



Customer Service
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Dual Fuel Products and Applications

Figure 1

Provides an overview of how natural gas (NG) flows from the gas well into a conditioner skid and then to a manifold that directs the NG fuel to high horsepower (HHP) engines that run hydraulic fracturing pumps. When low pressure hose assemblies are used to transfer NG to the manifold, a 2" dry gas coupler (DGC200SS) and adapter (DGA200SS) or the 2" dry disconnect coupler (DDC200SS) and adapter (DDA200SS) are commonly used as connections.

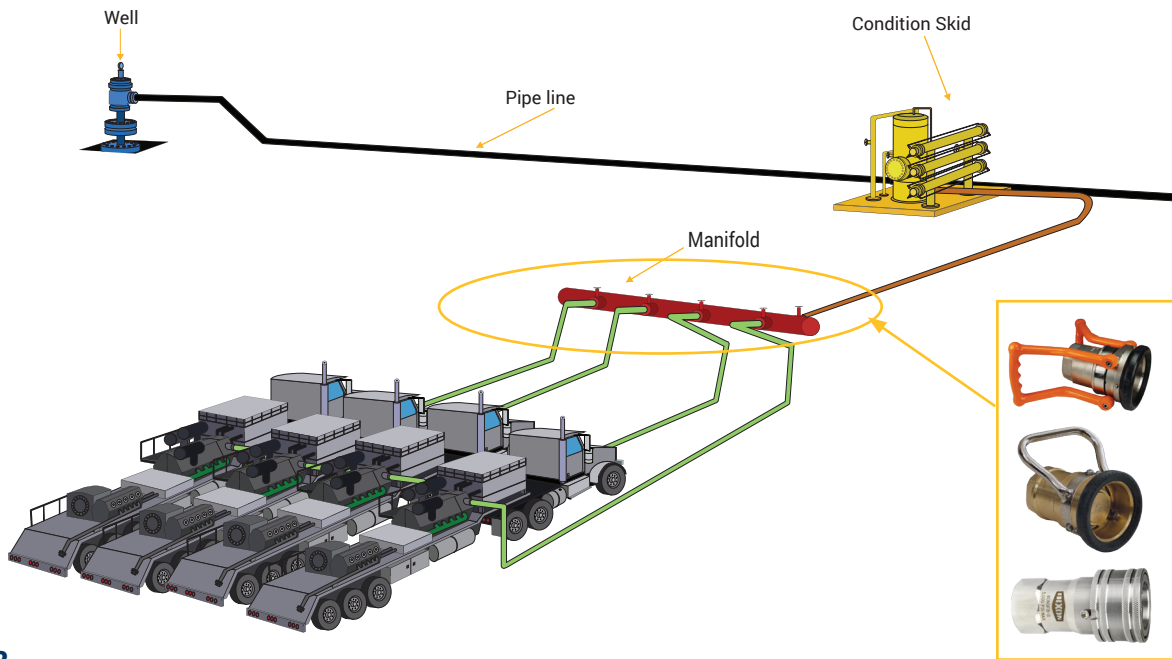
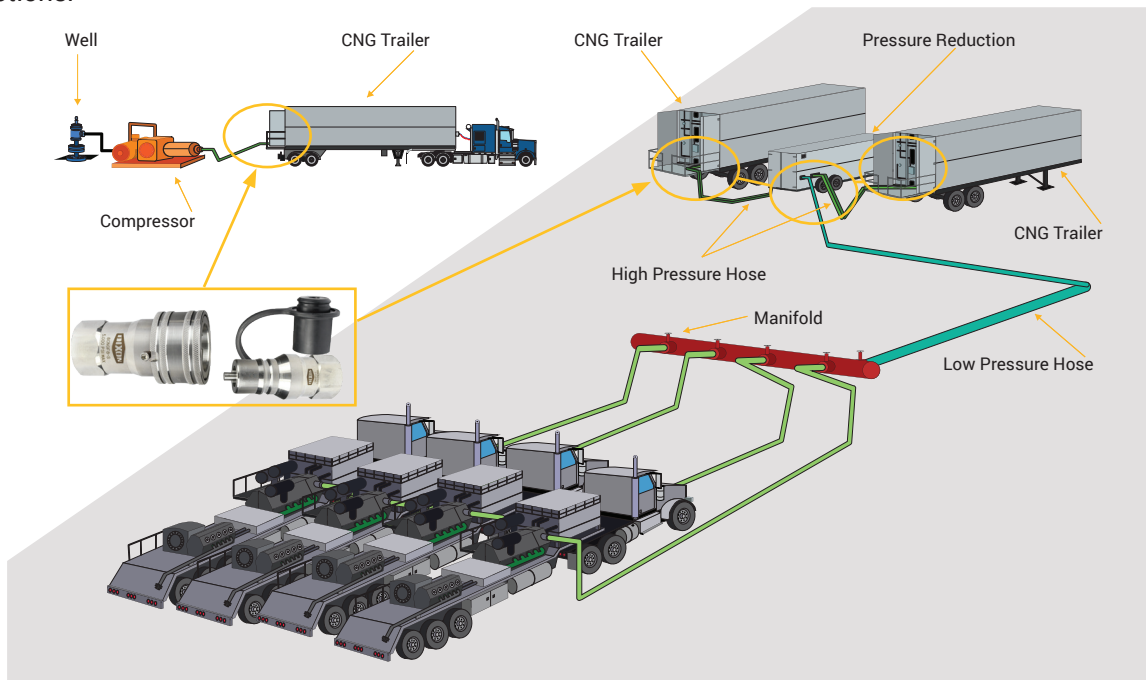


