



## Gas Connector Installation Instructions for Moveable Equipment Featuring the Blue Hose with StressGuard™ Technology

**WARNING** Please read the following instruction booklet carefully. Failure to fully read instructions and follow the cautions and warnings could result in severe injury or death.

### CAUTIONS AND WARNINGS

1. The installation **MUST BE** in compliance with the National Fuel Gas Code (ANSI Z223.1) and all local gas installation codes.
2. Installation and testing **MUST BE** performed by qualified personnel. Ensure that the gas supply and all the appliance control knobs are turned off before connecting to the gas supply.
3. Gas outlet shall be in same room as appliance and the connector must not be concealed within or run through any wall, floor, or partition. Flexible gas connections shall not come into contact with surfaces at temperatures in excess of 110°C (230°F), sharp edges or wiring.
4. The final assembly shall be tested for leaks. CAUTION: Open flame or other sources of ignition shall not be used for this purpose. Leak test solutions may cause corrosion. **WATER RINSE AFTER TEST.** To check gas supply piping system for leakage, see National Fuel Gas Code Z223.1, NFPA 54 or CSA B149.1, Natural Gas and Propane Gas Installation Code. If odor of gas is detected, turn off the gas to the appliance and have a qualified professional correct the source of the leak.
5. **WARNING: STRONG CLEANING SOLUTIONS OR CHEMICAL SUBSTANCES MUST NOT COME IN CONTACT WITH THE CONNECTOR.** These may include acids, solvents, fluxes with zinc chloride, or other chlorinated chemicals. In case of contact, rinse down the connector with water and dry thoroughly.
6. An accessible manual shut-off valve must be installed at the outlet of the gas supply piping system upstream of the connector.
7. Contact with foreign objects, wiring or substances shall be avoided.
8. Avoid movement after installation on fixed appliances.
9. Bending and flexing of connectors on moveable appliances (e.g. those factory equipped with casters) should be limited to pulling and pushing the appliance in or out for cleaning or maintenance.
10. Connectors are for use only on piping systems having fuel gas pressure not in excess of 1/2 psi (3.5 kPa) for the US and 1 psi (7kPa) for Australia. Flexible connections are suitable for use with 1st, 2nd and 3rd family gases only on piping systems operating at a pressure not exceeding 50 mbar.
11. **DO NOT REUSE FOR ANOTHER APPLIANCE OR AT ANOTHER LOCATION.**
12. In addition to the main gas supply shut-off valve, an approved accessible manual gas shut-off valve **MUST BE** installed upstream of the gas connector (within 6 feet of the equipment it serves). Each piece of equipment must have its own shut-off valve. **DO NOT USE** the quick-disconnect coupling as the primary gas shut off.
13. **WARNING: The quick disconnect MUST BE INSTALLED so that the gas enters the coupling half and exits the nipple half. You must follow the flow direction arrows that are permanently marked on the coupling.**
14. **NEVER INSERT** screwdrivers, probes, etc. into the quick disconnect coupling. The valve seat can be damaged or forced off center.
15. The connector shall not be kinked, twisted, or torqued when installed.
16. Make sure that all fittings are tightened properly. When installing Safety System® gas connector, two 14 inch adjustable wrenches (minimum size) are recommended as installation tools.
17. Adequate means must be provided to limit the movement of castered appliances. A restraining device is **REQUIRED** for all types of moveable gas appliances. (ANSI Z223.1 & ANSI Z21.69).
18. The recommended restraining device for castered appliances is Dormont's Restraining Device. Installation instructions for this Dormont product are part of this booklet. This "restrainer" should be inspected as part of the regular maintenance and safety procedures. Restraining cable **MUST BE** connected at all times when appliance is in use. Follow the instructions on page 4.
19. When installing an equipment line-up with dual fed front manifold gas inlets, **DO NOT use a quick-disconnect coupling.**
20. For installations that require greater mobility, Dormont SwivelMAX™ gas connector assemblies are recommended.
21. Appliance **MUST BE** disconnected prior to maximum movement. Warning: **DO NOT OVEREXTEND** the gas connector assembly. When moving equipment (for cleaning, maintenance, etc.), follow the instructions on page 8.
22. This connector complies with the standard for connectors for moveable gas appliances ANSI Z21.69/CSA 6.16.



