

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.

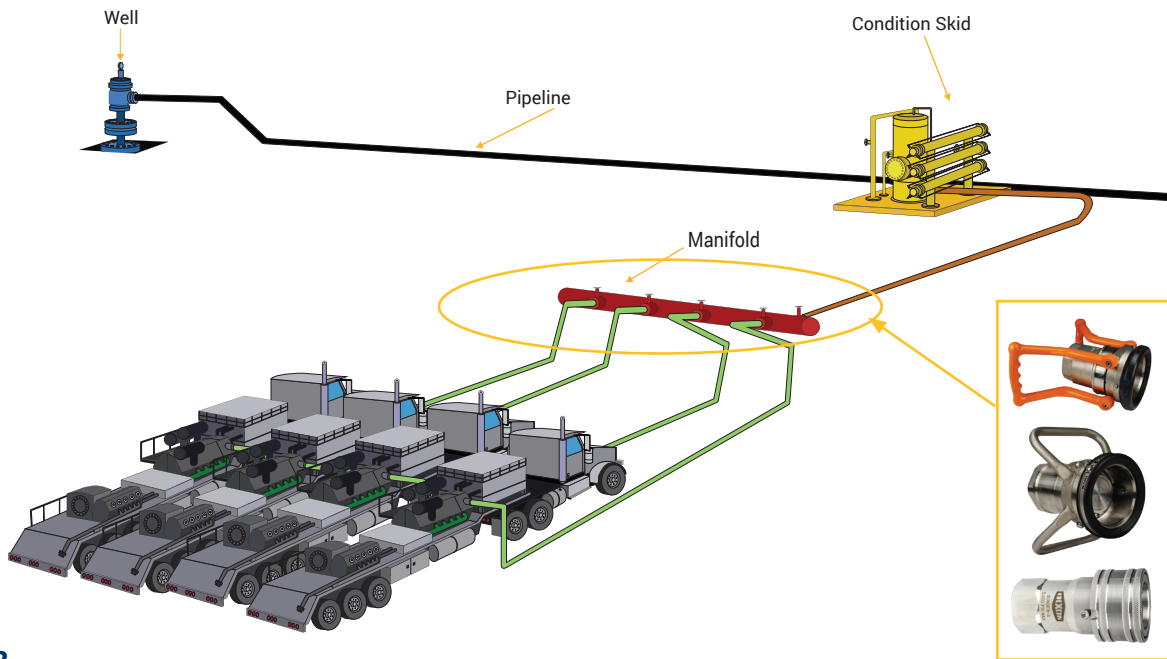
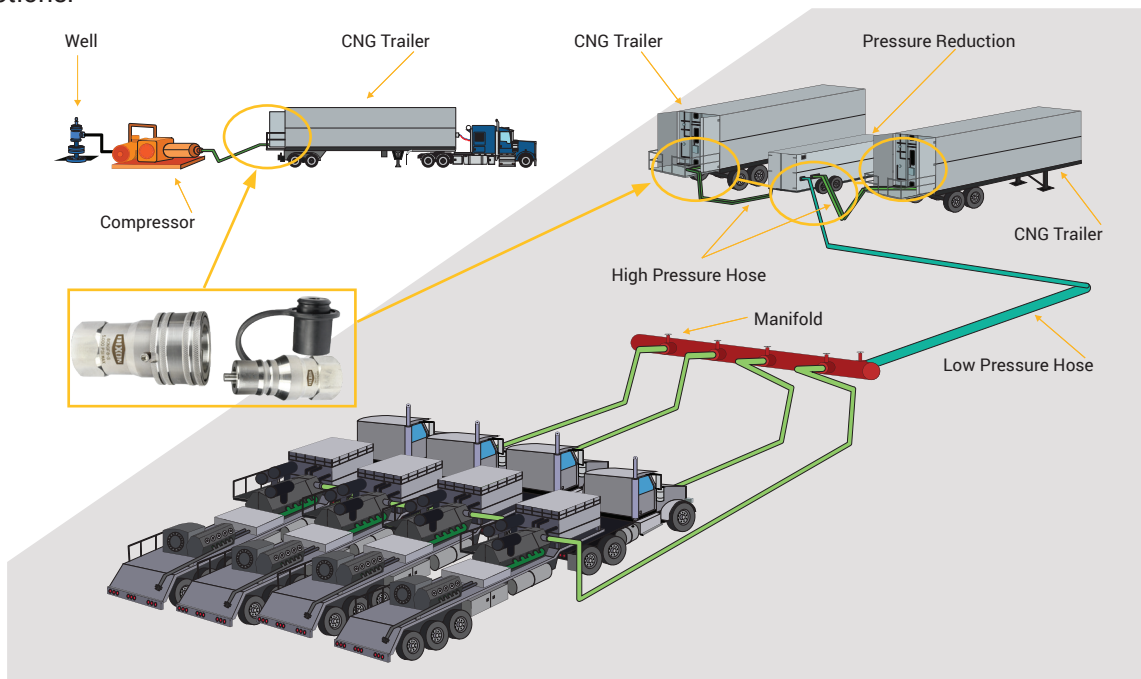