Figure 2

Provides an overview of a dual fuel operation when using compressed natural gas (CNG). When high pressure hose assemblies are used to transfer CNG from the compressor to trailers and then to the pressure reduction unit, the 1" ISO B 303 stainless steel coupler (8CNGF8-S) and 303 stainless steel plug (CNG8F8-S) are commonly used as connections.



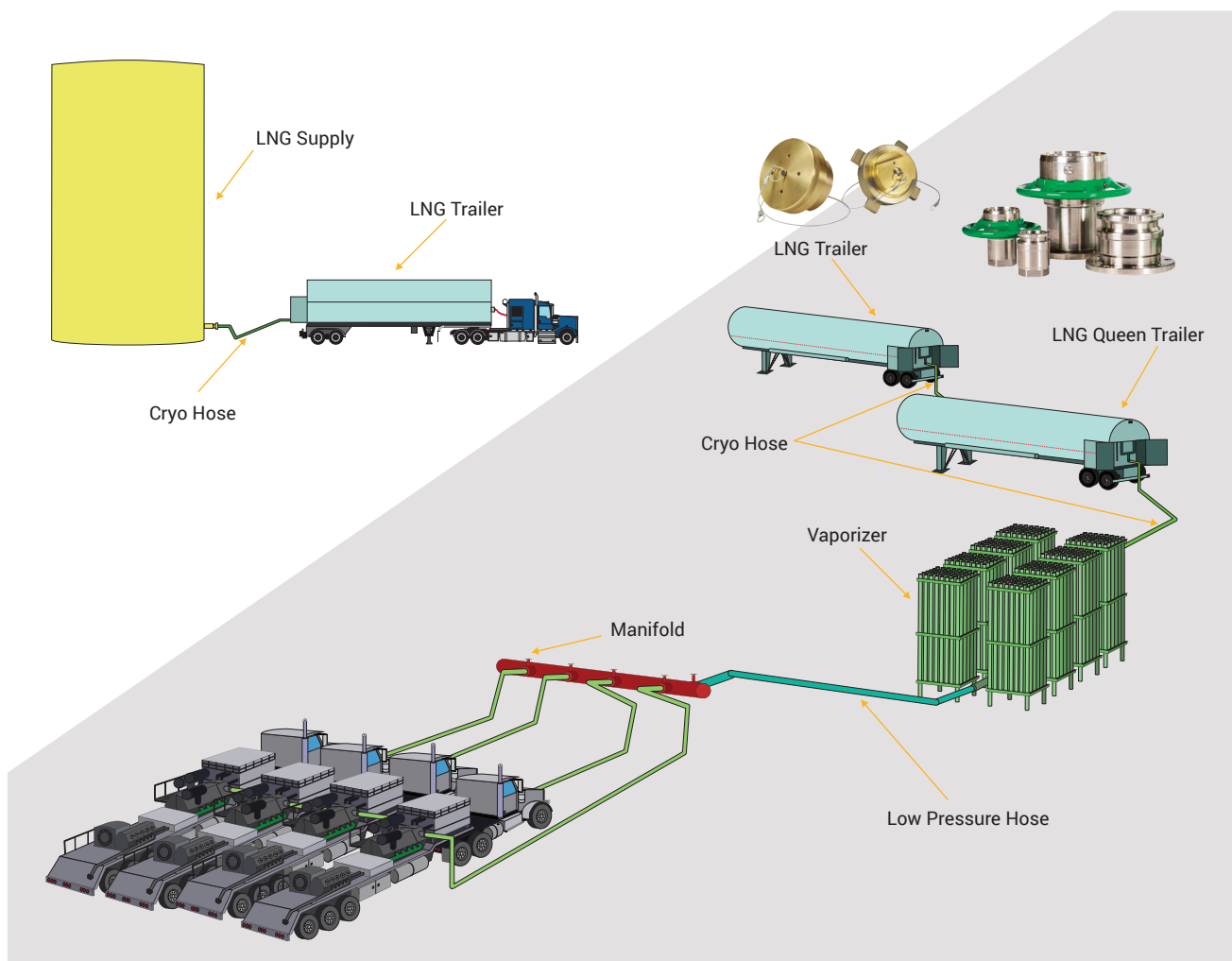
Additional Dixon products and sizes are available at dixonvalve.com.

