatory safety, design, and manufacturing requirements for pressure equipment operating at a maximum allowable pressure greater than 0.5 bar. An EU notified body must verify the conformity of the product. The cylinder carries the ‘CE’ mark. Cylinders carrying a “CE” mark may be used in the UK.

## UN

The United Nations. UN Cylinders are identified with the “UN” mark which indicates the cylinder has been manufactured under UN “Model Regulations” and recognised standards (e.g. ISO 7866). UN Cylinders are designed for global transport. Many countries accept UN cylinders including the USA with “UN-USA” marking. 

## DOT

U.S. Department of Transportation. A DOT cylinder is manufactured under the regulation of DOT to an approved specification (e.g. DOT-3AL). DOT cylinders may be used in the USA. Many other regions also accept DOT cylinders.

## TC

Transport Canada. A TC cylinder is manufactured under the regulation of TC to an approved specification (e.g. TC-3ALM). TC cylinders may be used in Canada.

## Multiple Marks

A cylinder may carry multiple marks to indicate approval in multiple countries. For example, a cylinder showing a “Rho” mark ( $\rho$ ), a “Pi” mark ( $\pi$ ), and a “UN-USA” mark may be used in the UK, Europe and USA.

## L6X

L6X indicates the cylinder is manufactured using Luxfer’s proprietary AA6061 aluminum alloy.

## L7X

L7X indicates the cylinder is manufactured using Luxfer’s proprietary AA7060 aluminum alloy.

# Why Choose Luxfer?

**Innovators in Cylinder Technology:** We pioneered cold-extruded aluminum cylinders and offer a wide range of high-performance options.

**Proven Expertise:** 50+ years of industry leadership and a global presence across all major gas industries.

**Sustainability:** Committed to environmental responsibility, Luxfer uses low-carbon materials and sustainable manufacturing practices, including manufacturing in the UK, to contribute to a greener planet.



# Specialty Gas Cylinders

## Gas Purity Protected, Performance Assured

Luxfer's specialty gas cylinders feature an outstanding internal finish to preserve the integrity of the gases, ranging from non-reactive to highly reactive applications. Engineered to provide a stable environment, our cylinders also help to prevent unwanted reactions and enable consistency for rare and ultra-high purity gas mixtures.



## Engineered for Gas Purity and Stability.

Our specialty gas cylinders are expertly engineered to meet the highest standards of performance and reliability. Designed to handle a wide range of rare, volatile, specialty, and ultra-high purity gases, our gas cylinders are fundamental to producing the highest quality stable gases for specialty gas applications.

### What Sets Us Apart?

Luxfer specialty gas cylinders are distinguished by their superior internal finish, which minimizes contamination and preserves the integrity of reactive gases. These cylinders are specifically designed to provide a stable environment, preventing unwanted reactions and ensuring a consistent composition for a complete range of gases, including the more challenging gas blends.

### Applications

Our cylinders help to enable extended shelf life and consistent gas quality, which is crucial for equipment involved in a variety

of applications, including:

- Analytical Laboratory and Research Activities.
- Semiconductor and Wafer Fabrication Manufacturing.
- Environmental Monitoring.
- Gas Detection Systems in the Marine Industry.
- Stack Emission Monitoring.
- Safety and Industrial Hygiene.

### Why Choose Luxfer Aluminum Cylinders

**Superior Internal Finish:** Enhances gas stability and extends shelf life.

**High-Quality Manufacturing Process:** Maintains gas purity for specialty applications.

**Reliable Service:** Fast lead times and expert support ensure smooth operations.

## Specialty Gas - L6X Type 1 [TPED] [TPER]

Part Number	Design Standard	Water Volume (l)	Working Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Thread size	Collar
A285/1/Q	84/526/EEC	0.5	200	70	230	0.8	17E	No
A618/1/Q	84/526/EEC	1	200	102	240	1.7	17E	No
A695/1/Q	84/526/EEC	1	200	102	240	1.7	17E	Yes
A938/1/N	EN ISO 7866	1	200	102	240	1.6	25E	Yes
A637/1/Q	84/526/EEC	2	200	102	395	2.6	17E	No
A634/1/Q	84/526/EEC	2	200	102	395	2.7	25E	No
A828/1/Q	84/526/EEC	2	200	102	390	2.7	17E	Yes
A834/1/Q	84/526/EEC	2	200	102	390	2.7	25E	Yes
P3330N	EN ISO 7866	2.16	200	117	351	3.1	25E	Yes
P3044Z	84/526/EEC	3	200	117	455	4.1	25E	Yes
P3332N	EN ISO 7866	5	200	140	530	6.7	25E	Yes
P3339N	EN ISO 7866	5	200	152	460	7.1	25E	Yes
P3340N	EN ISO 7866	10	200	140	965	11.6	25E	Yes
P3338N	EN ISO 7866	10	200	176	660	12.9	25E	Yes
P3179Z	84/526/EEC	15	200	204	735	19.5	25E	Yes
P3333N	EN ISO 7866	20	200	204	960	24.8	25E	Yes
P3347N	EN ISO 7866	40	200	229	1440	45.3	25E	Yes
P3342N	EN ISO 7866	50	200	250	1500	57.1	25E	Yes

Approved to use in Europe and UK  
Can also be used in countries which recognise TPED or the design standard

# Calibration Gas Cylinders

## Supporting Gas Stability

Our calibration gas cylinders are designed to deliver precise and reliable performance for your critical calibration gas needs. Engineered with superior materials, our high-quality aluminum cylinders provide a stable environment for calibration gases – helping to maintain gas purity and stability.



## Designed for Accuracy and Manufactured for Stability

Experience the difference of superior quality and exceptional service with our range of calibration gas cylinders.

Our cylinders are designed to enable the precise gas concentrations required to verify the integrity of your gas detection and safety systems. Protect your workforce, prevent costly errors, and confidently meet industry standards with our dependable calibration gas cylinders.

### What Sets Us Apart?

Using a proprietary aluminum alloy and manufacturing process, we provide a cylinder internal finish to meet customer requirements. Our internal finish provides greater stability and longer shelf life for a complete range of gases, including the more challenging gas blends.

