



**Taylor-Wharton**  
Equipping The Hydrogen Infrastructure

# Taylor-Wharton *Liquid Cylinders*

**DOT-4L**



**Innovative. Convenient. Reliable.**

# Liquid Cylinders

Superior products...outstanding solutions.

Wherever you need them.

Trust the experts for unsurpassed value, quality and service – world-wide. Our extensive product line offers everything you need to transport, store and dispense liquefied gases.

Portable and vacuum-insulated, our vast array of models will fit your needs and store your contents safely and securely every time. Best of all, these products come from Taylor-Wharton, the leader in quality cryogenic liquid cylinders.

Our extensive line-up includes reliable features that ensure excellent performance:

- *Full Circle Shock-Mount Ring*
- *Polished Heavy Duty Outer Body*
- *Innovative Non-Binding Contents Gauge*
- *Reinforced Lateral Head Support*
- *Color-Coded Relief Valves for Different Pressure Settings*
- *5-Year Warranty on Vacuum*

## Liquid Withdraw

Low pressure XL™-100, XL™-160, XL™-180 and XL™-240

Liquid Nitrogen or Liquid Oxygen

### Features

- Rugged, easy to maneuver and versatile
- Designed for low pressure filling, storing and dispensing
- Simple, quick liquid withdrawal
- Sizes for every need, from small volume to frequent usage
- Oxygen service and pressure-building capabilities available

(1) Vented N.E.R based on usable liquid capacity.

(2) 5-caster base used for height measure. For 4-caster base square base with handle, add approx. ½ inch (12.7 mm).



| MODEL NO.  | XL™-100   | XL™-160   | XL™-180   | XL™-230   | XL™-230PB   | XL™-240   |
|--|---|---|---|---|---|---|
| <b>Dimensions</b><br>Diameter in. (mm)<br>Height in. (mm)  | 20 (508)<br>47.6 (1210)                                 | 20 (508)<br>55.7 (1415)                                 | 20 (508)<br>62.8 (1595)                                 | 26 (660)<br>56.1 (1425)                                 | 26 (660)<br>56.1 (1425)                                 | 26 (660)<br>57.5 (1460)<br><sup>(2)</sup>               |
| <b>Weight</b><br>Empty lb. (kg) (Nominal)<br>5 Caster Base lb. (kg)<br>4 Caster Base (square base) | N/A<br>165 (75)<br>N/A                                  | 216 (98)<br>N/A<br>N/A                                  | 240 (109)<br>N/A<br>N/A                                 | N/A<br>326 (148)<br>390 (177)                           | N/A<br>326 (148)<br>390 (177)                           | N/A<br>326 (148)<br>354 (161)                           |
| <b>Maximum Liquid Capacity (liters)</b>  | 103   | 163   | 186   | 240   | 240   | 250   |
| <b>Usable Liquid Capacity (liters)</b>   | 98  | 160   | 180   | 230   | 230   | 240   |
| <b>Normal Evaporation Rate <sup>(1)</sup> % Capacity/Day</b><br>Oxygen<br>Nitrogen<br>Argon        | 2.4%<br>3.8%<br>N/A                                     | 0.8%<br>1.3%<br>N/A                                     | 0.8%<br>1.3%<br>N/A                                     | N/A<br>1.4%<br>N/A                                      | 0.9%<br>1.4%<br>0.9%                                    | 0.9%<br>1.4%<br>0.9%                                    |
| <b>Pressure Building Regulator Pressure Building Setting</b>                                       | N/A   | N/A   | N/A   | N/A   | 15 psig (1.03bar/103 kPa) <sup>1</sup>                  | 15 psig (1bar/103 kPa)                                  |
| <b>Design Specification</b><br>TC<br>DOT<br>Rated DOT Service<br>Pressure                          | 4LM<br>4L<br>100 psig                                   | 4LM<br>4L<br>100 psig                                   | 4LM<br>4L<br>100 psig                                   | 4LM<br>4L<br>200psig                                    | 4LM<br>4L<br>200psig                                    | 4LM<br>4L<br>200psig                                    |
| <b>Safety Devices</b><br>Pressure Relief Valve<br><br>Inner Container<br>Bursting Disc             | 22 psig (1.5 bar/152 kPa)<br>176 psig (12 bar/1213 kPa) | 22 psig (1.5 bar/152 kPa)<br>176 psig (12 bar/1213 kPa) | 22 psig (1.5 bar/152 kPa)<br>176 psig (12 bar/1213 kPa) | 22 psig (1.5 bar/152 kPa)<br>76 psig (5.24 bar/524 kPa) | 22 psig (1.5 bar/152 kPa)<br>76 psig (5.24 bar/524 kPa) | 22 psig (1.5 bar/152 kPa)<br>176 psig (12 bar/1213 kPa) |

