

CRYO-CYL

LIQUID CYLINDERS

Like the Dura-Cyl models, the Cryo-Cyl 80HP and 180HP models are designed and built to meet the rugged demands of the liquid cylinder market. However, in contrast, these models are designed specifically for liquid and low to medium gas flow applications. By specifically targeting these applications, we are able to offer these models at an economical value over our premium Dura-Cyl series.



Patent no's - 4,548,335 - D344,572

PRODUCT HIGHLIGHTS

- Ideal for liquid nitrogen, oxygen, argon, CO₂ or nitrous oxide
- Stainless steel construction
- Thick, dent-resistant outer shell
- Patented durable, inner-vessel support system
- Heavy-duty footring and large diameter handling ring with two supports
- Roto-Cal Liquid Level Gauge System
- Five-year vacuum warranty
- Vent and Gas use valve are combined for simple and safe operation
- Built-in economizer circuit prevents gas loss during gas intermittent use

CRYO-CYL

LIQUID CYLINDERS

Specifications			
MODEL		80 L	180 L
	Pressure	HP	HP
	Part Number	10648610	14248701
CAPACITY⁽¹⁾⁽²⁾			
Liquid (Gross)	(liters)	85	196
Liquid (Net)	(liters)	80	185
Gas (N ₂)	ft ³ / Nm ³	1,680 / 44	3,864 / 102
Gas (O ₂)	ft ³ / Nm ³	2,108 / 55	4,843 / 127
Gas (Ar)	ft ³ / Nm ³	2,049 / 54	4,709 / 124
Gas (CO ₂)	ft ³ / Nm ³	1,640 / 43	3,766 / 99
Gas (N ₂ O)	ft ³ / Nm ³	1,555 / 41	3,574 / 94
PERFORMANCE			
NER (N ₂)	% per day	3.0	1.9
NER (O ₂ - Ar)	% per day	2.0	1.3
NER (CO ₂ - N ₂ O)	% per day	0.8	0.5
Gas Flow (N ₂ , O ₂ , Ar) ⁽³⁾	SCFH/Nm ³ /hr	100 / 2.6	200 / 5.3
Gas Flow (CO ₂ , N ₂ O)	SCFH/Nm ³ /hr	35 / 0.9	65 / 1.7
DIMENSIONS & PRESSURE RATINGS			
Relief Valve Setting	psig / barg	350 / 24	350 / 24
Operating Pressure ⁽⁴⁾	psig / barg	125 / 8.6	125 / 8.6
DOT/TC Rating		4L292	4L292
Diameter	in / cm	20 / 50.8	20 / 50.8
Height ⁽⁵⁾	in / cm	39.5 / 100.3	64.3 / 163.3
Tare Weight	lb / kg	165 / 74.8	300 / 136.1
Full Weight (N ₂)	lb / kg	287 / 130	580 / 263
(O ₂)	lb / kg	340 / 155	701 / 318
(Ar)	lb / kg	377 / 171	787 / 357
(CO ₂)	lb / kg	353 / 161	731 / 331

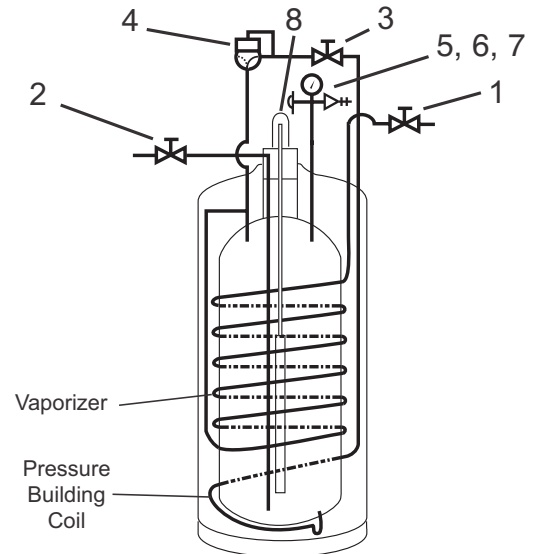
(1) Net gas capacities at DOT 4L limits.

(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) Height dimensions are measured from the floor to the top of the sight gauge protector.



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: HP - High Pressure (Liquid or Gas Use)

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