### Applications

Our cylinders help to enable extended shelf life and consistent gas quality, which is crucial for equipment involved in a variety of applications, including: Safety and Industrial Hygiene, Laboratories and Research, Breath Testing, Marine Industry, and Stack Emissions.

### The Benefits of Luxfer Aluminum Cylinders

**Integrity and Safety:** Leveraging our expertise, Luxfer delivers high-quality cylinders through extensive inspection, controlled manufacturing, and strict safety standard compliance.

**Innovation and Engineering:** We pioneered cold-extruded aluminum cylinders and offer a wide range of high-performance options.

**Premium support:** We are more than just a gas cylinder manufacturer; we're your dedicated partner. Our premium support provides seamless technical guidance and attentive customer care, empowering your success every step of the way.

**Global approved for use worldwide.**

## Calibration - L6X Type 1 [TPED] [TPER] [UN]

Part Number	Water Volume (l)	Design Standard	Working Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Thread Size
A950/1/1	0.85	ISO 7866	90	75	267.5	0.5	1" x 14 UNS
A981/1/1	1.7	ISO 7866	70	90	346	0.8	1" x 14 UNS
A955/1/1	1.6	ISO 7866	90	90	346	1.1	1" x 14 UNS

Approved for use in Europe, UK and USA.  
Can also be used in countries which recognise TPED or UN cylinders

# Medical Gas Cylinders

## Reliable Gas Cylinders for Patient Care.

Luxfer's medical gas cylinders are engineered to meet the high standards and continuous demands of hospitals and homecare clinical environments.

Lightweight, robust, and thoroughly quality-checked, our cylinders deliver dependable performance - helping your healthcare teams provide safe, effective care to every patient.

## Medical - [TPED] [TPER].

Part Number	Design Standard	Aluminum & Cylinder Type	Water Volume (l)	Working Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Oxygen Capacity (l)	Thread Size	Collar
A618/1/Q	84/526/EEC	L6X Type 1	1	200	102	240	1.7	213	17E	No
A695/1/Q	84/526/EEC	L6X Type 1	1	200	102	240	1.7	213	17E	Yes
A637/1/Q	84/526/EEC	L6X Type 1	2	200	102	395	2.6	426	17E	No
A634/1/Q	84/526/EEC	L6X Type 1	2	200	102	395	2.7	426	25E	No
A828/1/Q	84/526/EEC	L6X Type 1	2	200	102	390	2.7	426	17E	Yes
A834/1/Q	84/526/EEC	L6X Type 1	2	200	102	390	2.7	426	25E	Yes
P3332N	EN ISO 7866	L6X Type 1	5	200	140	530	6.6	1066	25E	Yes
P3340N	EN ISO 7866	L6X Type 1	10	200	140	965	11.6	2132	25E	Yes
P3338N	EN ISO 7866	L6X Type 1	10	200	176	660	12.9	2132	25E	Yes
P3179Z	84/526/EEC	L6X Type 1	15	200	204	735	19.5	3199	25E	Yes
P3333N	EN ISO 7866	L6X Type 1	20	200	204	960	24.8	4265	25E	Yes
P3342N	EN ISO 7866	L6X Type 1	50	200	250	1500	57.1	10662	25E	Yes
P7029N	EN ISO 7866	L7X Type 1	2	200	102	360	1.9	426	17E	Yes
P7052N	EN ISO 7866	L7X Type 1	2	200	102	360	1.9	426	25E	Yes
P7048N	EN ISO 7866	L7X Type 1	3	200	117	415	2.8	639	25E	Yes
P7028N	EN ISO 7866	L7X Type 1	5	200	140	473	4.7	1066	25E	Yes
P7033N	EN ISO 7866	L7X Type 1	10	200	140	930	10.0	2132	25E	Yes
P7049N	EN ISO 7866	L7X Type 1	15	200	180	820	12.6	3198	25E	Yes
A714/1/N	EN ISO 7866	L7X Type 1	1	300	90	273	1.5	305	17E	No
P7046N	EN ISO 7866	L7X Type 1	2	300	102	415	2.8	611	25E	Yes
P7043N	EN ISO 7866	L7X Type 1	5	300	140	530	6.8	1529	25E	Yes
P7060N	EN ISO 7866	L7X Type 1	10	300	140	975	11.8	3058	25E	Yes
P7050S*	EN 12257 / ISO 11119-1	L7X Type 2	2	300	97	390	1.9	611	25E	Yes
P7040S*	EN 12257 / ISO 11119-1	L7X Type 2	3	200	111	425	2.1	639	25E	Yes
M10J**	EN 12245	L6X Type 3	1	300	86	291	0.9	305	17E	No
M19J**	EN 12245	L6X Type 3	2	300	101	386	1.5	611	17E	No
L29C***	EN 12245	L6X Type 3	3	300	114	443	1.9	917	M18	No

Approved to use in Europe and UK  
Can also be used in countries which recognise TPED or the design standard

\*Service Life (years) = Non Limited Life / Retest 10 years

\*\*Service Life (years) = Non Limited Life / Retest 5 years

\*\*\*Service Life (years) = 15 years / Retest 5 years

# CO<sub>2</sub> Beverage Cylinders

## Lightweight Cylinders for Beverage Gas.

We provide the bubbles to your favourite beverages. Our clean, corrosion-resistant cylinders make drinks fizzy and refreshing. Perfect for commercial beers, ciders, and soft drink dispensers.



## Corrosion Resistant CO<sub>2</sub> Gas Cylinders.

### The Trusted Manufacturer of CO<sub>2</sub> Aluminum Cylinders for Over 50 Years:

As a leading manufacturer of high-pressure aluminum cylinders, Luxfer is the trusted name for safe and reliable CO<sub>2</sub> storage amongst beverage companies, restaurants, and other beverage-serving organizations. For decades, we've provided the industry with top-quality aluminum cylinders, ensuring every pour is as good as the last.

### What Sets Us Apart?

Our L6X aluminum alloy is durable, tough, and resistant to cracks or fractures, ensuring gas stability. With over 40 million cylinders in service globally, Luxfer is recognized with safety, dependability, and peace of mind—delivering confidence with every beverage served.

