Drawing Sample

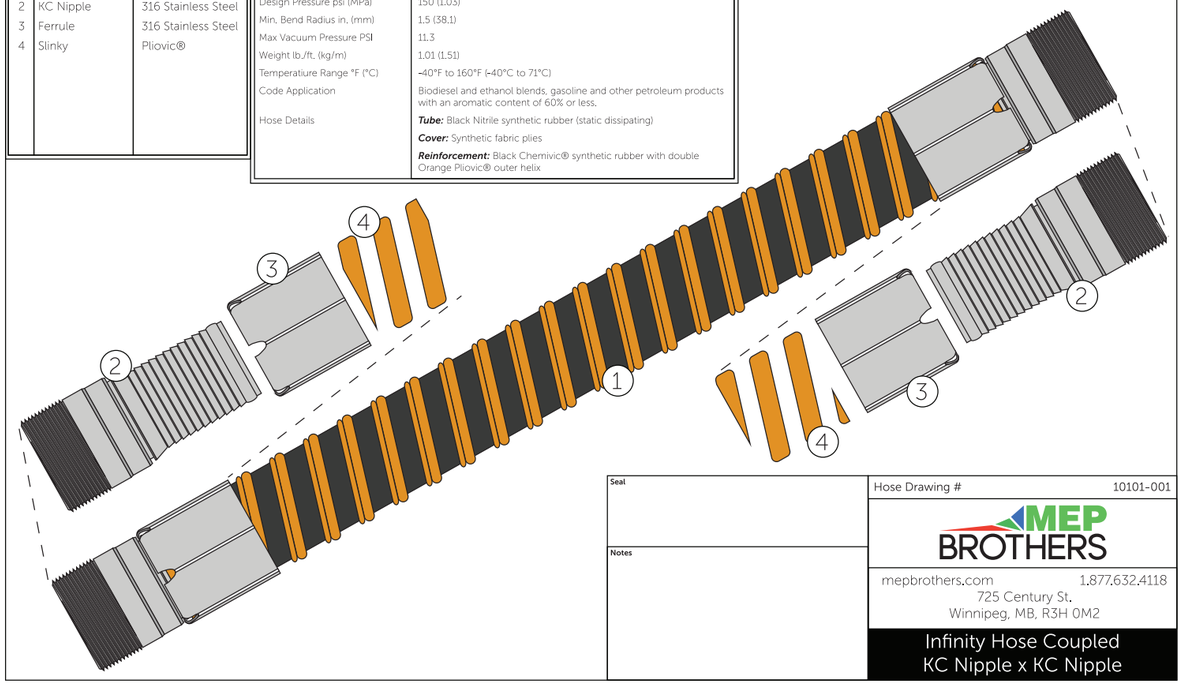
The drawing sample below is one of the many hose drawings developed for our Hose Certification Program. These drawings confirm our hose assembly giving you not only our guarantee of the quality of our assembly, but a nationally recognized confirmation that MEP Brothers has conformed to quality standards.

Hose Part List

No.	Description	Material
1	Infinity HD Hose	See Sidebar
2	KC Nipple	316 Stainless Steel
3	Ferrule	316 Stainless Steel
4	Slinky	Pliovic®

Hose Details

ID in. (mm)	2" (51mm)
Nom. OD in. (mm)	2.80 (70,50)
Design Pressure psi (MPa)	150 (1.03)
Min. Bend Radius in. (mm)	1.5 (38,1)
Max Vacuum Pressure PSI	11.3
Weight lb./ft. (kg/m)	1.01 (1.51)
Temperatiure Range °F (°C)	-40°F to 160°F (-40°C to 71°C)
Code Application	Biodiesel and ethanol blends, gasoline and other petroleum products with an aromatic content of 60% or less.
Hose Details	***Tube:*** Black Nitrile synthetic rubber (static dissipating) ***Cover:*** Synthetic fabric plies ***Reinforcement:*** Black Chemivic® synthetic rubber with double Orange Pliovic® outer helix



Seal

Notes

Hose Drawing # 10101-001

MEP BROTHERS

mepbrothers.com 1.877.632.4118
725 Century St.
Winnipeg, MB, R3H 0M2

Infinity Hose Coupled
KC Nipple x KC Nipple

A WIDE RANGE OF HOSE OPTIONS

- ExtremeFlex™ Petroleum Transfer Hose
- Figure Four ExtremeFlex™ Petroleum Transfer Hose
- Rival LT Flex Petroleum Transfer Hose
- Infinity Drop Hose
- Infinity HD Drop Hose
- Chemone Black Chemical Transfer Hose
- Extremeflex Chemical Hose, Brown
- Octochem Chemical Hose, Green
- XLPE Chemical Suction / Discharge Hose
- FabChem Chemical Transfer Hose
- Kanaflex EPDM Suction Hose
- ContiTech Green Hornet XF Hose
- Flexsteel 250 CB Extreme, Chlorobutyl
- Flexsteel 250 Steam Hose, EPDM

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HOSE ASSEMBLY GUIDE

MEP BROTHERS

FLEXWING VERSAFUEL

- TUBE: SYNTHETIC RUBBER (STATIC DISSIPATING)
- COVER: ABRASION, PETROLEUM RESISTANT BLACK SYNTHETIC RUBBER
- REINFORCEMENT: SPIRAL PLIED SYNTHETIC FABRIC WITH HELIX WIRE
- TEMPERATURE RANGE: -30°F TO 180°F (-34°C TO 82°C)
- PRESSURE RATING: 150PSI

FERRULE

- PLATED STEEL
- SHANK LENGTH AND FERRULE LENGTH ARE MATCHED FOR OPTIMUM RETENTION
- TURN-IN END ENSURES A 360° FERRULE TO FITTING INTERLOCK.