Specifications subject to change without notice.

# GL- Series (DOT-4L)



## Gas and Liquid Withdrawal

Medium pressure XL™-45, XL™-50, XL™-55, XL™-65 and XL™-70

Liquid or Gaseous Nitrogen, Oxygen, Argon

- Worry-free, over-the-road transport
- Hard working, tough construction
- Automatic pressure-building and economizer circuits
- Low-loss holding capabilities – conserve during low demand periods

(1) Vented N.E.R based on usable liquid capacity.

(2) Container pressure at or above factory pressure/economizer regulator setting.

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa).

(4) 5-caster base used for height measure. For 4-caster square base with handle, add approx. ½ inch (12.7 mm)

| MODEL NO.   | XL™ -45                     | XL™ -50                     | XL™ -55                     | XL™ -60                     | XL™ -65                     | XL™ -70                     |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Dimensions</b>   |                             |                             |                             |                             |                             |                             |
| Diameter in. (mm)   | 20 (508)                    | 20 (508)                    | 20 (508)                    | 26 (660)                    | 26 (660)                    | 26 (660)                    |
| Height in. (mm)   | 60 (1525)                   | 62.3 (1582)                 | 65 (1650)                   | 56.1 (1425)                 | 57.5(1460) <sup>(4)</sup>   | 61.5(1562) <sup>(4)</sup>   |
| <b>Weight</b>   |                             |                             |                             |                             |                             |                             |
| Empty lb. (kg) (Nominal)  | 244 (111)                   | 253 (115)                   | 262 (119)                   | N/A                         | N/A                         | N/A                         |
| 5 Caster Base lb. (kg) (RB)   | N/A                         | N/A                         | N/A                         | 326 (148)                   | 335 (152)                   | 344 (156)                   |
| 4 Caster Base lb. (kg) (SB)   | N/A                         | N/A                         | N/A                         | 390 (177)                   | 368 (167)                   | 376 (171)                   |
| <b>Maximum Liquid Capacity (liters)</b>   | 180                         | 193                         | 210                         | 240                         | 250                         | 280                         |
| <b>Usable Liquid Capacity (liters)</b>  | 169                         | 181                         | 200                         | 230                         | 240                         | 265                         |
| <b>Normal Evaporation Rate <sup>(1)</sup> % Capacity/Day</b>                                |                             |                             |                             |                             |                             |                             |
| Oxygen  | 1.2%                        | 1.1%                        | 1.1%                        | 0.9%                        | 0.9%                        | 1.0%                        |
| Nitrogen  | 1.9%                        | 1.8%                        | 1.7%                        | 1.4%                        | 1.4%                        | 1.8%                        |
| Argon   | 1.2%                        | 1.1%                        | 1.1%                        | 0.9%                        | 0.9%                        | 1.0%                        |
| <b>Gas Withdrawal Rate <sup>(2)</sup> @ NTP (STP)</b>                                       |                             |                             |                             |                             |                             |                             |
