

# LASER-CYL®

## HIGH PRESSURE LIQUID CYLINDERS

Laser-Cyl® Liquid Cylinders are designed specifically for laser applications, as a high performance option to expensive high pressure cylinder tanks. The Laser-Cyl series delivers optimal pressure up to 500 psig (34.5 barg) and continuous flow rates up to 575 SCFH (15.1 Nm<sup>3</sup>/hr).

*\*Chart liquid cylinders are designed to be used in a full for empty exchange program. They are not designed to be permanently installed in mobile applications.*



### PRODUCT HIGHLIGHTS

- Built-in vaporizer coils supply constant pressure gas at continuous flow rates up to 575 SCFH (15.1 Nm<sup>3</sup>/hr)
- Piping controls located on top for easy operation and maintenance
- Differential pressure liquid level gauge accurately displays product level. (450L only)
- Insulation system provides low NER for longer holding time
- Available in 200 and 450 liter sizes
- Optional pallet frame available for 450L size only
- Seven-year vacuum warranty



The C-Stic Liquid Level Gauge offers improved accuracy and reads zero to 100% full. (On the Laser-Cyl 200VHP model only. The 450VHP model is equipped with the Orange Research DP gauge.)

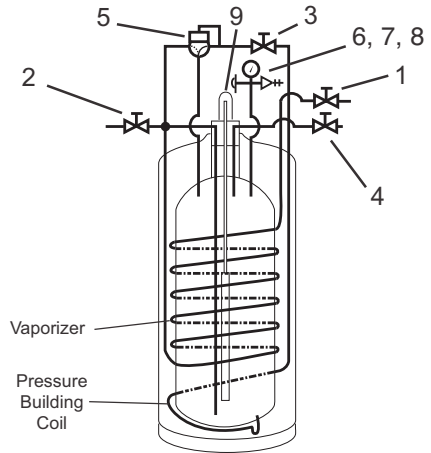


# LASER-CYL®

## HIGH PRESSURE LIQUID CYLINDERS

Specifications			
MODEL		200	450
	Pressure	VHP	VHP
	Part Number	21427026	10619659
<b>CAPACITY<sup>(1)</sup></b>			
Liquid (Gross)	(liters)	200	450
Liquid (Net)	(liters)	196	428
Gas (N <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	3,521 / 93	7,922 / 208
Gas (O <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	4,674 / 123	10,519 / 276
Gas (Ar)	ft <sup>3</sup> / Nm <sup>3</sup>	4,552 / 120	10,241 / 269
Gas (CO <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	3,537 / 93	7,960 / 209
Gas (N <sub>2</sub> O)	ft <sup>3</sup> / Nm <sup>3</sup>	3,333 / 88	7,516 / 197
<b>PERFORMANCE</b>			
NER (N)	% per day	2.0	2.0
NER (O <sub>2</sub> - Ar)	% per day	1.4	1.4
NER (CO <sub>2</sub> - N <sub>2</sub> O)	% per day	0.5	0.5
Gas Flow (N <sub>2</sub> , O <sub>2</sub> , Ar)	SCFH/Nm <sup>3</sup> /hr	350 / 9.2	575 / 15.1
Gas Flow (CO <sub>2</sub> , N <sub>2</sub> O)	SCFH/Nm <sup>3</sup> /hr	110 / 2.9	180 / 4.7
<b>DIMENSIONS &amp; PRESSURE RATINGS</b>			
Relief Valve Setting	psig / barg	500 / 34.5	500 / 34.5
DOT/CTC Rating		4L412	4L412
Diameter (cylinder)	in / cm	20 / 50.8	30 / 76.2
Height (cylinder) <sup>(2)</sup>	in / cm	65.8 / 167.1	61.3 / 155.7
Base Width (frame)	in / cm	—	34 / 86.4
Base Depth (frame)	in / cm	—	34 / 86.4
Base Height (frame)	in / cm	—	73.8 / 187.5
Tare Weight <sup>(3)</sup>	lb / kg	375 / 170	1,265 / 574
Full Weight (N <sub>2</sub> )	lb / kg	630 / 286	1,839 / 836
(O <sub>2</sub> )	lb / kg	762 / 346	2,136 / 971
(Ar)	lb / kg	846 / 384	2,324 / 1,056
(CO <sub>2</sub> )	lb / kg	791 / 360	2,202 / 1,001

(1) Net gas capacities at DOT 4L limits.  
 (2) All dimensions are measured from the floor to the top of the sight gauge protector.  
 (3) Weights are approximate and vary with pallet design.



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

Model: 200