

# MANUAL LIT SYSTEM

Natural Gas (NG)

60,000 BTU



## fire pit installation and user manual

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January 2022

This user manual contains information that is critical to the installation and operations of your Solus Fire Pits. For safety, please follow these instructions carefully.

This fire pit conform to the following standards:

**ANSI Z21.97 – 2004 / CSA 2.41 -2017** *Outdoor Decorative Gas Appliance*

**CSA 2.17-2017** *Gas-Fired Appliances For Use at High Altitudes*

**CE BS EN 498:2012** *Specification for Dedicated Liquefied Petroleum Gas Appliances*

**CE BS EN 509:2001 + A1 : 2003 + A2: 2004** *Decorative Fuel-Effect Gas Appliances*

Made in Canada by Solus Decor Inc.  
Building C-109 Braid Street, New Westminster, BC Canada V3L5H4  
1.877.255.3146 [www.solusdecor.com](http://www.solusdecor.com)

## PRODUCT RATINGS

### *GAS RATINGS*

#### Natural Gas (NG)

Inlet Gas Pressure : 7 "W.C. (17.4mbar) (0.25 PSI)



Manifold Gas Pressure :

| <u>Burner Ratings</u> | <u>Minimum Manifold Pressure Requirement</u> |
|-----------------------|----------------------------------------------|
| 60,000 BTU (17.58kW)  | 3.5"W.C. (8.7mbar) (0.12 PSI)                |
| 73,500 BTU (21.39kW)  | 3.5"W.C. (8.7mbar) (0.12 PSI)                |
| 108,000 BTU (31.65kW) | 2.5"W.C. (6.2 mbar) (0.09 PSI)               |

**WARNING:** Consistent *Inlet Gas Pressure* is required to avoid weak pilot flame and burner dropouts.



## PRODUCT WARNINGS

|                                                                                                 |                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>DANGER</b> | <b>CARBON MONOXIDE HAZARD</b><br>This appliance can produce carbon monoxide which has no odor.<br><br>Using it in an enclosed space can kill you.<br><br>Never use this appliance in an enclosed space such as a camper, tent, car or home. |
|                |                                                                                                                                                                                                                                             |



**DANGER:** If you smell gas:

- 1) Shut off gas to the appliance.
- 2) Extinguish any open flame.
- 3) If the odor continues, keep away from appliances and immediately call the gas supplier or fire department.



**WARNING:** For Outdoor Use Only



**WARNING:** Only Licensed Gas Fitters and Electricians are allowed to install and perform repair services on this fire pit



**WARNING:** This Fire pit should be inspected before use and at least once annually by a qualified technician.



**WARNING:** This manual contains information critical to the safe installation and operation of the fire pit
















**WARNING** Never alter product or configuration in any way



**WARNING:** Fuel line sizing and or/regulations are the responsibility of the installer and must be able to supply the stated Product Ratings.



**WARNING:** Testing for leaks after installation is the responsibility of the installer.

-  **WARNING:** All fire pits must have a gas shutoff outside of the exterior of the fire pit to allow for emergency shut off and maintenance.
-  **WARNING:** All fire pits with an electric start system, must have an electrical shut off (wall switch or breaker) on the exterior of the fire pit or on an adjacent wall to allow for emergency shutdown and maintenance.
-  **WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment
-  **WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment
-  **WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.
-  **WARNING:** Do not use this fire pit if any part of it has been under water. Call a licensed technician to inspect the fire pit and replace the parts under water as necessary
-  **WARNING:** Do not store or use gasoline or other flammable near the fire pit.
-  **WARNING:** It is the installer's responsibility to ensure a safe installation and to educate the end user about proper operation. Leave this manual with the end user
-  **WARNING:** FOR REMOTE CONTROL USE: To prevent accidental start-up from unwanted RF signals it is the responsibility of the end user to turn off power to the electric outlet for the remote control receiver when the fire-pit is not in use via wall switch or breaker.
-  **WARNING:** This fire pit is not intended to be a starter for wood or any other combustibles.
-  **WARNING:** Select a location where the fire pit can be attended during operation. Never leave an operating fire pit unattended or by someone not familiar with its operation or emergency shut off locations.
-  **WARNING:** Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.
-  **WARNING:** Young children should be carefully supervised when they are in the area of the fire pit.



**WARNING:** Clothing or other flammable materials should not be placed on or near a fire pit.



**WARNING:** This fire pit emits very high temperatures - Combustibles must be located far enough away that there is no risk of ignition.



**WARNING:** All Solus vessels for Natural and Liquid Propane Gas are vented at the bottom. The ventilation allows for heat and/or residual fuel to escape. The vents also function as a drain to prevent water build-up. These vents must not be blocked or tampered with at any time. Failure to follow this instruction may result in the fire-pit overheating or explosion. Overheating could also lead to heat damage to internal components.



**WARNING:** The interior void space of the Solus vessel surrounding the gas valve and electrical box cannot be filled with any material (gravel, crushed rock, concrete, etc.) to allow for proper ventilation.



**WARNING:** Solus concrete vessels are HEAVY. Use care and caution during lifting, positioning and repositioning to prevent injury, damage to fire pits and damage to property. Some Fire Pits will require 2 or more people to lift; some may require 4 or more people. The Fire Pit must be evenly supported and level – Shim appropriately as required.



**WARNING:** The fire pit must be serviced annually by a professional certified in your jurisdiction.



**WARNING:** Installer must confirm the appliance is built for the appropriate gas used – natural gas or LP. Do not use natural gas appliances with LP or LP appliances with natural gas. Refer to the label on the appliance.



**WARNING:** To prevent damage, unhook the fire pit from the gas supply for pressure leak tests.



**WARNING:** Gas Plumbing Connections: Use only joint compound or tape that is resistant to all gases. Apply joint compound to all male pipe fittings only- DO NOT use on FLARED fittings. Be sure to tighten every joint securely.



**WARNING:** An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance



## LOCATION OF THE FIRE PIT

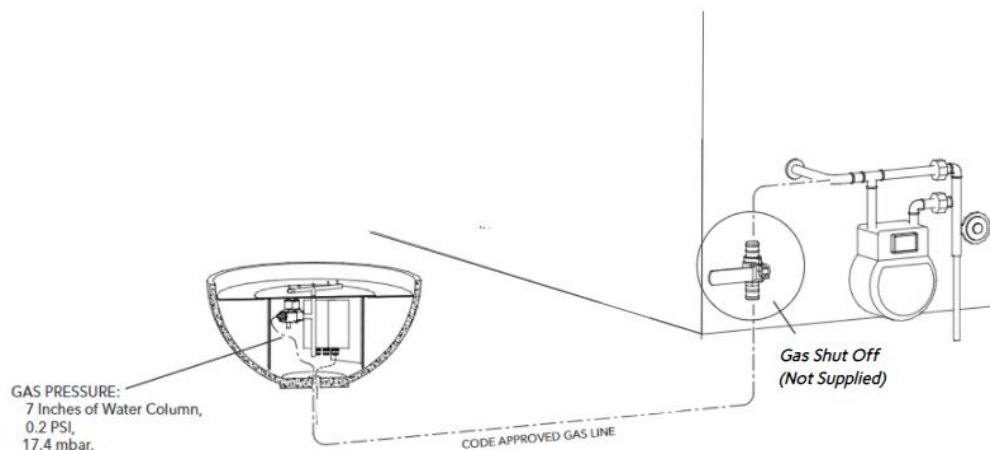
All Solus Decor fire pits are intended and designed for **Outdoor Use Only**.

