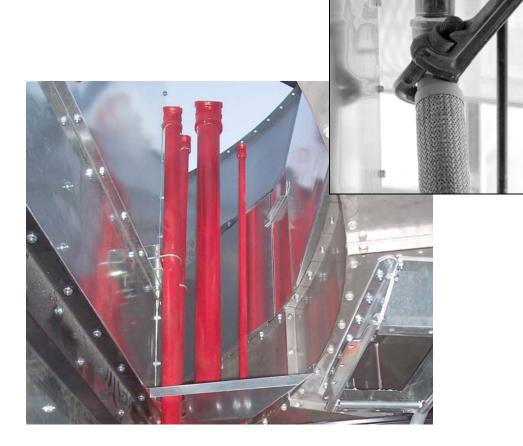
PLUMBING INSTALLATIONS





Tower Dryer ME1000S/SG-ME2650S/SG

2014



May 2014 MFH1968-4B

Gas Suppliers and SAFE Plumbing Installations

DANGER!



Installation and filling of liquefied propane (LP) gas storage and transfer systems must conform to National Fire Protection Association Standard: Storage and Handling of Liquefied Petroleum Gases, NFPA No. 58, (current edition in effect at the time of the installation). Installation and/or service must be done only by licensed gas contractors conforming to national and local applicable codes. Failure to follow these requirements will result in death, serious injury, or equipment damage.



SAFETY First! Recognize SAFETY Information

This symbol is used throughout this Manual to identify particular stages where the bin Contractor and/or Operator need to take special note and precautions regarding the danger described in these Instructions. Please read all the SAFETY information and the instructions completely prior to beginning the construction.

This is the Safety-Alert Symbol. When you see this symbol on your equipment or in this Manual, be alert to the potential for personal injury.

Signal words **DANGER**, **WARNING**, or **CAUTION**, are used with the Safety-Alert Symbol. Be sure to follow ALL National and Local Safety Standards governing each installation site.



Understand Signal Words

DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.

Gas Suppliers

The BROCK® MEYER® Dryer runs on NATURAL GAS or PROPANE VAPOR. If liquid propane (LP) gas is to be used, the tanks and vaporizer to convert it to propane vapor (PV) are to be supplied by the Owner. Locate the Specifications Plate inside the red Control Panel outer door. This plate contains specifications for natural gas and propane vapor. See the Fuel Specification Table below.

MEYER® Fuel Specifications Table

| Model | ME 1000S | ME 1200S | ME 1400S | ME 1600S | ME 1800S | ME2 2000S | ME 2400S | ME 2650S |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Supply Pressure (psi) | 8-15 psi |
| Typical Burner Usage at 60°F / 15.6°C (drying temp 210°F) (mil. Btu/hr) | 5.8 | 6.4 | 6.7 | 8.6 | 8.8 | 9.6 | 10.8 | 11.4 |
| Typical Burner Usage at 10°F / 12.2°C (drying temp 210°F) (mil. Btu/hr) | 7.5 | 8.2 | 8.6 | 11.0 | 11.2 | 12.2 | 13.8 | 14.5 |
| Pilot Regulator | | | | | | | | |
| Size / model | 1/2" / 043-B |
| Pilot Regulator Setting (inwc) | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Spring color / pressure (psi) | green 6-14" |
| Main Regulator | | | | | | | | |
| Size / model | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 | 2" / 121-8 |
| Main Regulator | | | | | | | | |
| Spring color / pressure (psi) | orange 1-2 | black 2-4 1/4 |

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About This Manual

The intent of this Manual is to help you follow step-by-step instructions for plumbing installations in the BROCK® MEYER® Dryer.

IMPORTANT! CAUTION!

A

Pay particular attention to all SAFETY Information in this Manual.

Read and understand this Manual. Failure to follow proper procedures may cause damage to equipment or personal injury.

Contact your Brock Dealer to replace this Manual should it become lost or damaged. Store it in a convenient place for easy reference.

Definition of Terms and Symbols



- This **Hand-Tighten-only** symbol appears next to assemblies that *must be hand-tight-ened*, where impact-tightening will damage the integrity of the hardware/connection.
- "Horizontal," "vertical," "bottom," and "top" refer to the Dryer as it is **standing**.

IMPORTANT!

Always have a second person check all connections and tightening!

Measurements

The symbols (") equals inches and (') equals feet in English measurements. Metric measurements are shown in square brackets **following** the English measurement. For example: 15' [4.572 m] 90' [27.432 m]

(") in inches
FLA full load amps
V volts
Sqft square feet
Ph phase
inwc inches water column

Identification of Parts and Hardware

- Names for some components which have BROCK® Part Numbers have been capitalized throughout this Manual to call attention to them.
- Parts and basic components are identified in Figures and their accompanying Tables as "Items" with a black number in white circle.
- Dimensions and lengths are noted with a white circle **on** an arrow or line, then identified with numeric values in a **Figure** Table.
- Pictures may vary slightly from actual components, which may have been modified for better fit or function.

Proper Fuel Line Connection Is Critical

DANGER!



It is of utmost importance that care be taken by the Dealer and Installer to match the type of FUEL noted on the Fuel Warning Plates. Starting the Dryer one time on the wrong fuel can produce a firestream tens of feet in length, that can destroy many Dryer components and possibly the entire Dryer. Failure to follow specific instructions on Fuel WARNING Plates could result in fire, explosion, equipment damage, death or personal injury.

Fuel WARNING Plates are located on the exterior Plumbing Train.

- Plate 5537-00050 is used for natural gas (NG): **Figure 2**
- Plate 5537-00049 is used for liquid propane (LP) combo units: **Figure 1**

Do not remove these Plates.

AVERTISSEMENT CONNECTEZ SEULEMENT AU GAZ NATUREL OU AU PROPANE LA TEMPÉRATURE DU PROPANE NE DÉPASSERAP PAS 10 LB/PO¹ VÉRIPIEZ TOUS DÉTALS UTILES DANS LE MANUEL DE L'OPÉRATURE DU BÉCHOR WARNING CONNECT TO NATURAL GAS OR L.P. GAS VAPPOR ONLY L.P. VAPOR PRESSURE SHOULD NOT EXCEED 10 P. S.I. REVIEW DRYER OWNER'S MANUAL FOR DETAILS SST-00049 AVERTISSEMENT MATIES OU AU REVISION MATIES OU AU REVISI

IMPORTANT!

A MEYER® Dryer wired and plumbed for LP Gas is already plumbed for NATURAL GAS as well.



Figure 1, above. Fuel WARNING Plate LP Gas Vapor 5537-00049

Figure 2. Fuel WARNING Plate Liquid LP Gas 5537-00050

- **Line sizing**: Fuel lines should be sized by your fuel supplier to deliver an adequate fuel volume at 8-15 psi to the Dryer inlet connection. Although the Inlet Valve connection for the ME1000S through ME2650S Models is 2" [5.1 cm] NPT, the fuel line size required may be larger depending on the model, fuel type, and length of supply pipe.
- **Fuel controls**: The Dryer is supplied with an Inlet Hand Valve for fuel shutoff and is equipped with the necessary final pressure regulation, double-block high and low switches—only on those with block-and-bleed (*i.e.*, Canadian), high and low pressure switches, automatic fuel modulation, and flame safeguards for safe operation. The Fuel Schematics in this Manual will show these controls. More detailed specifications are available upon request.
- Tank capacity and placement: LP-gas fuel tanks of 2000 gallons or less must be installed with the nearest point at least 25 feet [7.62 m] from the nearest point of the Dryer. Tanks 2001-30,000 gallons must be installed with the nearest point at least 50 feet [15.24 m] or more from the nearest point of the Dryer.
- **Liquid Propane**: The Vaporizer is electrically interlocked to the Dryer Control Panel. Follow all local and national codes for locating LP storage tanks and installing propane lines.

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- **Typical operation**: The average Model ME2400S burns 125 gallons of gas per hour.
- 24-hour operation: To assure an adequate fuel supply for 24-hour operation, without daily fill-up, recommended LP gas fuel tank storage should be a minimum of 10,000 gallons (gallons in water volume). 250 gph x 24 hours / 75% = 8000 gallons. If there are multiple tanks, multiples of 10,000 gallons (20,000 or 30,000, etc.) are recommended. An LP fuel tank contains a usable fuel supply of approximately 75% of tank water volume capacity. For example, a 1000-gallon water-volume tank contains approximately 750 gallons of usable LP. Tanks should be refilled when the supply level reaches 10%.
- Schedule 80 black iron pipe should be connected to the pipe fitting on LP-gas Dryers.
- Schedule 40 black pipe is recommended for natural gas supply lines only; liquid LP piping **must** be Schedule 80 black pipe.
- If supplied natural gas pressure is higher than 25 psi, a primary regulator must be provided to reduce Dryer inlet pressure to 10-25 psi (contact gas supplier). At least 8 psi must be supplied for proper operation.
- Check the complete plumbing system for leaks or tightness of fittings, especially at unions. Use liquid soap solution with the plumbing train under normal operating pressure. Purge new plumbing lines before final assembly to blow oil, dirt, and thread chips out of the lines that could interfere with proper operation and damage plumbing components.