| Oxygen cfh (cu. m/h)  | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   |
| Nitrogen cfh (cu. m/h)  | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   |
| Argon cfh (cu. m/h)   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   | 350 (9.2)                   |
| <b>Dual Pressure Building/Economizer Regulator <sup>(3)</sup> Pressure Building Setting</b> | 125 psig (8.6 bar/862 kPa)  | 125 psig (8.6 bar/862 kPa)  | 125 psig (8.6 bar/862 kPa)  | 125 psig (8.6 bar/862 kPa)  | 125 psig (8.6 bar/862 kPa)  | 125 psig (8.6 bar/862 kPa)  |
| <b>Economizer Setting</b>   | 145 psig (10 bar/1000 kPa)  | 145 psig (10 bar/1000 kPa)  | 145 psig (10 bar/1000 kPa)  | 145 psig (10 bar/1000 kPa)  | 145 psig (10 bar/1000 kPa)  | 145 psig (10 bar/1000 kPa)  |
| <b>Design Specification</b>   |                             |                             |                             |                             |                             |                             |
| TC  | 4LM                         | 4LM                         | 4LM                         | 4LM                         | 4LM                         | 4LM                         |
| DOT   | 4L                          | 4L                          | 4L                          | 4L                          | 4L                          | 4L                          |
| Rated DOT Service Pressure  | 200 psig                    | 200 psig                    | 200 psig                    | 200 psig                    | 200 psig                    | 200 psig                    |
| <b>Safety Devices</b>   |                             |                             |                             |                             |                             |                             |
| <b>Pressure Relief Valve</b>  | 230 psig (16 bar/1586 kPa)  | 230 psig (16 bar/1586 kPa)  | 230 psig (16 bar/1586 kPa)  | 230 psig (16 bar/1586 kPa)  | 230 psig (16 bar/1586 kPa)  | 230 psig (16 bar/1586 kPa)  |
| <b>Inner Container Bursting</b>   | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) |
| <b>Disc</b>   | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) | 360 psig (24.8 bar/248 kPa) |
| <b>Weight of Contents Based on DOT-Rated Service Pressure</b>                               |                             |                             |                             |                             |                             |                             |
| Oxygen lb. (kg)   | 388 (176)                   | 417 (189)                   | 445 (202)                   | 517 (235)                   | 543 (246)                   | 606 (275)                   |
| Nitrogen lb. (kg)   | 273 (127)                   | 293 (133)                   | 313 (142)                   | 364 (166)                   | 382 (173)                   | 426 (193)                   |
| Argon lb. (kg)  | 471 (214)                   | 506 (235)                   | 540 (245)                   | 628 (286)                   | 659 (299)                   | 735 (333)                   |
| <b>Gaseous Capacity Based on DOT-Rated Service Pressure @ NTP (STP)</b>                     |                             |                             |                             |                             |                             |                             |
| Oxygen cu. ft. (cu. m)  | 4700 (135)                  | 5031 (142)                  | 5375 (152)                  | 6245 (164)                  | 6558 (186)                  | 7316 (207)                  |
| Nitrogen cu. ft. (cu. m)  | 3780 (107)                  | 4047 (115)                  | 4323 (122)                  | 5023 (133)                  | 5275 (149)                  | 5885 (167)                  |
| Argon cu. ft. (cu. m)   | 4571 (129)                  | 4894 (139)                  | 5320 (151)                  | 6077 (160)                  | 6379 (181)                  | 7116 (202)                  |

Specifications subject to change without notice.