### ***Stable Surface***

The Solus fire pit vessel must be placed on a stable and flat surface. Select a location with good drainage that allows easy access for installation and maintenance of the fire pit.

### ***Consider the location with less unfavorable winds***

Solus Burner is designed to withstand 10MPH (16.0934KPH) wind speed. Consider purchasing a Solus WindShield if the location is prone to severe and unpredictable wind activities like open beachfront spaces or high rise building patios and balconies.



### ***Gas Shut Off***

All Fire pits must have a gas shut-off mechanism located outside of the appliance. This gas shut-off mechanism must be accessible for emergency shut-off and maintenance. Please note that the Key Valve outside the vessel of this firepit is not a shut-off mechanism. This Key Valve is used to regulate the flame height and flame intensity.

## FIRE PIT CLEARANCES

### *Horizontal Clearance*

Concrete vessels must be at least 16 inches (0.5 meter) away from any combustible structure and/or materials.

### *Vertical Clearance*

Clearance between the burner and any structure overhead must be at least 77 inches (1.95 meter) from any combustible structure and/or materials.

## UNPACKING



The fire pit will arrive in an exquisite crate, fully foamed padded. Carefully inspect the crate for damages during delivery. Open the crate immediately if any damages are observed. Document the damages through photographs and report to Solus Decor at once.

### *Crate Check*

Customers are required to report any crate damages within 24 hours of receiving the crates.

**Contents Check**

Furthermore, it is the customer's responsibility to check it's contents within 48 hours from receipt of the shipment to check for content damages.

*Solus is not responsible for damages reported beyond these timelines.*

## GENERAL LIFTING GUIDE

**WARNING:**

*These concrete products are heavy and bulky. Moving these concrete products may require multiple people. Refer to the table on the next page.*



Please note that only Hemi 36 and 48 bowls are provided with straps that act like a carrying harness.



| Product Type      | Lbs          | Kgs         | Number of Person Needed to Lift |
|-------------------|--------------|-------------|---------------------------------|
| Hemi 26           | 81           | 37          | 2                               |
| Hemi 36           | 156          | 71          | 2 (straps attached)             |
| Hemi 48           | 317          | 144         | 4 (straps attached)             |
| Halo 36 Low Base  | 76           | 35          | 2                               |
| Halo 36 Low Top   | 244          | 111         | 2-3                             |
| EHA 36 Box        | 230          | 105         | 2-3                             |
| EHA 36 Top        | 244          | 111         | 2-3                             |
| Halo Low 48 Base  | 75           | 34          | 2                               |
| Halo Low 48 Top   | 526          | 239         | 5                               |
| EHA 48 Box        | 230          | 105         | 2                               |
| EHA 48 Top        | 526          | 239         | 4-5                             |
| Firetable Base    | 74           | 34          | 2                               |
| Firetable Box     | 243          | 110         | 2-3                             |
| Firetable Top     | 134          | 61          | 2                               |
| Firebox 30        | 243          | 110         | 2-3                             |
| Firecube with Lid | 156          | 71          | 2                               |
| Tavolo Base       | 75           | 34          | 2                               |
| Tavolo Box        | 243          | 110         | 3-4                             |
| Tavolo Top        | 410          | 186         | 4                               |
| Linear            | 148 per slab | 67 per slab | 2                               |



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**North America Only**

# INSTALLATION and OPERATION

## WARNING:

Installation and repair must be done by Licensed Gas Fitters. The fire pit must be inspected before use and at least checked or serviced annually by a qualified service technician. Cleaning may be required frequently as necessary. When a fire pit is not in use, an all-weather cover or metal top must be used to avoid water and moisture build-up and to protect the fire pit from environmental hazards.

- *Fire Pit Ratings* : Check the Output BTU Ratings of the fire pit and ensure the following requirements are followed

Gas Rating (NG) :

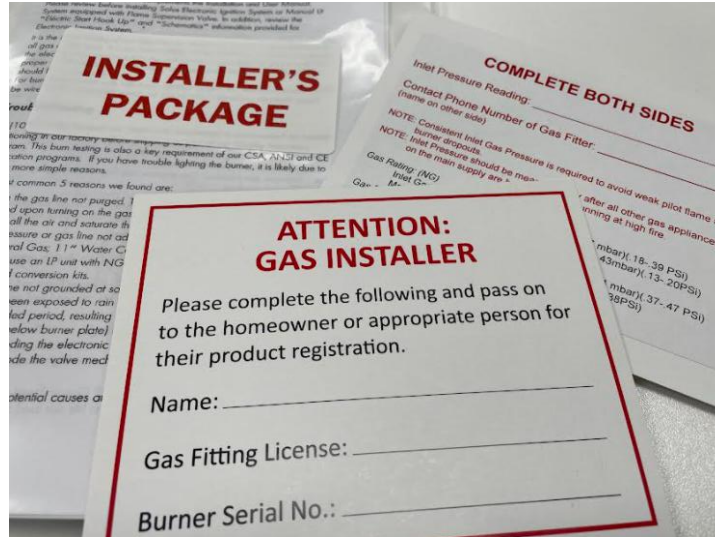
**Inlet Gas Pressure :** **7 "W.C. (17.4mbar) (0.25 PSi)**

**Manifold Gas Pressure**

| <u>Burner Ratings</u> | <u>Minimum Manifold Pressure Requirement</u> |
|-----------------------|----------------------------------------------|
| 60,000 BTU (17.58kW)  | 3.5"W.C. (8.7mbar) (0.12 PSi)                |

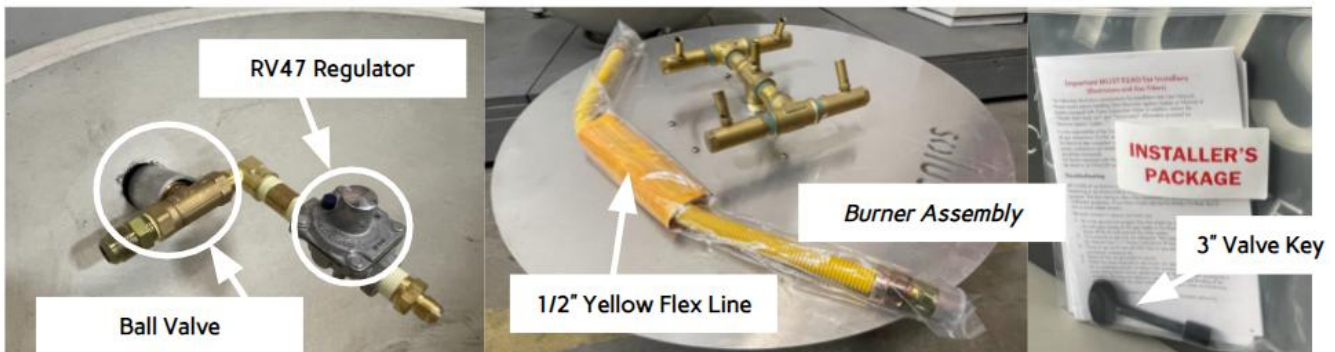
- *Inlet Pressure* : This is the input gas pressure coming from the main gas line going to the fire pit. Reading must be taken only after all other gas appliances on the main supply are on and running at full capacity.
- *Manifold Pressure*: This is the pressure at the manifold when the burner is on.
- *Gas Requirement* : Consistent ***Inlet Gas Pressure*** is required to avoid burner dropouts. ***THIS IS AN ABSOLUTE PRIORITY.*** The reading must be recorded and written on the installer's card and must be given to the owner/end user. Owner's must keep this card for future use and servicing. The readings must also be included in the product registration form (*page 25 of this manual*).