DANGER!

DO NOT OPERATE the Dryer while the gas tank is being filled.



MEYER® Plumbing System Type and Usage

| System Type | Part Number | Descr. | Fuel | Model Usage | Mates |
|----------------|-------------|--------|------|-------------------|-----------------|
| | 3130-00040 | Base | LP | ME1000SG - 2650SG | -41 and -57 |
| | 3130-00042 | Base | NG | ME1000SG - 2650SG | -43 -65 and -72 |
| | 3130-00044 | Base | LP | ME1000S - 2650S | -41 and -57 |
| | 3130-00045 | Base | NG | ME1000S - 2650S | -43 -65 and -72 |
| Carbon | 3130-00041 | Upper | LP | ME1000S - 1600SG | -40 and -44 |
| Steel | 3130-00043 | Upper | NG | ME1000S - 2400SG | -42 and -45 |
| Sicci | 3130-00057 | Upper | LP | ME1800S - 2400SG | -40 and -44 |
| Low | 3130-00065 | Upper | NG | ME2650S-SG | -42 and -45 |
| Pressure | 3130-00067 | Upper | LP | ME1800S - 2400SG | -40 and -44 |
| Drop | 3130-00068 | Upper | LP | ME2650S-SG | -40 and -44 |
| Burner | 3130-00069 | Upper | LP | ME1000S - 1600SG | -40 and -44 |
| (LPDB) | 3130-00072 | Upper | NG | ME1000S - 2400SG | -42 and -45 |

Natural Gas (NG) Supply Requirements (U.S.)

Natural-gas Dryers must have a MANUAL SHUTOFF VALVE installed on the supply line at least 25' [7.62 m] from the Dryer and be easily accessible.

DANGER!



Installation of and materials used in natural gas transfer systems must conform with National Fire Protection Association Standard: Natural Fuel Gas Code, NFPA No. 54 (or current edition in effect at the time of the installation). Installation and/or service must be done only by licensed gas contractors conforming to all national and local applicable codes. Failure to follow these requirements will result in death, serious injury, and equipment damage.

IMPORTANT!

A MEYER® Dryer wired and plumbed for LP Gas is already plumbed for NATURAL GAS as well.

Liquid Propane (LP) Supply Requirements to Convert to Propane Vapor (PV)

LP Dryers must have one SHUTOFF VALVE at each tank, and should have another valve within 5' - 25' [1.524 m - 7.620 m] of the Dryer. All valves must be easily accessible. All LP Dryers must have a proper EXCESS FLOW valve—in the LP fuel line at the tank--sized according to fuel line size. This is provided by the LP or tank supplier.

For manifolds connecting parallel tank installations, a **main shutoff valve** should be installed on the pipe just downstream of the manifold.

DANGER!



Installation and filling of liquefied propane (LP) gas storage and transfer systems must conform with National Fire Protection Association Standard Storage and Handling of Liquefied Petroleum Gases, NFPA No. 58, (or current edition in effect at the time of the installation). Installation and/or service must be done only by licensed gas contractors conforming to all national and local applicable codes. Failure to follow these requirements will result in death, serious injury, and equipment damage.

LP Models with Vaporizers

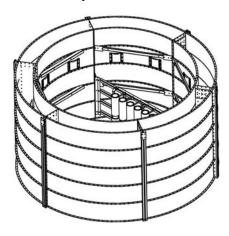
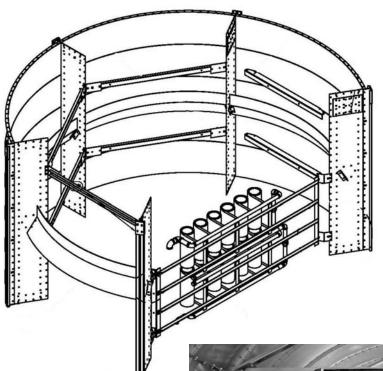


Figure 3.
Module 5 or 6 with ME, Vaporizer 3157-00089G01)



The 3130-00035 **Vaporizer** is associated with the LP Gas Hardware Kit. The Vaporizer will be installed at the location shown on Module #5 of the ME1800S with LP gas only.

Figure 4.
Module #5, #6 with ME Option,
ME1800-2400 (3157-00089G01)



Connect Inside Plumbing

Main Gas Line

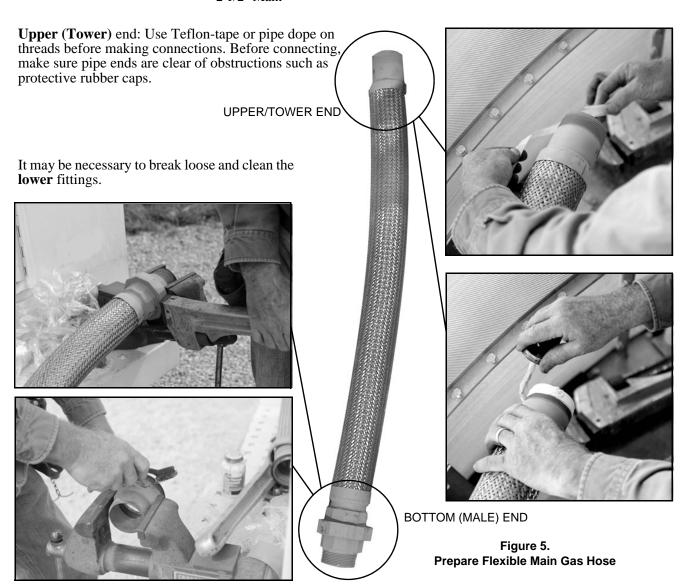
This will be the only installation, whether the model is NG or LP. Locate the Flexible Hoses, shipped loose. There will be Flexible hoses for all pipes in the Unload Module.

NATURAL GAS will have two (2) Flexible Hoses:

- 1/2" Pilot
- 2 1/2" Main

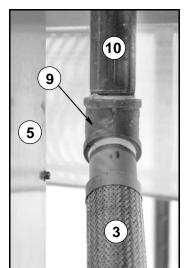
LP will have four (4) Flexible Hoses:

- 1/2" Pilot
 3/4" Vaporizer Liquid Feed Pipe
 1 1/4" Vaporizer Return Pipe
- 2 1/2" Main



| Part No. | Description |
|------------|---|
| 2702-01040 | Hose-Flex 1/2 x 24" LG - S.S. |
| 2702-01060 | Hose-Flex 3/4 x 24" LG - S.S. (LP only) |
| 2702-01100 | Hose-Flex 1 1/4 x 30" LG - S.S. (LP only) |
| 2702-01200 | Hose-Flex 2 1/2 x 46" |

Connect the main gas line; keep the gas line parallel with the duct work. Locate the lower end of the vertical Main Gas Pipe (Item 10) descending down from the Tower. Thread into the elbow coupling (Item 9) on the pipe end and tighten. Connect the upper end of the Flex Hose here. Tape and spread pipe dope on fittings shown. Tighten.



TOP VIEW

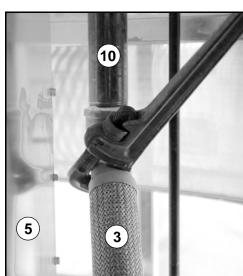


Figure 6. Main Gas Flex Hose to Bottom End of **Upper Main Gas Pipe**

Item Table on facing page.

In the Base/Unload Module, locate the upper end of the vertical **Main** Gas Pipe (Item 4), the **largest** pipe at 2 1/2" in diameter. Thread the lower end of the Flex Hose into the 45° elbow coupling (Item 9) on the pipe top end; tighten.

The smallest 1/2" pipe is the **Pilot** pipe (see page 10). LP Models with **Vaporizers** have two (2) additional pipes: the 3/4" feed pipe up to the Burner and the 1 1/ 4 return pipe.

Install the appropriate Flex Hose on all pipes.

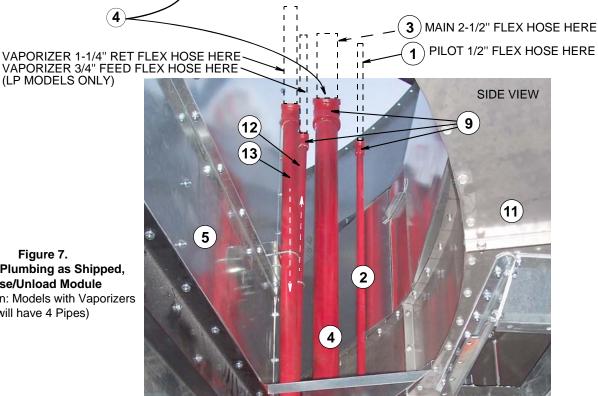


Figure 7. Lower Plumbing as Shipped, **Base/Unload Module** (LP shown: Models with Vaporizers will have 4 Pipes)

(LP MODELS ONLY)

9

Teflon-tape or spread pipe dope on threads of the union. Tighten.



