PREMIUM LIQUID CYLINDERS - FOOTRING

The Dura-Cyl® 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 the patented Liquid Cylinder Control Manifold (LCCM) and our wide choice of caster base options (1), the Dura-Cyl series is also the most user-friendly 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.

(1) See Caster Base specification sheet (PN 14336761).



The Roto-Tel™ Liquid Level Gauge offers improved accuracy and expanded gauge ranges for better resolution.



LCCM models have an integral mounted combination pressure control regulator, isolation valve and a calibrated dome control knob. (MP & HP models only)



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



MCR models have a combination pressure control regulator with an exclusive, calibrated micrometer adjusting screw.

(MP & HP models only)



PRODUCT HIGHLIGHTS

- Ideal for liquid nitrogen, oxygen, argon, CO₂ 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
- Optional Micrometer Controlled Regulator (MCR) or Liquid Cylinder Control Manifold (LCCM)
- Roto-Tel Liquid Level Gauge System
- Seven-year vacuum warranty





PREMIUM LIQUID CYLINDERS - FOOTRING

Footring Specifications									
MODEL		160 L	160 L	180 L	180 L	180 L	200 L	200 L	200 L
	Pressure	MP	HP	LP	MP	HP	LP	MP	HP
LCCM	Part Number	10508748	10508756	_	10508764	10496433	_	10508772	10496417
MCR	Part Number	10783424	10783467	_	10783491	10783539		10783598	10783619
None ⁽⁴⁾	Part Number	_	_	10648450		_	13277869	_	_
CAPACITY ⁽¹⁾⁽²⁾									
Liquid (Gross)	(liters)	176	176	196	196	196	209	209	209
Liquid (Net)	(liters)	165	165	185	185	185	196	196	196
Gas (N ₂)	ft ³ / Nm ³	3,685 / 97	3,464 / 91	_	4,099 / 108	3,864 / 102	_	4,375 / 115	4,072 / 108
Gas (0 ₂)	ft ³ / Nm ³	4,577 / 120	4,348 / 114	_	5,096 / 134	4,843 / 127	_	5,435 / 143	5,048 / 133
Gas (Ar)	ft ³ / Nm ³	4,448 / 117	4,226 / 111	_	4,961 / 130	4,709 / 124		5,290 / 139	4,932 / 130
Gas (CO ₂)	ft ³ / Nm ³		3,382 / 89	_	_	3,766 / 99	_		4,011 / 105
Gas (N ₂ 0)	ft ³ / Nm ³	_	3,207 / 84	_	-	3,574 / 94	_	_	3,810 / 100
PERFORMANCE									
NER (N ₂)	% per day	2.0	2.0	1.5	1.9	1.9	1.85	1.85	1.85
NER (0 ₂ - Ar)	% per day	1.4	1.4	1.0	1.3	1.3	1.2	1.2	1.2
NER (CO ₂ - N ₂ O)	% per day	_	0.5	_	_	0.5	_	_	0.5
Gas Flow (N ₂ , O ₂ , Ar)		350 / 9.2	350 / 9.2	_	350 / 9.2	350 / 9.2	_	400 / 10.5	400 / 10.5
Gas Flow (CO_2 , N_2O)	SCFH/Nm ³ /hr		110 / 2.9	_	_	110 / 2.9	_		110 / 2.9
DIMENSIONS & PRESSURE RATINGS									
Relief Valve Setting	psig / barg	230 / 16	350 / 24	22 / 1.5	230 / 16	350 / 24	22 / 1.5	230 / 16	350 / 24
DOT/TC Rating	, , ,	4L200	4L292	4L100	4L200	4L292	4L100	4L200	4L292
Diameter	in / cm	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8
Height ⁽³⁾	in / cm	59.8 / 151.9	59.8 / 151.9	64.3 / 163.3	64.3 / 163.3	64.3 / 163.3	66.6 / 169.2	66.6 / 169.2	66.6 / 169.2
Tare Weight	lb / kg	250 / 113.4	280 / 126.9	210 / 95.2	260 / 117.9	300 / 136.1	210 / 95.2	280 / 126.9	320 / 145.1
Full Weight(N ₂)	lb/kg	517 / 234	531 / 241	540 / 245	557 / 253	580 / 263	559 / 253.5	597 / 271	618 / 280
(0_2)	lb/kg	629 / 285	640 / 290	676 / 307	682 / 309	701 / 318	706 / 320.2	730 / 331	747 / 339
(Ar)	lb / kg	710 / 322	717 / 325	778 / 354	773 / 351	787 / 357	821 / 372.4	827 / 375	839 / 380
(CO ₂)	lb/kg		667 / 303	_	-	731 / 331	_	_	779 / 353

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

(2) Most of the Dura-Cyl models are available with permanently installed CGA fittings for medical applications. Contact Customer Service for details.

Nomenclature

2. Pressure Building Valve

Regulator (optional)

6. Pressure Relief Valve

8. Liquid Level Gauge

1. Fill / Liquid Valve

4. Pressure Building

5. Pressure Gauge

7. Rupture Disk

3. Vent Valve

(3) Dimensions are measured from the floor to the top of the sight gauge protector. (4) Pressure building regulator optional on LP models.

Pressure

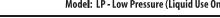
NER=Nominal Evaporation Rate

- 1. Gas Use Valve
- 2. Fill / Liquid Valve
- 3. Pressure Building Valve

Nomenclature

- 4. Vent Valve
- 5. Combination Pressure Building Regulator
- 6. Pressure Gauge
- 7. Pressure Relief Valve
- 8. Rupture Disk
- 9. Liquid Level Gauge

Model: LP - Low Pressure (Liquid Use Only)



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Pressure



Building

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