

**NOTES**  
 Cylinder for compressed and liquefied gases except hydrogen or other embrittling gases.  
 (see PN-EN ISO 11114-1)

Pos.	D	ØD <sub>1min</sub>	L <sub>1min</sub>
1	34"-14NGT CGA V-1	36	18
2	1"-11 1/2-NGT CGA V-1	41	22
3	W28,8x1/4kg-DIN477	36	22
4	2SE PN EN ISO 11363-1	36	22

OR THREAD ACC. TO CUSTOMER'S REQUEST

**CHEMICAL COMPOSITION OF MATERIAL %**  
 C=0,30-0,37%; Si=0,15-0,35%; Mn=0,60-0,90%;  
 P<0,020%; S<0,010%; P+S<0,025%;  
 Mo=0,15-0,30%; Cr=0,90-1,20%;  
 Z V, Nb, B, Ti, Zr ≤ 0,15%

**MECHANICAL PROPERTIES OF MANUFACTURED CYLINDER BODY AFTER QUENCHING AND TEMPERING**

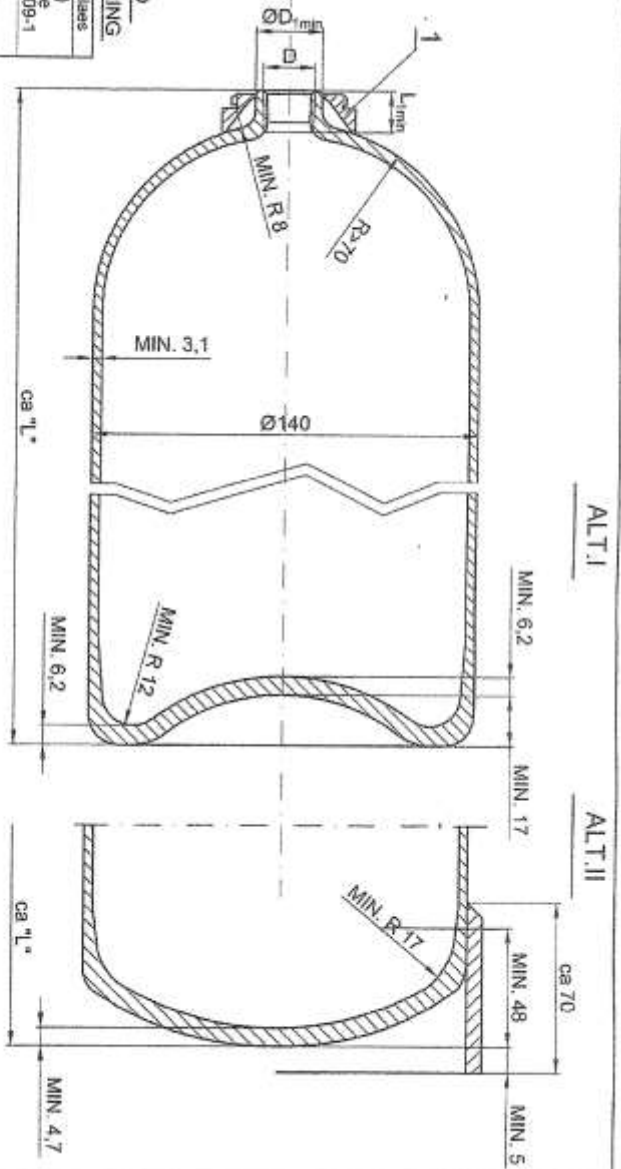
R <sub>e</sub>	R <sub>m</sub>	A <sub>5</sub>	Impact strength values (transverse -50°)
N/mm	N/mm <sup>2</sup>	%	Width of test piece EN 1964-1; ISO 9809-1
min	min	min	<5mm
799	940-1099	14	60 J/cm <sup>2</sup>

Quench: °C 870±30°C - AQUA-QUENCH MK  
 Temper: °C 600±30°C

Capacity [dm <sup>3</sup> ]	Weight [kg] CO <sub>2</sub>	Length [mm] CO <sub>2</sub>
5mln	7,0max	450max
13,4max	15,0max	1085max

**TOLERANCES**

capacity ±0%  
 wall thickness ±0%  
 weight ±10%  
 outside diameter ±1%



**TECHNICAL DATA OF TYPICAL FAMILY CYLINDERS**

Length "L" ca mm	5dm <sup>3</sup>	6dm <sup>3</sup>	7dm <sup>3</sup>	8dm <sup>3</sup>	9dm <sup>3</sup>	10dm <sup>3</sup>	13,4dm <sup>3</sup>	Weight ca kg
450	530	575	595	675	745	820	1085	Alt.I
7,0	8,0	8,7	9,0	10,0	11,0	12,0	15,0	Alt.I
455	535	580	600	680	750	825	1095	Alt.II
7,0	8,0	8,7	9,0	10,0	11,0	12,0	15,0	Alt.II

**MANUFACTURING AND ACCEPTANCE**

- Design and calculation of cylinder wall thickness made in accordance with ISO 9809-1 (PN-EN ISO 9809-1:2010/ISO 9809-1:1999/PN-EN 1964-1:2000) and Directive 2010/35/EU
- Test pressure up to: 300 bar  
 Working pressure up to: 200 bar

1 Neck ring Neck ring 80 DIN 4804 or M-502 or neck ring acc. to customer's request

2 34"CM04 EN 10083

Seamless steel cylinder Ø140

LA4-0912

VITKOVCE MILMET S.A.

WITKOWICE