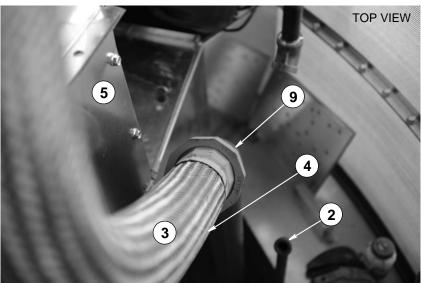


Figure 8.
Flex Hose Union with Lower Main Gas Pipe

| Item | Description |
|------|---|
| 2 | Lower 1/2" Pilot Pipe (in Unload Module) |
| 3 | Flexible Hose, Main Gas Line 2 1/2" |
| 4 | Lower Main Gas Pipe (in Unload Module) 2 1/2" |
| 5 | Air Duct |
| 8 | Upper Pilot Pipe (near Duct) |
| 9 | 45° Elbow Fitting (diameters vary) |
| 10 | Upper Main Gas Pipe |
| | Unload Trough |
| 12 | Vaporizer feed/liquid pipe 3/4" (LP only) |
| 13 | Vaporizer return pipe 1 1/4" (LP only) |

.10 MFH1968-4B

Gas Pilot Line

After the **main** gas line is connected, repeat the same steps for connecting the gas **pilot** line. Locate the pilot pipes. The lower end of the upper Pilot Pipe (Item 8) coming down from the Burner will be near the inside wall Screen (**Figure 9**) and will have a 45° elbow fitting (Item 9) on the bottom end..

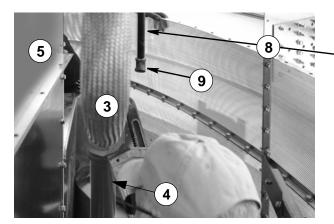


Figure 9.
Locate the Upper Pilot Pipe

Install 1/2" Flexible Hose (Item 1) between the lower end of the Pilot pipe (Item 8) and the upper end of the Pilot Pipe in the Unload Module (Item 2).

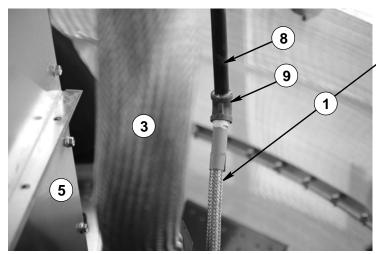


Figure 10.
Flexible Hose from Lower End of Upper PILOT Gas Line

| Item | Description |
|------|---|
| 1 | Flexible Hose for Pilot Line 1/2" |
| 2 | Lower Pilot Pipe (in Unload Module) |
| 3 | Flexible Hose/Fitting for Main Gas Line |
| 4 | Lower Main Gas Pipe (in Unload Module) |
| 5 | Air Duct |
| 8 | Upper Pilot Pipe (near Duct) |
| 9 | 45° Elbow Fitting |

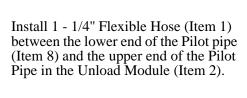
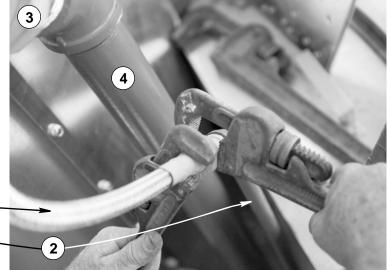
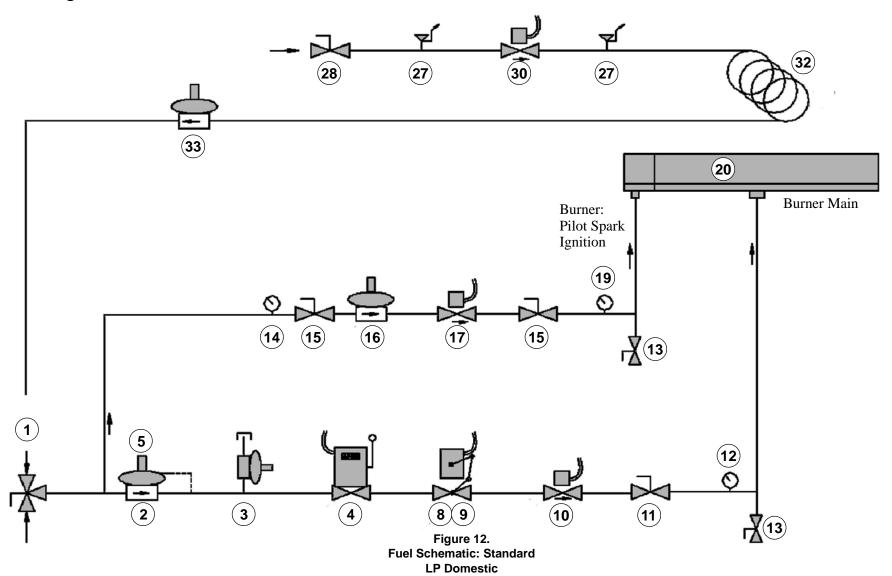


Figure 11.
PILOT Flexible Hose
to PILOT Gas Line
(Unload Module)



Plumbing Trains and Diagrams

Plumbing Train Schematic: Standard LP Domestic



| Item | Part No. | Description | | | |
|---------------------------|---------------------|--|--|--|--|
| | Main Fuel Train (M) | | | | |
| 1 | 2434-00164 | Valve Gas 2" 3-way, Gas Shutoff | | | |
| 2 | 2448-00011 | Pressure Regulator 2" 1-2 psi (main) | | | |
| 3 | 2433-00005 | Valve, Safety Pressure Relief 1" 289H 4.5 psi | | | |
| 4 | 2431-00007 | Maxon Shutoff Valve 2 1/2" Manual Reset | | | |
| 5 | 2445-00015 | Spring, Black-131 and 243 VAPO * with 3108-00019 only | | | |
| 8 | 2431-00033 | Butterfly Valve 2 1/2" | | | |
| 9 | 2541-00056 | Modulating Actuator Motor, 3-position step | | | |
| 10 | 2430-00009 | Heat Solenoid Valve 2 1/2" | | | |
| 11 | 2434-00201 | Ball Valve 2 1/2" | | | |
| 12A | 2460-00026 | Pressure Gauge, 0-60 inwc | | | |
| 12B | 2460-00028 | Pressure Gauge, 0-100 inwc for SS Burner | | | |
| 13 | 2434-00004 | Ball Valve 1/2" | | | |
| | | Pilot Fuel Train (P) | | | |
| 14 | 2460-00027 | Inlet Gas Pressure Gauge, 0-30 psi | | | |
| 15 | 2434-00004 | Ball Valve 1/2" | | | |
| 16 | 2446-00029 | Pilot Regulator, 1/2" 6-14 inwc Spring, 13-20 inwc (orange) | | | |
| 16.1 | 2446-00028 | Spring, Regulator 13-20 inwc orange | | | |
| 17 | 2430-00016 | Pilot Solenoid Valve 1/2" | | | |
| 19 | 2460-00025 | Pressure Gauge, 0-30 inwc | | | |
| | | Burner Assembly | | | |
| | 5508-00001G02 | Burner Assy, MES w/Baffle | | | |
| 20 | 3108-00019 | Burner Assy, ME2650 Stainless Tube * with 3108-00019 only | | | |
| 18.1 | 2533-00001 | Flame Safety Device | | | |
| 18.2 | 1268-00003 | Flame Sensor - Thermocouple | | | |
| 18.3 | 2403-00003 | Pilot Spark Ignitor 1-64-4 | | | |
| 18.4 | 2502-00001 | Ignition Transformer .175va 120vac | | | |
| Liquid Propane Fuel Train | | | | | |
| 27.1 | 2433-00017 | Valve, Hyd Relief 1/2" npt 300 psi | | | |
| 27.2 | 2433-00018 | Adapter, Relief Valve | | | |
| 28 | 2434-00006 | Valve, 3/4" Ball | | | |
| 30 | 2430-00061 | Valve, 3/4" Ball NC Solenoid-250 psi MOPD | | | |
| 31 | 2449-00030 | Regulator, 1 npt 10-20 psi | | | |
| 32 | 3130-00035 | Vaporizer Assembly | | | |