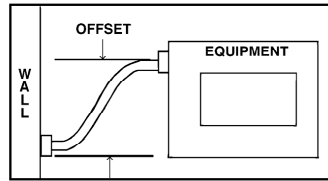
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Dormont Manufacturing Company Export, PA 15632 USA

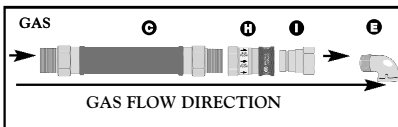
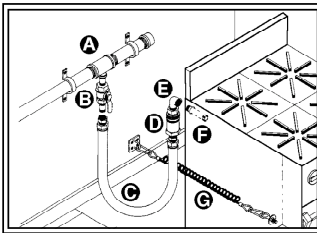
## INSTALLATION INSTRUCTIONS (FIGURE 1)

- Before proceeding, **CAREFULLY** read this full set of instructions, including the **CAUTION AND WARNINGS** section also the **INSTALLATION RIGHTS AND WRONGS** section of this instruction booklet.
  - The manual gas shut off ball valve (B), located in the gas manifold line (A), must be in the fully closed (off) position. If there is no gas shut-off valve in the manifold line, the main gas supply line valve (not shown) must be turned off. **DO NOT CONTINUE UNLESS THE GAS IS TURNED OFF.**
  - Remove the gas connector and contents from the bag or box.
  - The location of the two connection end points for the gas appliance connector, the gas supply line and the equipment stub-out – can vary greatly. It is not practical to show every possible installation combination. These instructions include several examples of common installations. The installer must always take great care to ensure that the connector is not kinked, twisted or torqued when installed - and that the end fittings of the connector are not subjected to sharp bends. (Please refer to Installation Rights and Wrongs). For installations that may result in a sharp bend, Dormont SwivelMAX™ gas connectors are recommended.
  - It is recommended that the main gas supply manifold be located 24"-30" off the ground. There should be pipe tees pointed in the downward direction.
  - To facilitate moving equipment as close to the wall as possible, the two ends of the Dormont gas connector should be offset to the side from each other. (See Drawing 1).
  - Each piece of equipment **MUST** have its own approved manual shut-off valve. If there is not an accessible manual gas shut-off valve for each piece of equipment, make sure that the gas has been shut off at the main gas shut-off valve for each piece of equipment before continuing.
- 8. MANUAL SHUT-OFF VALVE INSTALLATION:**
- Female x Female valve ends**
- If the pipe tee is a male thread: Apply thread sealant (pipe dope) or thread tape to accessible pipe threads located at the gas supply line. Thread the gas shut-off ball valve onto the male iron pipe and tighten wrench tight. Locate ball valve as close as you can to the manifold leaving enough clearance to turn on and off. Preferred valve position is vertical. (see Figure 1).
  - If the pipe tee is a female thread: Apply thread sealant (pipe dope) or thread tape to the threads of a pipe nipple (not supplied/preferred length is three inches). Thread pipe nipple into female pipe tee off main gas line. Then thread the shut-off valve onto the pipe nipple and tighten wrench tight.
- 9. WARNING: The SnapFast™ Quick-Disconnect coupling (D) MUST BE oriented so that the gas enters the female (valved) coupling half and exit the male nipple half. FOLLOW the flow direction arrows permanently marked on the coupling.**



**Drawing 1 - offset**

**FIGURE 1**



**Figure 1 a**

### OPTION 1

#### *SnapFast™* QD Device Installed at the Appliance:

This installation method, commonly used in North America, shows the quick-disconnect coupling attached at the appliance side. The nipple **MUST** always be on the appliance side, attached to the appliance stub-out or external regulator. This enables the operator to move the equipment away from the wall in an equipment line-up and safely disconnect the gas connector from the back side of the appliance.

- |   |   |
|---|---|
| <b>A</b> Gas Supply Line (Gas Manifold) | <b>F</b> Appliance Male Stub-Out            |
| <b>B</b> Gas Shut-Off Ball Valve        | <b>G</b> Restraining Device                 |
| <b>C</b> Safety System™ Gas Connector   | <b>H</b> Quick-Disconnect Coupling (female) |
| <b>D</b> SnapFast™ Quick-Disconnect     | <b>I</b> Quick-Disconnect Nipple (male)     |
| <b>E</b> 90° Street Elbow               |   |

9a. **NOTE:** There are two options for the orientation of the quick-disconnect couplings: **OPTION #1– quick-disconnect at the appliance.** **OPTION #2– quick-disconnect at the piping system.**

**10. OPTION #1: Quick-Disconnect attached at the appliance side (Refer to Figure 1).**

**Gas Supply Side:**

- A. Apply thread sealant (pipe dope) or thread tape to the threads at one end of the gas connector.
- B. Thread this end of the gas connector into the gas shut-off valve and tighten with wrenches.