# HP - Series (DOT-4L)

| MODEL NO.   | XL™ -45HP                       | XL™ -50HP                       | XL™ -55HP                       | XL™ -60HP                       | XL™ -65HP                       | XL™ -70HP                       |
|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <b>Dimensions</b>   |                                 |                                 |                                 |                                 |                                 |                                 |
| Diameter in. (mm)   | 20 (508)                        | 20 (508)                        | 20 (508)                        | 26 (660)                        | 26 (660)                        | 26 (660)                        |
| Height in. (mm)   | 60 (1525)                       | 62.4 (1585)                     | 64.68 (1650)                    | 56.1 (1452)                     | 57.5 (1460) <sup>(4)</sup>      | 61.5 (1562) <sup>(4)</sup>      |
| <b>Weight</b>   |                                 |                                 |                                 |                                 |                                 |                                 |
| Empty lb. (kg) (Nominal)  | 275 (125)                       | 291 (132)                       | 300 (136)                       | N/A                             | N/A                             | N/A                             |
| 5 Caster Base lb. (kg)  | N/A                             | N/A                             | N/A                             | 376 (171)                       | 385 (175)                       | 416 (189)                       |
| 4 Caster Base lb. (kg)  | N/A                             | N/A                             | N/A                             | 440 (200)                       | 418 (190)                       | 449 (204)                       |
| <b>Maximum Liquid Capacity (liters)</b>                           | 176                             | 188                             | 208                             | 240                             | 247                             | 280                             |
| <b>Usable Liquid Capacity (liters)</b>                            | 165                             | 176                             | 198                             | 230                             | 240                             | 265                             |
| <b>Normal Evaporation Rate <sup>(1)</sup> % Capacity/Day</b>      |                                 |                                 |                                 |                                 |                                 |                                 |
| Oxygen  | 1.4%                            | 1.2%                            | 1.2%                            | 1.0%                            | 1.0%                            | 1.0%                            |
| Nitrogen  | 2.2%                            | 2.0%                            | 1.9%                            | 1.6%                            | 1.6%                            | 1.6%                            |
| Argon   | 1.4%                            | 1.2%                            | 1.2%                            | 1.0%                            | 1.0%                            | 1.0%                            |
| Carbon Dioxide  | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           |
| Nitrous Oxide   | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           | 0.75%                           |
| <b>Gas Withdrawal Rate <sup>(2)</sup> @ NTP (STP)</b>             |                                 |                                 |                                 |                                 |                                 |                                 |
| Oxygen cfm (cu. m/h)  | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       |
| Nitrogen cfm (cu. m/h)  | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       | 350 (9.2)                       |
| Argon cfm (cu. m/h)   | 150 (3.9)                       | 150 (3.9)                       | 150 (3.9)                       | 150 (3.9)                       | 150 (3.9)                       | 150 (3.9)                       |
| Carbon Dioxide  | 110 (2.9)                       | 110 (2.9)                       | 110 (2.9)                       | 110 (2.9)                       | 110 (2.9)                       | 110 (2.9)                       |
| Nitrous Oxide   |                                 |                                 |                                 |                                 |                                 |                                 |
| <b>Dual Pressure Building/Economizer Regulator <sup>(3)</sup></b> |                                 |                                 |                                 |                                 |                                 |                                 |
| Pressure Building Setting   | 300 psig<br>(20.7 bar/2068 kPa) | 300 psig<br>(20.7 bar/2068 kPa) | 300 psig<br>(20.7 bar/2068 kPa) | 300 psig<br>(20.7 bar/2068 kPa) | 300 psig<br>(20.7 bar/2068 kPa) | 300 psig<br>(20.7 bar/2068 kPa) |
| Economizer Setting  | 320 psig<br>(22 bar/2206 kPa)   | 320 psig<br>(22 bar/2206 kPa)   | 320 psig<br>(22 bar/2206 kPa)   | 320 psig<br>(22 bar/2206 kPa)   | 320 psig<br>(22 bar/2206 kPa)   | 320 psig<br>(22 bar/2206 kPa)   |
| <b>Design Specification</b>                                       |                                 |                                 |                                 |                                 |                                 |                                 |
| TC  | 4LM                             | 4LM                             | 4LM                             | 4LM                             | 4LM                             | 4LM                             |
| DOT   | 4L                              | 4L                              | 4L                              | 4L                              | 4L                              | 4L                              |
| Rated DOT Service Pressure  | 292 psig                        | 292 psig                        | 292 psig                        | 292 psig                        | 292 psig                        | 292 psig                        |
| <b>Safety Devices</b>   |                                 |                                 |                                 |                                 |                                 |                                 |
| Pressure Relief Valve   | 350 psig<br>(24 bar/2413 kPa)   | 350 psig<br>(24 bar/2413 kPa)   | 350 psig<br>(24 bar/2413 kPa)   | 350 psig<br>(24 bar/2413 kPa)   | 350 psig<br>(24 bar/2413 kPa)   | 350 psig<br>(24 bar/2413 kPa)   |
| Inner Container Bursting Disc                                     | 525 psig<br>(36 bar/3620 kPa)   | 525 psig<br>(36 bar/3620 kPa)   | 525 psig<br>(36 bar/3620 kPa)   | 525 psig<br>(36 bar/3620 kPa)   | 525 psig<br>(36 bar/3620 kPa)   | 525 psig<br>(36 bar/3620 kPa)   |
| <b>Weight of Contents Based on DOT-Rated Service Pressure</b>     |                                 |                                 |                                 |                                 |                                 |                                 |
| Oxygen lb. (kg)   | 360 (163)                       | 391 (177)                       | 419 (190)                       | 491 (223)                       | 513 (223)                       | 532 (260)                       |
| Nitrogen lb. (kg)   | 252 (114)                       | 273 (124)                       | 293 (133)                       | 343 (156)                       | 359 (163)                       | 400 (181)                       |
| Argon lb. (kg)  | 438 (199)                       | 475 (215)                       | 509 (231)                       | 669 (271)                       | 624 (283)                       | 696 (316)                       |
| Carbon Dioxide  | 387 (176)                       | 420 (191)                       | 450 (204)                       | 528 (240)                       | 552 (250)                       | 616 (279)                       |
| Nitrous Oxide   | 368 (167)                       | 399 (181)                       | 428 (194)                       | 502 (228)                       | 524 (234)                       | 585 (265)                       |



