



**中材科技(成都)有限公司**  
Sinoma Science & Technology (Chengdu) Co.,Ltd

与客户共同发展 为股东创造利润  
与员工共同富裕 为社会创造和谐

GROW WITH CUSTOMERS AND CREATE PROFITS FOR SHAREHOLDERS  
SHARE PROFITS WITH EMPLOYEES AND CREATE A HARMONIOUS SOCIETY

# 压缩氢气瓶参数手册

Compressed Hydrogen Cylinder Parameter Manual



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### 1、车用燃料电池氢气瓶

Vehicle-using fuel cell hydrogen cylinder

标准 Standard	型号 Type	内胆材料 Liner Material	气瓶外径 Cylinder Diameter(mm)	容积 Capacity(L)	公称长度 Nominal Length (mm)	公称重量 Nominal Weight(kg)	工作压力 Working Pressure(MPa)
GB/T 35544	CHG3-370-53-35T/A	6061	405	53	700	36	35
	CHG3-370-101-35T/A		406	101	1150	59	
	CHG3-352-120-35T/A		383	120	1500	68	
	CHG3-352-140-35S/A		383	140	1755	78	
	CHG3-352-145-35T/A		383	145	1800	80	
	CHG3-370-165-35T/A		405	165	1800	88	
	CHG3-390-190-35S/A		422	190	1920	105	
	CHG3-390-190-35S/A (单头)		422	190	1920	105	
	CHG3-390-210-35S/A		422	210	2120	115	
	CHG3-470-260-35S/A		507	260	1850	140	
	CHG3-370-320-35S/A		408	320	3400	175	
	CHG3-370-320-35S/A (船用)		408	320	3400	175	
	CHG3-540-385-35S/A		582	385	2060	200	
	GB/T 35544		CHG3-262-28-70T/B	6061	300	28	
CHG3-272-34-70T/B		316	34		870	35	
CHG3-272-44-70T/B		316	44		1040	45	
CHG3-313-48-70T/B		360	48		882	50	
CHG3-356-57-70T/B		415	57		850	60	
CHG3-272-58-70T/B		316	58		1310	58	
CHG3-356-66-70T/B		410	66		940	62	

### 2、无人机氢气瓶

Composite hydrogen cylinders for drone

型号 Type	内胆材料 Liner Material	气瓶外径 Cylinder Diameter(mm)	公称容积 Nominal Capacity (L)	公称长度 Nominal Length (mm)	公称重量 Nominal Weight(kg)	工作压力 Working Pressure(MPa)
UAV CHG3-C-94-2-35T (M05)	6061	102	2	385	1.2	35
UAV CHG3-C-125-2.5-35T (M05)		132	2.5	288	1.25	
UAV CHG3-C-125-3.5-35T (M05)		132	3.5	375	1.65	
UAV CHG3-C-144-5-35T (M05)		152	5	395	1.85	
UAV CHG3-C-164-9-35T (M05)		173	9	528	2.85	
UAV CHG3-C-164-9-30T (M05)		172	9	526	2.65	
UAV CHG3-C-165-9-35T (M20)		175	9	532	3.2	
UAV CHG3-C-187-12-35T (T05)		196	12	532	3.5	35
UAV CHG3-C-187-12-35T (M05)		197	12	532	3.85	
UAV CHG3-C-220-20-35T (M05)		230	20	655	7	
UAV CHG3-C-218-10.8-35T (M05)		230	10.8	412	3.8	
UAV CHG3-C-218-9-35T (M25)		232	9	362	3.8	

### 3、大容积钢质无缝气瓶

Seamless Large Steel Cylinders

标准 Standard	型号 Type	材料 Material	外径 Outside Diameter(mm)	公称水容积 Nominal Capacity(L)	公称长度 Nominal Length (mm)	公称重量 Nominal Weight(kg)	工作压力 Working Pressure(MPa)
GB/T 33145	TUBE1-559-2250-20	4130X	559	2250	10860	2635	20
GB/T 33145	TUBE1-715-3810-20	4130X	715	3810	11235	4371	20
ISO 11120	TUBE1-559-1045-25	4130X	559	1045	5375	1385	25
ISO 11120	TUBE1-559-2250-20	4130X	559	2250	10860	2635	20

### 4、大容积钢质内胆碳纤维环向缠绕气瓶

Steel Liner and Carbon Fiber Hoop Wrapped Large Cylinders

标准 Standard	型号 Type	材料 Material	气瓶外径 Cylinder Diameter(mm)	公称水容积 Nominal Capacity(L)	公称长度 Nominal Length (mm)	公称重量 Nominal Weight(kg)	工作压力 Working Pressure(MPa)
QZC101-2020	TUBE2-C-508-1920-30	4130X+碳纤	528	1920	10860	1842	30
ISO 11515	TUBE2-C-559-2230-25	4130X+碳纤	559	2230	10950	1700	25
ISO 11515	TUBE2-C-559-2340-25	4131X+碳纤	559	2340	11480	1775	25
ISO 11515	TUBE2-C-559-2408-25	4130X+碳纤	559	2408	11800	1835	25
ISO 11515	TUBE2-C-559-1045-25	4131X+碳纤	559	1045	5360	835	25
ISO 11515	TUBE2-C-559-450-25	4131X+碳纤	559	450	2540	395	25
ISO 11515	TUBE2-C-559-2450-25	4131X+碳纤	559	2450	12000	1860	25
QZC101-2020	TUBE2-C-719-4120-20	4130X+碳纤	739	4120	11280	2490	20

### 5、移动式运氢集装箱

Mobil Hydrogen transport MEGCs

管束集装箱参数 Multiple Element Gas Containers Parameter				
集装箱尺寸 Container Size	40FT	40FT	40FT	40FT
气瓶类型 Cylinder Type	Type1	Type1	Type2碳纤	Type2碳纤
工作压力 Working Pressure (15°C) (MPa)	20	20	30	20
气瓶外形尺寸 (mm) Cylinder Outer Dimension	φ559×10860	φ715×11235	φ529×10860	φ739×11280
气瓶工作温度 Cylinder Working Temperature(°C)	-40~60	-40~60	-40~60	-40~60
单瓶水容积 Single Cylinder Capacity (L)	2250	3810	1920	4120
公称水容积 Nominal Capacity (L)	24750	26670	28800	37080
氢气体积 (15°C) Hydrogen Volume	4408	4690	7240	6511
框架尺寸 (L×W×H)(mm)	12192×2438×1965	12192×2438×2280	12192×2438×2480	12192×2438×2591
框架总重量 (kg) Skid Dimension	33850	35000	33780	28591
氢气重量 (kg) Hydrogen Weight	370	392	610	547
框架总重 (含氢气) (kg) Total Weight (Incl.H2)	34220	35392	34390	29138
气瓶数量 Cylinder Numbers (只)	11	7	15	9

### 6、站用钢制瓶式压力容器

Stationary Storage Steel Pressure Vessels

型号 Type	材料 Material	气瓶外径 Cylinder Diameter(mm)	公称水容积 Nominal Capacity(L)	公称长度 Nominal Length (mm)	公称重量 Nominal Weight(kg)	工作压力 Working Pressure(MPa)
ZHP-485-1000-50/45	4130X	485	1000	8000	3200	45
ZHP-485-1250-50/45	4130X	485	1250	9902	3916	45
ZHP-485-1500-50/45	4130X	485	1500	11788	4779	45
ZHP-559-2350-22/20	4130X	559	2350	11860	3580	20