**Locate all the components**

- Installer's Package
- 3" Valve Keys
- 1/2" Yellow Flex Line
- Burner Assembly
- Concrete Bowl - Ball Valve
- RV47 Regulator



### Gas Connection

- Make sure that the gas shut-off valve (emergency shut-off valve) of the appliance is closed when connecting the gas lines.
- Locate the Ball Valve inside the concrete bowl/vessel. This valve is supplied with flared fitting at both ends.
- Connect the one end of the yellow flex gas line (supplied) one end the Quarter Turn - Ball Valve and the other end to the burner manifold.
- Connect the end of the NG main supply line to the RV47 Regulator.
- Test all gas piping and connections for leaks after gas connections
- Do not use an open flame to check for leaks.



Yellow Flex Line (One End)  
to Ball Valve



Yellow Flex Line (Other End)  
to Burner Manifold



Gas Supply Line to the  
RV47 Regulator  
*Note: Installer to supply gas line*

### Operation

#### Turning ON the MLS – NG System

- Read instructions very carefully.
- Remove any covers prior to operation.
- Confirm that the gas shut-off valve (emergency shut-off valve) is open.
- Locate the Ball Valve
- By using the 3" Valve Key (supplied), turn the tee- key valve freely counter-clockwise.
- Apply a flame with a barbecue lighter to the closest nozzle on the exterior of the burner.
- Once lit, use the 3" Valve Key to adjust the flame to desired height.



**WARNING:** Consistent *Inlet Gas Pressure* is required to avoid weak pilot flame and burner dropouts.

Turning OFF the MLS – NG System

- By using the 3" Valve Key (supplied), turn the valve freely clockwise.
- Make sure flame is totally out
- Close the gas shut-off valve (emergency shut-off valve).
- Allow the burner to cool down before installing the cover, if available.

Purging

Sometimes, due to in-activity or not-being used or if the fire pit just came out of the box or just completed a service, the system won't detect any gas flow in the beginning. This is due to the presence of unwanted gas/air and water in the system. Purging is the process of displacing gas/air inside the system with the required gas. To bleed air out of the line, turn the ball valve counterclockwise to open and observe any vapour coming out of the burner nozzles. Once vapour is observed, this means gas flow is already initiated. Apply a flame with a barbecue lighter to the closest nozzle on the exterior of the burner.



## MEDIA INSTALLATION

### WARNING:

Do not install any refractory stones (decorative river rocks) or lava rocks that are not supplied by Solus Decor. Landscape stones and other natural materials may explode when heated.



*Lava Rock*



*Refractory Stones*

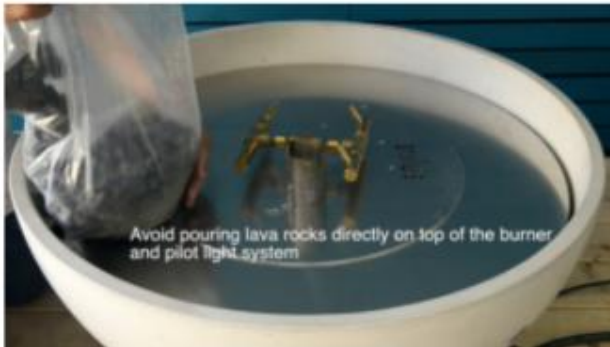
### WARNING:

Do not dump media over the burner and or the nozzles.

**Lava Rock Bed**

Cover the entire burner plate with lava rock. Add enough layers of lava rocks until it reaches the underside of the burner. *Do not cover the nozzles with lava rocks.* Make sure no dust or other particles are inside the nozzles prior to lighting.

Keep the jets/nozzles free and clear of any refractory stones and lava rocks.



**Refractory Stone Placement**

A small pool of decorative river rocks should be placed on and around the burner. Make sure that no rocks are blocking any of the burner nozzles. Rearrange these stones around to deflect flame into a natural appearance, this is referred to as Flame Sculpting.



## GENERAL CARE AND MAINTENANCE

### KEEP THE FIRE PIT COVERED WHEN NOT IN USE

Ensure that gas and power (when applicable) are shut off and the fire pit is cool before performing any service and maintenance.

We recommend that a qualified service technician performs the following maintenance procedure at the beginning of each fire pit season.



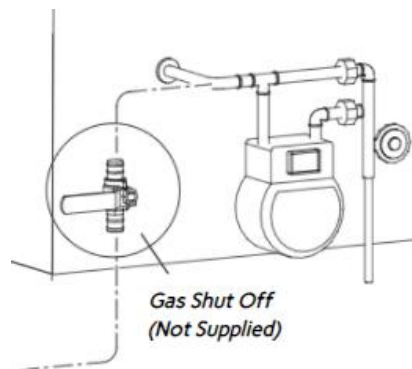
***Cleaning the Burner Nozzles***

Periodic check, inspection and cleaning of the burner assembly is recommended. This is to avoid unusual and unwanted flame behaviour as well as ignition failure. To clean the burner nozzles, remove the refractory stones and lava rocks to allow access to the burner. Use a scotch green pad or 320 grit sandpaper or a brush to scrape soot and remove any dust, spider web or any particles. To check for nozzle clogs, use a small paper clip or needle and carefully insert in the burner nozzles. Remove any clogs if any.

## END OF THE SEASON CHECKLIST

When the fire pit is not going to be used for months (although it can be enjoyed year round), it is important to follow this end of the season checklist.

***Shut off Main Gas Supply***



***Accessories***

Remove all accessories like wood tops, glass shield and store indoors



***Unwanted debris***

Check and remove any unwanted debris that can affect the look of your concrete fire pit.

***Clean exterior of the fire pit***

Moisture, dirt, dust and other surface contaminants must be wiped and cleaned. Use warm water and soap.

***Cover your firepit***

This is to protect your investment.



## START OF THE SEASON CHECKLIST

The end of the season checklist is developed so fire pits can be used when the next opportunity happens. If the recommendations were followed, this fire pit should be as good as ready.

***Remove Cover.***

Solus provided all-weather covers are water resistant. Check the burner/nozzles and media for moisture. If they are wet, allow the components to dry. Please see the troubleshooting guide for instructions.

***Inspect Gas and Supply Lines.***

Inspect all gas connections prior to operation. Treat this as a new installation. Look for debris and kinks along the gas lines.



**Inspect Burner.**

A clogged and dirty burner nozzle can cause so many different issues. It restricts and blocks gas flow. Check and clean each nozzle when necessary. Water inside the nozzles can also cause the same issue. If water is suspected to have entered the burner and the piping system, contact a licensed gas fitter to drain water from the system.

**Test Run.**

If this fire pit wasn't used for more than one month, please treat this as a new installation and follow the "Turning on" instructions in this manual. Purging of air might be needed.

**Clean the exteriors.**

Clean the fire pit's exterior and get ready to enjoy another season of outdoor living. Use a hot soapy water, let it dry, then apply a stone sealer or enhancer (available in most DIY shops). Caution : Apply/Test on a small area before applying fully.