## Gas and Liquid Withdrawal

High pressure XL™-45HP, XL™-50HP, XL™-55HP, XL™-65HP

and XL™-70HP

Liquid or Gaseous Nitrogen, Oxygen, Argon, Carbon Dioxide, Nitrous Oxide

- Ideal for handling a wide variety of gases or liquefied gases
- Automatic dual pressure building/economizer regulator
- Equipped with an internal vaporizer
- State-of-the-art safety features

(1) Vented N.E.R based on usable liquid capacity.

(2) Container pressure at or above factory pressure/economizer regulator setting.

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa).

(4) 5-caster base used for height measure. For 4-caster base square base with handle, add approx. ½ inch (12.7 mm).

Specifications subject to change without notice.

### Gas and Liquid Withdrawal

Very High Pressure XL™-50VHP and XL™-55VHP Liquid or Gaseous Nitrogen, Oxygen, Argon, Carbon Dioxide

- Offers all the unique features of our HP models and more
- Increased maximum allowable working pressure of 500 psig(34 bar)
- Ideal for laser cutting and other high pressure applications

(1) Vented N.E.R based on usable liquid capacity.

(2) Container pressure at or above factory pressure/economizer regulator setting.

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa).

| MODEL NO.   | XL™-50 VHP                    | XL™-55 VHP                    |
|---|-------------------------------|-------------------------------|
| <b>Dimensions</b>   |                               |                               |
| Diameter in. (mm)   | 20 (508)                      | 20 (508)                      |
| Height in. (mm)   | 64.68 (1592)                  | 65.0 (1650)                   |
| <b>Weight</b>   |                               |                               |
| Empty lb. (kg) (Nominal)  | 310 (141)                     | 362 (164)                     |
| <b>Maximum Liquid Capacity (liters)</b>                                 | 188                           | 201                           |
| <b>Usable Liquid Capacity (liters)</b>                                  | 176                           | 190                           |
| <b>Normal Evaporation Rate <sup>(1)</sup> % Capacity/Day</b>            |                               |                               |
| Oxygen  | 1.5%                          | 1.5%                          |
| Nitrogen  | 2.2%                          | 2.2%                          |
| Argon   | 1.5%                          | 1.5%                          |
| Carbon Dioxide  | 0.80%                         | 0.80%                         |
| <b>Gas Withdrawal Rate <sup>(2)</sup> @ NTP (STP)</b>                   |                               |                               |
| Oxygen cfh (cu. m/h)  | 350 (9.2)                     | 350 (9.2)                     |
| Nitrogen cfh (cu. m/h)  | 350 (9.2)                     | 350 (9.2)                     |
| Argon cfh (cu. m/h)   | 350 (9.2)                     | 350 (9.2)                     |
| Carbon Dioxide  | 150 (3.9)                     | 150 (3.9)                     |
| <b>Dual Pressure Building/Economizer Regulator <sup>(3)</sup></b>       |                               |                               |
| Pressure Building Setting   | 400 psig<br>(28 bar/2758 kPa) | 400 psig<br>(28 bar/2758 kPa) |
| Economizer Setting  | 420 psig<br>(29 bar/2896 kPa) | 420 psig<br>(29 bar/2896 kPa) |
| <b>Design Specification</b>   |                               |                               |