**Appliance Side:**

- C. Apply thread sealant (pipe dope) or thread tape to the appliance's male stub-out (F), and thread street elbow (E) onto male stub-out, and tighten with wrenches. The location of both the equipment stub-out and the tees for the gas supply line manifold can vary greatly.
- D. Apply thread sealant (pipe dope) or thread tape to male street elbow (E) threads.
- E. Separate the quick-disconnect coupling male end or nipple (I) from the female end or coupling (H). Thread the male nipple (I) onto the street elbow (E) and tighten. **NOTE:** The quick-disconnect **MUST BE ORIENTED** so that the gas enters the coupling half and exits the nipple half of the quick-disconnect. Installation personnel **MUST** follow the flow direction arrows permanently marked on the coupling.
- F. Apply thread sealant (pipe dope) or thread tape to the male threads of the gas connector. Thread quick-disconnect coupling onto the gas connector threads. Tighten.
- G. Connect quick-disconnect female coupling (H) to the male nipple (I). (**Figure 1 a**).
- H. Check tightness of all connections. Leak test in accordance with accepted testing procedures.
- I. After installation of the connector, carefully push the appliance back to its normal operating position. Check that the connector is not kinked, over bent, or caught under the equipment casters.

**11. OPTION #2: Quick-Disconnect attached at the gas supply line side—“Reverse Quick-Disconnect.” (Refer to Figure 2 on the next page).**

**WARNING:** If you decide to select an Option 2 installation (quick-disconnect at the gas supply side), the female coupling part of the quick-disconnect coupling must be upstream and attached to the gas supply.

**Gas Supply Side:**

- A. Apply thread sealant (pipe dope) or thread tape to the threads at one end of the gas connector.
- B. Thread the gas connector end into the quick-disconnect male nipple (K). Tighten with wrenches.
- C. Separate the quick-disconnect female coupling (J) from the male nipple (K). (I). (**Figure 2 a**).
- D. Apply thread sealant (pipe dope) or thread tape to the valve nipple.
- E. Thread the quick-disconnect female coupling onto the threads of the pipe nipple from the gas shut-off valve. Tighten with wrench.

**Appliance Side:**

- F. Apply thread sealant (pipe dope) or thread tape to the appliance's stub-out (F) and thread the elbow onto stub-out. Tighten.
- G. Apply thread sealant (pipe dope) or thread tape to the male threads of the street elbow. Insert male threads into f x f threaded coupling (not included).
- H. Apply thread sealant (pipe dope) or thread tape to the gas connector threads. Thread hose into the coupling. Tighten with wrench.
- I. Connect quick-disconnect male nipple (K) to the female coupling (J).
- J. Check tightness of all connections. Leak test in accordance with accepted testing procedures.
- K. After installation of the connector, carefully push the appliance back to its normal operating position. Check that the connector is not kinked, over bent, or caught under the equipment casters.

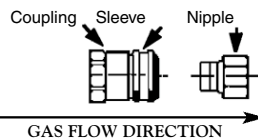
**SnapFast™**

**Operating Instructions**

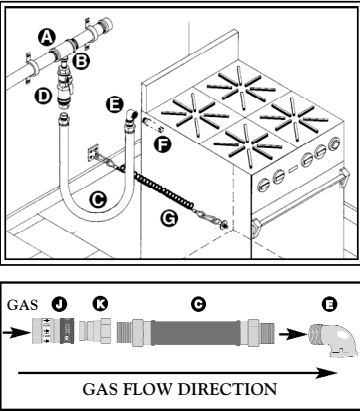
**TO CONNECT:** Push nipple straight into coupling until sleeve snaps forward against retaining ring. Open shut-off valve to turn on gas.

**TO DISCONNECT:** Close shut off valve to turn off gas. Retract sleeve and pull out nipple.

**IMPORTANT: COUPLING IS NOT TO BE USED AS THE PRIMARY SHUT OFF.**



**FIGURE 2**



**OPTION 2\***

**SnapFast QD Device Installed at the Gas Supply**

This installation method, commonly used in Europe, shows the quick-disconnect coupling attached at the gas supply side. The coupling **MUST** always be on the gas supply side, attached to the supply side piping. This enables the operator to move the equipment away from the wall in an equipment line-up and safely disconnect the gas connector from the gas supply line.

- A** House Pipe Inlet
- B** Full Port Gas Ball Valve
- C** Safety System™ Gas Connector
- D** SnapFast™ Quick-Disconnect Coupling
- E** 90° Elbow
- F** Appliance Male Stub-Out
- G** Restraining Cable
- J** Quick-Disconnect Coupling (female)
- K** Quick-Disconnect Nipple (male)

**Figure 2 a**

**Restraining Cable Installation Instructions**

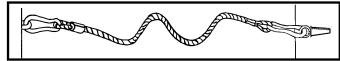
**This Restraining Device Must Always be Reconnected When the Appliance Is in Service**

The restraining device should be disconnected for movement, such as, servicing or cleaning, **only after gas has been shut off and the connector has been disconnected!** Reconnect restraining cable before reconnecting the gas connector and moving back to its original position.