## TROUBLESHOOTING

**WARNING:**

*Turn off the fire pit and let it cool before servicing. Only qualified technicians should service and repair the fire pit.*

| Manual Lit System - Common Issues                         |                                                                       |                                                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Issues                                                    | Possible Causes                                                       | Solutions                                                                                                                                                         |
| No Flame                                                  | Key Valve Closed                                                      | Open ball valve to allow gas flow                                                                                                                                 |
|                                                           | Main Gas Supply Valve Closed                                          | Open Main Gas Supply Valve                                                                                                                                        |
|                                                           | Air in the line                                                       | Purge air from the line/check installation manual                                                                                                                 |
|                                                           | Water and moisture in the line                                        | Vacuum the nozzles to remove moisture/or alternatively, use a hair dryer                                                                                          |
| Weak or Low Flame                                         | Low Gas Pressure                                                      | Verify Gas Pressure                                                                                                                                               |
| One or more nozzles not lighting or weaker than the other | Clogged or Dirty Burner Nozzles                                       | Clean nozzles and check for obstruction                                                                                                                           |
|                                                           | Mismatched nozzles used                                               | Check and compare nozzles, replace with correct nozzles if needed                                                                                                 |
| Burner excessively noisy / Whistling                      | Too much gas pressure/presence of kinks and bends along the gas lines | Contact a technician. Verify Inlet Gas Pressure is within recommended ranges, check regulator settings if supplied, adjust accordingly. Check for kinks and bends |
| Unwanted Odours                                           | Gas Leak                                                              | Shut off gas supply and call a technician                                                                                                                         |



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## WARRANTY INFORMATION

Solus warrants that each Solus Fire Pits conforms to CSA, ANSI, CE and UKCA standards for *Outdoor Decorative Gas Appliance* . All concrete products are professionally inspected and passed Solus' above industry quality standard, and each and every gas burner burned and fire tested prior to leaving the Solus facility in Vancouver.

This warranty is voided if the fire pit is not installed by a licensed technician and/or if not maintained and operated according to the installation and user's manual. This warranty is also voided if product is modified, altered and tampered with and if a third-party parts and components were used during repair and maintenance.

***Warranties are limited to the original purchaser only.***

### ***Upon Receipt of the Crate***

Solus spares no expense on packaging these fire pits. They are crated and packed to museum quality standards. However, things can happen along the way. The purchaser, upon receipt of the crate, must visually inspect the crate for damages. Report any crate damages to Solus within 24 hours. Additionally, the content of the crate must be visually inspected within 48 hours. Report to Solus immediately. Solus is not responsible to any damages not reported beyond the specified timelines

### ***Parts Only Limited Warranty***

Solus will, at its election, repair or replace the part or product where Solus inspection discloses any such defect occurring with normal usage. Solus will replace all warranted parts free of charge. Client is responsible for the cost of shipping, duties and custom charges when applicable as well as the service and labour cost, re-installation and disposal of the replaced parts and components.

**Solus does not provide onsite repair, visits or service.**

This warranty does not cover damages to parts and products caused by inappropriate or improper installation, unauthorized modifications to the burner, vessel and parts, and improper maintenance such as failure to put the all-weather cover or metal top when fire pit is not in use.

### ***Concrete Vessels Limited Warranty***

Solus concrete products weather and tarnish through exposure to natural elements over time. This naturally occurring process is called Patina.



It is a very rare occasion that a vessel will fracture. Solus will replace cracked and broken concrete vessels resulting from structural defects. Client is responsible for any costs associated with crating, shipping, handling, re-installation labour or disposal of replaced products or components.

Non-structural hairline and spider web-like cracks, surface air voids, chips, scratches and abrasions or minor dimples will not affect the quality and performance of the fire pit therefore shall not be covered by this Warranty. Damages due to excessive loads, for example: Solus fire tables and bowls are not designed for seating purposes and are also not covered by this Warranty.

Any slight variation from the samples received, surface discoloration, texture changes and stains due to exposure to elements like salts, acids, birds droppings, insects, spilled drinks, greasy food and other harmful liquids also is not covered by this Warranty.

**General Exclusions**

This Warranty also excludes damages to the fire pit occurring due to accident, fire exposure, damages caused by wind and flooding, vandalism, ground movement, neglect, misuse and abuse.

**Warranty Summary**

| Type                          | Components                                          | No cover or metal tabletop purchased | Solus All-Weather cover and/or metal tabletop purchased |
|-------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------------|
| Manual Ignition Fire Features | Brass Burner and brass fittings<br>Concrete Vessels | 5 years<br>1 year                    | 25 years<br>5 years                                     |



## PARTS LIST

| Parts Number | Parts Description                                |
|--------------|--------------------------------------------------|
| PO2085       | 3" Key                                           |
| PO2185       | Ball Valve                                       |
| PO1985       | Ball Valve & Flange                              |
| PO2180       | 1/2" Yellow Flex Line (36")                      |
| PO2182       | 1/2" Yellow Flex Line (26")                      |
| PO2002       | Gas Regulator (NG) RV47L                         |
| PO1992       | Burner Nozzles (NG 10K)                          |
| PO1987       | Burner Manifold (NG) 60,000 BTU - 4 NZ crossfire |
| PO2072       | Solus (NG) MLS Burner Package                    |
| A01818       | NG to LP / MLS Conversion Kit                    |

## ACCESSORIES

### *All Weather Covers*





*Metal Table Tops*



*Hardwood Table Tops*





*Fire Stones*



*Glass WindShields*



*Tank Table*



# PRODUCT REGISTRATION

Thank you for purchasing a Solus Firepit! To protect your investment, please register your fire pit within 30 days of installation. Please supply all the required information at the time of installation. As noted in our Limited Product Warranty, professional registration number and gas pressure and input voltage readings are required to engage a warranty claim in the unlikely event that one is necessary.

**CONTACT INFORMATION:**

Name: \_\_\_\_\_ Organization/Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email: \_\_\_\_\_

**PRODUCT INFORMATION: (please retain proof-of-purchase)**

Order #: \_\_\_\_\_ Firepit Model: \_\_\_\_\_ Fuel type:  Natural Gas  Propane  Ethanol

Ignition type:  Manual Light  Manual Light w/Flame Supervision Valve  Automatic (Electronic)

Date purchased: \_\_\_\_\_ Date of Install: \_\_\_\_\_

Product purchased:  Solus directly  Specifier / Contractor  Reseller

BURNER SERIAL # \_\_\_\_\_

Gas Fitter Name: \_\_\_\_\_ Gas Fitter Registration #: \_\_\_\_\_

Gas Fitter Signature: \_\_\_\_\_ Date Signed: \_\_\_\_\_

Inlet Gas Pressure Reading : \_\_\_\_\_ Test Completed : Yes \_\_\_\_\_ / No: \_\_\_\_\_

**How to submit the completed Product Registration Form?**

North America - Return to:

Solus Decor Inc  
Building C- 109 Braid St  
New Westminster, BC V3L 5H4  
Canada

Or scan and email to [info@solusdecor.com](mailto:info@solusdecor.com)  
Or complete online at: [www.solusdecor.com/warranty](http://www.solusdecor.com/warranty)



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# MANUAL LIT SYSTEM

Liquefied Petroleum Gas (LPG)

60,000 BTU



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**ANSI Z21.97 – 2004 / CSA 2.41 -2017** *Outdoor Decorative Gas Appliance*

**CSA 2.17-2017** *Gas-Fired Appliances For Use at High Altitudes*

**CE BS EN 498:2012** *Specification for Dedicated Liquefied Petroleum Gas Appliances*

**CE BS EN 509:2001 + A1 : 2003 + A2: 2004** *Decorative Fuel-Effect Gas Appliances*

Made in Canada by Solus Decor Inc.  
Building C-109 Braid Street, New Westminster, BC Canada V3L5H4  
1.877.255.3146 [www.solusdecor.com](http://www.solusdecor.com)

