

Seamless Steel Refillable Cylinder  
for compressed, mixed and liquefied gases  
**Ø 267x5.5 WP200barg – TP300barg**

DIMENSIONS	Water capacity [l] $_{-2,5\%}^{+2,5\%}$	40	50	60	67.5	80	90	100	All sizes from 30 to 100L are feasible for manufacturing
	Nominal weight [Kg]	38	48	57	63	72	81	90	Net weight of the cylinder with neckring (if present) without valve, fittings, paint etc.
	Length L [mm] $\pm 20$	895	1090	1285	1440	1675	1870	2060	Dimension are in accordance with thread option n.1

DESIGN DATA	Minimum design thickness of the cylindrical wall: <b>5.5 mm</b>																
	<b>Working Pressure: up to 200 barg</b>	<b>Hydrostatic Test Pressure: 300 barg</b>															
	<b>Burst Pressure: <math>\geq 480</math> 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><math>\approx 35</math></td> </tr> <tr> <td>2</td> <td>1" NGT</td> <td>Neckring W80-1/11"</td> <td><math>\approx 35</math></td> </tr> <tr> <td>3</td> <td>-</td> <td>2,5"-12UN-2A</td> <td><math>\approx 60</math></td> </tr> </tbody> </table>	Option	Internal thread	External thread	h [mm]	1	25E ISO 11363-1	Neckring W80-1/11"	$\approx 35$	2	1" NGT	Neckring W80-1/11"	$\approx 35$	3	-	2,5"-12UN-2A
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1	25E ISO 11363-1	Neckring W80-1/11"	$\approx 35$														
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3	-	2,5"-12UN-2A	$\approx 60$														

**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  $>60\mu\text{m}$ )

**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