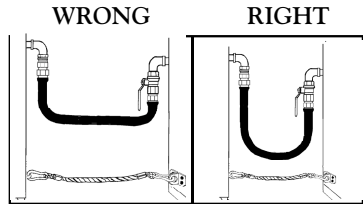
**RESTRAINING CABLE:**

1. Restraining Device should be installed parallel (in line with the gas appliance connector.)
2. Attach the staple bracket (C) to a stud in the wall, using the four 1" #10 screws (D) and the plastic anchors (E) if needed.
3. Locate a structural area (frame) on the rear side of the equipment that is in line with the wall attachment. Drill a 1/4" diameter hole. Use caution when drilling hole, so that internal components are not damaged.
4. Thread the hex nut (G) and a washer (I) onto the eye-bolt (F). Slide one washer onto the nut. Slide the eye-bolt through the drilled hole and place a washer (I) and the nylon lock nut (H) onto the eye-bolt on the inside frame of the equipment and tighten securely.
5. Attach one of the snap hooks (B) to the staple bracket on the wall (Step 2 above) and the other to the eye-bolt (Steps 3 and 4 above).

**Restraining Cable Installation**



- A - Restraining Cable with
- B - Two Snap Hooks
- C - Staple Bracket
- D - 1" #10 Screws (4)
- E - Plastic Anchors (4)
- F - Eye-Bolt
- G - 1/4" Hex Nut
- H - 1/4" Nylon Lock Nut
- I - 1/4" x 1 1/4" Washers (2)



Set the length of the restraining device so that the connector is not kinked when the restraining device is fully extended.

**Note:**

For adjustable restraining devices, the cable is manufactured to be shorter than the length of the gas connector.



## Installation Instructions for Gas Appliance Connector

### SWIVELMAX™ FITTINGS ARE DESIGN CERTIFIED FOR USE WITH DORMONT GAS CONNECTORS ONLY.

1. Do not conceal swivel within or run through walls, floors or partitions.
2. For use on piping systems having fuel gas pressures not exceeding 1/2 psig.
3. Install downstream of the gas supply piping manual shut-off valve ONLY.
4. Use thread sealant (pipe dope) only when installing a SwivelMAX™ fitting.  
DO NOT USE TEFLON TAPE ON THE SWIVEL.



### Single SwivelMAX™ Appliance Connection:

**NOTE:** The SwivelMAX™ is attached to the gas supply end of the connector.

#### Gas Supply Side:

- A. Apply thread sealant (pipe dope) to the threads at one end of the gas connector. Thread this end of the gas connector into the female threads of the SwivelMAX™ fitting.
- B. Apply thread sealant (pipe dope) to the male SwivelMAX™ threads. Thread this end of the gas connector into the female threads of the gas shut-off valve and tighten with wrenches.

#### Appliance Side: (Refer to Figure 1 and 1 a)

- C. Apply thread sealant (pipe dope) or thread tape to the appliance's male stub-out (**F-Figure 1**) and thread street elbow (**E**) onto male stub-out. The location of both the equipment stub-out and the tees for the gas supply line manifold can vary greatly.
- D. Apply thread sealant (pipe dope) or thread tape to male street elbow (**E**) threads.
- E. Separate the quick-disconnect (male) nipple (**I-Figure 1 a**) from the coupling (**J**). Thread the male nipple (**I**) onto the street elbow (**E**) and tighten. **NOTE:** The quick-disconnect **MUST BE ORIENTED** so that the gas enters the coupling half and exits the nipple half of the quick-disconnect. Installation personnel **MUST** follow the flow direction arrows permanently marked on the coupling.
- F. Apply thread sealant (pipe dope) or thread tape to the threads at the appliance end of the gas connector. Thread this end of the gas connector into the female threads of the quick-disconnect coupling (**H**). Tighten.
- G. Connect quick-disconnect female coupling (**H**) to the male nipple (**I**).
- H. Check tightness of all connections. Leak test in accordance with accepted testing procedures. Rinse.
- I. After installation of the connector, carefully push the appliance back to its normal operating position. Check that the connector is not kinked, over bent, or caught under the equipment casters.

### Double SwivelMAX™ Appliance Connection:

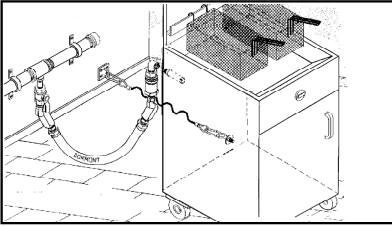
#### Gas Supply Side:

- A. Follow the Single SwivelMAX™ installation instructions (A-B).

#### Appliance Side:

- B. Apply thread sealant (pipe dope) to the male threads of the gas connector.
- C. Insert male ends of gas connector into female threads of the SwivelMAX™ fitting. Tighten
- D. Apply thread sealant (pipe dope) to the male threads of the SwivelMAX™.
- E. Insert male threads of SwivelMAX™ into the quick-disconnect coupler (female) of the SnapFast quick-disconnect fitting. Tighten with wrench.
- F. Continue installation following the Single SwivelMAX™ installation instructions (C-E and G-I).