## PRODUCT RATINGS

### *GAS RATINGS*

#### Liquified Petroleum Gas (LPG)

Inlet Gas Pressure : 11"W.C. (27.37 mbar) (0.39 PSi)

Manifold Gas Pressure :



| <u>Burner Ratings</u> | <u>Minimum Manifold Pressure Requirement</u> |
|-----------------------|----------------------------------------------|
| 60,000 BTU (17.58kW)  | 10.8 "W.C. (26.8mbar) (0.39 PSi)             |
| 73,500 BTU (21.39kW)  | 10.8 "W.C. (26.8mbar) (0.39 PSi)             |
| 108,000 BTU (31.65kW) | 4.5 "W.C. (11.2 mbar) (0.16 PSi)             |


**WARNING:** Consistent *Inlet Gas Pressure* is required to avoid weak pilot flame and burner dropouts.







## PRODUCT WARNINGS


|                                                                                                 |                                                                                                                                       |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  <b>DANGER</b> | <b>CARBON MONOXIDE HAZARD</b><br>This appliance can produce carbon monoxide which has no odor.                                        |
|                | Using it in an enclosed space can kill you.<br><br>Never use this appliance in an enclosed space such as a camper, tent, car or home. |

 **DANGER:** If you smell gas:  
1) Shut off gas to the appliance.  
2) Extinguish any open flame.  
3) If the odor continues, keep away from appliances and immediately call the gas supplier or fire department.

 **WARNING:** For Outdoor Use Only

 **WARNING:** Only Licensed Gas Fitters and Electricians are allowed to install and perform repair services on this fire pit

 **WARNING:** This Fire pit should be inspected before use and at least once annually by a qualified technician.

 **WARNING:** This manual contains information critical to the safe installation and operation of the fire pit

 **WARNING** Never alter product or configuration in any way

 **WARNING:** Fuel line sizing and or/regulations are the responsibility of the installer and must be able to supply the stated Product Ratings.

 **WARNING:** Testing for leaks after installation is the responsibility of the installer.



**WARNING:** All fire pits must have a gas shutoff outside of the exterior of the fire pit to allow for emergency shut off and maintenance.



**WARNING:** All fire pits with an electric start system, must have an electrical shut off (wall switch or breaker) on the exterior of the fire pit or on an adjacent wall to allow for emergency shutdown and maintenance.



**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment



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**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.



**WARNING:** Do not use this fire pit if any part of it has been under water. Call a licensed technician to inspect the fire pit and replace the parts under water as necessary



**WARNING:** Do not store or use gasoline or other flammable near the fire pit.



**WARNING:** It is the installer's responsibility to ensure a safe installation and to educate the end user about proper operation. Leave this manual with the end user



**WARNING:** FOR REMOTE CONTROL USE: To prevent accidental start-up from unwanted RF signals it is the responsibility of the end user to turn off power to the electric outlet for the remote control receiver when the fire-pit is not in use via wall switch or breaker.



**WARNING:** This fire pit is not intended to be a starter for wood or any other combustibles.



**WARNING:** Select a location where the fire pit can be attended during operation. Never leave an operating fire pit unattended or by someone not familiar with its operation or emergency shut off locations.



**WARNING:** Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.



**WARNING:** Young children should be carefully supervised when they are in the area of the fire pit.



**WARNING:** Clothing or other flammable materials should not be placed on or near a fire pit.



**WARNING:** This fire pit emits very high temperatures - Combustibles must be located far enough away that there is no risk of ignition.



**WARNING:** All Solus vessels for Natural and Liquid Propane Gas are vented at the bottom. The ventilation allows for heat and/or residual fuel to escape. The vents also function as a drain to prevent water build-up. These vents must not be blocked or tampered with at any time. Failure to follow this instruction may result in the fire-pit overheating or explosion. Overheating could also lead to heat damage to internal components.



**WARNING:** The interior void space of the Solus vessel surrounding the gas valve and electrical box cannot be filled with any material (gravel, crushed rock, concrete, etc.) to allow for proper ventilation.



**WARNING:** Solus concrete vessels are HEAVY. Use care and caution during lifting, positioning and repositioning to prevent injury, damage to fire pits and damage to property. Some Fire Pits will require 2 or more people to lift; some may require 4 or more people. The Fire Pit must be evenly supported and level – Shim appropriately as required.



**WARNING:** The fire pit must be serviced annually by a professional certified in your jurisdiction.



**WARNING:** Installer must confirm the appliance is built for the appropriate gas used – natural gas or LP. Do not use natural gas appliances with LP or LP appliances with natural gas. Refer to the label on the appliance.



**WARNING:** To prevent damage, unhook the fire pit from the gas supply for pressure leak tests.



**WARNING:** Gas Plumbing Connections: Use only joint compound or tape that is resistant to all gases. Apply joint compound to all male pipe fittings only- DO NOT use on FLARED fittings. Be sure to tighten every joint securely.



**WARNING:** An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance

## LOCATION OF THE FIRE PIT

All Solus Decor fire pits are intended and designed for **Outdoor Use Only**.

### ***Stable Surface***

The Solus fire pit vessel must be placed on a stable and flat surface. Select a location with good drainage that allows easy access for installation and maintenance of the fire pit.

### ***Consider the location with less unfavorable winds***

Solus Burner is designed to withstand 10MPH (16.0934KPH) wind speed. Consider purchasing a Solus WindShield if the location is prone to severe and unpredictable wind activities like open beachfront spaces or high rise building patios and balconies.

### ***Gas Shut Off***

All Fire pits must have a gas shut-off mechanism located outside of the appliance. This gas shut-off mechanism must be accessible for emergency shut-off and maintenance. Please note that the Key Valve outside the vessel of this firepit is not a shut-off mechanism. This Key Valve is used to regulate the flame height and flame intensity.

## FIRE PIT CLEARANCES

**WARNING:** Keep away from combustible materials

### ***Horizontal Clearance***

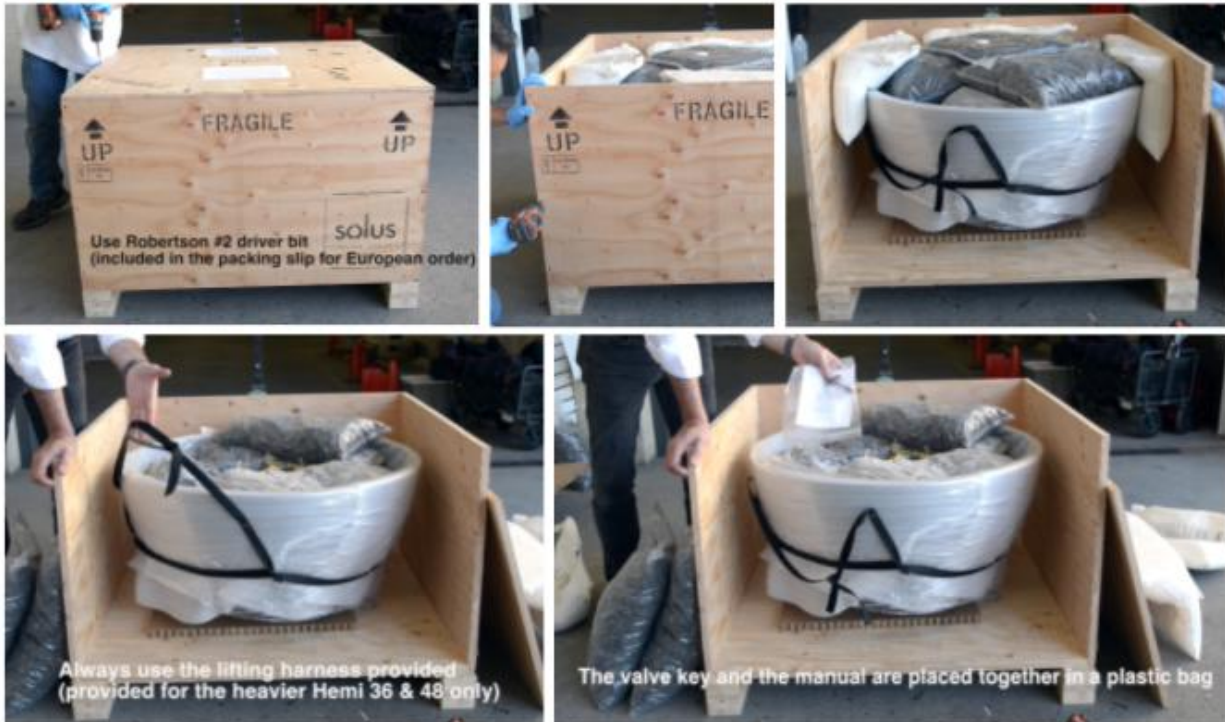
Concrete vessels must be at least 16 inches (0.5 meter) away from any combustible structure and/or materials.