Plumbing Train Schematic: Standard NG Domestic

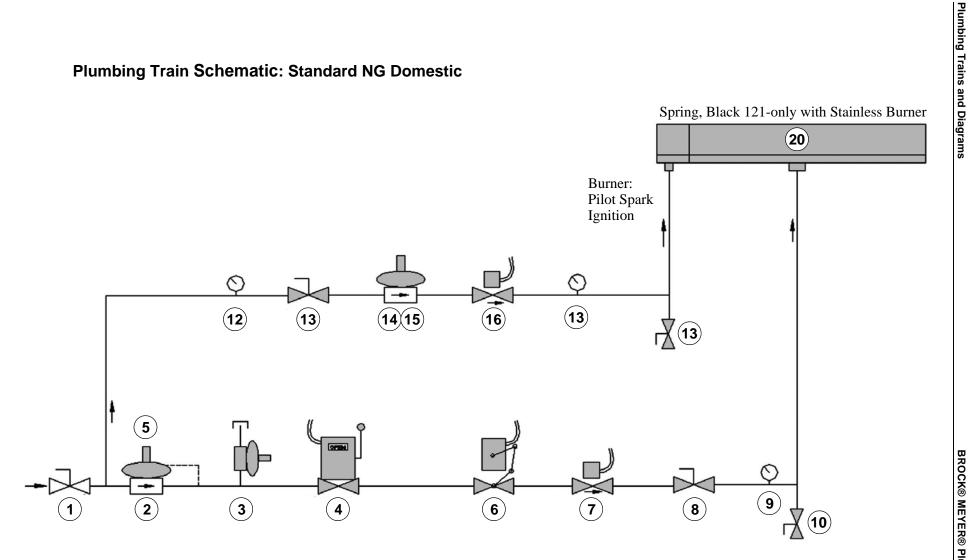
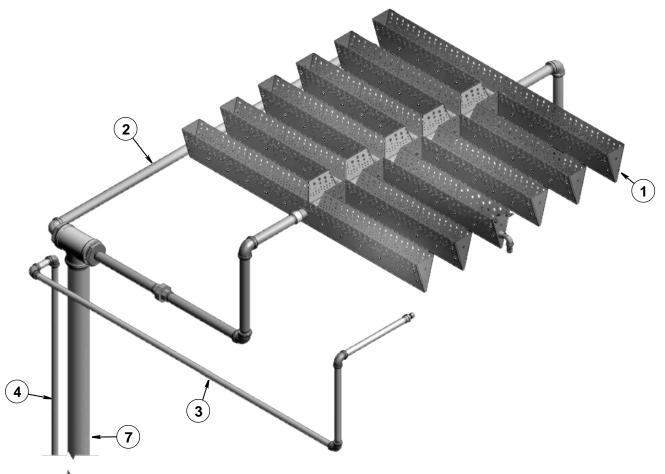
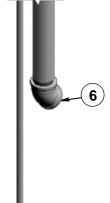


Figure 13. Fuel Schematic: Standard **Natural Gas Domestic**

| Item | Part No. | Description |
|------|---------------|--|
| | | Main Fuel Train (M) |
| 1 | 2434-00161 | Valve, 2" Ball CGA (Legend T01002) |
| 2 | 2448-00011 | Pressure Regulator 2" 1-2 psi (main) |
| 3 | 2433-00005 | Valve, Safety Pressure Relief 1" 289H 4.5 psi |
| 4 | 2431-00007 | Maxon Shutoff Valve 2 1/2" Manual Reset |
| 5 | 2445-00015 | Spring, Black-121 and 243 VAPO * with 3108-00019 only |
| 6A | 2431-00033 | Butterfly Valve 2 1/2" |
| 6B | 2541-00056 | Modulating Actuator Motor, 3-position step |
| 7 | 2430-00009 | Heat Solenoid Valve 2 1/2" |
| 8 | 2434-00201 | Ball Valve 2 1/2" |
| 9A | 2460-00026 | Pressure Gauge, 0-60 inwc |
| 9B | 2460-00028 | Gauge, 0-100 inwc for SS Burner (Ashcroft) |
| 10 | 2434-00004 | Ball Valve 1/2" |
| 11 | 2445-00015 | Spring, Black-121 and 243 VAPO |
| | | Pilot Fuel Train (P) |
| 12 | 2460-00027 | Inlet Gas Pressure Gauge, 0-30 psi |
| 13 | 2434-00004 | Ball Valve 1/2" (Pilot Line Drain) |
| 14 | 2446-00029 | Pilot Regulator, 1/2" 6-14 inwc Spring, 13-20 inwc (orange) |
| 15 | 2446-00028 | Spring, Regulator 13-20 inwc orange |
| 16 | 2430-00016 | Pilot Solenoid Valve 1/2" |
| 17 | 2460-00025 | Pressure Gauge, 0-30 inwc |
| | | Burner Assembly |
| 18.1 | 2533-00001 | Flame Safety Device |
| 18.2 | 1268-00003 | Flame Sensor - Thermocouple |
| 18.3 | 2403-00003 | Pilot Spark Ignitor 1-64-4 |
| 18.4 | 2502-00001 | Ignition Transformer .175va 120vac |
| 20A | 5508-00001G02 | Burner Assy, MES w/Baffle |
| 20B | 3108-00019 | Burner Assy, Stainless Tube ME2650 |

Interior Upper Plumbing, 1000S-2400S LPDB LP/NAT



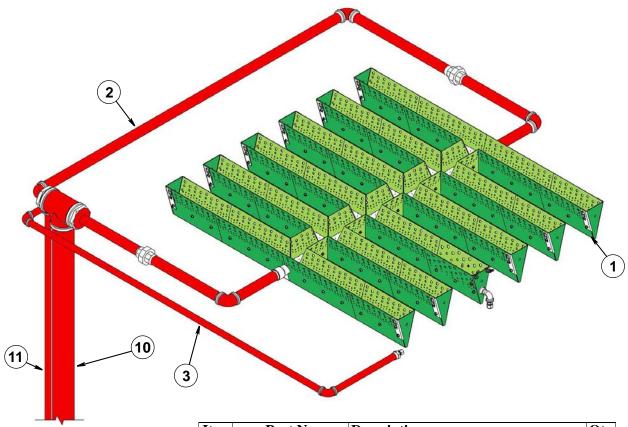


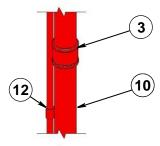
| Item | Part No. | Description | Qty. |
|------|---------------|---|------|
| 1 | 3108-00019 | Burner Assembly, LPDB | 1 |
| 2 | 3130-00043G18 | Plumbing SA, Main | 1 |
| 3 | 3130-00043G17 | Plumbing SA, Pilot | 1 |
| 4 | 2004-02020 | Elbow, 1/2" x 101" SCH 40 BLK | 1 |
| 5 | 2004-05170 | Elbow, 1/2" x 45° CL 150 BLK | 1 |
| 6 | 2020-05170 | Elbow, 2 1/2" NPT 45° CL 150 BLK | 1 |
| 7 | 2020-01570 | Pipe, 12 1/2" x 78 1/2" SCH 40 | 1 |
| 8 | 2445-00015 | Spring, Black-121 and 243 Vapor Regulator | 1 |

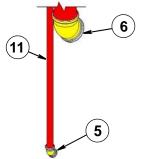
Figure 14.

ME1000S - 2400S Interior Upper Plumbing Train:
Stainless Steel Burner-LPDB-LP/NAT
3130-00072

