



ESTD. 1960

DELUXE INDUSTRIAL GASES

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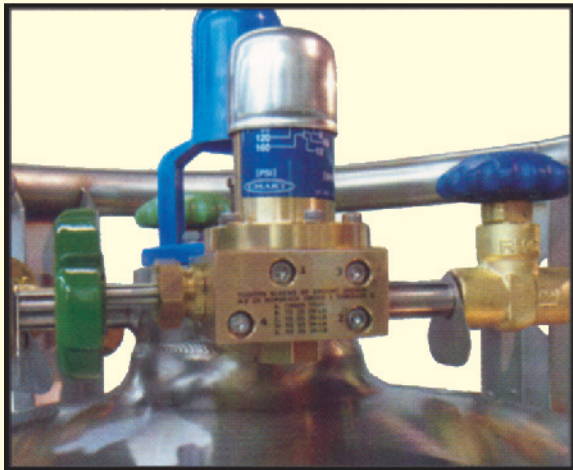
The Roto-Cal™ gauge features an easy-to-read dial liquid level indicator with swivel head design.



Dura-Cyl® medium & high pressure liquid cylinders provide the longest holding time, lowest evaporation rate, highest gas-withdrawal rate and best life-cycle cost.

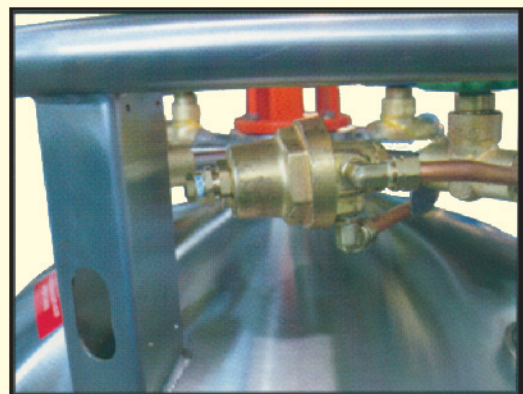
PRODUCT HIGHLIGHTS

- Ideal for liquid nitrogen, oxygen, argon, CO₂ or nitrous oxide
- Different sizes and pressures to better meet your needs
- Stainless Steel Vessel
- Thicker, Dent-resistant Outer Shell
- Durable, Inner-vessel Support System
- Heavy-duty Footring and Large Diameter Handling Ring With Four Supports
- Combination Pressure Control Regulator
- Roto-Cal Liquid Level Gauge System



LCCM MODELS :

- Integral mounted dual regulator that controls pressure building and economizer function
- Eliminates copper piping and fittings
- Easy to dial knob