### ***Vertical Clearance***

Clearance between the burner and any structure overhead must be at least 77 inches (1.95 meter) from any combustible structure and/or materials.



## UNPACKING



The fire pit will arrive in an exquisite crate, fully foamed padded. Carefully inspect the crate for damages during delivery. Open the crate immediately if any damages are observed. Document the damages through photographs and report to Solus Decor at once.

### ***Crate Check***

Customers are required to report any crate damages within 24 hours of receiving the crates.

### ***Contents Check***

Furthermore, it is the customer's responsibility to check it's contents within 48 hours from receipt of the shipment to check for content damages.

***Solus is not responsible for damages reported beyond these timelines.***

## GENERAL LIFTING GUIDE

### WARNING:

*These concrete products are heavy and bulky. Moving these concrete products may require multiple people. Refer to the table on the next page.*



Please note that only Hemi 36 and 48 bowls are provided with straps that act like a carrying harness.

| Product Type      | Lbs          | Kgs         | Number of Person Needed to Lift |
|-------------------|--------------|-------------|---------------------------------|
| Hemi 26           | 81           | 37          | 2                               |
| Hemi 36           | 156          | 71          | 2 (straps attached)             |
| Hemi 48           | 317          | 144         | 4 (straps attached)             |
| Halo 36 Low Base  | 76           | 35          | 2                               |
| Halo 36 Low Top   | 244          | 111         | 2-3                             |
| EHA 36 Box        | 230          | 105         | 2-3                             |
| EHA 36 Top        | 244          | 111         | 2-3                             |
| Halo Low 48 Base  | 75           | 34          | 2                               |
| Halo Low 48 Top   | 526          | 239         | 5                               |
| EHA 48 Box        | 230          | 105         | 2                               |
| EHA 48 Top        | 526          | 239         | 4-5                             |
| Firetable Base    | 74           | 34          | 2                               |
| Firetable Box     | 243          | 110         | 2-3                             |
| Firetable Top     | 134          | 61          | 2                               |
| Firebox 30        | 243          | 110         | 2-3                             |
| Firecube with Lid | 156          | 71          | 2                               |
| Tavolo Base       | 75           | 34          | 2                               |
| Tavolo Box        | 243          | 110         | 3-4                             |
| Tavolo Top        | 410          | 186         | 4                               |
| Linear            | 148 per slab | 67 per slab | 2                               |



# INSTALLATION and OPERATION

## WARNING:

Installation and repair must be done by Licensed Gas Fitters. The fire pit must be inspected before use and at least checked or serviced annually by a qualified service technician. Cleaning may be required frequently as necessary. When a fire pit is not in use, an all-weather cover or metal top must be used to avoid water and moisture build-up and to protect the fire pit from environmental hazards.

- **Fire Pit Ratings** : Check the Output BTU Ratings of the fire pit and ensure the following requirements are followed

Gas Rating (LPG) :

**Inlet Gas Pressure :** **11"W.C. (27.37 mbar)(0.39 PSI)**

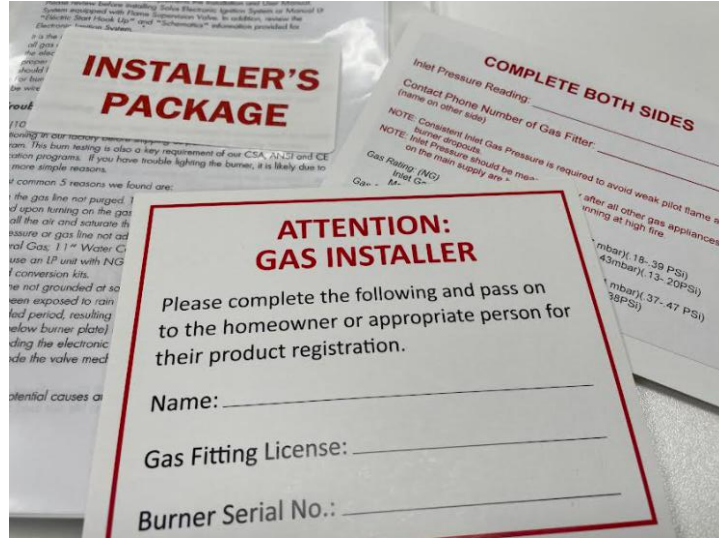
### Manifold Gas Pressure

| <u>Burner Ratings</u> | <u>Minimum Manifold Pressure Requirement</u> |
|-----------------------|----------------------------------------------|
| 60,000 BTU (17.58kW)  | 10.8"W.C. (26.8mbar) (0.39 PSI)              |

- **Inlet Pressure** : This is the input gas pressure coming from the main gas line going to the fire pit. Reading must be taken only after all other gas appliances on the main supply are on and running at full capacity.
- **Manifold Pressure**: This is the pressure at the manifold when the burner is on.
- **Gas Requirement** : Consistent **Inlet Gas Pressure** is required to avoid burner dropouts. ***THIS IS AN ABSOLUTE PRIORITY.*** The reading must be recorded and written on the installer's card and must be given to the owner/end user. Owner's must keep this card for future use and servicing. The readings must also be included in the product registration form (*page 25 of this manual*).