Interior Upper Plumbing, 2650 LPDB LP/NAT





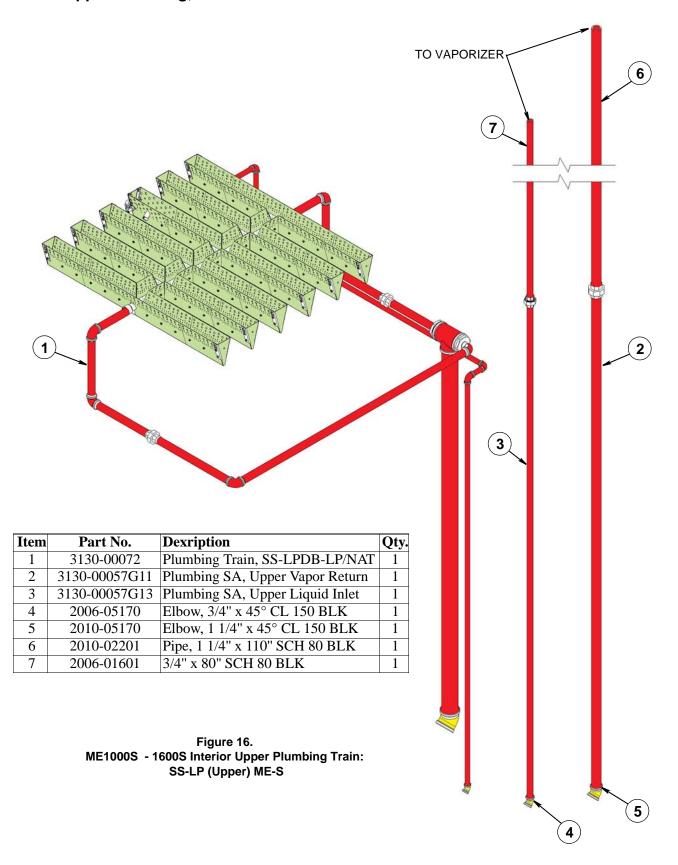


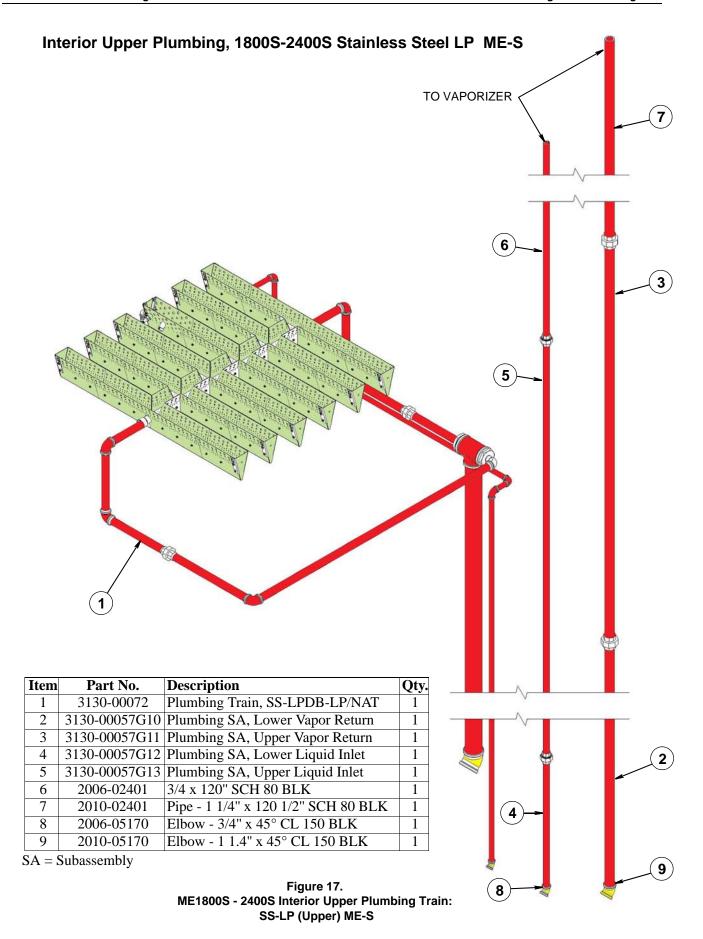
| Item | Part No. | Description | Qty. |
|------|---------------|--------------------------------------|------|
| 1 | 3108-00019 | Burner Assembly, LPDB | 1 |
| 2 | 3130-00043G14 | Plumbing SA, Main | 1 |
| 3 | 3130-00043G13 | Plumbing SA, Pilot | 1 |
| 5 | 2004-05170 | Elbow, 1/2" x 45° CL 150 BLK | 1 |
| 6 | 2020-05170 | Elbow, 2 1/2" NPT 45° CL 150 BLK | 1 |
| 9 | 2020-05200 | Coupling, 2 1/2" NPT 300WOG BLK | 1 |
| 10 | 2020-01360 | Pipe-2 1/2" x 68" SCH 40 | 2 |
| 11 | 2004-01590 | Pipe 1/2" x 79 1.2" SCH 40 BLK | 2 |
| 12 | 2004-05200 | Coupling, 1/2" NPT 300WOG BLK | 1 |
| 13 | 2445-00015 | Spring, Black-121 and 243 Vapor Reg. | 1 |

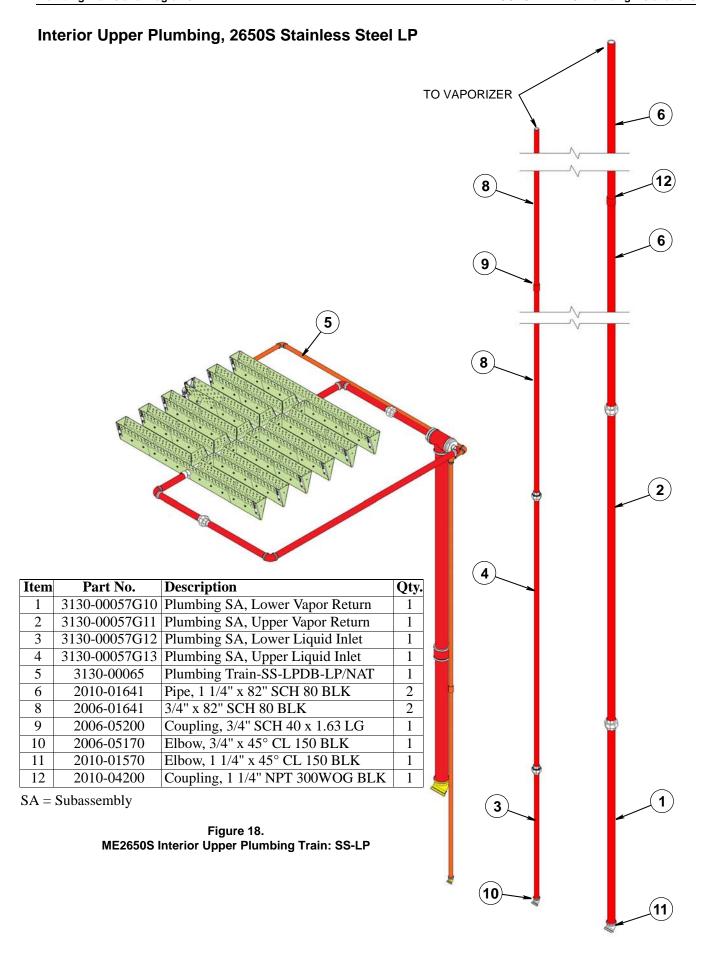
 $\overline{SA} = Subassembly$

Figure 15.
ME2650S Interior Upper Plumbing Train:
LPDB-LP/NAT

Interior Upper Plumbing, 1000S-1600S Stainless Steel LP ME-S







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Exterior Lower Plumbing: Standard

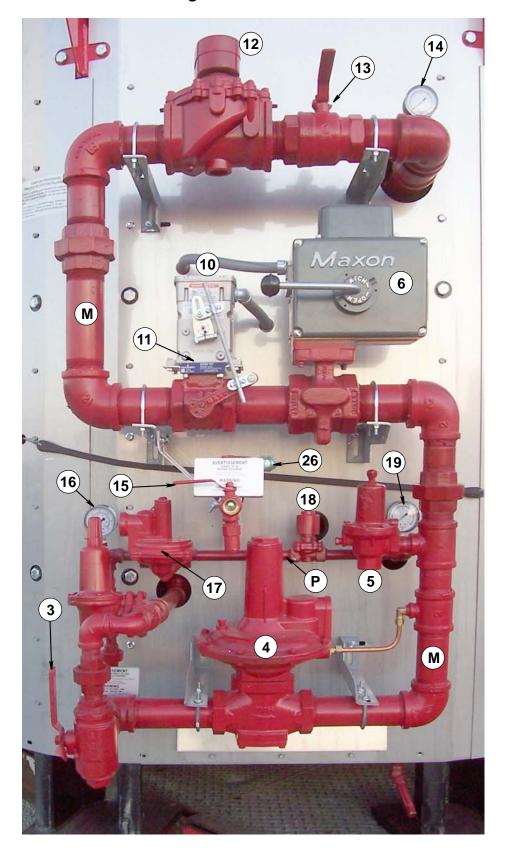
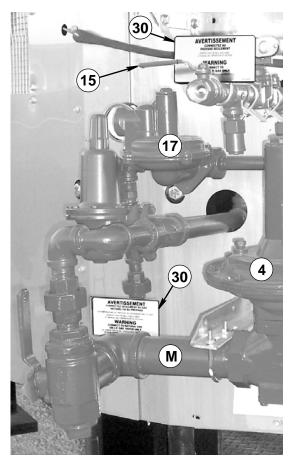


Figure 19.
Exterior Lower Plumbing: Standard
(Fuel Plates removed to show components)