| TC  | 4LM                           | 4LM                           |
| DOT   | 4L                            | 4L                            |
| Rated DOT Service Pressure  | 412 psig                      | 412 psig                      |
| <b>Safety Devices</b>   |                               |                               |
| Pressure Relief Valve   | 500 psig<br>(34 bar/3447 kPa) | 500 psig<br>(34 bar/3447 kPa) |
| Inner Container Bursting Disc   | 750 psig<br>(52 bar/5171 kPa) | 750 psig<br>(52 bar/5171 kPa) |
| <b>Weight of Contents Based on DOT-Rated Service Pressure</b>           |                               |                               |
| Oxygen lb. (kg)   | 354(161) 239(108)             | 380(172) 256(116)             |
| Nitrogen lb. (kg)   | 441(200) 379(172)             | 473(215) 407(185)             |
| Argon lb. (kg)  |                               |                               |
| Carbon Dioxide  |                               |                               |
| <b>Gaseous Capacity Based on DOT-Rated Service Pressure @ NTP (STP)</b> |                               |                               |
| Oxygen cu. ft. (cu. m)  | 4280(121)<br>3298(93)         | 4592(130)<br>3538(100)        |
| Nitrogen cu. ft. (cu. m)  | 4266(121)                     | 4576(130)                     |
| Argon cu. ft. (cu. m)   | 3314(94)                      | 3555(101)                     |
| Carbon Dioxide  |                               |                               |

### Transfer Hoses

- Flexible, stainless steel construction in a variety of handy lengths



#### PART/MODEL NO.

|  |               |             |           |
|--|---------------|-------------|-----------|
| Nitrogen and Argon LIQUID or VENT Connection |               |             |           |
| CGA 295                                      | 4 ft. (1.2m)  | 3/8 in. NPT | 1700-9C65 |
| CGA 295                                      | 6 ft. (1.8m)  | 3/8 in. NPT | 1600-9C66 |
| Nitrogen and Argon USE Connection            |               |             |           |
| CGA 580                                      | 6 ft. (1.8 m) | 3/8 in. NPT | GL50-8C51 |
| Oxygen LIQUID or VENT Connection             |               |             |           |
| CGA 440                                      | 6 ft. (1.8 m) | 3/8 in. NPT | GL50-8C53 |
| Oxygen USE Connection                        |               |             |           |
| CGA 540                                      | 6 ft. (1.8 m) | 3/8 in. NPT | GL50-8C56 |
| Carbon Dioxide LIQUID or Gas USE Connection  |               |             |           |
| CGA 320                                      | 6 ft. (1.8 m) | 3/8 in. NPT | HP50-8C51 |
| Carbon Dioxide Gas VENT Connection           |               |             |           |
| CGA 295                                      | 4 ft. (1.2 m) | 3/8 in. NPT | 1700-9C65 |
| CGA 295                                      | 6 ft. (1.8 m) | 3/8 in. NPT | 1600-9C65 |

### Cryogenic Phase Separators

- Minimizes hazardous splashing and vaporization in 3 sizes to accommodate liquid transfer



#### PART/MODEL NO.

|  |           |
|--|-----------|
| 2 3/4 in. x 1 3/8 in. OD (3/8 in. NPT) | 1193-8C80 |
| (70 mm x 35 mm)                        |           |
| 1 1/4 in. x 1 in. OD (3/8 in. NPT)     | 1193-8C82 |
| (32 mm x 25.4 mm)                      |           |
| 1 1/4 in. x 1/2 in. OD (1/8 in. NPT)   | 1193-8C83 |
| (32 mm x 12.7 mm)                      |           |

