



SEAMLESS STEEL CYLINDER FOR COMPRESSED NATURAL GAS
COMPLYING WITH ECE ONU R110 CNG-1

REFERENCE TECHNICAL STANDARDS: EN 1964-1; ISO 9809-1; ISO 11439 :2000

Water capacity [l] ⁻⁰ _{+5%}	80	90	95	100	110	120	130	140	150
Nominal weight [Kg]	83	90	93	97	103	110	117	124	131
Length L [mm] ±20	845	935	980	1020	1105	1190	1280	1365	1450

MATERIAL: Seamless steel tube 34CrMo4 EN 10083-1

MANUFACTURING DETAILS

MANUFACTURING PROCESS: HOT SPINNING OF SEAMLESS STEEL TUBE

HEAT TREATMENT: QUENCHING AND TEMPERING

MECHANICAL PROPERTIES (min.)

R _m [MPa]	R _e [MPa]	A ₅ [%]	KV IMPACT TEST AT -50 °C [J/cm ²]	
1000	860	14	average on 3 specimens	single value
HB= 290 ÷ 320			40	32

DESIGN DATA

NECK THREAD:	Inl. thread	Ext. thread	Ø _e	Ø _i	h
	W28.8 DIN477 25E EN629-1	-	42	-	≈ 25
	W31.3x1/14 DIN477	-	45	-	≈ 25
	1" 1/8-12UNF-2A	-	45	-	≈ 25
Alternative threads according to Customer's request					

MINIMUM EFFECTIVE THICKNESS for the cylindrical wall, net of tolerances: **8,2 mm**

Working Pressure: up to 200 bar	Test Pressure: up to 300 bar	Burst Pressure: ≥ 450 bar
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Working temperature: min. -40 °C; max. +82 °C

Hydrogen, Carbon Monoxide and gases incompatible and/or corroding cylinder steel are excluded



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