CAMLOCK

- TYPE E: ADAPTER
- TYPE C: COUPLER
- APPLICATION: DESIGNED FOR LIQUIDS AND DRY BULK.
- MATERIAL: 316# STAINLESS STEEL
- PRESSURE RATING: 250 PSI
- RECOMMENDED WORKING PRESSURE RATINGS BASED ON AMBIENT TEMPERATURE (70 °F) WITH STANDARD NITRILE GASKETS.

How We Assemble Hose

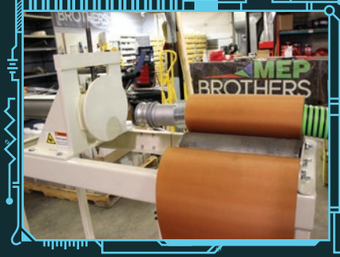
1 Quality Control

The hose assembly technician begins the process by selecting the hose, fittings, and ferrules that will be used in the production of the hose assembly. Each hose is given a quality second check to make sure that no defect bypassed the initial factory.

2 Cut Hose To Length

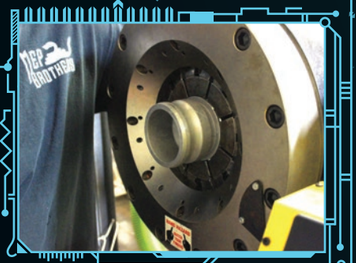
Once the hose is approved for use, the hose is measured, then cut to the specific length required for the hose. The hose ends are cut smooth for an optimal connection to the fitting, and if an anti-static wire is embedded in the hose, a small part of each wire is pulled free from the hose material and bent inwards, to ensure optimal connection to the fitting.

3 Affix Ends To Hose



After the hose is properly prepared, the ends are fitted to the hose. First, the ferrule is slid onto the hose, and any bend restrictor required on the hose is slid on as well. Second, the fitting is inserted into the hose, and butted up to the required point on the fitting. If the hose has any external ribbing that would require filling material, this is added third, then the ferrule is matched up to the ferrule interlock, to prepare for crimping.

4 Crimp To Specifications



Ensuring that the hose, end, and fitting are properly aligned, he hose is ready for crimping. The hose technician first looks up the crimp specifications required for the hose/fitting pairing included on this hose, and any adjustments to the crimper programming are now made. The end is then inserted into the machine, and crimped.

5 Visual Check Of Ends

Once both ends are crimped, the hose assembly technician then checks each end for a proper crimp. This involves confirming that the interlock is correctly aligned, and that the width of the crimped hose correctly conforms to the specification.

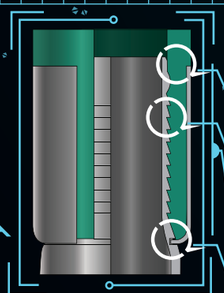
6 Pressure Testing

The final step of hose assembly is to confirm that the hose is properly tested for its intended use. First, the hose is hooked into the test bench. Once the bench is ready, the pressure inside the hose is increased to 150% of the optimal max working pressure of the hose. This pressure is then held for a minimum of 5 minutes.

Once the test is complete, the information is downloaded to the infochip, as well as an online server. A barcode sticker is applied, and the infochip is banded onto the ferrule.

About Camlocks & Ferrules

MEP Brothers uses Campbell Crimpnology Fittings and ferrules for our certified crimped hose assemblies. The Campbell fitting line comes in Aluminum, Brass, and Stainless steel (304 or 316) for optimal chemical compatibility on the work site. The Campbell Crimpnology line enables MEP Brothers to build an integrated LEAK-FREE hose system using any brand or type of hose. MEP Brothers currently offers 14 different hose options with more configurations added continuously for our Hose Certification Program. Custom options are also available on request.



Crimping Features and Benefits

The coupling/fitting shank length and ferrule length are matched to also maximize retention and sealing without hose cover damage.

The coupling/fitting serrations are specially designed for the ultimate in hose retention and sealing without causing potential tube failure.

All Campbell fittings, couplings, ferrules, and sleeves are designed to work as integrated parts to meet our published performance criteria.

The turn-in end of the ferrule locks into the interlock groove on all fittings and couplings to ensure a 360° ferrule-to-fitting interlock.

1 Hose, 3 forms of confirmation

Each certified hose sent from MEP Brothers includes 3 forms of confirmation for pressure tested hose. Banded on one of the ferrules, an infochip is available. For ease of use in the field, a barcode label is placed on the opposite end. Finally for immediate confirmation, a hose test certificate card is included with every hose.

Infochip

Every certified hose from MEP Brothers has a UHF RFID tag from Infochip banded to one of the 2 ferrules. InfoChip's rugged RFID tag carriers allow customers to tag assets and equipment that are exposed to harsh environmental conditions — including extreme temperatures and exposure to oil, chemicals, water, dust and other contaminants — to enable asset management, inspection and compliance, maintenance, field service, and other applications. InfoChip's solutions allow companies to deploy highly accurate automated data collection in conditions that would quickly destroy off-the-shelf RFID tags or traditional bar code labels.

Barcode

In addition to the Durable RFID tag attached to every hose, MEP Brothers also includes a barcode label, for easy hose identification. Any smartphone can scan the barcode and instantly get the hose test certificate, construction, and other required history.

Hose Test Card

As a final point of confirmation with every hose, a collectible Hose test card is also included with every hose. This card displays the hose's specifics, including the hose type and ends. On the opposite side, the card displays the hose test results.