## Installation Examples

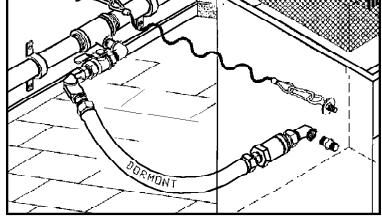


### **VERTICAL LOOP**

**Wall:** Medium Level Gas Supply  
**Equipment:** Rear High Inlet Connection

**RECOMMENDATION:**

*Dormont Double Swivel Kit Installation  
 Model #1675KIT2S48*



### **HORIZONTAL LOOP**

**Wall:** Floor Level Gas Supply  
**Equipment:** Rear Low Inlet Connection

**RECOMMENDATION:**

*Dormont Single Swivel Kit Installation  
 Model #1675KITS48*



## Installation Instructions for Gas Appliance Connector

### **Installing a Safety Quik™ Quick-Disconnect Protection Valve:**

**NOTE:** THE SAFETY QUIK™ QUICK-DISCONNECT PROTECTION VALVE IS THE GAS BALL VALVE THAT IS REQUIRED TO BE INSTALLED AT THE GAS SUPPLY MANIFOLD FOR EACH PIECE OF COOKING EQUIPMENT.

**DO NOT INSTALL AT THE EQUIPMENT END OF THE GAS CONNECTOR.**

IT MUST BE INSTALLED AT THE OUTLET OF THE GAS SUPPLY PIPING SYSTEM UPSTREAM OF THE CONNECTOR!

**Gas Side:**

- A. Apply thread sealant (pipe dope) or thread tape to the male threads of the drop off on the gas manifold.
- B. Make sure the handle of the Safety Quik shut-off valve is in the **OFF** position.
- C. Attach the Safety Quik valve to the male manifold drop. Tighten with wrench.
- D. Remove the nipple of the Safety Quik by pulling back on the safety sleeve collar when the valve is in the off position.
- E. Apply pipe dope or thread sealant tape to the male threads of the gas connector.
- F. Insert the male threads into the Safety Quik nipple. Tighten with wrench.

**Appliance Side:**

- G. Apply thread sealant (pipe dope) or thread tape to the appliance's male stub-out and thread street elbow onto male stub-out. The location of both the equipment stub-out and the tees for the gas supply line manifold can vary greatly.
- H. Attach threaded coupling, f x f (not included) to the street elbow. Tighten with wrench.
- I. Apply thread sealant (pipe dope) to the male threads at the appliance end of the gas connector. Tighten with wrench.
- J. Insert male gas connector threads into the female threaded coupling. Tighten with wrench.
- K. After installation, check gas connections for leaks in accordance with accepted testing procedures. Rinse off solution after test.

## How to Use the Safety Quik™ Quick-Disconnect Protection Valve

### TO DISCONNECT:

1. Turn the easy turn valve handle to the **off position** (*Diagram 1*). Handle should be perpendicular to the gas appliance connector.
2. Push the Safety Sleeve toward the handle. This will cause the unit to disconnect.

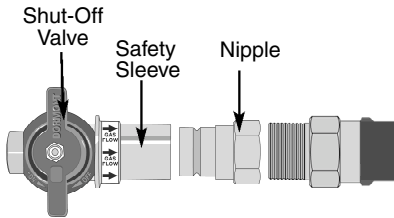
**NOTE:** The gas appliance connector cannot be disconnected until the valve is in the **off position**.

### TO RECONNECT:

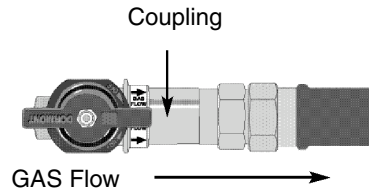
1. Firmly push the quick-disconnect nipple, attached to the gas appliance connector, into the coupling body (*Diagram 2*). This will allow the safety sleeve to return to its original position.
2. Turn the valve handle to the **on position** to allow gas flow to the appliance (parallel with the gas appliance connector).

**NOTE:** The gas valve cannot be turned to the on position until the gas appliance connector is properly attached.

(Diagram 1) *Off Position*



(Diagram 2) *On Position*



## Safety Quik™ with Double SwivelMAX™

- A. Apply thread sealant (pipe dope) to the threads of the gas connector at both ends. Insert the male threads of the gas connector into the female threads of the SwivelMAX™ fitting on each end of the connector.

### Gas Supply Side:

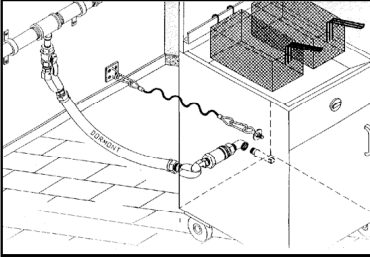
- B. Apply thread sealant (pipe dope) to the male threads of a SwivelMAX™ fitting. Separate the Safety Quik™ nipple (male) from the Safety Quik™ coupling (female). Thread the male end of the SwivelMAX™ into the Safety Quik™ nipple. Tighten.

