Compressed Natural Gas Vent/Flare Adapter Kit

by: Responder Training Enterprises, LLC

HIGH PRESSURE GAUGE

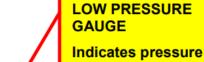
Indicates fuel storage cylinder pressure, nominal 3600 psi

1/4-TURN MAIN SHUTOFF VALVE

Stops fuel flow to the engine. Normally OPEN. Turn OFF and depressurize before servicing.

DEFUEL RECEPTACLE

Used when removing fuel from the cylinder



exiting the regulator, nominal 125 psi

INSTALL DATA LABEL

Water volume, litres, install location and date, cylinder expiration date

FILL RECEPTACLE

Slow fill shown



RESPONDERTRAINING.COM

Version 1.2

Assembly &

Operating
Guide

Ronald D. Huffman

Responder Training Enterprises, LLC.

7/19/2022



WARNING

DO NOT utilize this assembly without a functioning high pressure control valve.

Connect to the RTE CNG kit supplied hose and gauge assembly. Designed to be only used on a vertical flare system with 4 legs/supports.

Thank you for purchasing our Compressed Natural Gas Vent/Flare Connector Kit. My intention in creating and producing this product was to provide response and service organizations with a quality tool that would exceed anything else currently on the market and last the owner for years to come.



As a career and a volunteer firefighter, I know how important it is to respond with the tools you need to get the job done quickly and safely.

If you have any questions, concerns or comments please contact me.

Be safe brothers and sisters

Ronald D. Huffman Owner, Responder Training Enterprises, LLC (765) 524-4848 Mobile

Designer, manufacturer and distributor of this and many other response tools.

Call me anytime for response tools or our one-of-a-kind propane training course, "Propane Response – 101 to Advanced Tactics"

Photo of the "**Dragon**" looking down on me during a Propane Live Fire class taught in Greenfield IN.



Table of Contents

Specifications	
· Set-Up and Assembly	
Direct Vent Tip	
CNG Defueling Auxiliary Wiring Kit	
Flaring Operations	7
Final Inspection Before Ignition	7
OPTIONAL Equipment	8
Pressure Regulator Assembly (Optional)	8
Defueling Nozzle with 12-foot hose with Quick Connector	8
Warranty:	12
Manufacturer Liability Limitation:	12

READ AND FOLLOW ALL SAFETY INFORMATION

IF YOU ARE UNSURE STOP!

REREAD THE INSTRUCTIONS OR

CONTACT RESPONDER TRAINING ENTERPRISES
FOR ASSISTANCE

Specifications

Name: Compressed Natural Gas Vent/Flare Kit

SKU: CNG-1

Product: CNG

Use with any other material voids all warranties expressed or implied.

Highlighted text: Indicates special attention should be applied to the information provided

IMPORTANT: Prior to operating the CNG to Propane Flare Kit and any of its accessories you must fully read, understand and follow the information in this document. IF YOU ARE UNSURE OF HOW TO CONDUCT ANY FUNCTION OR OPERATION "STOP", CONSULT THIS DOCUMENT OR CONTACT RESPONDER TRAINING ENTERPRISES, LLC. FOR CLARIFICATION.

to follow the appropriate safety measures could result in serious injury or death. In addition to this product literature all appropriate Local, State and Federal codes, regulations and guidelines must be identified and followed at all times.

Only personnel that have received proper training and understand the proper use of this product(s) and associated equipment should operate the Responder Flare and/or any of its accessories during training or incident response.

WEAR APPROVED PPE INCLUDING: GLOVES, BODY, HANDS, EYES and RESPIRATORY PROTECTION DURING SET-UP AND OPERATIONS.



Read before using the warranty, liability and additional special information found at the end of this document.

Set-Up and Assembly

- 1. Open the storage case and remove the equipment bag and hose.
- Based on local SOP/SOG and incident needs, connect the hose to the CNG system.
 - a. Connect the hose to the vehicle using either the hose's quick connector or one of the optional high pressure male quick connectors.
 We have added 3 spare ½" ferrules







3. Connect the "Pressure Gauge/Valve Assembly" to the hose.



- 4. Select the desired attachment based on the desired discharge pressure.
 - a. 350-psi Direct Vent Valve assembly



WARNING

OPEN THE SOURCE VALVE SLOWLY

<u>DO NOT</u> EXCEED 350 psi!!!