### External Heat Exchanger

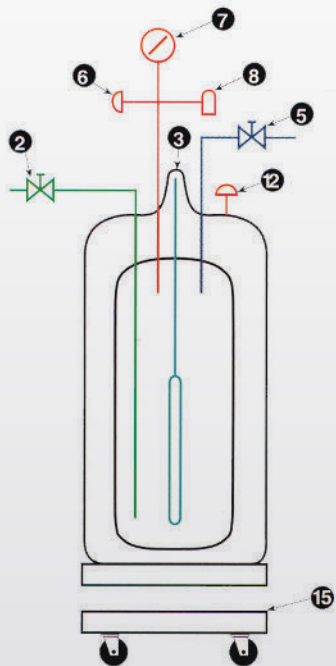
- Increases the gaseous delivery rate
- Easy to connect

#### PART/MODEL NO.

|                         |           |
|-------------------------|-----------|
| External Heat Exchanger | VP50-7C10 |
|-------------------------|-----------|

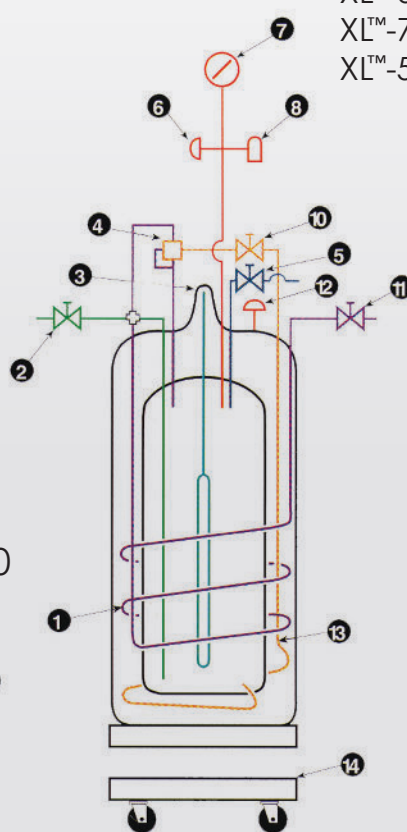
Specifications subject to change without notice.

# Liquid Cylinders Flow Diagram

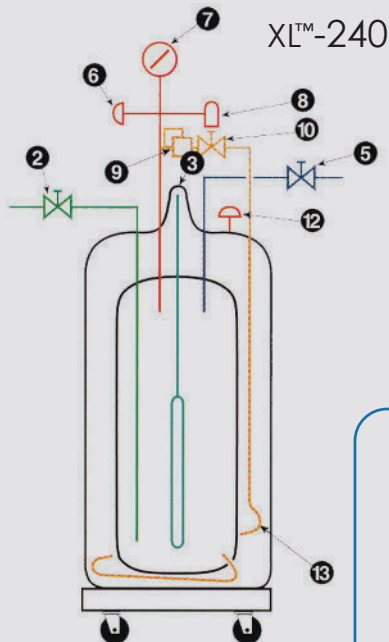


XL™-160  
XL™-240

XL™-45/45HP  
XL™-50/50HP  
XL™-55/55HP  
XL™-65/65HP  
XL™-70/70HP  
XL™-50VHP



- Safety
- Vent
- Liquid Withdrawal
- Contents Gauge
- Economizer & Gas Use
- Pressure Building



XL™-240

1. Vaporizer
2. Liquid Fill/Withdrawal Valve
3. Contents Gauge
4. Dual Pressure Building/Economizer Regulator
5. Vent Valve
6. Inner Containing Bursting Disc
7. Pressure Gauge
8. Pressure Relief Valve
9. Pressure Building Regulator
10. Pressure Building Valve
11. Gas Withdrawal (USE) Valve
12. Vacuum Bursting Disc
13. Pressure Building Coil
14. Square base for GL-65 to GL-70/70HP only, optional five caster base or four caster base with SureGrip handle available
15. Five caster base for XL™-240

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