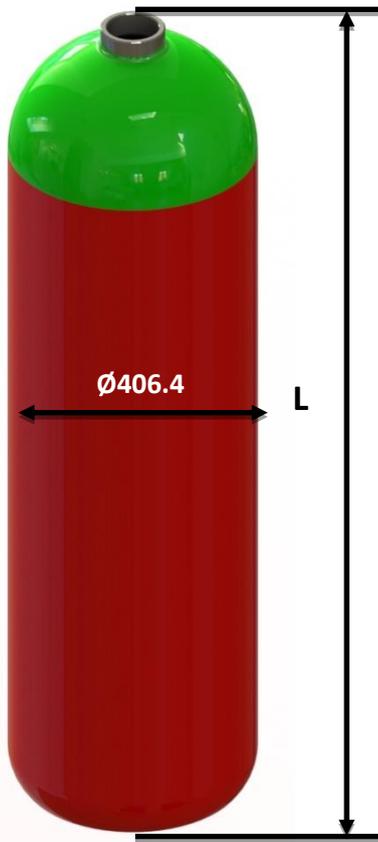


Seamless Steel Refillable Cylinder for compressed, mixed and liquefied gases  
**Ø 406,4x5,5 WP63,7bar – TP98bar**



| CYLINDER DIMENSION  |                 |     |      |                  |      |      |      |
|---|-----------------|-----|------|------------------|------|------|------|
| Water capacity [l]<br>[-2,5%<br>+2,5%]  | 80              | 100 | 120  | 140              | 180  | 200  | 220  |
| All sizes from 80 to 220L are feasible for manufacturing.                                 |                 |     |      |                  |      |      |      |
| Nominal weight [Kg]   | 70              | 80  | 90   | 100              | 123  | 135  | 150  |
| Net weight of the cylinder with neckring (if present) without valve, fittings, paint etc. |                 |     |      |                  |      |      |      |
| Length L mm ±20   | 790             | 965 | 1145 | 1290             | 1650 | 1830 | 2010 |
| Dimension are in accordance with thread option n.1  |                 |     |      |                  |      |      |      |
| <b>Neck Thread:</b> - Alternative thread to Customer's requirement -                      |                 |     |      |                  |      |      |      |
| Option  | Internal thread |     |      | External thread  |      | mm]  |      |
| 1   | 3" – 12UN – 2B  |     |      | M105x2           |      | ≈40  |      |
| 2   | 3" – 12UN – 2B  |     |      | M95x2            |      | ≈40  |      |
| 3   | -               |     |      | 2,5" – 12UN – 2A |      | ≈60  |      |

## DESIGN DATA

|  |  |                                   |
|--|--|-----------------------------------|
| <b>Minimum design thickness of the cylindrical wall:</b>   |  | <b>5.5 mm</b>                     |
| <b>Working Pressure:</b> up to 63,7 bar  | <b>Hydrostatic Test Pressure:</b> 98 bar | <b>Burst Pressure:</b> ≥ 176 barg |
| <b>Service temperature:</b> -50°C +65°C  |  |                                   |
| Use of cylinder for gases causing embrittlement and corrosion of the steel is forbidden.<br>The gas contained in the cylinder must be in accordance with the standard ISO 11114-1. |  |                                   |
| <b>Chemical composition:</b> Steel 34CrMo4 EN10083 part 1&3 with restrictions in accordance with ISO9809-2 par.6   |  |                                   |
| <b>Manufacturing process:</b> Hot spinning of seamless steel tube  |  |                                   |
| <b>Heat treatment:</b> Quenching (with polymer) and Tempering  |  |                                   |
| <b>Paint:</b> Highly durable polyester powder coating (unless otherwise specified minimum paint thickness >60µm)   |  |                                   |

## Certification Standard: ISO 9809-1

| Country of Approval        | Europe  | USA                              | Canada                           | Russian Federation                                  |
|----------------------------|---|----------------------------------|----------------------------------|---|
| Certification Availability | TPED approved in accordance with directive 2010/35/EU | Achievable on customer's request | Achievable on customer's request | EAC Approval <i>available</i> on customer's request |