Figure 2

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.



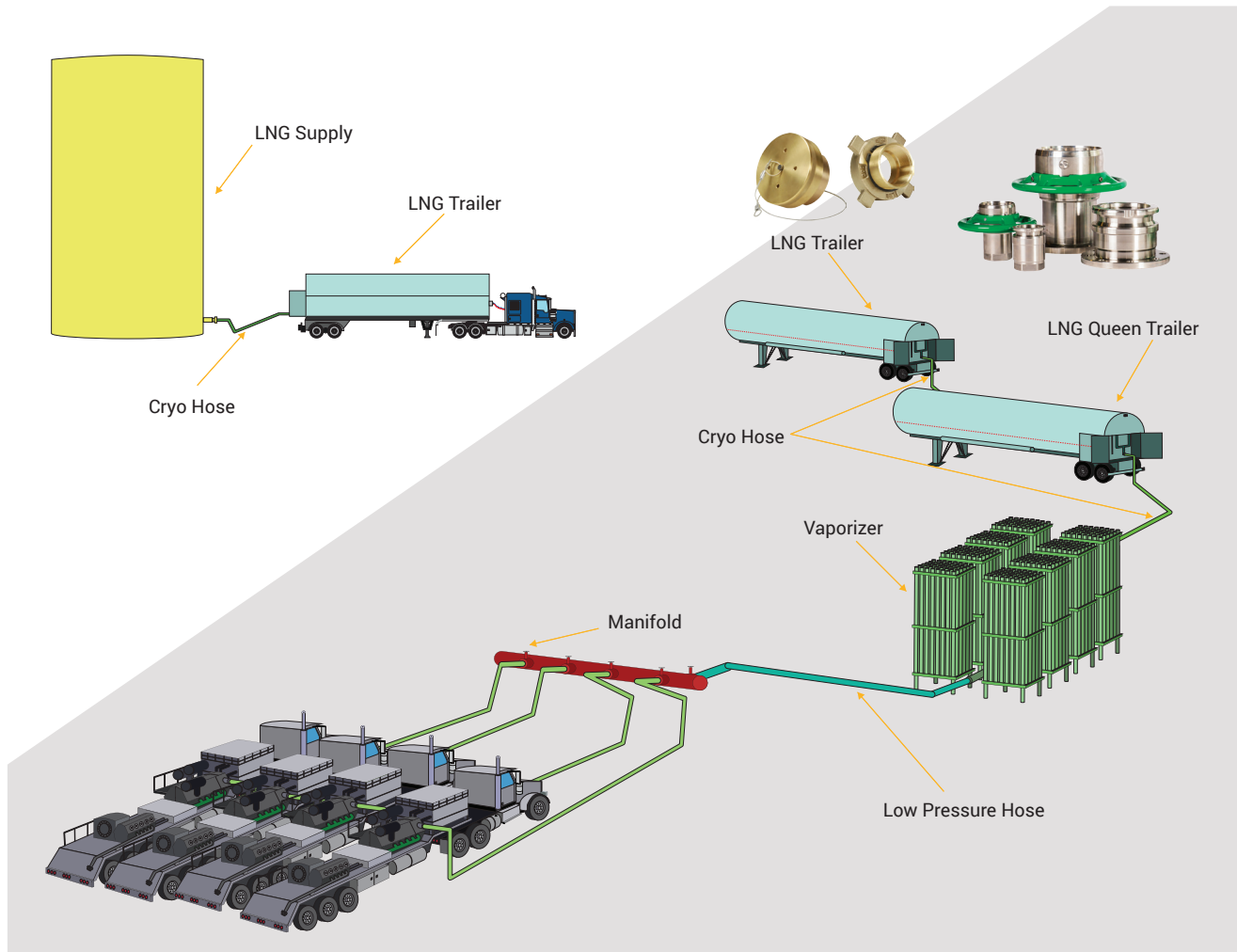
Additional Dixon products and sizes are available at dixonvalve.com.