If the Pressure Relief Device has activated IMMEDIATELY reduce the pressure/flow.

WARNING

Keep away from the Pressure Relief Discharge

Wear approved Personal Protection Equipment including EYE, Face and Body Protection

- i. This device has been designed to allow discharge pressure to be managed using the valve to throttle discharge flow.
 - Operation with the valve in the closed position (pictured) connect the assembly to the Pressure Gauge Assembly
 - 2. Connect a flare with a 4 legged base. Do NOT discharge CNG at higher pressures (100 psi and higher) in any direction other than straight up.
 - 3. SLOWLY open the Black valve until the desired discharge pressure is reached or the pressure relief activates.
 - a. NOTE: The assembly contains a 350-psi relief valve that will provide an audible alert when the max

pressure is reached.

b. DANGER: DO NOT place any body parts in front of the discharge port.

Direct Vent Tip

- ii. The Direct Vent Tip allows full tank pressure to be released to atmosphere. This tactical option is designed to be used with the 1inch Responder Flare (aka The Dragon Slayer).
 - 1. Connect the Direct Vent Tip to the end of the high-pressure hose supplied with in the kit.



- 2. Tilt the 1-inch Responder Flare and slide the Direct Vent Tip on the 1-ing pipe/flare.
- 3. Stand the flare and secure the lock knob on the flare

NOTE: All flares should be stabilized and secured when used.

CNG Defueling Auxiliary Wiring Kit

The Compressed Natural Gas Vent/Flare Kit include a 12VDC wiring harness to activate tank solenoids. Extreme caution must be used when working with CNG tanks.



The wiring kit includes several connection options. Power supply options include a 20' cable with cigarette, battery clip and off/on switch options. And the following

- 1 OMB Female Pigtail
- 1 Rotarex Solenoid Pigtail
- 1 OMB Solenoid Pigtail

- 1 set Small Alligator Clips
- 2 Blank ends
- 1 set 1/8 round pin ends
- 1 spare fuse for cigarette power end

Flaring Operations

Prior to starting a flaring operation ensure that a clear burn area capable of supporting the estimated radiant heat in all directions is available.

Final Inspection Before Ignition

- 1. Prior to igniting the flare ensure that all connections are tight.
- 2. Ensure that all rubber components are protected from sharp edges that may rub and cause damage.
- 3. Ensure that your flare is stable.
- 4. Ensure that all areas are clear of ignitable materials including items susceptible to radiant heat damage such as vinyl siding, painted items, plastics, glass, etc...
- 5. Verify that all personnel and others are in a safe area and are aware of operational tactics and hazards.



FLARING OPERATIONS MUST BE MONITORED CONTINUOUSLY.

NEVER LEAVE A FLARING OPERATION UNATTENDED.

FOLLOW ALL SAFETY RULES

Before using this equipment, you must be trained in defueling operations for mounted and unmounted CNG tanks/cylinders. As you will see from the images below there and numerous configurations and designs from multiple manufacturers.

OPTIONAL Equipment

Pressure Regulator Assembly (Optional)

- i. Connect the Regulator Assembly to the Pressure Gauge Assembly
- ii. Connect your propane flare.
- iii. Slowly open the control valve on the Gauge Assembly. (full open provides 135 psi discharge pressure)

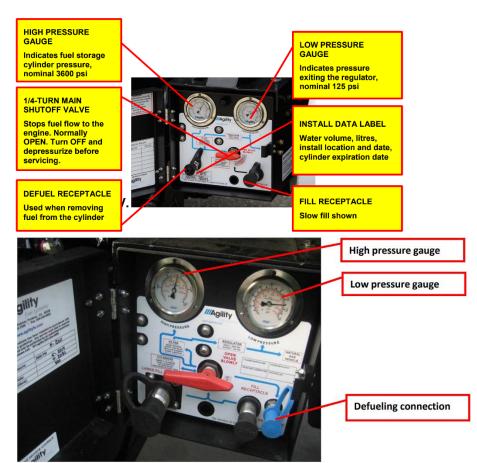


Defueling Nozzle with 12-foot hose with Quick Connector

Service nozzle for discharging CNG fuel tanks of cars through the filling receptacle.





