# Integrado sistema de GNC

## *CNG System Components*

### Control panel

**Intergrated CNG filling panel.**

- Pressure gauge: Display CNG cylinder pressure.
- Filling valve: NGV1 or NGV2 fast filling.
- Filling shut-off valve: Shut off the CNG after filling.
- Venting valve: When system maintenance, exhaust gas empty from the piping system.

NGV

Plug in

### Filling Valve

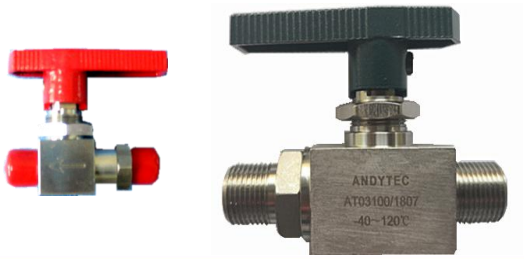
**Filling CNG to cylinder, including the check valve.**

- Working pressure: 20 MPa(200bar).
- Working temperature: -40℃～+120℃.
- Working media: Natural gas.
- Two options: NGV1 & NGV2.


### Overflow Protection Valve.

**When CNG system leaks in excess, it can automatically shut off gas supply to achieve safety and protection.**

- Rated working pressure: 20 MPa(200bar).
- Working temperature: -40℃～+85℃.
- Working media: Natural gas.
- Rated shut off value: 80+7Nm³/h.
- No need to have daily maitenance and manual operation.




### High Pressure Shut-off Valve(Ball Valve)

**Manually open or shut off the CNG supplyment.**

- working pressure: 20 MPa(200bar).
- Working temperature: -40℃～+120℃.
- Working media: Natural gas.

### High Pressure Gauge

**Indicates the cylinder pressure.**

- Range: 0 - 40 MPa(400bar)
- Accuracy: 2.5 grade.


### Check Valve(One way)

It is used only as the pathway when filling CNG to Cylinder. The pathway is automatically cut off during natural gas supply.

*E-mail.sales@andytecfuelsolutions.com*
*Phone.+86 134 666 18175*
*www.andytecfuelsolutions.com*
*www.andy-tec.cn*

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## *CNG System Components*


Pressure display

Pressure sensor

### Pressure display & Pressure sensor

**Display the remaining gas pressure of CNG cylinder on the dashboard. Light and sound alarms can prompt drivers to refill natural gas in time.**

- Range: 0-30.0MPa.
- The display rated working voltage: DC24V.
- Pressure sensor rated working voltage: DC5V.
- Pressure display accuracy: ±1MPa.
- Working temperature: -40℃～+85℃.
- Green light： Normal working voltage.
- Yellow light：≤ 3 MPa, light and sound prompt the driver to refilling.
- Red light：≤ 1 MPa, the alarm light, light and sound prompt driver that the engine can not work normally.


### High pressure filter

**Filter the particles and impurities in the CNG .**

- Working pressure: 20 MPa(200bar).
- Working temperature: -40℃～+120℃.
- Working media: Natural gas.
- Filtration accuracy: 20～30μ.
- Blasting test pressure: 100 MPa.


### High pressure precise filter

**Filter the particles and impurities in the CNG to protect the high pressure solenoid valve and decompressor.**

- Working pressure: 20 MPa(200bar).
- Working temperature: -40℃～+120℃.
- Working media: Natural gas.
- Filtration accuracy: 0.3μ.

### Low pressure filter

**Filter impurities and water of the NG to prevent blocking the nozzle of the engine**

- Max working pressure: 3.5 MPa.
- Rated volume: More than 90Nm³/h.
- Filtration accuracy: 0.3μ.
- Working temperature: -40℃～+120℃.
- Working media: Natural gas.

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## *CNG System Components*

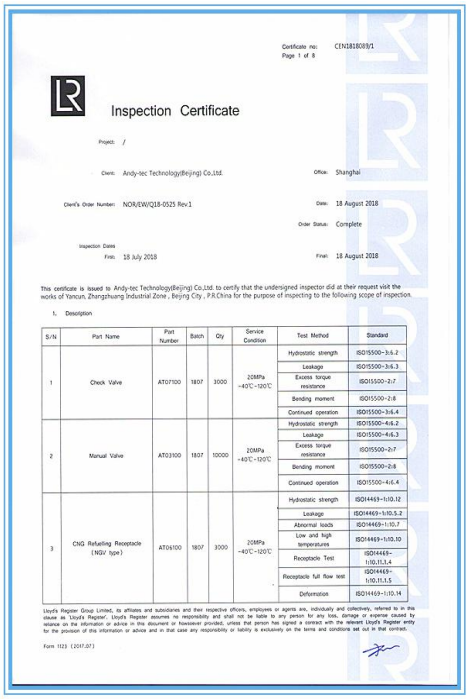
### CNG lok fittings

- Customized **Male & Female**, **90°** ,**T** & **Cross, plug and nuts** connectors for **6mm**、**8mm** or **12mm** tube.
- Common thread size: 1/4” NPT, 9/16” UNF.
- Working pressure: 20MPa.
- Working temperature: -40℃～+85℃.
- Working media: Natural gas.
- Certificate: ISO15500.

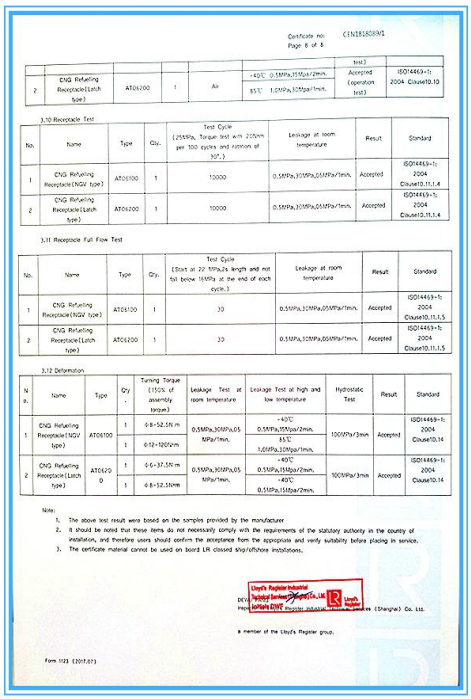
### High pressure stainless steel tube

- Working pressure: 20MPa.
- Tube size: Φ6mm, Φ8mm & Φ12mm.
- Working media: Natural gas.
- Working temperature: -40℃～+85℃.
- Certificate: ISO15500.

## ISO15500 CNG System Components Certification



Inspection Certificate



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