### Appliance Side:

- C. Apply thread sealant (pipe dope) to the male stub-out of the appliance. Thread the street elbow onto the stub-out.
- D. Apply thread sealant (pipe dope) or thread tape to the male threads of the street elbow. Insert male threads into f x f threaded coupling (not included).
- E. Apply thread sealant (pipe dope) to the male threads of the SwivelMAX™. Insert threads into female threaded coupling. Tighten.
- F. Insert Safety Quik™ nipple into Safety Quik™ coupling to complete the connection.
- G. Check tightness of all connections. Leak test in accordance with accepted testing procedures. Rinse.
- H. After the installation of the connector, carefully push the appliance back to its normal operating position. Check that the connection is not kinked, over bent, or caught under the equipment casters.

# SwivelMAX™

## Combination Loop



**Wall:** High Level Gas Supply

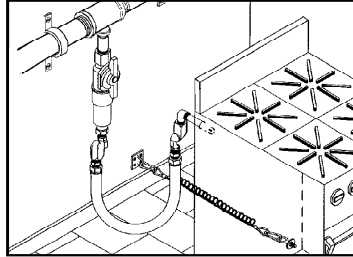
**Equipment:** Rear Low Inlet Connection

**Recommendation:**

Dormont Double SwivelMAX™ Kit  
Installation Model #1675KIT2S48

# Safety Quik™

## Installation



**Wall:** High Level Gas Supply

**Equipment:** Rear High Inlet Connection

**Recommendation:**

Dormont Safety Quik™ QD Protection  
Valve with Double SwivelMAX™ Fittings  
Installation Model #1675KITCF2S48

## Safety Quik™ with Single SwivelMAX™

- A. Apply thread sealant (pipe dope) or thread tape to the threads of the gas connector at one end. Insert the male threads of the gas connector into the female threads of the SwivelMAX™ fitting.

### Gas Supply Side:

- B. Apply thread sealant (pipe dope) or thread tape to the male threads of a SwivelMAX™ fitting. Separate the Safety Quik™ nipple (male) from the Safety Quik™ coupling (female). Thread the male end of the SwivelMAX™ into the Safety Quik™ nipple. Tighten.

### Appliance Side:

- C. Apply thread sealant (pipe dope) or thread tape to the male stub-out of the appliance. Thread the street elbow onto the stub-out.  
D. Apply thread sealant (pipe dope) or thread tape to the male threads of the street elbow. Insert male threads into f x f threaded coupling (not included).  
E. Apply thread sealant (pipe dope) or thread tape to the male threads of the gas connector. Insert threads into female threaded coupling. Tighten.  
F. Insert Safety Quik™ nipple into Safety Quik™ coupling to complete the connection.  
G. Check tightness of all connections. Leak test in accordance with accepted testing procedures. Rinse.  
H. After the installation of the connector, carefully push the appliance back to its normal operating position. Check that the connection is not kinked, over bent, or caught under the equipment casters.



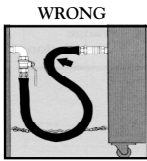
# Installation Rights and Wrongs

## WRONG

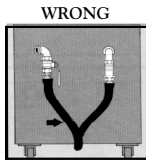
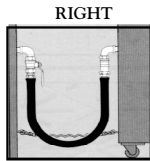
Avoid sharp bends and kinks when pulling equipment away from wall. Maximum pull will kink ends, even if installed properly, and reduce connector life.

## RIGHT

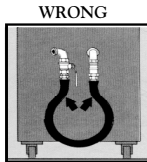
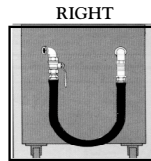
Minimum pull of equipment away from wall permissible for accessibility to Safety Quik™ Disconnect.



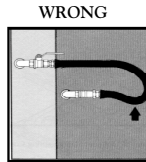
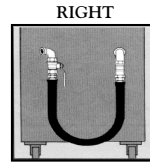
**SHARP BENDS:** Install metal hose for vertical traverse with a single, natural loop. Avoid sharp bends that strain and twist the metal hose to a point of early failure at the coupling.



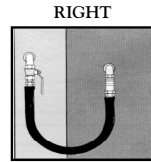
**TWISTING:** Couplings and hose should be installed in the same vertical plane. Failure to do so causes torsional twisting and undue strain causing premature failure.



**FATIGUE:** Maintain the minimum or larger bending diameter between the couplings creates double bends causing work fatigue at the fittings.



**SELF-DRAINING:** In all installations where "self-draining" is not necessary, connect metal hose in a vertical loop. Do not connect metal hose horizontally unless "self-draining" is necessary, then use support on lower plane.



Note: Appliance must be disconnected prior to maximum movement. Minimum movement is acceptable to leave connected.

