

## Seamless Steel Refillable Cylinder for compressed, mixed and liquefied gases Ø 405x12.6 WP300barg – TP450barg

DIMENSIONS	Water capacity [l] <sup>-2,5%</sup> / <sub>+2,5%</sub>	80	90	100	120	140	150	180	All sizes from 80 to 150L are feasible for manufacturing Net weight of the cylinder with neckring (if present) without valve, fittings, paint etc. Dimension are in accordance with thread option n.1
	Nominal weight [Kg]	135	146	157	179	201	212	245	
	Length L [mm] ±20	865	950	1040	1215	1380	1480	1745	

DESIGN DATA	Minimum design thickness of the cylindrical wall: <b>12.6 mm</b>																
	<b>Working Pressure: up to 300 barg</b>	<b>Hydrostatic Test Pressure: 450 barg</b>															
	<b>Burst Pressure: ≥ 720 barg</b>																
	<b>Service temperature: -50°C +65°C</b>																
	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>25E ISO 11363-1</td> <td>Neckring W80-1/11"</td> <td>≈35</td> </tr> <tr> <td>2</td> <td>1"1/4 NGT</td> <td>Neckring W80-1/11"</td> <td>≈35</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	25E ISO 11363-1	Neckring W80-1/11"	≈35	2	1"1/4 NGT	Neckring W80-1/11"	≈35	3	-	2.5" - 12UN - 2A
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**Chemical composition:** Steel 34CrMo4 EN10083 part 1&3 with restrictions in accordance with EN 1964-1 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:** 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