Dual Fuel Products and Applications

Figure 3

Provides an overview of the path of liquid natural gas (LNG) flowing from a supply tank to cryogenic truck trailers. When hose assemblies are used to transfer LNG, the 3" dry disconnect coupler (CRYDDC300SS) and adapter (CRYDDA300SS) are commonly used as connections.

Other fittings that are regularly used on LNG hose assemblies are 3" brass hose ends (LNG30BRHE-NC) and fixed end with cap (LNG30BRFE). From the vaporizer, the NG flows to a manifold and then to HHP engines.



Additional Dixon products and sizes are available at dixonvalve.com.

Dual Fuel Products and Applications



DGC200SS
2" dry gas coupler hose
unit x female NPT
150# flange



DGA200SS
2" dry gas adapter tank
unit x female NPT
150# flange



DDC200SS
2" dry disconnect coupler
hose unit x female NPT
150# flange



DDA200SSFL
2" dry disconnect adapter
tank unit x female NPT
150# flange



8CNGF8-S
1" CNG-Series poppet
valve female threaded
coupler



CNG8F8-S
1" CNG-Series female plug



CRYDDC300SS
3" cryogenic dry
disconnect coupler-hose
unit x female NPT
150# flange



CRYDDA300SS
3" cryogenic dry
disconnect adapter-tank
unit x female NPT
150# flange



LNG30BRFE
3" cryogenic LNG coupling
cap with cable



LNG30BRHE-NC
3" cryogenic LNG coupling
hose end

Additional Dixon products and sizes are available at dixonvalve.com.

Diesel Fueling Products



Fuel Vent



**Diesel Fueling System
Nozzle and Receiver**



Outalarms with Probe

Designed for on-site refueling of construction, mining, forestry, and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems. Tested to 180 gallons per minute. The nozzle incorporates a "ball lock" mechanism to ensure smooth and reliable operation.

Specifically designed for liquid loading and overfill protection of tanks and tank trucks. No moving parts digital capacitance sensor with integral splash shield requires no calibration or adjustment.

FR2 receiver allows replacement of wear components without draining the fuel tank, receiver has an aluminum base with nickel-plated steel nose.