### The Benefits of Luxfer CO<sub>2</sub> Cylinders:

**Corrosion Resistance:** Unlike steel cylinders that may rust and contaminate your CO<sub>2</sub> supply, Luxfer aluminum cylinders are corrosion-resistant and made from responsibly sourced, low-carbon material. This ensures your beverages—whether beer, lager, cider, stout, or carbonated soft drinks—are served without compromising quality.

**Low Maintenance:** Luxfer's brushed aluminum surface requires minimal maintenance, reducing long-term costs and keeping your operations running smoothly.

**Lightweight and Easy to Handle:** Our aluminum cylinders are lighter and easier to transport than steel, enabling safer transportation and handling.

When it comes to beverage cylinders, trust Luxfer for quality and consistency with every pour.

Available in a range of finishes and paints, with optional carry handles for safer and easier handling.



## Beverage - L6X Type 1 [TPED] [TPER]

Part Number	Design Standard	Test Pressure (bar)	CO <sub>2</sub> Capacity (kg)	Water Volume (l)	Diameter (mm)	Length (mm)	Weight (kg)	Thread Size
L3407Z	84/526/EEC	250	2	2.7	117	400	3.1	25E
L2906Z	84/526/EEC	250	4	5.36	152	470	6.3	25E
L3388Z	84/526/EEC	250	5	6.7	160	545	7.5	25E
L2815Z	84/526/EEC	250	6	8.04	160	600	8.55	25E
L2711Z	84/526/EEC	250	10	13.4	204	650	14.9	25E

Approved to use in Europe and UK  
Can also be used in countries which recognise TPED or the design standard

# SCUBA Cylinders

## Unleash Your Underwater Potential.

We've collaborated with experts from around the globe, including the legendary Jacques-Yves Cousteau, to deliver reliable diving cylinders. Dive into excellence with Luxfer.

## Experience the Thrill of Underwater Exploration.

A high-quality cylinder is essential for a comfortable and worry-free dive. Luxfer, a leading provider of SCUBA cylinders, has over 1 million cylinders in use worldwide. We pioneered our first L6X aluminum SCUBA cylinder with Jacques-Yves Cousteau, revolutionizing the market.

### What Sets Us Apart?

Our L6X aluminum alloy enhances the durability, toughness, and resistance to cracks or fractures of our cylinders, ensuring safety. Luxfer is known for its safety, dependability, and peace of mind.

### The Benefits of Luxfer SCUBA Cylinders:

We empower divers with the best cylinders for their underwater adventures. Dive confidently with Luxfer.

**Corrosion Resistance:** Unlike steel cylinders that may rust, Luxfer aluminum cylinders are corrosion-resistant and made from responsibly sourced, low-carbon material.

**Low Maintenance:** Luxfer's aluminum surface requires minimal maintenance, reducing long-term costs and keeping diving operations running smoothly.

**Lightweight and Easy to Handle:** Our aluminum cylinders are lighter and easier to transport than steel, enabling safer transportation and handling.

Our range includes smaller cylinders for buoyancy inflation vests, pony cylinders for deep dives and larger cylinders for recreational and advanced divers.

## SCUBA - L6X Type 1 [PED]

Part Number	Free Air Capacity (cubic feet)	Design Standard	Water Volume (l)	Diameter (mm)	Length (mm)	Weight (kg)	Thread Size	Working Pressure (bar)	Salt Water Buoyancy [full] (kg)	Salt Water Buoyancy [half] (kg)	Salt Water Buoyancy [empty] (kg)
A437/1/Y	3	EN ISO 7866	0.35	60	250	0.85	M18	300	-0.28	-0.215	-0.15
A887/1/Y	3	EN ISO 7866	0.4	60	255	0.7	M18	232	-0.1	-0.045	0.01
A825/1/QY*	3.5	84/526/EEC	0.5	70	230	0.75	M18	200	-0.05	0.01	0.07
A424/1/Y	7	84/526/EEC	1	102	240	1.68	M18	200	0.14	0.26	0.38
A896/1/Y	12	EN ISO 7866	1.5	111	295	2.7	M18	232	-0.36	-0.15	0.06
A885/1/Y	12	EN ISO 7866	1.5	111	295	2.7	M25	232	-0.36	-0.15	0.06
P3403V	40	EN ISO 7866	5.7	140	585	7.2	M25	207	0.29	1	1.71
P3258V	48	84/526/EEC	7	152	595	8.61	M25	200	0.36	1.2	2.04
P3404V	80	EN ISO 7866	10.6	180	660	13.7	M25	217	0.05	1.43	2.81
P3405V	80	EN ISO 7866	10.6	180	660	13.7	0.750-14 NPSM	217	0.05	1.43	2.81
P3414V	100	EN ISO 7866	13.2	203	684	19.25	M25	220	-1.06	0.68	2.42
P3413V	100	EN ISO 7866	13.2	203	684	19.25	0.750-14 NPSM	220	-1.06	0.68	2.42

Approved to use in Europe and UK  
Can also be used in countries which recognise PED or the design standard

\*Can be supplied [PED + TPED] as well as [PED]

# SCBA Cylinders

## Trusted Innovation in Self Contained Breathing Apparatus

Luxfer is a global leader in SCBA cylinder technology, trusted by emergency responders and safety professionals worldwide. With over 50 years of experience, we manufacture high-performance aluminum cylinders, ensuring full traceability and reliability.

We're committed to sustainability - meeting European environmental standards, complying with CBAM, and holding EcoVadis Bronze certification.

The Luxfer SCBA Cylinders combine lightweight design, durability, and advanced materials to deliver superior performance in demanding environments.



## Engineered for Protection.

### Trusted by Professionals Worldwide

Luxfer SCBA cylinders are precision-engineered using aerospace-grade materials to deliver lightweight, high-strength performance in life-critical environments. Designed for firefighters, emergency responders, and safety professionals, our cylinders offer unmatched reliability, ergonomic handling, and proven durability.

### What Sets Us Apart?

Luxfer leads the SCBA industry with advanced cylinder technology that prioritises safety, comfort, and performance. Our commitment to quality and innovation ensures every product meets the highest standards.

