

 Seamless Steel Refillable Cylinder  
 for compressed, mixed and liquefied gases  
**Ø 273.0x7.7 WP300barg – TP450barg**

DIMENSIONS	Water capacity [l] <sub>-2,5%</sub> <sub>+2,5%</sub>	30	50	60	80	83	90	100	All sizes from 30 to 100L 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]	46	68	79	102	105	113	124	
	Length L [mm] ±20	700	1090	1285	1675	1740	1870	2065	

DESIGN DATA	Minimum design thickness of the cylindrical wall: <b>7.7 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" NGT</td> <td>Neckring W80-1/11"</td> <td>≈35</td> </tr> <tr> <td>3</td> <td>1"1/4 NGT</td> <td>Neckring W80-1/11"</td> <td>≈35</td> </tr> </tbody> </table>	Option	Internal thread	External thread	h [mm]	1	25E ISO 11363-1	Neckring W80-1/11"	≈35	2	1" NGT	Neckring W80-1/11"	≈35	3	1"1/4 NGT	Neckring W80-1/11"
Option	Internal thread	External thread	h [mm]														
1	25E ISO 11363-1	Neckring W80-1/11"	≈35														
2	1" NGT	Neckring W80-1/11"	≈35														
3	1"1/4 NGT	Neckring W80-1/11"	≈35														

**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 9809-2

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.		EAC Approval <i>available</i> on customer's request

