# DURA-CYL

## PREMIUM LIQUID CYLINDERS - FOOTRING

The Dura-Cyl<sup>®</sup> Liquid Cylinder series is a premium transportable liquid cylinder for cryogenic service. The patented internal support system design and quality construction makes the Dura-Cyl series the most efficient yet rugged cylinder on the market today. Along with our premium Liquid Cylinder Control Manifold (LCCM) regulator and our wide choice of caster base options<sup>(1)</sup>, the Dura-Cyl series is also the most userfriendly cylinder available. Adding our industry-leading seven-year vacuum warranty and you get the lowest cost of ownership - making the Dura-Cyl the preferred choice in transportable liquid cylinders.

See Caster Base specification sheet (PN 14336761).

\*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.



The C-Stic Liquid Level Gauge offers improved accuracy and reads zero to 100% full.



LCCM Models have an integral mounted combination pressure control regulator with an isolation valve. (MP & HP models only)



The Dura-Cyl LP models are equipped with a liquid globe valve with an extended stem allows less ice build-up on the handle for easier operation.



LP Models are offered with the LP PB Regulator Kit as standard equipment when ordered. Chart Parts will continue to stock the Kit for Retrofit options.



### PRODUCT HIGHLIGHTS

- Ideal for liquid nitrogen, oxygen, argon, CO<sub>2</sub> or nitrous oxide
- Different sizes, pressures, and features to meet your needs
- Stainless steel construction
- Thick, dent-resistant outer shell
- Patented durable, inner-vessel support system
- Heavy-duty footring and large diameter handling ring with four supports
- Liquid Cylinder Control Manifold (LCCM), standard for MP, HP & VHP models
- C-Stic Capacitance Liquid Level Gauge System/ Accuracy +/- 1%
- Seven-year vacuum warranty
- PB Regulator Kit now standard on LP Models





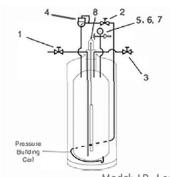
## PREMIUM LIQUID CYLINDERS - FOOTRING

Specifications Specification						
MODEL		180 L	180 L	180 L	200 L	200 L
	Pressure	LP	MP	HP	MP	HP
LCCM	Part Number		10508764	10496433	10508772	10496417
W/PB Reg kit (4)	Part Number	21524497				
Capacity (1)(2)			<u> </u>			
Liquid (Gross)	(Liters)	196	196	196	209	209
Liquid (Net)	(Liters)	185	185	185	196	196
Gas (N <sub>2</sub> )	ft³ / Nm³		4,099/108	3,864/102	4,375/115	4,072/108
Gas (O <sub>2</sub> )	ft³ / Nm³		5,096/134	4,843/127	5,435/143	5,048/133
Gas (Ar)	ft³ / Nm³		4,961/130	4,709/124	5,290/139	4,932/130
Gas (CO <sub>2</sub> )	ft³ / Nm³			3,766/99		4,011/105
Gas (N <sub>2</sub> O)	ft³ / Nm³			3,574/94		3,810/100
Performance			<b>'</b>			
NER (N <sub>2</sub> )	% per day	1.5	1.9	1.9	1.85	1.85
NER (O <sub>2</sub> -Ar)	% per day	1.0	1.3	1.3	1.2	1.2
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/Nm³/hr		350/9.2	350/9.2	400/10.5	400/10.5
Gas Flow (CO <sub>2</sub> , N <sub>2</sub> O)	SCFH/Nm³/hr			110/2.9		110/2.9
Dimensions & Pressure Ra	atings					
Relief Valve Setting	psig/barg	22/1.5	230/16	350/24	230/16	350/24
DOT/TC Rating		4L100	4L200	4L292	4L200	4L292
Diameter	in/cm	20/5.8	20/5.8	20/50.8	20/50.8	20/50.8
Height (3)	in/cm	64.3/163.3	64.3/163.3	64.3/163.3	66.6/169.2	66.6/169.2
Tare Weight	lb/kg	210/95.2	300/136.1	300/136.1	320/145.1	320/145.1
Full Weight (N <sub>2</sub> )	lb/kg	540/245	580/263	580/263	618/280	618/280
(0 <sub>2</sub> )	lb/kg	676/307	701/318	701/318	747/339	747/339
(Ar)	lb/kg	778/354	787/357	787/357	839/380	839/380
(CO <sub>2</sub> )	lb/kg			731/331		779/353

(1) Gas capacities at DOT4L limits. See manual P/N 10642912 for details.

NER = Nominal Evaporation Rate

- $(2) \, {\sf Most} \, {\sf of} \, {\sf the} \, {\sf Dura-Cyl} \, {\sf models} \, {\sf are} \, {\sf available} \, {\sf with} \, {\sf permanently} \, {\sf installed} \, {\sf CGA} \, {\sf fittings} \, {\sf for} \, {\sf medical} \, {\sf applications}. \, {\sf Contact} \, {\sf customer} \, {\sf service} \, {\sf for} \, {\sf details}.$
- (3) Dimensions are measured from the floor to the top of the sight gauge protector.
- (4) Pressure building regulator standard on LP models.

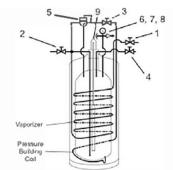


## Nomenclature

- 1. Fil / Liquid Valve
- 2. Pressure Building Valve
- 3. Vent Valve
- 4. Pressure Building Regulator
- 5. Pressure Gauge
- 6. Pressure Relief Valve

8. Liquid Level Gauge

- 7. Rupture Disk
- Model: LP Low Pressure (Liquid Use Only)



#### Nomenclature

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

Model: MP & HP - Medium & High Pressure (Liquid or Gas Use)

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