Bayloc® Couplings - Adapters
1-1/2" to 3"



**Dry Quick Disconnect
Couplers**
2" and 3"

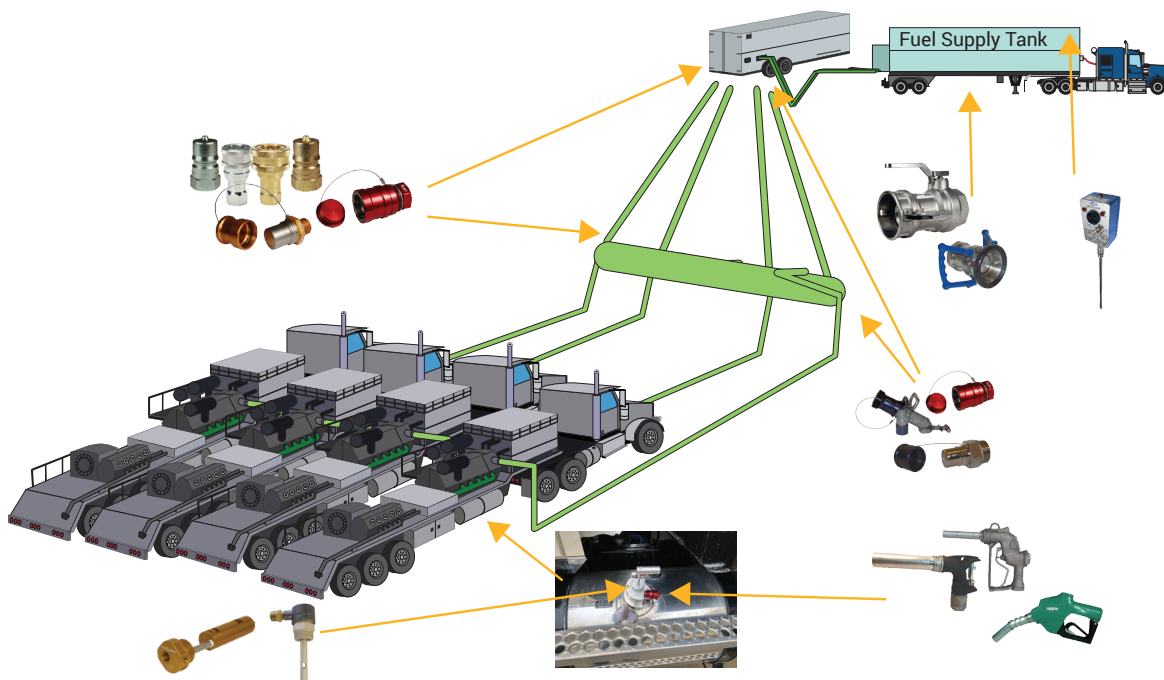


H-Series Hydraulic Plugs
3/4" to 1"



**FloMAX High Flow Series
Nozzle and Receiver**
3/4" to 1"

Dry disconnect couplings are designed for the quick and spill free connection and disconnection of hoses and pipelines when transferring expensive hazardous product that is costly to clean up, dispose of. The couplings are modular so it can be built with various seal combinations to be compatible with different alternative fuels, and chemicals to meet performance levels and applications.



Diesel Fueling Products



Diesel Fueling System Nozzle and Receiver

The FloMeg system uses an internal float to determine shutoff levels, not the tank's pressure. A pilot line runs from the valve to the float. A stream of fuel enters an opening in the piston through the pilot line. When the fuel level has reached the specified level, the float valve closes and the fuel stream in the pilot line is stopped; the force in the receiver valve closes the piston. Once the piston closes, the nozzle senses the back pressure and shuts off. When the fuel level is at the preselected level the float will remain closed, making it impossible to override the system.