**Decades of Expertise:** Over 50 years of trusted engineering.

**Premium Materials:** Proprietary aluminum and carbon fiber.

**Lightweight Advantage:** Up to 20% lighter than traditional cylinders.

**Ergonomic Design:** Reduces fatigue and improves mobility.

### The Benefits of Luxfer Aluminum Cylinders

**Durable & Corrosion-Resistant:** Built to withstand harsh conditions and reduce maintenance.

**Enhanced Safety:** Designed for high-pressure performance and long-term reliability.

**Optimised for Response:** Lightweight construction enables faster, safer movement in emergencies.

**Trusted Worldwide:** Used by leading safety organizations across the globe.

Contact us for more information  
on your SCBA needs

## SCBA - L6X Type 3 [PED]

Part Number	Design Standard	Water Volume (l)	Working Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Service Life (years)	Thread Size
L19C	EN12245	2	300	101	380	1.3	15	M18
L29C	ISO11119-2	3	300	115	446	1.95	15	M18
L45XW	ISO11119-2	4.7	300	137	481	2.75	30	M18
L65B	ISO11119-2	6.8	300	160	525	4.2	30	M18
L67B	ISO11119-2	6.8	300	160	525	4.2	NLL*	M18
L66X	ISO11119-2	6.8	300	158	522	3.8	20	M18
L66N	ISO11119-2	6.8	300	157	520	3.45	15	M18
L87A	ISO11119-2	9	300	175	556	5.2	15	M18
L87B	ISO11119-2	9	300	175	556	5.2	30	M18

Approved to use in Europe and UK  
Can also be used in countries which recognise PED or the design standard.

\*NLL = Non limited life design

# Fire Extinguisher Cylinders

## Trusted Worldwide for Fire Suppression.

With over 50 years of experience, Luxfer is a leading global supplier of aluminum fire extinguisher cylinders. Manufactured to the highest standards using EU and Canadian aluminum, our products offer full traceability and proven reliability.

We're committed to sustainability, meeting strict European environmental standards, complying with CBAM, and holding EcoVadis Bronze certification—with ambitions to go even further.



## Engineered for Safety. Trusted Worldwide.

Luxfer fire extinguisher cylinders are precision-built from high-strength aluminum alloys for reliable, long-lasting performance in commercial and domestic settings. Lightweight, corrosion-resistant, and trusted in over 70 million installations worldwide, they deliver confidence when it matters most.

### What Sets Us Apart?

Luxfer stands out in the fire safety industry with high-quality, precision-engineered cylinders that deliver reliable performance when it matters most. We're committed to delivering durable, compliant, and high-performing solutions tailored to the needs of our customers.

**Trusted Expertise:** Decades of proven industry experience.

**Premium Aluminum:** Quality sourced and rigorously checked.

**Superior Corrosion Resistance:** Built to last in harsh environments.

**Lightweight strength:** High strength-to-weight ratio for easy handling.

**Seamless Design:** Ideal for liquified gases like CO<sub>2</sub>.

**Certified & Compliant:** CE – marked and PED-certified for UK & Europe.

### The Benefits of Luxfer Aluminum Cylinders:

**Durable & Corrosion-Resistant:** Proprietary alloys resist rust and wear, even in harsh environments—reducing maintenance and extending service life.

**Lightweight for Fast Response:** Up to 40% lighter than steel, enabling quicker, safer handling in emergencies.

**Non-Magnetic:** Safe for use in MRI rooms, labs, and electronic facilities—no magnetic interference.

## Fire - L6X Type 1 [PED]

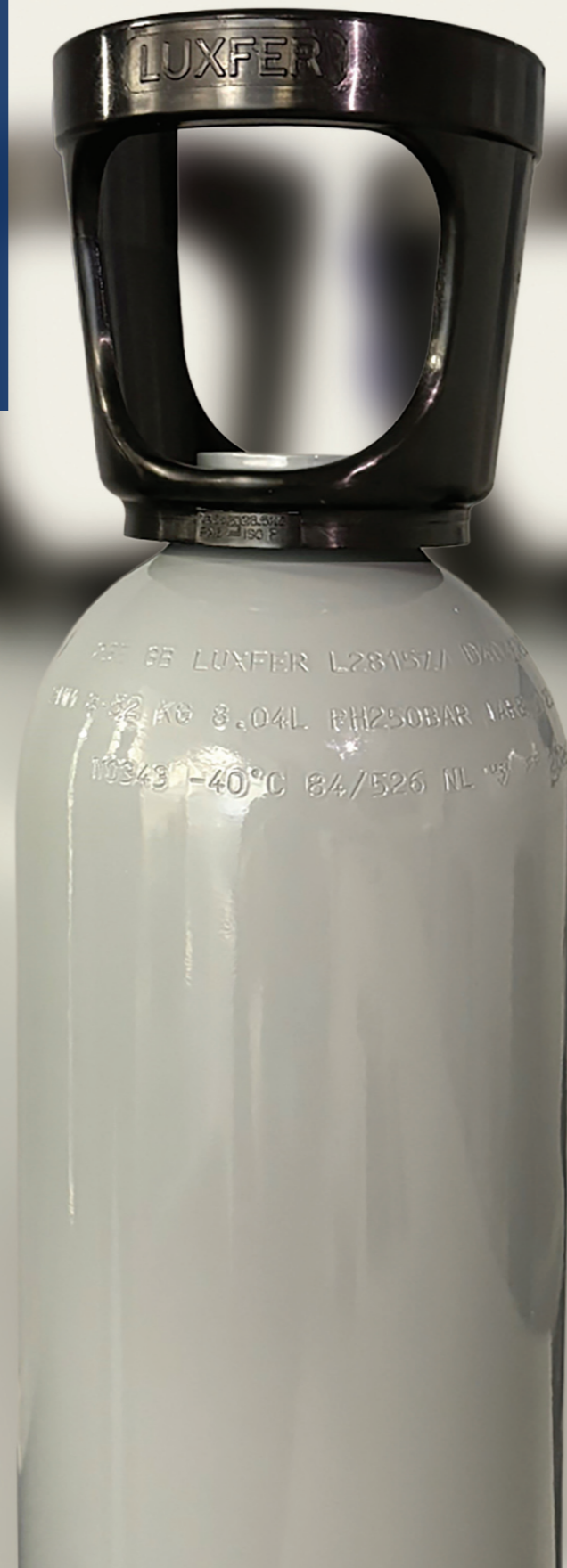
Part Number	Design Standard	Test Pressure (bar)	CO <sub>2</sub> Capacity (kg)	Water Volume (l)	Diameter (mm)	Length (mm)	Weight (kg)	Thread Size
L3228V	BS 5045 Part 8	212	2	3	111	440	2.35	25E
L3158V	BS 5045 Part 8	212	2	3	111	445	2.35	M25
L3160V	BS 5045 Part 8	212	2	3	117	405	2.35	25E
L3157V	BS 5045 Part 8	212	2	3	117	405	2.35	M25
L3155V	BS 5045 Part 8	212	5	7.5	152	580	5.55	25E
L3156V	BS 5045 Part 8	212	5	7.5	152	580	5.55	M25
L3142V	BS 5045 Part 8	310	5	6.67	152	570	7.6	25E
L3165V	BS 5045 Part 8	310	5	6.67	152	570	7.5	M25