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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
Additional ends:
150# flanges



DGA200SS
2" dry gas adapter tank
unit x female NPT
Additional ends:
150# flanges



DDC200SS
2" dry disconnect coupler
hose unit x female NPT
Additional ends:
150# flanges



DDA200SSFL
2" dry disconnect adapter
tank unit x female NPT
Additional ends:
150# flanges



8CNGF8-S
1" CNG-Series female
NPTF coupler



CNG8F8-S
1" CNG-Series female
NPTF plug



CRYDDC300SS
3" cryogenic dry
disconnect coupler-hose
unit x female NPT
Additional ends:
150# flanges



CRYDDA300SS
3" cryogenic dry
disconnect adapter-tank
unit x female NPT
Additional ends:
150# flanges



LNG30BRFE
3" cryogenic LNG coupling
cap with cable
Additional size: 2"



LNG30BRHE-NC
3" cryogenic LNG coupling
hose end
Additional size: 2"

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

Diesel Fueling Products



Fuel Vent

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.

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



Diesel Fueling System Nozzle and Receiver



Outalarms with Probe

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



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



Dry Quick Disconnect Couplers
2" and 3"

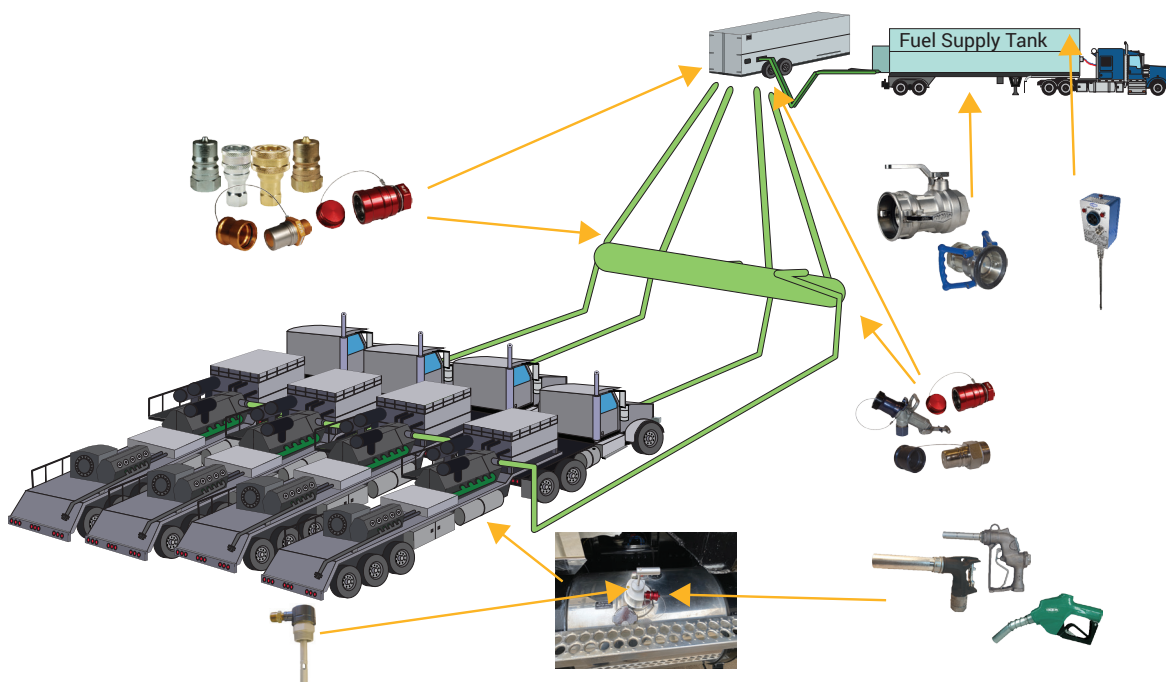


H-Series Hydraulic Plugs
3/4" to 1"



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



**High Flow Fueler 100™
Nozzles**



**Ball Nozzles for Bulk
Delivery**

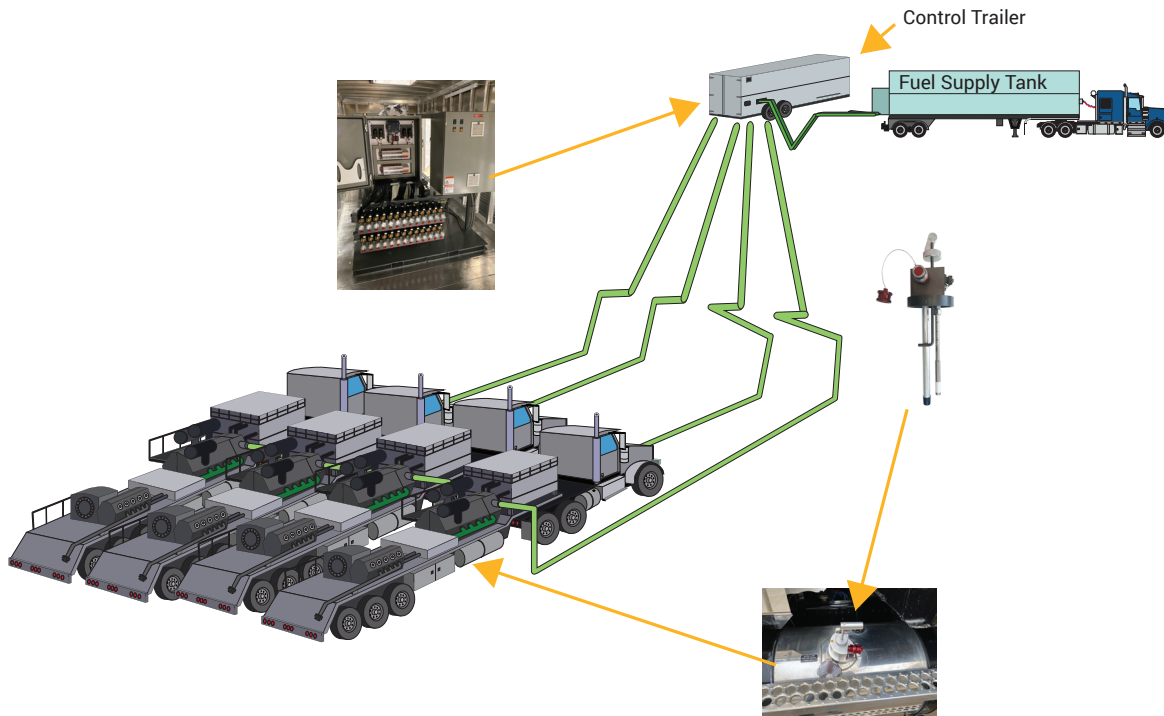


FuelMaster Diesel Nozzles

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.

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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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