Ball Nozzles for Bulk Delivery



High Flow Fueller 100™ Nozzles

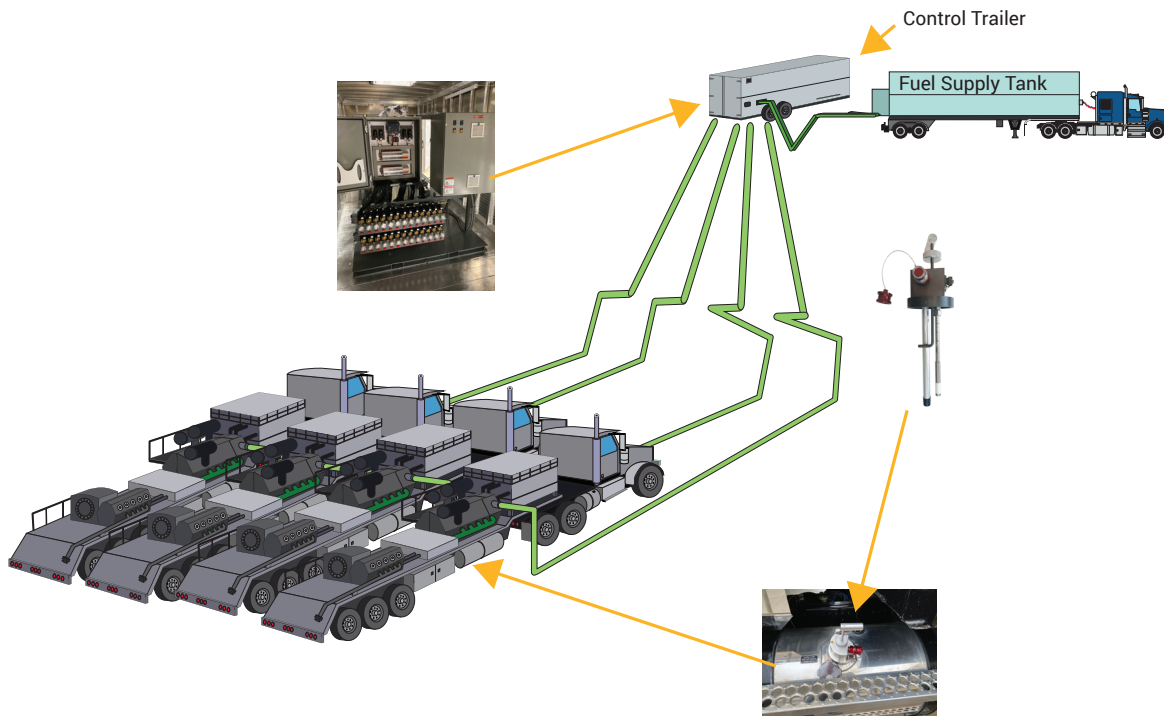


FuelMaster Diesel Nozzles

High flow rate and low pressure drop manufactured to connect to NPT threaded hose connections. Ideal for bulk oil and fuel deliveries. Tough, reliable and easy to operate nozzle for fueling trucks, on site storage tanks, and off-road equipment.

Automated Fueling System

Dixon® offers a full range of fittings and engineering services in support of automated fueling systems for use in the frac industry. Whether designing a component or complete fuel level monitoring and fueling system, Dixon has the expertise to assist customers in the design and development of frac fueling systems. Contact Dixon for details.



The system is designed to automate the fueling of high horsepower diesel fuel pressure pumps and blenders and can be designed to fuel multiple pieces of equipment at the same time. Automatically supplies fuel to the equipment when needed and shuts off the flow before the tank gets above the preset filling limit preventing overflow of the fuel tanks. Allows for greater control of the fueling system and control over the fuel level in each piece of equipment. Eliminates the need to shut down operations for refueling and prevents personnel from having to enter the hot zone to fuel equipment.

Limited Warranty

DIXON VALVE AND COUPLING COMPANY, LLC (herein called "Dixon") warrants the products described herein and manufactured by Dixon to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Dixon under normal use and service. Its sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Dixon's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Dixon's factory within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labor. This warranty shall not apply to: (a) parts or products not manufactured by Dixon, the warranty of such items being limited to the actual warranty extended to Dixon by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Dixon; and (d) to normal maintenance services and the replacement of service items (such as washers, gaskets, and lubricants) made in connection with such services. To the extent permitted by law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Dixon for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable law.

Other than the obligation of Dixon set forth herein, Dixon disclaims all warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose, and any other obligation or liability. The foregoing constitutes Dixon's sole obligation with respect to damages, whether direct, incidental, or consequential, resulting from the use or performance of the product.

Some products and sizes may be discontinued when stock is depleted or may require a minimum quantity for ordering.

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Safety



Safety logos, which appear throughout our catalog, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application, and environment in which it will be used.

NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.

All Dixon products are shipped in cartons with the following warning:

"WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm."

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