

SEAMLESS STEEL CYLINDERS Ø 355.6 up to 140 Lt. working pressure 200 bar



Seamless Steel Refillable Cylinders for compressed, mixed and liquefied gases COMPLYING WITH 99/36/CE DIRECTIVE (T-PED)

REFERENCE TECHNICAL STANDARD:

EN 1964-1:1999

Water capacity [L] (-0) (+5%)	60	70	80	90	100	110	120	130	140
Nominal weight [kg.]	76	84	92	100	108	116	124	132	140
Length l [mm.] (±20)	820	930	1040	1150	1260	1370	1480	1590	1700

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]	
900	800	14	average on 3 specimens	single value
HRc= 27 ÷ 34			40	32

DESIGN DATA

NECK THREAD (Alternative thread to customer's requirement)	Inl. thread	Ext. thread	Ø _e	Ø _i	h
	25E EN 629-1	-	40	-	≈ 25
	1"/11,5 NGT*	-	46	-	≈ 35
	-	2,5"/12UN-2A	-	48.8	≈ 60

MINIMUM EFFECTIVE THICKNESS for the cylindrical wall, net of tolerance: **8.1 mm**

Working pressure: up to 200 bar

Test pressure = up to 300 bar

Burst pressure: ≥ 480 bar

Working temperature: min. -50 °C; max +50 °C

Filling ratio for liquefied gases: depending from type of gas

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