22

| Item | Part No. | Description | | |
|------|-----------------------|---|--|--|
| | Main Fuel Train (M) | | | |
| 1 | | Propane Vapor Inlet 8-15 psi | | |
| 2 | | Natural Gas Inlet 8-15 psi | | |
| 3 | 2434-00164 | Valve Gas 2" 3-way, Gas Shutoff | | |
| 4 | 2448-00011 | Pressure Regulator 2" 1-2 psi (main) | | |
| 5 | 2433-00005 | Valve, Safety Pressure Relief 1" 289H 4.5 psi | | |
| 6 | 2431-00023 | Maxon Shutoff Valve 2 1/2" Manual Reset | | |
| 10 | 2541-00056 | Modulating Actuator Motor, 3-position step | | |
| 11 | 2431-00033 | Butterfly Valve 2 1/2" | | |
| 12 | 2430-00009 | Heat Solenoid Valve 2 1/2" | | |
| 13 | 2434-00201 | Ball Valve 2 1/2" | | |
| 14 | 2460-00026 | Pressure Gauge, 0-60 inwc | | |
| 15 | 2434-00004 | Ball Valve 3/4" | | |
| 15A | 2434-00004 | Ball Valve 1/2" (Main Line Drain; inside) | | |
| | | Pilot Fuel Train (P) | | |
| 15 | 2434-00004 | Ball Valve 3/4" | | |
| 16 | 2460-00027 | Inlet Gas Pressure Gauge, 0-30 psi | | |
| 17 | 2446-00029 | Pilot Regulator, 1/2" 6-14 inwc | | |
| 18 | 2430-00016 | Pilot Solenoid Valve 1/2" | | |
| 19 | 2460-00025 | Pressure Gauge, 0-30 inwc | | |
| 26 | 2430-00018 | Valve, Main Solenoid 3/4" NC LP | | |
| 30 | 5537-49 or 5537-50 | WARNING Fuel Plate | | |

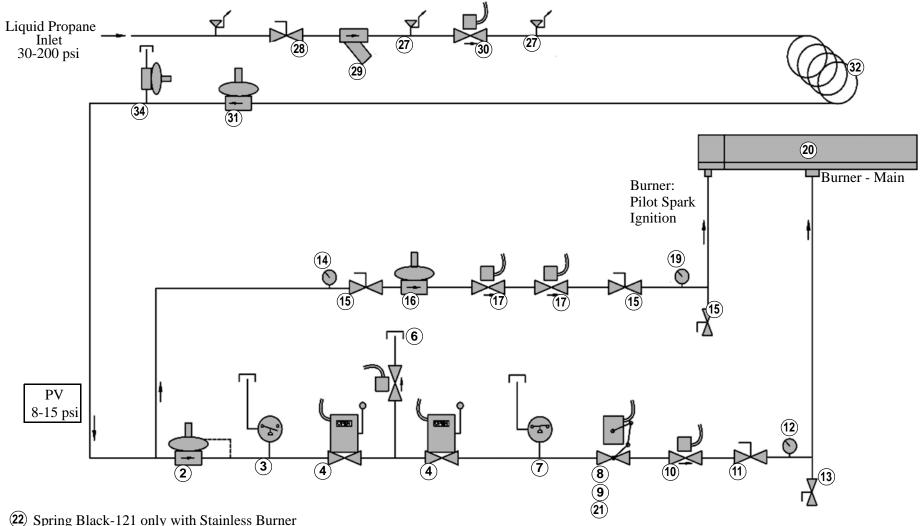
IMPORTANT! All Hand Valves should be opened very slowly to allow the downstream line pressure to build up and equalize pressure through the system.



Fuel Warning Plate Detail

Plumbing Trains and Diagrams

Plumbing Train Schematic: Block-and-Bleed LP (Canadian)



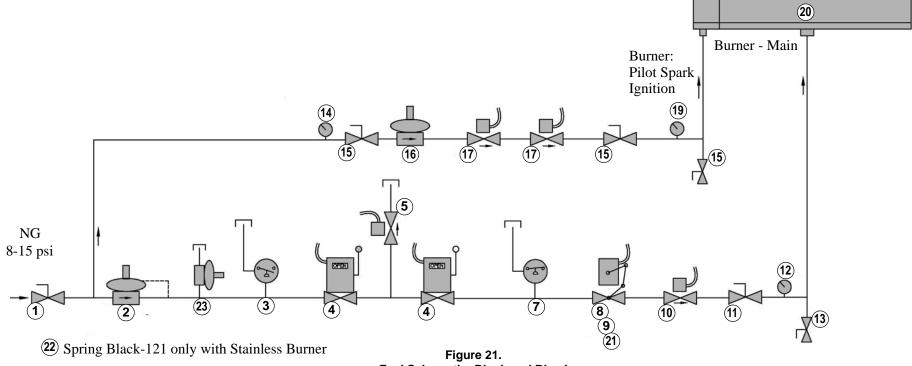
22 Spring Black-121 only with Stainless Burner

Figure 20. Fuel Schematic: Block-and-Bleed LP Canadian 3130-00062

| Item | Part No. | Description | | | |
|------|---------------------|---|--|--|--|
| | Main Fuel Train (M) | | | | |
| 2 | 2448-00011 | Pressure Regulator 2" 1-2 psi (main) 121-8 | | | |
| 3 | 2429-00019 | Pressure Switch Low Gas NO 1-26 inwc | | | |
| 4 | 2431-00007 | Shutoff Valve 2 1/2" Manual Reset | | | |
| 6 | 2430-00015 | Solenoid Vent Valve 1 1/4" npt NO 120vac | | | |
| 4 | 2431-00007 | Shutoff Valve 2 1/2" Manual Reset | | | |
| 7 | 2429-00020 | Pressure Switch 1-10 psi High gas NC | | | |
| 8 | 2431-00033 | Butterfly Valve 2 1/2" | | | |
| 9 | 2541-00056 | Modulating Actuator Motor, 3-position step | | | |
| 10 | 2430-00009 | Solenoid Valve 2 1/2" | | | |
| 11 | 2434-00201 | Ball Valve 2 1/2" | | | |
| 12 | 2460-00026 | Pressure Gauge, 0-60 inwc | | | |
| 12 | 2431-00023 | Switch, Maxon 18428 VCS-1 | | | |
| 12 | 2460-00028 | Pressure Gauge, 0-100 inwc for Stainless Steel Burner | | | |
| 13 | 2434-00004 | Ball Valve 1/2" (Main Line Drain) | | | |
| 21 | 2431-00035 | CV Valve POC SW Kit, (Canada) | | | |
| 22 | 2445-00015 | Spring, Black-121 And 243 VAPO | | | |
| | | Pilot Fuel Train (P) | | | |
| 14 | 2460-00027 | Pressure Gauge, 0-30 psi | | | |
| 15 | 2434-00004 | Ball Valve 1/2" | | | |
| 16 | 2446-00029 | Pilot Regulator, 1/2" Spring, 6-14" inwc (green) | | | |
| 16.1 | 2446-00028 | Spring, Regulator 13-20 inwc orange | | | |
| 17 | 2430-00066 | Pilot Solenoid Valve 1/2" | | | |
| 19 | 2460-00025 | Pressure Gauge, 0-30 inwc | | | |

| Item | Part No. | Description | | |
|---------------------------|------------|---|--|--|
| Burner Assembly | | | | |
| 20 | 3108-00031 | Burner Assy, w/UV Sensor | | |
| 20 | 3108-00032 | Burner Assy, Stainless Steel Tube w/UV Sensor | | |
| 18.1 | 2542-00062 | Mini Peeper 1/2" MTG and 24' Leads | | |
| 18.2 | 2403-00003 | Pilot Spark Ignitor 1-64-4 | | |
| 18.3 | 2542-00040 | Flame Controller | | |
| 18.4 | 2502-00001 | Ignition Transformer .175va 120vac | | |
| Liquid Propane Fuel Train | | | | |
| 27.1 | 2433-00017 | Hydro-Relief Valve 300 psi 1/2" npt | | |
| 27.2 | 2433-00018 | Adapter, Relief Valve | | |
| 28 | 2436-00004 | Quick-Release Valve 3/4 npt | | |
| 29 | 2790-00001 | Strainer "Y" 3/4" npt | | |
| 30 | 2430-00061 | Liquid Solenoid Valve 3/4 npt NC LP | | |
| 32 | | Vaporizer Assembly | | |
| 31 | 2449-00030 | Regulator, 1 npt 10-20-psi | | |
| 34 | 2433-00019 | Valve, Pressure Relief 1 npt 25 psi | | |

Plumbing Train Schematic: Block-and-Bleed Natural Gas (Canadian)



