

MEGA-CYL®

PALLETIZED LIQUID CYLINDERS

The Mega-Cyl® Liquid Cylinder series is Chart's line of palletized cylinders designed for easy transport with capacities of 450 and 1000 liters. Engineered with the volume user in mind, it's ideal for construction sites, remote purging operations and back-up systems. Mega-Cyl cylinders are available in all services at 350 psig (24 barg) and are specifically designed to optimize distribution costs.

Examine the rugged, maneuverable Mega-Cyl series and you'll find all the quality features you expect from the industry leader, Chart.

**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

- Tough, durable stainless steel construction
- High-performance Super Insulation™
- Easily accessible valves and gauges
- Spray header for pump filling on vent tube
- Accurate differential pressure contents gauge (non-electric)
- Valve controlled road relief circuit with a 22 psi relief valve so the cylinder can be shipped full based on the DOT cryogenic exception rule CFR 49 section 173.320 for 1000L model
- Vibration resistant bottom support for greater robustness in transportable service
- Seven-year vacuum warranty



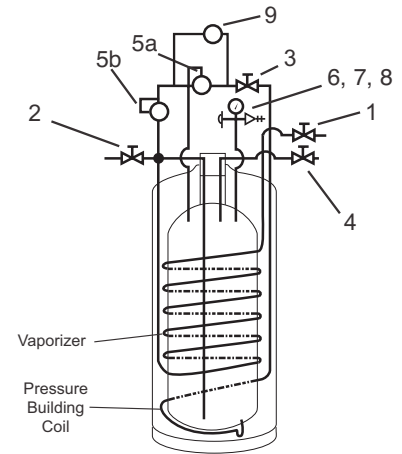
Innovation. Experience. Performance.®

MEGA-CYL[®]

PALLETIZED LIQUID CYLINDERS

Specifications

| MODEL | | 450 | 1000 |
|---|-----------------------------------|----------------|-----------------|
| | Pressure | HP | HP |
| | Part Number | 10588979 | 10752281 |
| CAPACITY | | | |
| Liquid (Gross) | (liters) | 450 | 1056 |
| Liquid (Net) ⁽¹⁾ | (liters) | 428 | 950 |
| Gas (N ₂) | ft ³ / Nm ³ | 8,875 / 233.2 | 23,363 / 614 |
| Gas (O ₂) | ft ³ / Nm ³ | 11,111 / 292 | 28,843 / 758 |
| Gas (Ar) | ft ³ / Nm ³ | 10,812 / 284.1 | 28,234 / 742 |
| Gas (CO ₂) | ft ³ / Nm ³ | 8,652 / 227.4 | 18,580 / 488.3 |
| PERFORMANCE | | | |
| NER (N ₂) | % per day | 2.1 | 1.3 |
| NER (O ₂ , Ar) | % per day | 1.4 | 0.9 |
| NER (CO ₂ , N ₂ O) | % per day | 0.6 | 0.3 |
| Gas Flow (N ₂ , O ₂ , Ar) | SCFH/Nm ³ /hr | 575 / 15.1 | 960 / 25.2 |
| Gas Flow (CO ₂) | SCFH/Nm ³ /hr | 195 / 5.1 | 300 / 7.9 |
| DIMENSIONS & PRESSURE RATINGS | | | |
| Relief Valve Setting | psig / barg | 350 / 24 | 350 / 24 |
| DOT/CTC/ASME Rating | | 4L292 | ASME Sec 8/Div1 |
| Diameter (cylinder) | in / cm | 30 / 76.2 | 42 / 106.7 |
| Height (cylinder) | in / cm | 62 / 158 | 76 / 191 |
| Base Width (frame) ⁽²⁾ | in / cm | 34 / 86.4 | 45 / 114 |
| Base Depth (frame) ⁽²⁾ | in / cm | 34 / 86.4 | 45 / 114 |
| Height (frame) ⁽²⁾ | in / cm | 74 / 188 | 95 / 241 |
| Tare Wt. (cyl + frame) ⁽³⁾ | lb / kg | 1,275 / 580 | 2,650 / 1,205 |
| Full Weight (N ₂) | lb / kg | 1,918 / 872 | 4,343 / 1,974 |
| (O ₂) | lb / kg | 2,195 / 998 | 5,038 / 2,290 |
| (Ar) | lb / kg | 2,393 / 1,088 | 5,569 / 2,532 |
| (CO ₂) | lb / kg | 2,265 / 1,029 | 5,218 / 2,372 |



Nomenclature

1. Gas Use Valve
2. Fill / Liquid Valve
3. Pressure Control Valve
4. Vent Valve
- 5a. Pressure Control Regulator
- 5b. Economizer Regulator
6. Pressure Gauge
7. Pressure Relief Valve
8. Rupture Disk
9. Liquid Level Gauge

(1) CO₂ values and 450 liter models based on DOT4L fill density. N₂, O₂ and Ar values based on net volume at 0 psig.

(2) Customized pallets are available upon request.

(3) Weights are approximate and vary with pallet design.

450L Lab Base Tare Weight: 265 lbs
 450L Pallet Frame Tare Weight: 378 lbs
 1000L Lab Base Tare Weight: 300 lbs
 1000L Pallet Frame Tare Weight: 530 lbs

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