Approved to use in Europe and UK  
Can also be used in countries which recognise PED or the design standard

# Cylinder Cages

## Engineered for Durability, Designed for Safety

With cylinder cages built for strength and trusted across industries — Luxfer ensures your operations are protected and efficient. Choose Luxfer for safety you can count on.



## Safety in Gas Cylinder Transport.

Transporting gas cylinders can be challenging. Luxfer cylinder cages offer a reliable solution, enhancing safety and efficiency in gas transportation and storage.

**Streamlined Operations:** Our cylinder cages are used across many industries to facilitate safe transport of high-pressure gas cylinders.

### Key Features

1. Durability and Strength

**High-Quality Cylinder Cages:** Built from durable materials to provide efficient, long-term use.

**Robust Protection:** Shield gas cylinders from damage to ensure long lasting durability and uninterrupted operations.

2. Safety and Compliance

**Tested to ISO 11117 Standard:** Our cylinder cages are tested to industry standard, providing top-tier safety and reliability.

**Weight Capacity:** A maximum load rating of 28.5 kg on our cages offers optimal strength without compromising safety.

**Improved Handling:** Enable easier end-user operations with Luxfer cylinder cages.








### Key Applications

- Healthcare and Medical.
- CO<sub>2</sub> and Beverage.
- Industrial and Specialty.

### Types of cages

1. **Fixed:** Rigid with no rotation. Fixed cages provide stability and are ideal for applications requiring straight-line movement and heavy load support.

2. **Swivel:** 360 degree rotation. Swivel cages offer greater maneuverability. They are perfect for navigating tight spaces and making frequent directional changes.

	Part Number	Height (mm)	Overall Diameter (mm)	Neck/ Connection	Type	Reference
	CAG010	136.6	140	57mm	Swivel	1456
	CAG019	136.6	140	61mm	Swivel	1457
	CAG026	145.0	140	81mm	Swivel	1458
	CAG017	145.0	140	80 x 11 TPI Whit.	Fixed	1459
	CAG012	108.0	136	M38x2 ISO	Fixed	1460
	CAG014	108.0	136	M42x2 ISO	Fixed	1461
	CAG088	135.0	140	80 x 11 TPI Whit.	Fixed	1469

All cylinder cages available in black only

# Aluminum Cylinder Finishes

Giving you  
more choice

At Luxfer, we offer a wide range of aluminum cylinder external finishes to cater to our customer's needs.

## Aluminum Cylinder External Finish Guide.

We are a leading provider of aluminum cylinders. With over 40 million cylinders in service globally, Luxfer is recognized for safety, dependability, and peace of mind.



### Mill Finish

- This is our standard unpainted finish.
- Minimal dressing is applied to the cylinder.
- This finish is applicable to both the body and the neck of a cylinder.
- A cost effective, straight-forward finish.



### Brushed Body Finish

- A uniformed finish, with only the body of the cylinder brushed.
- The brushed body cylinder finish is available with a mill finish or painted cylinder neck.



### Natural Finish

- A cylinder with no dressing to maintain the natural oxidized layer on the external body of the cylinder.
- This finish is applicable to both the body and the neck of a cylinder, up to diameter 152mm.
- A popular finish for SCUBA diving cylinders.



### Painting

- Wet and powdered painting is available at Luxfer Gas Cylinders.
- Paint colors can be selected to suit professional standards and cylinder application.
- A variety of painting styles are available upon request, such as: full body, neck-only, quarters and a cylinder shoulder band.



### Cylinder Sleeves

- Sleeves are available for specific cylinders, based on cylinder size and diameter.
- Cylinder sleeves can be purchased and fitted by Luxfer, or sleeves can be free-issued and fitted by the Luxfer team.
- Customized, branded sleeves are common for many different cylinder applications.

# SGS® Aluminum Cylinders

## Unmatched Gas Stability for Critical Applications

Luxfer's **SGS® (Superior Gas Stability) Type**

**1 aluminum cylinders** are purpose engineered for the most demanding **rare & electronic gases, ultra-high-purity gases, and reactive gas mixture applications**. Manufactured using **proprietary processes and rigorous quality controls**, SGS® cylinders are specifically designed to **keep ultra-high-purity gases free from impurities** and to **maintain the long term stability of reactive and very reactive gas mixtures** used in specialist industries.

## Engineered for Stability. Proven for Performance.

### What Sets Luxfer SGS® Cylinders Apart?

#### 1. Proprietary SGS® Internal Surface

Each SGS® cylinder undergoes a **unique, time sensitive manufacturing process**, creating an exceptionally clean, uniform internal surface. This specialist finish is engineered to **minimise gas-surface interactions**, which is critical for:

- **Preserving ultra-high-purity gases without introducing impurities**
- **Maintaining the stability of reactive and very reactive gas mixtures**

#### 2. Industry Leading Gas Stability

SGS® cylinders deliver **best in class gas stability**, ensuring that **rare & electronic gases and ultra-high-purity gases** retain their specified composition over extended storage periods. This stability is essential for applications where even trace contamination or concentration drift cannot be tolerated.