Fuel Schematic: Block and Bleed Natural Gas Canadian 3130-00063

| Item | Part No. | Description | | | | |
|-----------------|---------------------|---|--|--|--|--|
| | Main Fuel Train (M) | | | | | |
| 1 | 2434-00161 | Ball Valve 2" | | | | |
| 2 | 2448-00011 | Pressure Regulator 2" 1-2 psi (main) 121-8 | | | | |
| 3 | 2429-00019 | Pressure Switch Low Gas NO 1-26 inwc | | | | |
| 4 | 2431-00007 | Shutoff Valve 2 1/2" Manual Reset | | | | |
| 6 | 2430-00015 | Solenoid Vent Valve 1 1/4" npt NO 120vac | | | | |
| 4 | 2431-00007 | Shutoff Valve 2 1/2" Manual Reset | | | | |
| 7 | 2429-00020 | Pressure Switch 1-10 psi High gas NC | | | | |
| 8 | 2431-00033 | Butterfly Valve 2 1/2" | | | | |
| 9 | 2541-00056 | Modulating Actuator Motor, 3-position step | | | | |
| 10 | 2430-00009 | Solenoid Valve 2 1/2" | | | | |
| 11 | 2434-00201 | Ball Valve 2 1/2" | | | | |
| 12 | 2460-00026 | Pressure Gauge, 0-60 inwc | | | | |
| 12 | 2460-00028 | Pressure Gauge, 0-100 inwc for Stainless Steel Burner | | | | |
| 13 | 2434-00004 | Ball Valve 1/2" (Main Line Drain) | | | | |
| 21 | 2431-00035 | CV Valve POC SW Kit, (Canada) | | | | |
| 22 | 2445-00015 | Spring, Black-121 and 243 VAPO | | | | |
| 23 | 2433-00005 | Pressure Relief Valve 1" 4.5 psi | | | | |
| | | Pilot Fuel Train (P) | | | | |
| 14 | 2460-00027 | Pressure Gauge, 0-30 psi | | | | |
| 15 | 2434-00004 | Ball Valve 1/2" | | | | |
| 16 | 2446-00029 | Pilot Regulator, 1/2" Spring, 6-14" inwc (green) | | | | |
| 16.1 | 2446-00028 | Spring, Regulator 13-20 inwc orange | | | | |
| 17 | 2430-00066 | Solenoid Valve, 1/2" (Pilot) | | | | |
| 19 | 2460-00025 | Pressure Gauge, 0-30 inwc | | | | |
| Burner Assembly | | | | | | |
| 20 | 3108-00031 | Burner Assy w/UV Sensor | | | | |
| 20 | 3108-00032 | Burner Assy, Stainless Steel Tube w/UV Sensor | | | | |
| 18.1 | 2542-00062 | Mini Peeper 1/2" MTG and 24' Leads | | | | |
| 18.2 | 2403-00003 | Pilot Spark Ignitor 1-64-4 | | | | |
| 18.3 | 2542-00040 | Flame Controller | | | | |
| 18.4 | 2502-00001 | Ignition Transformer .175va 120vac | | | | |

Exterior Lower Plumbing: Block-and-Bleed



Figure 22.
Exterior Lower Plumbing: Block-and-Bleed

IMPORTANT! All Hand Valves should be opened very slowly to allow the downstream line pressure to build up and equalize pressure through the system.

| Item | Part No. | Description | | | |
|----------------------|------------|---|--|--|--|
| Main Fuel Train (M) | | | | | |
| 1 | | Propane Vapor Inlet 8-15 psi | | | |
| 2 | | Natural Gas Inlet 8-15 psi | | | |
| 3 | 2434-00016 | Ball Valve 2" | | | |
| 4 | | Pressure Regulator 2" 1-2 psi (main) 121-8 | | | |
| 5 | 2429-00019 | Pressure Switch Low Gas NO 1-26 inwc | | | |
| 7 | 2430-00015 | Solenoid Vent Valve 1 1/4" npt NO 120vac | | | |
| 8 | 2431-00007 | Shutoff Valve 2 1/2" Manual Reset | | | |
| 9 | 2429-00020 | Pressure Switch 1-10 psi High gas NC | | | |
| 10 | 2541-00056 | Modulating Actuator Motor, 3-position step | | | |
| 11 | 2431-00033 | Butterfly Valve 2 1/2" | | | |
| 11A | 2431-00035 | Microswitch, Proof-of-Closure, w/ Bracket | | | |
| 12 | 2430-00009 | Solenoid Valve 2 1/2" | | | |
| 13 | 2434-00201 | Ball Valve 2 1/2" | | | |
| 14 | | Pressure Gauge, 0-60 inwc | | | |
| 15 | 2434-00004 | Ball Valve 1/2" (Main Line Drain) | | | |
| Pilot Fuel Train (P) | | | | | |
| 15 | | Ball Valve 1/2" | | | |
| 16 | | Pressure Gauge, 0-30 psi | | | |
| 17 | 2446-00029 | Pilot Regulator, 1/2" Spring, 6-14" inwc (green) | | | |
| 18 | 2430-00066 | Valve, Main Solenoid 1/2" NC | | | |
| 19 | | Pressure Gauge, 0-30 inwc | | | |
| 20 | | Ball Valve 1/2" (Pilot Line Drain) | | | |
| 21 | 2431-00035 | CV Valve POC SW Kit, (Canada) | | | |

Parts Lists

| Part Number | Model Type | Notes |
|--------------------------------|---|-------------------------------------|
| 3130-00005 | Assembly, Vaporizer | |
| 3130-00035 | Vaporizer Assembly | ME1000S-2650S LP |
| 3130-00040 | Plumbing Train-LP (Base) Canadian | ME1000SG-ME2400SG LP Canadian |
| 3130-00040g02 | Plumbing Kit-LP (Base) Canadian | ME1000SG-ME2400SG CA Canadian LP |
| 3130-00040g10 | Plumbing Sa, LP Inlet Base Block-Bleed | ME-S MODELS w/Block-Bleed Plumbing |
| 3130-00040g12 | Plumbing Sa, LP Inlet-Base-Block-Bleed | All ME-S W/ LP Block-Bleed Plumbing |
| 3130-00040g14 | Plumbing Sa, Vapor Regulator | All ME-S W/ LP Block-Bleed Plumbing |
| 3130-00040g20 | Plumbing Kit, LP Inlet | ME-S MODELS w/Block-Bleed Plumbing |
| 3130-00040g22 | Plumbing Kit, LP Inlet-Base | All ME-S W/ LP Block-Bleed Plumbing |
| 3130-00040g24 | Plumbing Kit, Vapor Regulator | All ME-S W/LP Block-Bleed Plumbing |
| 3130-00041 | Plumbing Train-LP (Upper) | ME1000S-ME1600S |
| 3130-00041g02 | Plumbing Kit -LP (Upper) | ME1000S-ME1600SG |
| 3130-00042 | Plumbing Train-NAT. (Base) Canadian | ME1000S-ME2400S Canadian |
| 3130-00042 3130-00042g10 | Plumbing SA, Gas Inlet-Base Plumbing | '00+ ME1000SG-2400SG 1 (NAT) |
| 3130-00042g10 3130-00042g11 | Plumbing SA, Block-Bleed-Base | '00+ ME1000SG-2650SG 1 (NAT and LP) |
| 3130-00042g11 3130-00042g12 | Plumbing SA, Block-Bleed-Base Plumbing Plumbing SA, Burner Shutoff-Base Plumbing | '00+ ME1000SG-2650SG 1 (NAT and LP) |
| 3130-00042g12 3130-00042g13 | Plumbing SA, Pilot-Base Plumbing | '00+ ME1000SG-2400SG 1 (NAT and E1) |
| 3130-00042g13 3130-00042g14 | Plumbing SA, Lower to Upper Main-Base | '00+ ME1000SG-2400SG 1 (NAT) |
| | | '00+ ME1000SG-2400SG 1 (NAT) |
| 3130-00042g15 3130-00042g16 | Plumbing SA, Lower to Upper Pilot-Base | |
| | Plumbing SA, Upper Line Drain-Base | '00+ ME1000SG-2400SG 1 (NAT) |
| 3130-00042g17 | Plumbing SA, 1 Lower Drain Line-Base | '00+ ME1000SG-2400SG 1 (NAT) |
| 3130-00042g20 | Plumbing Kit, Gas Inlet-Base Plumbing | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00042g21 | Plumbing Kit, Block-Bleed-Base | '00 ME1000S-2650SG 1 (NAT and LP) |
| 3130-00042g22 | Plumbing Kit, Burner Shutoff-Base | '00 ME1000S-2650SG 1 (NAT and LP) |
| 3130-00042g23 | Plumbing Kit, Pilot-Base Plumbing | (*00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00042g24 | Plumbing Kit, Lower to Upper Main-Base | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00042g25 | Plumbing Kit, Lower to Upper Pilot-Base | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00042g26 | Plumbing Kit, Upper Line Drain-Base | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00042g27 | Plumbing Kit, Lower Drain Line-Base | (*00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00043 | Plumbing Train-NAT (Upper) | ME1000S-ME2400S NAT |
| 3130-00043g02 | Plumbing Kit-NAT (Upper) | ME1000S-ME2400S NAT |
| 3130-00043g10 | Plumbing SA, Burner-Upper Plumbing Train | '00+ ME1000S-2400SG 1 (NAT) |
| 3130-00043g11 | Plumbing SA, Main-Upper Plumbing Train | '00+ ME1000S-2400SG 1 (NAT) |
| 3130-00043g12 | Plumbing SA, Pilot-Upper Plumbing Train | '00+ ME1000S-2400SG 1 (NAT) |
| 3130-00043g13 | Pilot, LPDB Plumbing | ME1000S-1400S; ME1800S-2400S |
| 3130-00043g14 | Main Burner, LPDB Plumbing | ME1000S-1400S; ME1800S-2400S |
| 3130-00043g15 | Pilot, LPDB Retro Plumbing | ME1000S-2400S |
| | Main Burner, LPDB Retro Plumbing | ME1000S-2400S |
| 3130-00043g17 | Plumbing SA, Pilot | ME1600S |
| | Plumbing SA, Main | ME1600S |
| | Plumbing Kit, Burner | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00043g21 | Plumbing Kit, Main | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00043g22 | Plumbing Kit, Pilot | '00 ME1000S-2400SG 1 (NAT GAS) |
| 3130-00043g23 | Pilot, LPDB Plumbing | ME1000S-1400S; ME1800S-2400S |
| 3130-00043g24 | Main Burner, LPDB Plumbing | ME1000S-1400S; ME1800S-2400S |
| 3130-00043g25 | Pilot, LPDB Retro Plumbing | ME1000S-2400S |
| SA = SubAssemb | | |
| | Main Burner, LPDB Retro Plumbing | ME1000S-2400S |
| 3130-00043g27 | Plumbing SA, Pilot | ME1600S |
| 3130-00043g28 | Plumbing SA, Main | ME1600S |
| 3130-00044 | Plumbing Train-LP (Base) ME-S | ME1000S-2650S |
| 3130-00044g02 | Plumbing Kit-LP (Base) ME-S | ME1000S-ME2400S LP |
| 3130-00044g10 | Plumbing SA, LP/NAT Inlet-Base Plumbing | '00+ ME1000S-2650S 1 (Combo) |
| 3130-00044g11 | Plumbing SA, Liquid Inlet-Base Plumbing | '00+ ME1000S-2400S 1 (Combo) |
| 3130-00044g12 | Plumbing SA, Upper Liquid Inlet-Base | '00+ ME1000S-2400S 1 (Combo) |
| | 0 / 11 11 11 11 11 11 11 | (/ |