Note: Never insert such objects as screwdrivers, probes, etc. into the SnapFast™ valve. The valve's seat can be damaged or forced off center.

**NOTE: Restraining Device is mandatory for all types of moveable gas appliances.**


CONNECTOR CAPACITY				
Straight Length Capacity - BTU per Hr (w)				
0.64 Sp Gr 1000 BTU per Cu. Ft. Gas at 0.5 in.				
Water Column Pressure Drop				
Nominal connector ID inches	2ft.	4ft.	6ft.	
1/2"	150,000	106,000	86,600	
3/4"	290,900	215,000	173,900	
1"	581,800	442,700	347,800	
1 1/4"	1,075,000	817,500	634,000	
CAPACITY WITH QUICK DISCONNECT DEVICE				
Nominal connector ID inches	2ft.	4ft.	6ft.	
1/2"	87,000	68,000	55,000	
3/4"	232,000	180,000	139,000	
1"	414,000	334,000	279,000	
1 1/4"	699,000	541,000	419,000	
CAPACITY WITH MANUAL SHUT-OFF VALVE				
Normal Connector ID inches	2 ft.	4 ft.	6 ft.	
1/2"	145,600	102,900	84,000	
3/4"	282,400	208,700	168,800	
1"	564,800	429,800	337,600	
1- 1/4	1,043,600	793,600	615,500	
NOTE: When using 0.2 water column pressure drop, capacity can be determined by multiplying the figures above by 0.632.				
For capacities at conditions other than noted, contact your servicing gas supplier.				

NOTE: Capacity was determined under test conditions specified by ANSI Z21.69

**Certifications**

<p><b>USA</b>      <b>CANADA</b></p>	<p><b>CANADA</b></p>	<p><b>USA</b></p>
<p>ANSI Z21.69/CSA 6.16 Metal Connectors for Moveable Gas Appliances.</p> <p>ANSI Z21.41/CSA 6.9 Quick Disconnect devices for use with gas fuel.</p> <p>ANSI Z21.15/CGA 9.1 Manually Operated Gas Valve for Appliances, Appliance Connector Valves and Hose End Valves.</p>	<p>CR-92-009 Swivel Connectors for use with Connectors for Moveable Gas Appliances.</p>	<p>Design certified to ANSI/U.L. 567, Pipe Connectors for Flammable and Combustible Liquids and LP-Gas. For use with natural gas and propane.</p>
		

**Approvals**

<p><b>USA</b>      <b>CANADA</b></p>	<p><b>USA</b></p>
<p>NSF International Criteria C-2 special equipment. (On PVC coated models only.)</p>	<p>Approved by the Commonwealth of Massachusetts Board of State Examiners of Plumbers &amp; Gas Fitters. Connector length may not exceed 36" and lever handle valves are not permitted.</p> <p>City of New York MEA# 274-02-E</p>
	

**Compliance**

<p><b>CANADA</b></p>	<p><b>USA</b></p>
<p>CSA B149.1 Natural Gas and Propane Installation Code.</p>	<p>ANSI Z223.1/NFPA 54 – National Fuel Gas Code.</p>

**Warranty**

**Warranties and Remedies**

- a. **Warranty.** Seller warrants to Buyer that it holds and will pass marketable title to the commercial gas connectors sold hereunder. Seller further warrants to Buyer that Seller's commercial gas connector will be free from defects in material and workmanship causing gas leakage during the life of the equipment to which the commercial gas connector is originally connected or installed. Seller warrants to Buyer that the items and components manufactured by Seller other than commercial gas connectors will be free from defects in material and workmanship for a period of five (5) years from tender of delivery to Buyer. For items not manufactured by Seller, the only warranty extended is that of the manufacturer or suppliers, if any.
- b. **Exclusions and Conditions.** Seller's obligations with respect to the express warranties and remedies contained herein are conditioned on the following: (i) Seller's liability and Buyer's exclusive remedy is expressly limited to Seller's replacement of the defective gas connector or other goods at Seller's cost (excluding labor and freight); it being understood such replacement will be made only upon return of the defective item in accordance with Seller's shipping instructions and return authorization and subject to Seller's inspection; (ii) Buyer shall not assign its rights under these express warranties and any attempted assignment shall render such warranties, but not any disclaimers or limitations, void and the goods shall be sold AS IS; and (iii) all com-

mercial gas connectors and other goods shall be carefully inspected for damage by Buyer upon receipt, be installed by individuals trained and certified as professionals with respect to such installation, and be installed, used, repaired and maintained by Buyer in accordance with local codes or regulations, standards set by American National Standard Institute and/or American Gas Association Standards. The commercial gas connectors and other goods shall be warranted in conjunction with the original installation only and the express warranties and remedies contained herein shall not apply to, and shall be void and of no further force or effect upon, damage and/or failure of the commercial gas connectors and other goods caused by or resulting from shipping; improper or unauthorized handling, installation, alteration or repair; misuse, abuse or other occurrences or conditions other than normal use thereof; application or conformity to local codes or regulations not previously made known to Seller; or accident or other casualty.