#### 3. Designed for Reactive & Specialty Gas Mixtures

SGS® cylinders are purpose built to support **reactive and very reactive gas mixtures**, helping to prevent decomposition, adsorption, or reaction with the cylinder surface. This makes them ideal for gases used in the:

- **Electronics and semiconductor industry**
- **Specialty gas production**
- **High-precision calibration and analytical applications**

#### 4. Independently Verified Performance

Independent laboratory testing confirms that the SGS® internal finish outperforms conventional cylinders in **surface cleanliness, consistency, and post-heat-treatment performance**, delivering superior **long-term gas stability** for both inert and reactive gases.

#### 5. Broad Range of Sizes & Customisation Options

Available from **0.5L to 50L**, SGS® cylinders can be customised with paint systems, markings, thread types, and protective accessories such as carrying handles and cap-and-collar assemblies — ensuring the right solution for each gas and application.

#### 2. Stability for Reactive Gas Mixtures

The SGS® internal surface supports the **long-term stability of reactive and very reactive gas mixtures**, reducing the risk of gas degradation and ensuring consistent performance in high-value applications.

#### 3. Extended Shelf Life & Consistent Gas Quality

Luxfer's advanced manufacturing processes help maintain precise gas concentrations, delivering **repeatable, reliable results** across analytical, industrial, and research environments.

#### 4. One of the Widest Cylinder Ranges in the Market

With capacities from **0.5L to 50L**, Luxfer offers scalable solutions for laboratory, specialty gas, and industrial supply — all manufactured to the same exacting SGS® standards.

#### 5. Trusted Manufacturing Expertise

As the **world's largest manufacturer of aluminum and composite high-pressure cylinders**, Luxfer is trusted globally for safety, consistency, and performance in the most demanding gas containment environments.

### Why Choose SGS

- **Unmatched Gas Stability** – Designed to keep ultra-high-purity gases free from impurities and reactive mixtures stable
- **Optimised for Rare Gases** – Engineered for long-term integrity and analytical accuracy
- **Ideal for Electronics & Specialty Gases** – Proven performance with reactive and very reactive gas mixtures
- **Independently Proven Performance** – Verified superiority over conventional cylinders
- **Exceptional Manufacturing Quality** – Proprietary processes ensure a superior internal surface finish
- **Enhanced Safety & Purity Protection** – Corrosion-resistant aluminum construction safeguards high-value gases throughout their lifecycle

### The Benefits of Luxfer SGS® Cylinders

#### 1. Ultra-High-Purity Gas Protection

SGS® cylinders are specifically designed to **supply ultra-high-purity gases in a clean, controlled environment**, keeping them **free from impurities throughout filling, storage, transport, and use**.

# International Range

## Trusted by Customers Across the Globe

Luxfer's international range showcases our most advanced cylinder technologies, trusted by customers across the globe. As pioneers in cold-extruded aluminum cylinders, we continue to lead the industry with high-performance solutions backed by more than 50 years of proven expertise. With a global footprint spanning all major gas sectors, Luxfer delivers reliability wherever it's needed.

Our commitment to sustainability is central to how we operate. From using low-carbon materials to implementing environmentally responsible manufacturing practices in the UK, we strive to reduce our impact while supporting a greener future. These principles ensure that every Luxfer cylinder meets the highest standards of safety, performance, and environmental stewardship worldwide.



## International Range - L6X Type 1 [UN] [DOT] [TC]

\*In Development. Please enquire on status

DOT-3AL parts are approved for sale in USA and in countries which recognise DOT-3AL

TC-3ALM parts are approved for sale in Canada

ISO 7866 parts are approved for sale in USA and Canada as "UN" pressure vessels and also in countries which recognise "UN" ISO 7866 cylinders

L6X Speciality gas parts can be supplied to SGS finish on request

ISO 7866 parts also comply with TPED requirements

Part Number	Design Standard	Water Capacity		Working Pressure		Diameter		Length		Weight		Thread	Typical Market	Equivalent to
		l	cu in	bar	psi	mm in	mm in	kg	lb					
A669/1/I	ISO 7866	0.2	12.2	232	3364	50	2	185	7.3	0.4	0.8	M14	Spec Gas / Medical	
A9771/I/	ISO 7866	0.2	12.2	200	2901	50	2	190	7.5	0.3	0.7	0.625" x 18 UNF	Spec Gas / Medical	
A963/1/I	ISO 7866	0.36	22	200	2901	50	2	305	12	0.5	1.1	0.625" x 18 UNF	Spec Gas / Medical	
A957/1/KB*	DOT-3AL + TC-3ALM	0.4	24.4	207	3000	60	2.4	255	10	0.7	1.5	M18	SCUBA	
A823/1/K*	DOT-3AL	0.5	30.5	124	1800	60	2.4	275	10.8	0.6	1.2	0.625" x 18 UNF	12oz CO2 cylinder	
A953/1/I	ISO 7866	0.5	30.5	200	2901	70	2.8	230	9.1	0.7	1.6	0.750" x 16 UNF	Spec Gas / Medical	
A240/1/K*	DOT-3AL	0.71	43.3	207	3000	81	3.2	267	10.5	1.4	3.1	0.625" x 16 UNF	SCUBA	
A822/1/K*	DOT-3AL	0.84	51.3	124	1800	81	3.2	260	10.2	0.9	1.9	0.625" x 18 UNF	20oz CO2 cylinder	
A950/1/I	ISO 7866	0.85	51.9	90	1305	75	3	268	10.5	0.5	1.1	1" x 14 UNS	Calibration	
A975/1/I	ISO 7866	1	61	200	2901	81	3.2	320	12.6	1.4	3.1	17E	Spec Gas / Medical	
A976/1/I	ISO 7866	1	61	200	2901	81	3.2	320	12.6	1.4	3.1	0.750" x 16 UNF	Spec Gas / Medical	
A837/1/KB*	DOT-3AL + TC-3ALM	1.016	62	153	2216	81	3.2	299	11.8	1.1	2.3	0.750" x 16 UNF	Spec Gas / Medical	N006-A1A, M006-A1A
A955/1/I	ISO 7866	1.6	98	90	1305	90	3.5	346	13.6	1.1	2.3	1" x 14 UNS	Calibration	
A981/1/I	ISO 7866	1.7	104	70	1015	90	3.5	346	13.6	0.8	1.8	1" x 14 UNS	Calibration	
A983/1/K	DOT-3AL	1.9	116	207	3000	111	4.4	338	13.3	2.7	6	0.750" x 16 UNF	Aerospace	
P3330IY*	ISO 7866 + DOT-3AL	2.16	132	180	2610	117	4.6	351	13.8	3.1	6.7	25E	Spec Gas / Medical	
P3400BY	DOT-3AL + TC-3ALM	4	244	150	2175	140	5.5	410	16.1	4.2	9.3	0.750" x 14 NGT	Spec Gas / Medical	
P3415Y*	DOT-3AL	4.64	283	139	2015	111	4.4	648	25.5	3.6	7.9	0.750" x 16 UNF	Medical	M024-A1A "ME24"
L3365Y	DOT-3AL	4.95	302	124	1800	152	6	460	18.1	5.0	10.9	25E	7.5lbs CO2	
P3332I	ISO 7866	5	305	200	2901	140	5.5	530	20.9	6.6	14.6	25E	Spec Gas / Medical	
P3286BY*	DOT-3AL + TC-3ALM	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	1.125" x 12 UNF	Spec Gas / Medical	N033-J3A
P3286Y*	DOT-3AL	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	1.125" x 12 UNF	Spec Gas / Medical	N033-J3A
P3296BY	DOT-3AL + TC-3ALM	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	0.750" x 14 NGT	Spec Gas / Medical	N033-P3A
P3296Y*	DOT-3AL	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	0.750" x 14 NGT	Spec Gas / Medical	N033-P3A
P3391I	ISO 7866	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	1.125" x 12 UNF	Spec Gas / Medical	N033-J3A (UN ISO 7866 version)
P3392I	ISO 7866	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	0.750" x 14 NGT	Spec Gas / Medical	N033-P3A (UN ISO 7866 version)
P3277Y*	DOT-3AL	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	0.750" x 16 UNF	Spec Gas / Medical	N033-A3A
P3278Y*	DOT-3AL	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	JIS V2	Spec Gas / Medical	

