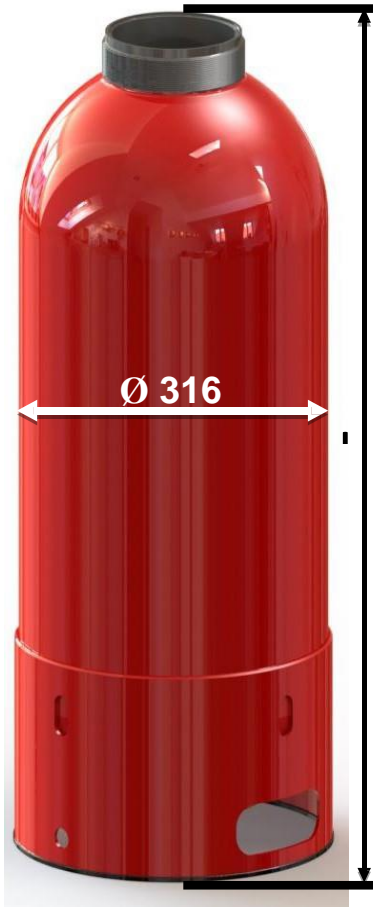


Seamless Steel Refillable Cylinder for compressed, mixed and liquefied gases Ø 316x4.0 WP80bar – TP132bar



| CYLINDER DIMENSION | | | | | | | |
|-------------------------------------------------------------------------------------------|-----------------|-----|--------------------|------|------|------|------|
| Water capacity [l] [-2,5% +2,5% | 40 | 45 | 60 | 80 | 120 | 140 | 150 |
| All sizes from 40 to 150L are feasible for manufacturing. | | | | | | | |
| Nominal weight [Kg] | 39 | 43 | 49 | 59 | 79 | 89 | 94 |
| Net weight of the cylinder with neckring (if present) without valve, fittings, paint etc. | | | | | | | |
| Length L mm ±20 | 720 | 790 | 995 | 1535 | 1810 | 2080 | 2220 |
| Dimension are in accordance with thread option n.1 | | | | | | | |
| Neck Thread: - Alternative thread to Customer's requirement - | | | | | | | |
| Option | Internal thread | | External thread | | | mm] | |
| 1 | - | | M146x2 | | | ≈45 | |
| 2 | 25E ISO 11363-1 | | Neckring W80-1/11" | | | ≈35 | |
| 3 | 3" – 12UN – 2B | | M95x2 | | | ≈40 | |

| DESIGN DATA | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|
| Minimum design thickness of the cylindrical wall: | | 4.0 mm |
| Working Pressure: up to 80 bar | Hydrostatic Test Pressure: 132 bar | Burst Pressure: ≥ 212 barg |
| Service temperature: -50°C +80 °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. | | |
| Chemical composition: Steel 34CrMo4 EN10083 part 1&3 with restrictions in accordance with ISO9809-1 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: ISO9809-1 | | | | |
|-----------------------------------|-------------------------------------------------------|----------------------------------|----------------------------------|-----------------------------------------------------|
| 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 |