MCR MODELS

- Combination pressure control regulator
- Calibrated micrometer adjusting screw



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Specifications

MODEL SIZE		160L	160L	180L	180L	200L	200L	230L RB**	230L RB**	230L SB***	230L SB***	265L RB**	265L RB**	265L SB***	265L SB***
	Pressure	MP	HP	MP	HP	MP	HP	MP	HP	MP	HP	MP	HP	MP	HP
LCCM	Part Number	10508748	10508756	10508764	10496433	10508772	10496417	10602822	10616546	10496468	10496492	---	---	10510039	10512561
MCR	Part Number	10783424	10783467	10783491	10783539	10783598	10783619	10783635	10783651	10810779	10794027	10783678	10783694	---	---
CAPACITY															
Liquid (Gross)	(liters)	176	176	196	196	209	209	240	240	240	240	276	276	276	276
Liquid (Net)	(liters)	165	165	185	185	196	196	230	230	230	230	265	265	265	265
Gas (N ₂)*	ft ³ / Nm ³	3685 / 97	3464 / 91	4099 / 108	3864 / 102	4375 / 115	4072 / 108	5024 / 132	4734 / 124	5024 / 132	4734 / 124	5769 / 152	5438 / 143	5769 / 152	5438 / 143
Gas (O ₂)*	ft ³ / Nm ³	4577 / 120	4348 / 114	5096 / 134	4843 / 127	5435 / 143	5048 / 133	6244 / 164	5930 / 156	6244 / 164	5930 / 156	7186 / 189	6811 / 179	7186 / 189	6811 / 179
Gas (Ar)*	ft ³ / Nm ³	4448 / 17	4226 / 111	4961 / 130	4709 / 124	5290 / 139	4932 / 130	6073 / 160	5763 / 151	6073 / 160	5763 / 151	6982 / 183	6634 / 174	6982 / 183	6634 / 174
Gas (CO ₂)*	ft ³ / Nm ³	---	3382 / 89	---	3766 / 99	---	4011 / 105	---	4614 / 121	---	4614 / 121	---	5305 / 139	---	5305 / 139
Gas (N ₂ O)*	ft ³ / Nm ³	---	3207 / 84	---	3574 / 94	---	3810 / 100	---	4378 / 115	---	4378 / 115	---	5-34 / 132	---	5-34 / 132
PERFORMANCE															
NER (N ₂)	% per day	2	2	1.9	1.9	1.85	1.85	1.85	1.85	1.85	1.85	2	2	2	2
NER (O ₂ -Ar)	% per day	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4
NER (CO ₂ -N ₂ O)	% per day	---	0.5	---	0.5	---	0.5	---	0.5	---	0.5	---	0.5	---	0.5
Gas Flow (N ₂ , O ₂ , Ar)	ft ³ /hr/Nm ³ /hr	350 / 9.2	350 / 9.2	350 / 9.2	350 / 9.2	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5	400 / 10.5
Gas Flow (CO ₂ , N ₂ O)	ft ³ /hr/Nm ³ /hr	---	110 / 2.9	---	110 / 2.9	---	110 / 2.9	---	110 / 2.9	---	110 / 2.9	---	110 / 2.9	---	110 / 2.9
DIMENSIONS & PRESSURE RATINGS															
Relief Valve Setting	psig / barg	230 / 16	350 / 24	230 / 16	350 / 24	230 / 16	350 / 24	230 / 16	350 / 24	230 / 16	350 / 24	230 / 16	350 / 24	230 / 16	350 / 24
DOT / CTC Rating		4L200	4L200	4L200	4L200	4L200	4L200	4L200	4L292	4L292	4L292	4L200	4L292	4L200	4L292
Diameter	in / cm	20/50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	20 / 50.8	26 / 66.0	26 / 66.0	26 / 66.0	26 / 66.0	26 / 66.0	26 / 66.0	26 / 66.0	26 / 66.0
Height	in / cm	59.8 / 151.9	59.8 / 151.9	64.3 / 163.3	64.3 / 163.3	66.6 / 169.2	66.6 / 169.2	57.2 / 145.3	57.2 / 145.3	56.8 / 144.3	56.8 / 144.3	59.9 / 152.2	59.9 / 152.2	59.5 / 151.1	59.9 / 151.1
Empty Weight	lb / kg	250 / 113.4	280 / 126.9	260 / 117.9	300 / 136.1	280 / 126.9	320 / 145.1	300 / 136.1	340 / 154.2	300 / 136.1	340 / 154.2	340 / 154.2	360 / 163.6	340 / 154.2	360 / 163.6
Full Weight (N ₂)	lb / kg	517 / 234	531 / 241	557 / 253	580 / 263	597 / 271	518 / 280	664 / 301	683 / 310	664 / 301	683 / 310	758 / 344	754 / 343	758 / 344	754 / 343
(O ₂)	lb / kg	629 / 285	640 / 290	682 / 309	701 / 318	730 / 331	747 / 339	817 / 370	831 / 377	817 / 370	831 / 377	935 / 424	924 / 420	935 / 424	924 / 420
(Ar)	lb / kg	710 / 322	717 / 325	773 / 351	787 / 357	827 / 375	839 / 380	928 / 421	936 / 424	928 / 421	936 / 424	1062 / 481	1046 / 475	1062 / 481	1046 / 475
(CO ₂)	lb / kg	---	667 / 303	---	731 / 331	---	779 / 353	---	868 / 393	868 / 393	868 / 393	---	967 / 439	---	967 / 439

*At relief valve settings

**Round caster base

***Square caster base

Note: All dimensions are measured from the floor to the top of the sight gauge protector. Most of the Dura-Cyl models are available with permanently installed CGA fittings for medical applications. Contact Customer Service for details.

Nomenclature

1. Gas Use Valve - For gas withdrawal.
2. Fill / Liquid Valve - For filling or liquid withdrawal operations.
3. Pressure Control Valve - To isolate (on/off) the pressure control regulator.
4. Vent Valve - To vent pressure.
5. Combination Pressure Control Regulator - To automatically control operating pressure.
6. Pressure Gauge - Indicates cylinder pressure
7. & 8. Relief Valves, Rupture Disk
9. Liquid Level Gauge - To indicate the liquid contents of the cylinder