## International Range - L6X Type 1 [UN] [DOT] [TC]

Part Number	Design Standard	Water Capacity		Working Pressure		Diameter		Length		Weight		Thread	Typical Market	Equivalent to
		l	cu in	bar	psi	mm in	mm in	kg	lb					
P3377BY*	DOT-3AL + TC-3ALM	5.9	360	153	2216	176	6.9	397	15.6	6.4	14.1	25E	Spec Gas / Medical	N033-AJ3A
L3298BY*	DOT-3AL + TC-3ALM	6.69	408	124	1800	175	6.9	422	16.6	6.0	13.2	1.125" x 12 UNF	Fire (10lb CO2)	F010-J2C
P3281Y*	DOT-3AL	10	610	150	2175	140	5.5	895	35.2	8.1	17.9	0.750" x 14 NGT	Spec Gas / Medical	N052-P4A
P3336Y	DOT-3AL	10	610	180	2610	176	6.9	655	25.8	12.9	28.5	JIS V2	Spec Gas / Medical	
P3340I	ISO 7866	10	610	200	2901	140	5.5	965	38	11.6	25.6	25E	Spec Gas / Medical	
P3363Y*	DOT-3AL	10	610	150	2175	140	5.5	895	35.2	8.1	17.9	25E	Spec Gas / Medical	N052-O4A
L3319BY*	DOT-3AL + TC-3ALM	10.03	612	124	1800	175	6.9	589	23.2	7.9	17.5	1.125" x 12 UNF	Fire (15lb CO2)	F015-J2C
L3302BY*	DOT-3AL + TC-3ALM	11.21	684	124	1800	218	8.6	464	18.3	9.9	21.7	1.625" x 12 UNF	Fire (17lb CO2)	F017-R1A
L3105Y	DOT-3AL	13.4	818	124	1800	204	8	594	23.4	10.3	22.7	1.125" x 12 UNF	Beverage (20lb CO2)	C020-J3A
P3279Y*	DOT-3AL	15.3	934	124	1800	218	8.6	614	24.2	12.1	26.7	1.125" x 12 UNF	Beverage (23lb CO2)	C023-J3A
P3345Y*	DOT-3AL	15.3	934	124	1800	218	8.6	614	24.2	12.7	28	25E	Beverage (23lb CO2)	C023-O3A
P3396Y*	DOT-3AL	15.3	934	124	1800	218	8.6	614	24.2	12.7	28	0.750" x 14 NGT	Beverage (23lb CO2)	C023-P3A
P3287Y*	DOT-3AL	15.42	941	124	1800	218	8.6	600	23.6	13.5	29.7	M25	Fire (24lb CO2)	F024-M1A
P3406I	ISO 7866	20	1220	200	2901	204	8	960	37.8	24.8	54.6	25E	Spec Gas / Medical	
P3409Y	DOT-3AL	20	1220	200	2901	204	8	960	37.8	24.4	53.8	JIS V2	Spec Gas / Medical	
P3381Y*	DOT-3AL	20	1220	200	2901	204	8	960	37.8	24.4	53.8	25E	Spec Gas / Medical	
L3291BY*	DOT-3AL + TC-3ALM	23.42	1429	124	1800	204	8	966	38	17.2	37.9	1.125" x 12 UNF	Beverage (35lb CO2)	C035-J3A, A035-J3A, F035-J3A
P3288Y*	DOT-3AL	23.6	1440	147	2132	218	8.6	892	35.1	23.7	52.1	JIS V2	Spec Gas / Medical	N130-AD3A
P3300BY*	DOT-3AL + TC-3ALM	26.05	1590	207	3000	218	8.6	1058	41.7	30.9	68.1	0.750" x 14 NGT	Spec Gas / Medical	N200-P3A
P3328BY*	DOT-3AL + TC-3ALM	26.05	1590	207	3000	218	8.6	1058	41.7	30.9	68.1	1.125" x 12 UNF	Spec Gas / Medical	N200-J3A
P3284BY	DOT-3AL + TC-3ALM	29.5	1800	139	2015	204	8	1216	47.9	21.3	47	0.750" x 14 NGT	Spec Gas / Medical	N150-P3A
P3299BY	DOT-3AL + TC-3ALM	29.5	1800	139	2015	204	8	1216	47.9	22.0	48.5	1.125" x 12 UNF	Spec Gas / Medical	N150-J3A
P3316BY*	DOT-3AL + TC-3ALM	29.5	1800	139	2015	204	8	1216	47.9	21.4	47.1	25E	Spec Gas / Medical	N150-O3A
P3335Y*	DOT-3AL	29.5	1800	139	2015	204	8	1216	47.9	21.3	47	JIS V2	Spec Gas / Medical	N150-AD3A
P3389I	ISO 7866	29.5	1800	139	2015	204	8	1216	47.9	22.0	48.5	1.125" x 12 UNF	Spec Gas / Medical	N150-J3A (UN ISO 7866 version)
P3306Y*	DOT-3AL	46.4	2832	153	2216	250	9.8	1305	51.4	38.9	85.6	25E	Spec Gas / Medical	N265-O3A
P3390I	ISO 7866	29.5	1800	139	2015	204	8	1216	47.9	22.0	48.5	0.750" x 14 NGT	Spec Gas / Medical	N150-P3A (UN ISO 7866 version)
P3307Y*	DOT-3AL	29.5	1800	139	2015	204	8	1216	47.9	21.3	47	25E	Spec Gas / Medical	N150-O3A
P3331BY*	DOT-3AL + TC-3ALM	29.5	1800	139	2015	204	8	1216	47.9	21.3	47	0.750" x 16 UNF	Spec Gas / Medical	N150-A3A
L3301BY*	DOT-3AL + TC-3ALM	33.43	2040	124	1800	218	8.6	1177	46.3	21.9	48.3	1.125" x 12 UNF	Beverage (50lb CO2)	C050-J3A, A050-J3A, F050-J3A, N155-J3A
P3347I	ISO 7866	40	2441	200	2901	229	9	1440	56.7	45.3	99.9	25E	Spec Gas / Medical	

