

Seamless Steel Refillable Cylinder for compressed, mixed and liquefied gases Ø 406.4x5.5 WP63.7barg – TP98barg

| DIMENSIONS | Water capacity [l] $_{-2.5\%}^{+2.5\%}$ | 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 |


| DESIGN DATA | Minimum design thickness of the cylindrical wall: 5.5 mm | | | | | | | | | | | | | | | | |
|-------------|--|---|--------|-----------------|-----------------|--------|---|----------------|--------|-----|---|----------------|-------|-----|---|---|------------------|
| | Working Pressure: up to 63.7 barg | Hydrostatic Test Pressure: 98 barg | | | | | | | | | | | | | | | |
| | Service temperature: -50°C +65°C | | | | | | | | | | | | | | | | |
| | Use of cylinder for gases causing embrittlement and corrosion of the steel is forbidden. The gas contained in the cylinder must be in accordance with the standard ISO 11114-1. | | | | | | | | | | | | | | | | |
| | Neck Thread: - Alternative thread to Customer's requirement - | <table border="1"> <thead> <tr> <th>Option</th> <th>Internal thread</th> <th>External thread</th> <th>h [mm]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3" – 12UN – 2B</td> <td>M105x2</td> <td>≈40</td> </tr> <tr> <td>2</td> <td>3" – 12UN – 2B</td> <td>M95x2</td> <td>≈40</td> </tr> <tr> <td>3</td> <td>-</td> <td>2,5" – 12UN – 2A</td> <td>≈60</td> </tr> </tbody> </table> | Option | Internal thread | External thread | h [mm] | 1 | 3" – 12UN – 2B | M105x2 | ≈40 | 2 | 3" – 12UN – 2B | M95x2 | ≈40 | 3 | - | 2,5" – 12UN – 2A |
| Option | Internal thread | External thread | h [mm] | | | | | | | | | | | | | | |
| 1 | 3" – 12UN – 2B | M105x2 | ≈40 | | | | | | | | | | | | | | |
| 2 | 3" – 12UN – 2B | M95x2 | ≈40 | | | | | | | | | | | | | | |
| 3 | - | 2,5" – 12UN – 2A | ≈60 | | | | | | | | | | | | | | |

Chemical composition: Steel 34CrMo4 EN10083 part 1&3 with restrictions in accordance with ISO9809-2 par.6

Manufacturing process: Hot spinning of seamless steel tube **Heat treatment:** Quenching (with polymer) and Tempering

Paint: 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 |  UN Marked cylinders approved in accordance with CSA B341-09, accepted in both countries. For water capacities > 150L CFR49 Approved with DOT3AA | For water capacities > 150L Approved by TC Equivalency Certificate | EAC Approval <i>available</i> on customer's request |