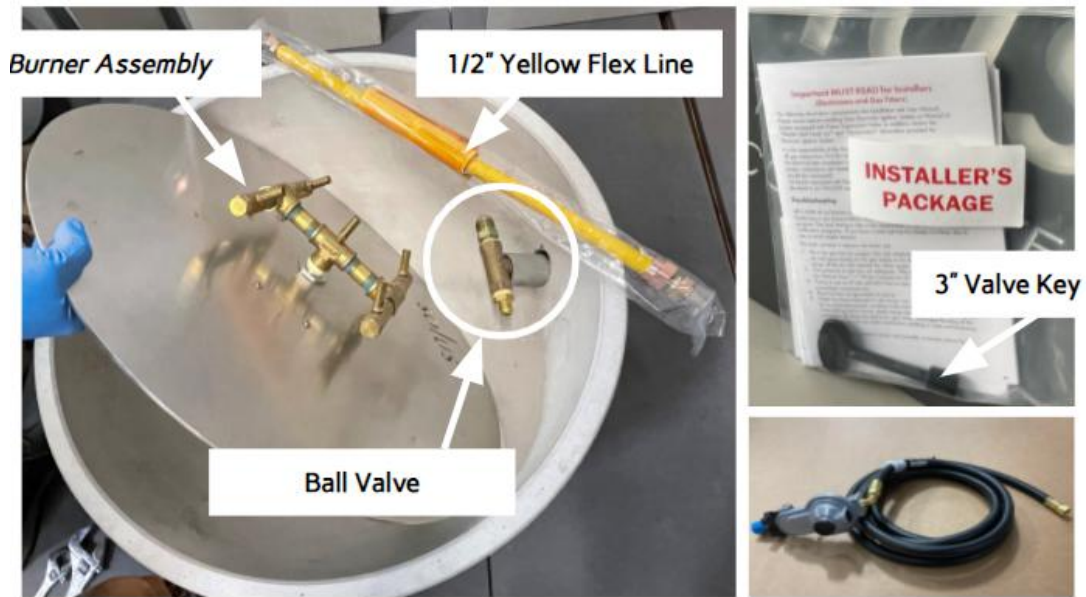






**Locate all the components**

- Installer's Package
- 3" Valve Keys
- 1/2" Yellow Flex Line
- Burner Assembly
- Concrete Bowl – Ball Valve
- Propane Kit : Gas Regulator with 15' hose (if ordered)



Propane Kit : Gas Regulator with 15' hose (if ordered)

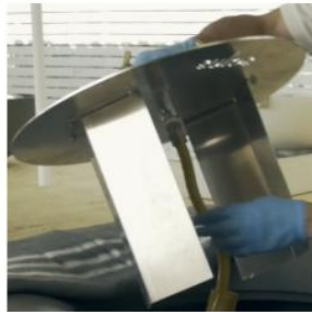
### Gas Connection

- Make sure that the LP bottle or tank is closed when connecting the gas lines.
- Locate the Ball Valve inside the concrete bowl/vessel. This valve is supplied with adaptor fittings at both ends
- Connect the one end of the yellow flex gas line (supplied) to one end of the Ball Valve and the other end to the burner manifold.
- Connect the end of the LP hose (supplied if ordered) to the end of the Ball Valve.
- For hard pipe connections: Use a flexible hose to connect the end of the hard pipe to the ball valve using the appropriate fittings.
- Test all gas piping and connections for leaks after gas connections
- Do not use an open flame to check for leaks.

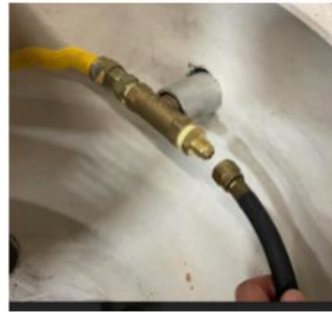
Gas Connection



Yellow Flex Line (One End)  
to Ball Valve



Yellow Flex Line (Other End)  
to Burner Manifold



Gas Supply Line to the  
Ball Valve



## WARNING:

*Do not place LP hoses under any wooden and concrete floors.*

### Operation



*inspired, designed, certified and proudly built in Canada*  
1.877.255.3146:info@solusdecor.com  
<https://www.solusdecor.com/>  
North America Only

Turning ON the MLS – LP System

- Read instructions very carefully.
- Remove any covers prior to operation.
- Confirm that the LP supply bottle or tank is open.
- Locate the Key Valve.
- By using the 3" Valve Key (supplied), turn the Ball Valve freely counter-clockwise.
- Apply a flame with a barbeque lighter to the closest nozzle on the exterior of the burner.
- Once lit, use the 3" Valve Key to adjust the flame to desired height.



Turning OFF the MLS – LP System

- By using the 3" Valve Key (supplied), turn the valve freely clockwise.
- Make sure flame is totally out
- If using a LP bottle or Tank, turn the shut off valve to closed
- Allow the burner to cool down before installing the cover, if available.

***Purging***

Sometimes, due to in-activity or if the fire pit just came out of the box or just completed a service, there is a good chance that the system won't detect any gas flow. This is due to the presence of unwanted air or water in the system. Purging is the process of displacing gas/air/water inside the system with LPG. To purge air out of the line, turn the ball valve counterclockwise to open and observe any vapour coming out of the burner nozzles. Once vapour is observed, this means gas flow is already initiated. Apply a flame with a barbeque lighter to the closest nozzle on the exterior of the burner.

## MEDIA INSTALLATION

### WARNING:

Do not install any refractory stones (decorative river rocks) or lava rocks that are not supplied by Solus Decor. Landscape stones and other natural materials may explode when heated.



*Lava Rock*



*Refractory Stones*

### WARNING:

Do not dump media over the burner and or the nozzles.



**Lava Rock Bed**

Cover the entire burner plate with lava rock. Add enough layers of lava rocks until it reaches the underside of the burner. *Do not cover the nozzles with lava rocks.* Make sure no dust or other particles are inside the nozzles prior to lighting.

Keep the jets free and clear of any refractory stones and lava rocks.



**Refractory Stone Placement**

A small pool of decorative concrete refractory river rocks should be placed on and around the burner. Make sure that no rocks are blocking any of the burner nozzles. Rearrange these stones around to deflect flame into a natural appearance, this is referred to as Flame Sculpting.



## GENERAL CARE AND MAINTENANCE

### KEEP THE FIRE PIT COVERED WHEN NOT IN USE

Ensure that gas and power (when applicable) are shut off and the fire pit is cool before performing any service and maintenance.

We recommend that a qualified service technician performs the following maintenance procedure at the beginning of each fire pit season.

### ***Cleaning the Burner Nozzles***

Periodic check, inspection and cleaning of the burner assembly is recommended. This is to avoid unusual and unwanted flame behaviour as well as ignition failure. To clean the burner nozzles, remove the refractory stones and lava rocks to allow access to the burner. Use a scotch green pad or 320 grit sandpaper or a brush to scrape soot and remove any dust, spider web or any particles. To check for nozzle clogs, use a small paper clip or needle and carefully insert in the burner nozzles. Remove any clogs if any.

## **END OF THE SEASON CHECKLIST**

When the fire pit is not going to be used for months (although it can be enjoyed year round), it is important to follow this end of the season checklist.

### ***Shut off Main Gas Supply***



### ***Accessories***

Remove all accessories like wood tops, glass shield and propane kit and store indoors



### ***Unwanted debris***

Check and remove any unwanted debris that can affect the look of your concrete fire pit.



***Clean exterior of the fire pit***

Moisture, dirt, dust and other surface contaminants must be wiped and cleaned. Use warm water and soapy water.

***Cover your firepit***

This is to protect your investment.



## **START OF THE SEASON CHECKLIST**

The end of the season checklist is developed so fire pits can be used when the next opportunity happens. If the recommendations were followed, this fire pit should be as good as ready.

***Remove Cover.***

Solus provided all-weather covers are water resistant. Check the burner/nozzles and media for moisture. If they are wet, allow the components to dry. Please see the troubleshooting guide for instructions.

***Inspect Gas and Supply Lines.***

Inspect all gas connections prior to operation. Treat this as a new installation. Look for debris and kinks along the gas lines.

***Inspect Burner.***

A clogged and dirty burner nozzle can cause so many different issues. It restricts and blocks gas flow. Check and clean each nozzle when necessary. Water inside the nozzles can also

cause the same issue. If water is suspected to have entered the burner and the piping system, contact a licensed gas fitter to drain water from the system.

**Test Run.**

If this fire pit wasn't used for more than one month, please treat this as a new installation and follow the "Turning on" instructions in this manual. Purging of air might be needed.

