

**Part Number:**           **112744 (Canada Destination)**  
                                   **112744-001 (US Destination)**  
                                   **112744-002 (Export)\***

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



## Product Technical Specifications

### General Specifications

Internal Volume .....	72.4 ±1.3 Gallons (274 ±5 L)
Overall Length @350 psi .....	60" ±0.4in. (1523.5 ±10.5mm)
Overall Diameter @350 psi .....	21.2" ±0.2in. (536.5 ±6.5mm)
Cylinder Mass .....	134.9 ±6.6 lb (61.2 ±3 kg)
Approved Service Gas .....	Compressed Natural Gas (CNG)
Service Life .....	20 Years
Cylinder Construction .....	Type IV
Cylinder Certifications (112744) .....	CSA B51-09 Part 2
Canadian Registration Number (CRN) .....	British Columbia, Ontario – R0233.51*
Cylinder Certifications (112744-001) .....	ANSI NGV2-2007
Cylinder Certifications (112744-002) .....	ECE R110:2008 & ISO 11439:2013
ECE Registration Number .....	E24 110R-000052
ISO Registration Number .....	DS1303221 – ISO11439
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

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.

\* Check with local, state, and government regulations to ensure the cylinder meets all necessary requirements before installation.

\* 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 113858, (PRD included in valve)
2. Quantum PN 112508, (Use only with PRD #1)<sup>1</sup>
3. Quantum PN 115410, (PRD included in valve)

### Automatic Valves:

1. Quantum PN 112520-3, (PRD included in valve)
2. Quantum PN 114224, (PRD included in valve)<sup>1</sup>
3. Quantum PN 114349, (PRD included in valve)<sup>1</sup>

### PRD's:

1. Quantum PN 102106 PRD  
This PRD is only approved for use with manual valve #2 indicated above.

<sup>1</sup> These valves have been approved for the 112744 and 112744-001 cylinders only.

## Mechanical Interface

Valve Interface .....	1 1/8" -12 UNF-2B
Valve Boss Material .....	Anodized Aluminum
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 Interface Sealing Washer (102106 PRD Valve) .....	GFI PN P1200-15C
PRD (112508 Manual Valve) .....	Quantum PN 102106
Replacement Certification Label (112744, -001, -002) .....	Contact Quantum Technologies
Replacement Warning Label (112744) .....	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 4 Compressed Natural Gas (CNG) Cylinder Installation and Maintenance Guide* available at [www.qtw.com](http://www.qtw.com).