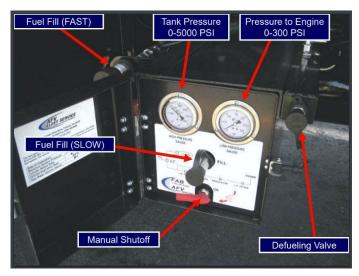


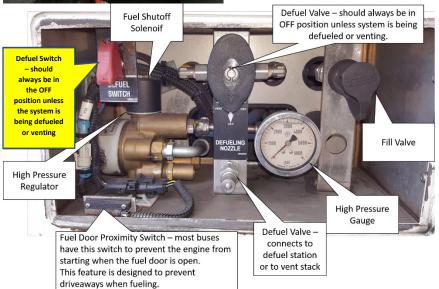


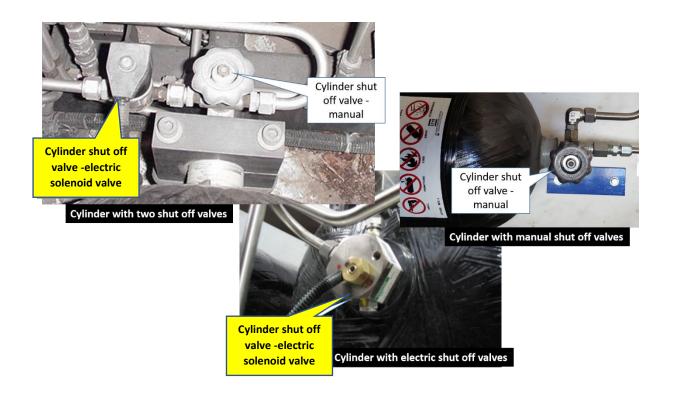














Use of any Responder Training Enterprises, LLC provided, manufactured equipment constitutes acceptance of the terms and conditions listed in this document.

Warranty: This warranty and use of the product(s) applies to the original purchaser. The manufacturer guarantees all components against failures in materials and/or workmanship for a period of **1 year** from the date of purchase. If any part of the purchased system fails due to materials and/or workmanship the purchaser must contact Responder Training Enterprises, LLC (RTE) for repairs, replacement, or refund of the original purchase price of the defective component at the discretion of RTE. RTE may require that the defective component be returned for inspection and repairs. The purchaser must contact Responder Training Enterprises to obtain a Return Goods Authorization number (RGA) prior to returning any component of the system. If the damaged item is deemed to be the result of improper use or neglect, RTE reserves the right to charge for service and/or repairs including shipping to and from RTE.

Do not ship items to anyone other than Responder Training Enterprises.

This warranty does not cover consequential damages resulting from the use of the product, including damage caused by flames or heat created during operations, loss of service availability and/or time involved due to warranty issues.

Manufacturer Liability Limitation: Failure to use this product in any manner or purpose other than intended by the manufacturer and/or for products other than identified or described and/or servicing the equipment by anyone other than Responder Training Enterprises, LLC employees or persons trained by Responder Trainings Enterprises, LLC to conduct service on the equipment and/or applying or installing unapproved alterations to any part of the system voids the warranty and releases the manufacturer from any and all liabilities including damages to equipment, property, injuries and/or death caused by the use of the product and any of its accessories.

NOTE: Retailers are not responsible for this product in any way other than supplying the product(s) as promised. Retailers, persons, agencies, companies and/or corporations providing advertising may not be held liable for manufacturer defects in materials and/or workmanship, improper training unless the training was provided by the aforementioned and/or use of the equipment by the end user for statements and/or advertising made available by Responder Training Enterprises, LLC in any way.

If for any reason the equipment fails to function as intended, please contact Responder Training Enterprises, LLC immediately so that we can help you.

Thank you for purchasing this quality product.

Ronald D. Huffman

Owner, Responder Training Enterprises

PO Box 182

Shirley, IN 47384

respondertraining.rdh@gmail.com – EMAIL

(765) 524-4848 - Cell

http://www.respondertraining.com

Responder Training Enterprises, LLC www.respondertraining.com



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