**Clean the exteriors.**

Clean the fire pit's exterior and get ready to enjoy another season of outdoor living. Use a hot soapy water, let it dry, then apply a stone sealer or enhancer (available in most DIY shops). Caution : Apply/Test on a small area before applying fully.

## TROUBLESHOOTING

**WARNING:**

*Turn off the fire pit and let it cool before servicing. Only qualified technicians should service and repair the fire pit.*

| Manual Lit System - Common Issues                         |                                                                       |                                                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Issues                                                    | Possible Causes                                                       | Solutions                                                                                                                                                         |
| No Flame                                                  | Key Valve Closed                                                      | Open ball valve to allow gas flow                                                                                                                                 |
|                                                           | Main Gas Supply Valve Closed                                          | Open Main Gas Supply Valve                                                                                                                                        |
|                                                           | Air in the line                                                       | Purge air from the line/check installation manual                                                                                                                 |
|                                                           | Water and moisture in the line                                        | Vacuum the nozzles to remove moisture/or alternatively, use a hair dryer                                                                                          |
| Weak or Low Flame                                         | Low Gas Pressure                                                      | Verify Gas Pressure/ Check LP Tank                                                                                                                                |
| One or more nozzles not lighting or weaker than the other | Clogged or Dirty Burner Nozzles                                       | Clean nozzles and check for obstruction                                                                                                                           |
|                                                           | Mismatched nozzles used                                               | Check and compare nozzles, replace with correct nozzles if needed                                                                                                 |
| Burner excessively noisy / Whistling                      | Too much gas pressure/presence of kinks and bends along the gas lines | Contact a technician. Verify Inlet Gas Pressure is within recommended ranges, check regulator settings if supplied, adjust accordingly. Check for kinks and bends |
| Unwanted Odours                                           | Gas Leak                                                              | Shut off gas supply and call a technician                                                                                                                         |





## WARRANTY INFORMATION

Solus warrants that each Solus Fire Pits conforms to CSA, ANSI, CE and UKCA standards for *Outdoor Decorative Gas Appliance*. All concrete products are professionally inspected and passed Solus' above industry quality standard, and each and every gas burner burned and fire tested prior to leaving the Solus facility in Vancouver.

This warranty is voided if the fire pit is not installed by a licensed technician and/or if not maintained and operated according to the installation and user's manual. This warranty is also voided if product is modified, altered and tampered with and if a third-party parts and components were used during repair and maintenance.

***Warranties are limited to the original purchaser only.***

### ***Upon Receipt of the Crate***

Solus spares no expense on packaging these fire pits. They are crated and packed to museum quality standards. However, things can happen along the way. The purchaser, upon receipt of the crate, must visually inspect the crate for damages. Report any crate damages to Solus within 24 hours. Additionally, the content of the crate must be visually inspected within 48 hours. Report to Solus immediately. Solus is not responsible to any damages not reported beyond the specified timelines

### ***Parts Only Limited Warranty***

Solus will, at its election, repair or replace the part or product where Solus inspection discloses any such defect occurring with normal usage. Solus will replace all warranted parts free of charge. Client is responsible for the cost of shipping, duties and custom charges when applicable as well as the service and labour cost, re-installation and disposal of the replaced parts and components.

**Solus does not provide onsite repair, visits or service.**

This warranty does not cover damages to parts and products caused by inappropriate or improper installation, unauthorized modifications to the burner, vessel and parts, and improper maintenance such as failure to put the all-weather cover or metal top when fire pit is not in use.

### ***Concrete Vessels Limited Warranty***

Solus concrete products weather and tarnish through exposure to natural elements over time. This naturally occurring process is called Patina.



It is a very rare occasion that a vessel will fracture. Solus will replace cracked and broken concrete vessels resulting from structural defects. Client is responsible for any costs associated with crating, shipping, handling, re-installation labour or disposal of replaced products or components.

Non-structural hairline and spider web-like cracks, surface air voids, chips, scratches and abrasions or minor dimples will not affect the quality and performance of the fire pit therefore shall not be covered by this Warranty. Damages due to excessive loads, for example: Solus fire tables and bowls are not designed for seating purposes and are also not covered by this Warranty.

Any slight variation from the samples received, surface discoloration, texture changes and stains due to exposure to elements like salts, acids, birds droppings, insects, spilled drinks, greasy food and other harmful liquids also is not covered by this Warranty.

**General Exclusions**

This Warranty also excludes damages to the fire pit occurring due to accident, fire exposure, damages caused by wind and flooding, vandalism, ground movement, neglect, misuse and abuse.

**Warranty Summary**

| Type                          | Components                                          | No cover or metal tabletop purchased | Solus All-Weather cover and/or metal tabletop purchased |
|-------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------------|
| Manual Ignition Fire Features | Brass Burner and brass fittings<br>Concrete Vessels | 5 years<br>1 year                    | 25 years<br>5 years                                     |



## PARTS LIST

| Parts Number | Parts Description                                |
|--------------|--------------------------------------------------|
| P02085       | 3" Key                                           |
| P02185       | Ball Valve                                       |
| P01985       | Ball Valve & Flange                              |
| P02180       | 1/2" Yellow Flex Line (36")                      |
| P02182       | 1/2" Yellow Flex Line (26")                      |
| P01814       | Propane Kit: Gas Regulator with 15' hose         |
| P01990       | Burner Nozzles (LP 10K)                          |
| P01995       | Burner Manifold (LP) 60,000 BTU - 4 NZ crossfire |
| P02076       | Solus (LP) MLS Burner Package                    |
| A01816       | LP to NG / MLS Conversion Kit                    |
| P02023       | Quick Connect Assembly                           |

## ACCESSORIES

### *All Weather Covers*



*Metal Table Tops*



*Hardwood Table Tops*





*Fire Stones*



*Glass WindShields*



*Tank Table*



# PRODUCT REGISTRATION

Thank you for purchasing a Solus Firepit! To protect your investment, please register your fire pit within 30 days of installation. Please supply all the required information at the time of installation. As noted in our Limited Product Warranty, professional registration number and gas pressure and input voltage readings are required to engage a warranty claim in the unlikely event that one is necessary.

**CONTACT INFORMATION:**

Name: \_\_\_\_\_ Organization/Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email: \_\_\_\_\_

**PRODUCT INFORMATION: (please retain proof-of-purchase)**

Order #: \_\_\_\_\_ Firepit Model: \_\_\_\_\_ Fuel type:  Natural Gas  Propane  Ethanol

Ignition type:  Manual Light  Manual Light w/Flame Supervision Valve  Automatic (Electronic)

Date purchased: \_\_\_\_\_ Date of Install: \_\_\_\_\_

Product purchased:  Solus directly  Specifier / Contractor  Reseller

BURNER SERIAL # \_\_\_\_\_

Gas Fitter Name: \_\_\_\_\_ Gas Fitter Registration #: \_\_\_\_\_

Gas Fitter Signature: \_\_\_\_\_ Date Signed: \_\_\_\_\_

Inlet Gas Pressure Reading : \_\_\_\_\_ Test Completed : Yes \_\_\_\_\_ / No: \_\_\_\_\_

How to submit the completed Product Registration Form?

North America - Return to:

Solus Decor Inc  
 Building C- 109 Braid St  
 New Westminster, BC V3L 5H4  
 Canada  
 Or scan and email to [info@solusdecor.com](mailto:info@solusdecor.com)  
 Or complete online at: [www.solusdecor.com/warranty](http://www.solusdecor.com/warranty)



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 1.877.255.3146: [info@solusdecor.com](mailto:info@solusdecor.com)  
<https://www.solusdecor.com/>  
 North America Only