



Alternative Fuels Ground Storage Designs

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ASME UNITS FOR COMPRESSED NATURAL GAS STORAGE				
LENGTH (ft)/(m)	COMMON CONFIGURATIONS	WATER VOLUME (ft ³)/(liters)	CAPACITY @ W.P. (SCF)/(SCM)	WEIGHT (lbs)/(kg)
VESSEL DIAMETER 20" / 508mm DESIGN PRESSURE 5500 psi / 379 bar WORKING PRESSURE 5000 psi / 345 bar				
11'-6"/3.5	1-PACK	16.0/453	5,711/162	4,219/1,914
	3-PACK	48.0/1,359	17,133/485	11,882/5,390
19'-2"/5.8	1-PACK	28.1/796	10,030/284	6,390/2,898
	3-PACK	84.3/2,387	30,090/852	18,390/8,342
23'-0"/7.0	1-PACK	34.2/969	12,207/346	7,515/3,409
	2-PACK	68.4/1,937	24,414/691	14,513/6,583
	3-PACK	102.6/2,906	36,621/1,037	21,770/9,875
	4-PACK	136.8/3,874	48,828/1,383	29,026/13,166
	6-PACK	205.2/5,811	73,242/2,074	43,540/19,749
	9-PACK	307.8/8,717	109,863/3,111	65,310/29,624
37'-0"/11.3	3-PACK	168.9/4,783	60,285/1,707	34,140/15,486
VESSEL DIAMETER 24" / 610mm DESIGN PRESSURE 5380 psi / 371 bar WORKING PRESSURE 4842 psi / 334 bar				
16'-3"/5.0	3-PACK	101.1/2,863	35,565/1,007	21,720/9,852

OTHER CONFIGURATIONS AND VESSEL SIZES ARE AVAILABLE

Assemblies commonly include with each vessel:
 ASME safety relief valve - sized for fire conditions
 Stainless steel full port ball valve with locking device for servicing safety relief valve
 Wide range of sizes on Stainless steel full port inlet/outlet ball valve
 1/2" Stainless steel drain valve

COMMON HYDROGEN SINGLE VESSELS				
Vessel Dimension o.d. x length (in x ft/mm x m)	Design Pressure (psi/bar)	Vessel Water Volume (ft ³ /L)	Gas Volume per Vessel @ working pres. (SCF)/(SCM)	Vessel Weight (lbs/kg) ea.
16" x 30'-0"/406 x 9.1	6667/460	27.0/765	8,693/246	6672/3026
16" x 25'-0"/406 x 7.6	8695/600	20.6/583	8,100/229	6335/2874

Material can be ordered for specific requirements based on customer specifications.