| Part Number | Model Type | Notes |
|--------------------------------|--|--------------------------------|
| 3130-00044g13 | Plumbing SA, Upper Vapor Return-Base | '00+ ME1000S-2400S 1 (Combo) |
| 3130-00044g14 | Plumbing SA, Vapor Regulator-Base | '00+ ME1000S-2400S 1 (Combo) |
| 3130-00044g15 | Plumbing SA, Lower Drain Line-Base | '00+ ME1000S-2400S 1 (Combo) |
| 3130-00044g20 | Plumbing Kit, Natural Inlet | '00 ME1000S-2400S 1 (Combo) |
| 3130-00044g21 | Plumbing Kit, Liquid Inlet | '00 ME1000S-2400S 1 (Combo) |
| 3130-00044g22 | Plumbing Kit, Upper Liquid Inlet | '00 ME1000S-2400S 1 (Combo) |
| 3130-00044g23 | Plumbing Kit, Upper Vapor Return | '00 ME1000S-2400S 1 (Combo) |
| 3130-00044g24 | Plumbing Kit, Vapor Regulator | '00 ME1000S-2400S 1 (Combo) |
| 3130-00044g25 | Plumbing Kit, Lower Drain Line | '00 ME1000S-2400S 1 (Combo) |
| 3130-00045 | Plumbing Train-NAT (Base) | ME1000S-ME2650S NAT |
| 3130-00045g02 | Plumbing Kit-NAT (Base) | ME1000S-ME2400S |
| 3130-00045g10 | Plumbing SA, NAT Inlet-Base | '00+ ME1000S-2400S 1 (NAT) |
| 3130-00045g11 | Plumbing SA, Maxon-Base Plumbing Train | '00+ ME1000S-2400S 1 (NAT) |
| 3130-00045g12 | Plumbing SA, Burner Shutoff-Base | '00+ ME1000S-2400S 1 (NAT) |
| 3130-00045g13 | Plumbing SA, Pilot-Base Plumbing Train | '00+ ME1000S-2650S 1 (NAT) |
| 3130-00045g14 | Plumbing SA, Lower to Upper Main-Base | '00+ ME1000S-2400S 1 (NAT) |
| 3130-00045g15 | Plumbing SA, Pilot Inner-Base Plumbing | '00+ ME1000S-2400S 1 (NAT) |
| 3130-00045g20 | Plumbing Kit, Natural Inlet | '00 ME1000S-2400S 1 (NAT) |
| 3130-00045g21 | Plumbing Kit, Maxon | '00 ME1000S-2400S 1 (NAT) |
| 3130-00045g22 | Plumbing Kit, Burner Shutoff | '00 ME1000S-2400S 1 (NAT) |
| 3130-00045g23 | Plumbing Kit, Pilot | '00 ME1000S-2650S 1 |
| 3130-00045g24 | Plumbing Kit, Lower to Upper Main | '00 ME1000S-2400S 1 (NAT) |
| 3130-00045g25 | Plumbing Kit, Pilot Inner | '00 ME1000S-2400S 1 (NAT) |
| 3130-00046p01 | Copper Tubing, 3/8" OD | |
| 3130-00046p02 | Copper Tubing, 3/8" OD | |
| 3130-00047g01 | Tubing SA, Pilot Gas | ME1000S-2650S |
| 3130-00047g02 | Tubing SA, Pilot Gas | ME1000SG-2400SG |
| 3130-00055p01 | Copper Tubing, 3/8" OD | ME1000S-2650S |
| 3130-00055p02 | Copper Tubing, 3/8" OD | ME1000SG-2650SG |
| 3130-00056g01 | Tubing SA, Vapor Regulator | ME1000S-2400S |
| 3130-00056g02 | Tubing SA, Vapor Regulator | ME1000SG-2400SG |
| 3130-00057 | Plumbing Train-LP (Upper) | ME1800S-ME2400S LP |
| 3130-00057g02 | Plumbing Kit-LP (Upper) | ME1800S-ME2400S LP |
| 3130-00057g10 | Plumbing SA, Lower Vapor Return | '00+ ME1800S-2400SG 1 (LP) |
| 3130-00057g11 | Plumbing SA, Upper Vapor Return | '00+ ME1000S-2400SG 1 (LP) |
| 3130-00057g12 | Plumbing SA, Lower Liquid Inlet | '00+ ME1800S-2400SG 1 (LP) |
| 3130-00057g13 | Plumbing SA, Upper Liquid Inlet | '00+ ME1000S-2400SG 1 (LP) |
| 3130-00057g20 | Plumbing Kit, Lower Vapor Return | '00 ME1800S-2400SG 1 (LP) |
| 3130-00057g21 | Plumbing Kit, Upper Vapor Return | '00 ME1800S-2400SG 1 (LP) |
| 3130-00057g22 | Plumbing Kit, Lower Liquid Inlet | '00 ME1800S-2400SG 1 (LP) |
| 3130-00057g23 | Plumbing Kit, Upper Liquid Inlet | '00 ME1800S-2400SG 1 (LP) |
| 3130-00058 | Plumbing Train - LP Combo w/Maxon | + |
| 3130-00058g02 | Plumbing Train - LP Combo w/Maxon | |
| SA = SubAssemb | J | 1 |
| 3130-00059 | Plumbing Train-LP w/Block-Bleed | |
| 3130-00059g02 3130-00060g02 | Plumbing Train-LP w/Block-Bleed Plumbing Train-LP w/Block-Bleed | |
| 3130-00060g02 3130-00064 | Plumbing Train-LP W/Block-Bleed Plumbing Train SS-NAT (Upper) ME-S | ME1000-2400S |
| 3130-00065 | Plumbing Train SS-NAT (Opper) ME-S Plumbing Train SS-LPDB-LP/NAT | ME2650S |
| 3130-00065 | Plumbing Train-LP (Upper) ME2 | ME2650S |
| 3130-00067 | Plumbing Train SS-LP (Upper) ME-S | ME1800S-2400S |
| 3130-00067 | Plumbing Train SS-LP (Upper) ME-S | ME2650S |
| 3130-00069 | Plumbing Train SS-LP (Upper) ME-S | ME1000-1600S |
| 3130-00070 | Plumbing Train-NAT (Upper) ME-S | ME2650 |
| 3130-00070 | Kit-LPDB Conversion | ME1000S-2400S |
| 3130-00071 | Plumbing Train-SS-LPDB-LP/NAT | ME1000S-2400S ME1000S-2400S |
| 3130-80001g01 | Crate, LP Plumbing Option | ME1000SX-2400SX |
| 3130-81004g02 | Crate, NAT Block-Bleed Plumbing Option | ME1000ES-2650HS (Hungary) |
| | 1, = = = = = = = = = = = = = | |



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Changes this issue:

Pages 24-25: The Canadian Block-and-Bleed LP PlumbingTrain changed.

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