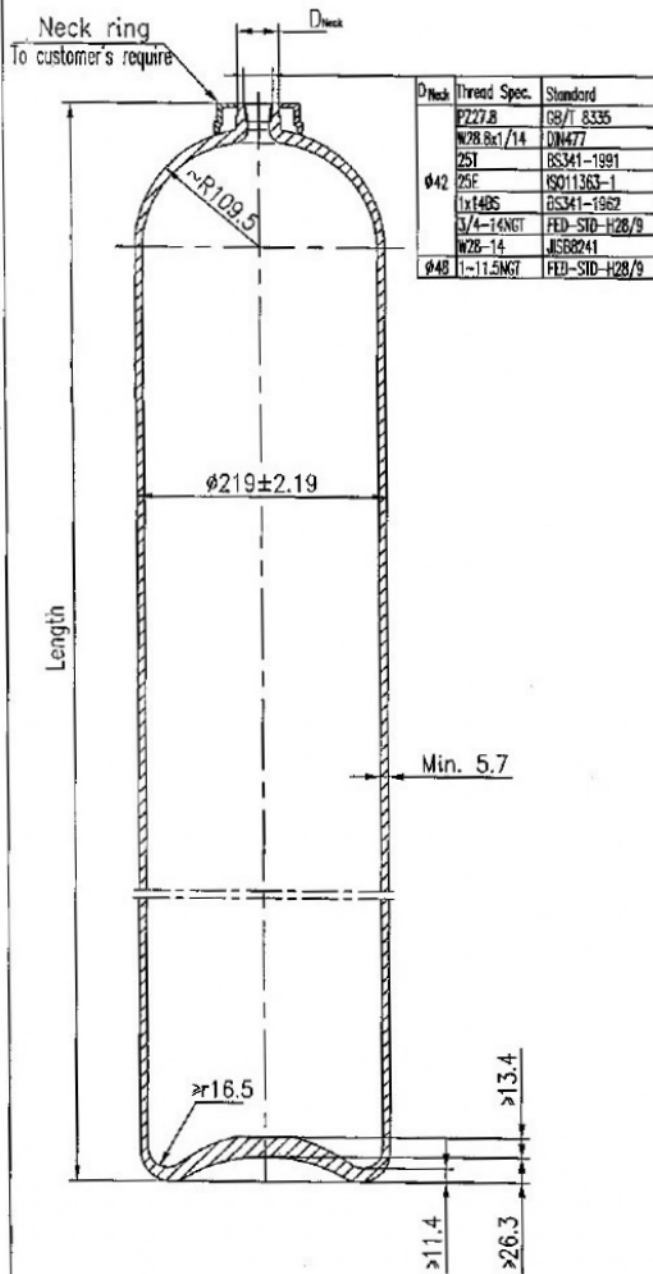


# Technical requirements



1. Application standard: ISO 9809-3:2019
2. Filling contents: compressed gases or liquified gases as per ISO11114-1
3. Environmental temperature: -50°C to 65°C
4. Material: 37Mn (according to GB/T 18248)

Chemical Composition %	C	Mn	Si	Cr	Ni	Mo	Cu	S	P	S+P	V+Nb+Ti+B+Zr+Sn
	0.33-0.40	1.40-1.70	0.17-0.37	<0.20	<0.20	<0.20	<0.20	<0.015	<0.020	<0.030	<0.15

5. Heat treatment: Normalized
6. Hydraulic test pressure: 250bar
7. Working pressure: 150bar
8. Mechanical properties

Tensile strength	Yield strength	Elongation(%)	Impact value(transverse)	Bend test	Hardness
675MPa<Rma<800MPa	Rea>505MPa	>Max(20,25000/2Rma)	>20J/cm <sup>2</sup> (-20°C,V)	Df=4t(675MPa<Rma<800MPa)	162HB-268HB

9.

Specification	Water capacity (L)	19	20	25	27	28	32	35	36	38	40	42	47
	Length ±20(mm)	685	725	875	935	955	1075	1165	1195	1255	1315	1375	1525
	Empty weight approx. (kg)	27	28	33	35	36	40	43	44	46	48	50	55

10. The permanent expansion shall not exceed 10% of the total volumetric expansion measured at the test pressure.
11. Spun-tube cylinder

REV.	0.0			GAS CYLINDER			ISO219-Mn-03		
NO	INDEX	SIGN	DATE	37Mn			QUANTITY	WEIGHT	SCALE
DESN	Li Xiaofan	REVD	Xuehang				Zhejiang Tianen pressure Vessel Co., Ltd		
DRAN		APPD	W-970	TOTAL 1 PAGE					
CHKD	Yang	DATE	2017-12-27						

ø219-40L

编号: A20107 001-200  
A20108 001-060

日期: 2020-09  
客户: 小徐-俄罗斯  
颜色: 蓝色

TE CN ISO9809-3 PH250 PW150BAR 48. KG 40. L  
EAC 25E 5.7MM UT K2 2020-09 SN:A20107XXX

219-40L-小徐-俄罗斯

						<b>浙江天恩压力容器制造有限公司</b>			IS09809-3标记图		
标记	处数	分区	更改文件号	签名	年、月、日						
设计	(签名)	(年月日)	标准化	(签名)	(年月日)	阶段	标记	重量	比例		
审核											
工艺						共 张			第 页		