## International Range - L6X Type 1 [UN] [DOT] [TC]

Part Number	Design Standard	Water Capacity		Working Pressure		Diameter		Length		Weight		Thread	Typical Market	Equivalent to
		l	cu in	bar	psi	mm in	mm in	kg	lb					
P3283Y*	DOT-3AL	40.2	2453	147	2132	250	9.8	1130	44.5	32.8	72.2	0.750" x 14 NGT	Spec Gas / Medical	N219-P3A
P3293Y*	DOT-3AL	40.2	2453	147	2132	250	9.8	1155	45.5	32.8	72.2	1.125" x 12 UNF	Spec Gas / Medical	N219-J3A
P3343Y*	DOT-3AL	40.2	2453	147	2132	250	9.8	1130	44.5	32.8	72.2	JIS V2	Spec Gas / Medical	N219-AD3A
P3362Y*	DOT-3AL	40.2	2453	147	2132	250	9.8	1130	44.5	32.8	72.2	25E	Spec Gas / Medical	N219-O3A
P3364Y*	DOT-3AL	42.7	2606	147	2132	250	9.8	1210	47.6	34.4	75.8	JIS V2	Spec Gas / Medical	
P3280BY	DOT-3AL + TC-3ALM	46.4	2832	153	2216	250	9.8	1305	51.4	38.4	84.7	0.750" x 14 NGT	Spec Gas / Medical	N265-P3A
P3280Y*	DOT-3AL	46.4	2832	153	2216	250	9.8	1305	51.4	38.4	84.7	0.750" x 14 NGT	Spec Gas / Medical	N265-P3A
P3306BY*	DOT-3AL + TC-3ALM	46.4	2832	153	2216	250	9.8	1305	51.4	38.9	85.6	25E	Spec Gas / Medical	N265-O3A
P3312BY*	DOT-3AL + TC-3ALM	46.4	2832	153	2216	250	9.8	1305	51.4	38.4	84.7	1.125" x 12 UNF	Spec Gas / Medical	N265-J3A
P3285Y	DOT-3AL	47.5	2899	153	2216	250	9.8	1350	53.1	42.0	92.6	JIS V2	Spec Gas / Medical	N269-AD3A
P3311Y	DOT-3AL	47.5	2899	147	2132	250	9.8	1350	53.1	42.0	92.6	JIS V2	Spec Gas / Medical	N260-AD3A
P3315BY*	DOT-3AL + TC-3ALM	47.5	2899	153	2216	250	9.8	1350	53.1	41.6	91.7	25E	Spec Gas / Medical	N269-O3A
P3359YI	ISO 7866 + DOT-3AL	47.5	2899	153	2216	250	9.8	1360	53.5	42.9	94.6	25E	Spec Gas / Medical	N269-O3A
P3292BY*	DOT-3AL + TC-3ALM	47.5	2899	153	2216	250	9.8	1350	53.1	42.0	92.6	1.125" x 12 UNF	Spec Gas / Medical	N269-J3A
P3294BY*	DOT-3AL + TC-3ALM	47.5	2899	153	2216	250	9.8	1350	53.1	42.0	92.6	M25	Spec Gas / Medical	N269-M3A
P3295BY*	DOT-3AL + TC-3ALM	47.5	2899	153	2216	250	9.8	1350	53.1	42.0	92.6	0.750" x 14 NGT	Spec Gas / Medical	N269-P3A
P3342I	ISO 7866	50	3051	200	2901	250	9.8	1500	59.1	57.1	125.8	25E	Spec Gas / Medical	

## International Range - L7X Type 1 [UN]

Part Number	Design Standard	Water Capacity		Working Pressure		Diameter		Length		Weight		Thread	Typical Market	Equivalent to
		l	cu in	bar	psi	mm in	mm in	kg	lb					
P7064I	ISO 7866	4.54	277	207	3000	111	4.4	641	25.2	3.95	1.8	0.750" x 16 UNF	Medical	M036-A1C "ME36" (UN ISO 7866 version)

\*In Development. Please enquire on status

DOT-3AL parts are approved for sale in USA and in countries which recognise DOT-3AL

TC-3ALM parts are approved for sale in Canada

ISO 7866 parts are approved for sale in USA and Canada as "UN" pressure vessels and also in countries which recognise "UN" ISO 7866 cylinders

L6X Speciality gas parts can be supplied to SGS finish on request

ISO 7866 parts also comply with TPED requirements





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