

# CRYO-CYL<sup>®</sup>

## LIQUID CYLINDER

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Like the Dura-Cyl<sup>®</sup> models, the Cryo-Cyl<sup>®</sup> Liquid Cylinder series is designed and built to meet the rugged demands of the liquid cylinder market. However, in contrast, this model is designed specifically for liquid and low to medium gas flow applications.\* By specifically targeting these applications, we are able to offer this model at an economical value over our premium Dura-Cyl series.

\* The 35L and 50L models are only used for liquid nitrogen.



### 80L PRODUCT HIGHLIGHTS

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- Ideal for liquid nitrogen, oxygen, argon, CO<sub>2</sub> or nitrous oxide
- Stainless steel bottle construction
- Heavy-duty footring and large diameter handling ring with two supports
- Roto-Tel™ Liquid Level Gauge System
- 7-year vacuum warranty

### 35L & 50L PRODUCT HIGHLIGHTS

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- Liquid nitrogen only
- No pressure builder
- 22 & 35 psig relief valves
- Differential pressure liquid level gauge
- 4" diameter nickel plated casters

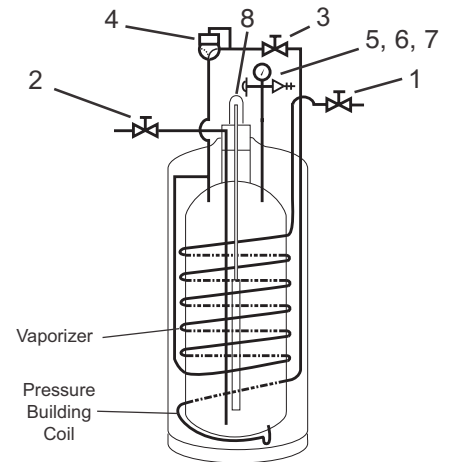


Innovation. Experience. Performance.™

# CRYO-CYL<sup>®</sup>

## LIQUID CYLINDER

Specifications				
MODEL		35L	50L	80 L
	Pressure	LP	LP	HP
	Part Number	10980671	10980663	10648610
<b>CAPACITY<sup>(1)(2)</sup></b>				
Liquid (Gross)	(liters)	35	50	85
Liquid (Net)	(liters)	N/A	N/A	80
Gas (N <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	N/A	N/A	1,680 / 44
Gas (O <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	N/A	N/A	2,108 / 55
Gas (Ar)	ft <sup>3</sup> / Nm <sup>3</sup>	N/A	N/A	2,049 / 54
Gas (CO <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	N/A	N/A	1,640 / 43
Gas (N <sub>2</sub> O)	ft <sup>3</sup> / Nm <sup>3</sup>	N/A	N/A	1,555 / 41
<b>PERFORMANCE</b>				
NER (N <sub>2</sub> )	% per day	4.0	4.0	3.0
NER (O <sub>2</sub> - Ar)	% per day	N/A	N/A	2.0
NER (CO <sub>2</sub> - N <sub>2</sub> O)	% per day	N/A	N/A	0.8
Gas Flow (N <sub>2</sub> , O <sub>2</sub> , Ar) <sup>(3)</sup>	SCFH/Nm <sup>3</sup> /hr	N/A	N/A	100 / 2.6
Gas Flow (CO <sub>2</sub> , N <sub>2</sub> O)	SCFH/Nm <sup>3</sup> /hr	N/A	N/A	35 / 0.9
<b>DIMENSIONS &amp; PRESSURE RATINGS</b>				
Relief Valve Setting	psig / barg	22 / 1.5	22 / 1.5	350 / 24
Operating Pressure <sup>(4)</sup>	psig / barg	22 / 1.5	22 / 1.5	125 / 8.6
DOT/TC Rating		N/A <sup>(5)</sup>	N/A <sup>(5)</sup>	4L292
Diameter	in / cm	16 / 40.6	16 / 40.6	20 / 50.8
Height <sup>(6)</sup>	in / cm	34.75 / 88.3	40.5 / 103.5	39.5 / 100.3
Tare Weight	lb / kg	85.5 / 38.8	98.5 / 47.7	165 / 74.8
Full Weight (N <sub>2</sub> )	lb / kg	58 / 26.3	83 / 37.6	287 / 130
(O <sub>2</sub> )	lb / kg	N/A	N/A	340 / 155
(Ar)	lb / kg	N/A	N/A	377 / 171
(CO <sub>2</sub> )	lb / kg	N/A	N/A	353 / 161



### Nomenclature

1. Gas Use / Vent Valve
2. Fill / Liquid Valve
3. Pressure Building Valve
4. Pressure Building Regulator
5. Pressure Gauge
6. Pressure Relief Valve
7. Rupture Disk
8. Liquid Level Gauge

**Model: 80L HP - High Pressure**  
(Liquid or Gas Use)

- (1) Net gas capacities at DOT 4L limits.
- (2) The Cryo-Cyl model is available with permanently installed CGA fittings for medical applications. Contact Customer Service for details.
- (3) Gas flows of twice the continuous flow rate can be achieved for one hr. over an eight hr. period.
- (4) Pressure building regulator range (50-175 psi).
- (5) Less than 40.3 psig MAWP – not applicable under DOT 4L.
- (6) Height dimensions are measured from the floor to the top of the sight gauge protector.

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