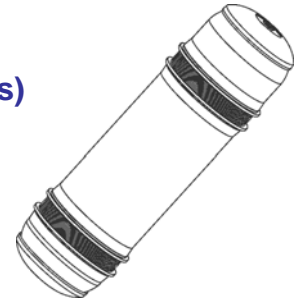


**Part Number:** 113506  
 113506 -001, -002,-003, -004 (W/ Isolators)

**Part Description:** Compressed Natural Gas (CNG) Fuel  
 Storage Cylinder



## Product Technical Specifications

### General Specifications

Internal Volume .....	103 ±2 Gallons (390.5 ±7.5L)
Overall Length @ 350 psi .....	61" ±0.3" (1551 ±6mm)
Overall Diameter @ 350 psi .....	25" ±0.3" (635 ±7mm)
Cylinder Mass .....	167.6 ±11 lb (76 ±5 kg)
Cylinder Mass (-001, -002, -003, -004) .....	211.6 ±11 lb (96 ±5 kg)
Approved Service Gas .....	Compressed Natural Gas (CNG)
Service Life .....	20 Years
Cylinder Construction .....	Type IV
Cylinder Certifications .....	NGV2-2007
Service Pressure .....	3,600 psi (24.8 MPa) @ 70°F (21°C)
Minimum Working Pressure .....	290 psi (2 MPa)
Cylinder Temperature Range .....	-40°F (-40°C) to 185°F (85°C)
Color .....	Black
Dimension from Valve Boss to Center of First Isolator (-001) .....	16.7"±0.1" (423 ±2mm)
Dimension from Valve Boss to Center of First Isolator (-002) .....	21.2"±0.1" (538 ±2mm)
Dimension from Valve Boss to Center of First Isolator (-003) .....	16.2"±0.1" (412 ±2mm)
Dimension from Valve Boss to Center of First Isolator (-004) .....	16.3"±0.1" (414 ±2mm)
Isolator Center to Center (-001) .....	26.5"±0.1" (672 ±3mm)
Isolator Center to Center (-002) .....	21.7"±0.1" (550 ±3mm)
Isolator Center to Center (-003) .....	29.6"±0.1" (751 ±4mm)
Isolator Center to Center (-004) .....	29.5"±0.1" (750 ±3mm)
Maximum Strap Width for Isolators (-001, -002, -003, -004) .....	4.25" (108mm)

For Gasoline Gallon Equivalent (GGE), Diesel Gallon Equivalent (DGE) and Standard Cubic Feet (SCF) information for this cylinder refer to the *Quantum CNG Cylinder General Specifications* document.

\* Cylinders with a Canadian Registration Number (CRN) have been approved for the indicated jurisdictions. Contact Quantum for additional approvals.

## Approved Valves and Pressure Relief Devices (PRD)



*Only approved valves and PRD's are to be installed in your Quantum cylinder. Installation of a valve, PRD or combination of the two components not approved for your cylinder will result in death or serious injury.*

### Manual Valves:

1. Quantum PN 113253, Use with PRD #1
2. Quantum PN 114816, Use with PRD #2

### Automatic Valves:

1. N/A

### PRD's:

1. Quantum PN 113247 PRD Manifold Assembly (use only with Manual Valve #1)
2. Quantum PN 114412 PRD Manifold Assembly (use only with Manual Valve #2)



*The PRD manifold assemblies indicated above MUST be built and installed using the specifications and criteria defined on the PRD manifold assembly data sheet for the cylinder and valve combination being used. The PRD manifold assembly MUST be properly secured, if the PRD manifold is not secured the PRD manifold assembly may not operate as intended during a PRD event. Failure of the PRD manifold to operate as intended will result in death or serious injury.*

**Mechanical Interface**

Valve Interface .....	1 1/8" -12 UNF-2B
Valve Boss Material .....	Steel, Nickel plated
Second Valve Interface (if applicable) .....	N/A

**Torque Specifications**

Valve Interface (Recommended) .....	100 lb-ft (135 N.m)
Second Valve Interface (if applicable) .....	N/A

**Maintenance Parts**

Valve Interface O-Ring .....	Quantum PN 111409-216
PRD (113247 PRD Manifold) .....	Quantum PN 113254
PRD (114412 PRD Manifold) .....	Quantum PN 114405
Replacement Certification Label - Dynamic .....	Contact Quantum Technologies
Replacement Certification Label - Static .....	Quantum PN 113446
Replacement Warning Label .....	Quantum PN 113224

**Cylinder Brackets**

Some jurisdictions require that cylinder manufacturer approved cylinder brackets be used for installation of cylinders.

Use only cylinder brackets produced or approved by Quantum Technologies for mounting your CNG cylinder.

Selection and use of cylinder brackets is the sole responsibility of the installer to ensure the bracket selected will comply with all regulations applicable in the jurisdiction where the vehicle will be operated.

**Maintenance Considerations**

Inspect the CNG cylinder and brackets every 3 years or 36,000 miles (60,000 km), whichever comes first. The frequency and level of inspection may vary based on state and local requirements.

For additional information, refer to the *Type IV Compressed Natural Gas (CNG) Cylinder Installation and Maintenance Guide* available at [www.qtwv.com](http://www.qtwv.com).