

# Liquid Cylinders for Storage and Transportation

Three vessels from the wide range of XL liquid cylinders



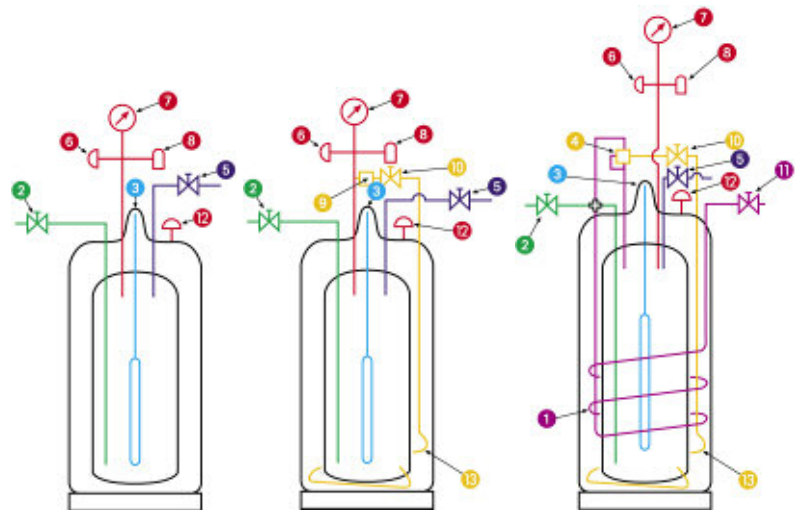
Storage and transport cylinders for liquefied gases represent important components of the Taylor-Wharton Cryo-Science Technology. The inner and outer vessels are made of stainless steel, and all vessels comply with the European Directive 1999/36/EC for transportable pressure equipment (TPED).

## Series XL 70 to XL 240

These cylinders are transportable units built to rugged construction standards. They are designed for the low-pressure requirements of liquid nitrogen filling, storing and dispensing and feature easy, quick liquid withdrawal.

## Series XL 45 to XL 65

These road-transportable cylinders feature automatic pressure-building and economizer circuits. Low-loss holding capabilities help conserve gas during low demand periods. These units set the standard for liquid cylinder performance in the gas industry.



**XL 120CE**  
**XL 160CE**  
**XL 180/20CE**  
**XL 180/26CE**  
**XL 240CE**  
 without pressure-building system

**XL 70PBCE**  
**XL 120PBCE**  
**XL 180/26PBCE**  
**XL 240PBCE**  
 with pressure-building (PB) system

**XL 45CE**  
**XL 45HPCE**  
**XL 50CE**  
**XL 55HPCE**  
**XL 65HPCE**  
 with pressure-building and economizer system

- Safety
- Venting
- Liquid withdrawal
- Liquid level
- Vaporizer and gas withdrawal
- Pressure building

- 1 Vaporizer
- 2 Fill and withdrawal valve
- 3 Liquid level gauge
- 4 Dual regulator
- 5 Vent valve
- 6 Inner bursting disc
- 7 Pressure gauge
- 8 Pressure relief valve
- 9 PB regulator
- 10 Pressure building valve
- 11 Gas withdrawal (use) valve
- 12 Outer bursting disc
- 13 Pressure building coil



Storage and Transport Cylinders

Specifications		XL70PBCE	XL120CE	XL120PBCE	XL160CE	XL180/20CE	XL180/26CE	XL180/26PBCE	XL240CE	XL240PBCE
Models										
Gross capacity	l	70	126	126	163	186	189	189	250	250
Net capacity	l	67	120	120	160	180	181	181	240	240
Max. working pressure	bar	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Evaporation rate <sup>(1)</sup> N <sub>2</sub> /Day		3,5	2,3	2,4	1,5	1,3	1,3	1,3	1,4	1,4
Liquid withdrawal rate	l/min	6	6	6	6	6	15	15	20	20
Weight, empty	kg	71	82	82	104	115	116	116	137	137
Weight, full N <sub>2</sub>	kg	125	179	179	234	260	263	263	332	332
Height	mm	1115	1350	1350	1464	1635	1280	1280	1510	1510
Diameter	mm	508	508	508	508	508	660	660	660	660
Casters <sup>(2)</sup>		5	5	5	–	–	5	5	5	5
Auto. pressure building		yes	no	yes	no	no	no	yes	no	yes
Part. No.		L070-0C03 TPED	L120-0C01 TPED	L120-0C03 TPED	L160-0C00 TPED	L180-0C00 TPED	L186-0C01 TPED	L186-0C03 TPED	L240-0C01 TPED	L240-0C03 TPED

Specifications		XL45CE	XL45HPCE	XL50CE	XL55HPCE	XL65HPCE
Models						
Gross capacity	l	180	176	188	208	247
Net capacity	l	169	165	176	198	240
Max. working pressure	bar	15,9	24	15,9	24	24
Evaporation rate <sup>(1)</sup> O <sub>2</sub> /Day		1,2	1,4	1,1	1,2	1,5
Gas withdrawal rate	N <sub>2</sub> /m <sup>3</sup> /h	9,2	9,2	9,2	9,2	9,2
Weight, empty	kg	133	151	139	164	201
Weight, full N <sub>2</sub>	kg	269	284	281	324	395
Height	mm	1562	1559	1614	1764	1476
Diameter	mm	508	508	508	508	660
Casters <sup>(2)</sup>		–	–	–	–	5
Part. No.		GL45-0C12 TPED	HP45-0C12 TPED	GL50-0C12 TPED	HP55-0C12 TPED	HP65-0C12 TPED

Accessories (see also p. 26)	
Trolley	for XL160, XL180 XL45, XL50, XL55
Withdrawal hose 1,2m (N <sub>2</sub> )	1700-9C65W
Withdrawal hose 1,8m (N <sub>2</sub> )	1600-9C66W
Phase separator	1193-8C80
Electronic level gauge	Information available upon request



**Trolley**

This special trolley makes it easy to pick up and transport cylinders.

<sup>(1)</sup> Vented NER, based on useable liquid capacity

<sup>(2)</sup> Non-magnetic casters for MRT applications available upon request

We can also deliver larger storage tanks for the supply of nitrogen to a multiple installation