**Disclaimer of Implied Warranties**

Seller gives no warranties except those expressly contained herein. Seller disclaims all other warranties implied by law, usage of the trade, course of dealing or course of performance including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**Conditions**

**Limitations of Liability.**

The following limitations of Seller's liability are acknowledged by the parties to be fair and reasonable and shall apply to any act or omission hereunder, and to any breach of this contract of which these terms and conditions form a part.

**Disclaimer of Damages**

In no event shall seller be liable for special, indirect, consequential or incidental damages, whether arising under contract, warranty, tort, negligence, strict liability or any other theory of liability. Such damages include but are not limited to loss of profits, loss of use of the goods, damage to property, and claims of third parties. Some states do not allow the exclusion or limitation of incidental or consequential damages, or any limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you

specific legal rights, and you may also have other rights which vary from state to state.

**Notice and Time of Claim**

- (i) Buyer agrees to check and inspect all products against shipping papers and for damage or shortage upon receipt of goods at destination; (ii) Every claim for loss, damage in transit, or other cause visible upon inspection shall be made with carrier. Claims for shortage must be made within five (5) days of receipt; (iii) The parties expressly waive the statute of limitations and agree that any legal proceeding for any breach of this contract shall be waived unless held within two (2) years after the accrual of the cause of action therefor.



## INSTALLATION FOR DUAL-FED FRONT MANIFOLD EQUIPMENT LINE-UP

WHEN INSTALLING AN EQUIPMENT LINE-UP WITH DUAL-FED FRONT MANIFOLD GAS INLET:

Do not use a *Safety Quik*™ or *SnapFast*™ quick-disconnect coupling for this type of installation!

The use of a quick-disconnect coupling for this installation may be dangerous and is not recommended.

### WARNING!

Unless upstream gas shut-off valves on both inlet lines are completely closed, the uncoupling of one quick-disconnect will result in an open gas flow.

A Safety System™ flexible gas connector(s), without the quick-disconnect coupling may be used.

All installation instructions in this booklet describe installations that exclude the use of an external appliance gas regulator. If one is required, thread the regulator onto the appliance stub-out prior to installing the street elbow. Afterwards, thread the female threads of the regulator and street elbow using a male-to-male pipe nipple. Once complete, continue installation according to the remaining instructions.

## Recommended Operating Instructions: Cleaning Behind Equipment

### I. Disconnecting the Gas Line

- 1) Turn off the equipment.
- 2) Carefully pull the equipment away from the wall, stopping when the restraining cable is taut.
- 3) Shut-off the gas supply by turning the lever on the gas ball valve (located off the main manifold line) to the “off” position. Unplug any electrical cords.
- 4) Disconnect the gas line by pulling back the sleeve of the quick-disconnect coupling. Be careful not to drop the coupling on the floor, which may damage the unit.
- 5) Detach the snap-hook of the restraining cable.
- 6) Carefully pull the equipment away from the wall.
- 7) Clean behind the equipment, making sure no foreign substance, grease, cleaning solution or dirt enter the quick-disconnect coupling or gas line.

### II. Reconnecting the Gas Line

- 1) Reattach the quick-disconnect coupling by inserting the plug (nipple) end into the coupling.
- 2) Reattach the restraining cable.
- 3) Reattach any electrical cords.
- 4) Turn the lever on the gas ball valve to the “on” position.
- 5) Carefully push the equipment back towards the wall, be sure that the gas connector is not twisted or kinked in a severe angle. Check that the gas connector is not damaged or crushed by the equipment rolling over it.
- 6) If required, relight the pilot light. Turn the equipment on.

## Dormont Engineering Support

The Dormont Engineering team is available to help with the design and layout of foodservice equipment installations. We can design the proper gas connection to work with your equipment and kitchen requirements.

Dormont has worked with consultants, national chains, and equipment manufacturers to solve tough gas installations problems.

The previous CAD drawings are just a few examples of the kind of technical support we can provide. Contact one of our Customer Service Specialists at 1-800-DORMONT (367-6668), for details.

## Return Policy

No returns are to be made to Dormont Manufacturing Company without first obtaining a return authorization number. Absolutely no returns will be accepted or credited without this prior approval. Returns will be subject to a 25% restocking charge plus any transportation charges incurred.

# WARNING Canadian Installation Instructions

The quick disconnect must be installed so that the gas enters the coupling half and exits the nipple half. You must follow the flow direction arrows that are permanently marked on the coupler

- The gas outlet must be in the same room as the gas-fired equipment and the connector must not be concealed within or run through any wall, floor or partition.
- All parts of the union supplied with the connector must be used, and no attempt shall be made to assemble union nuts directly to pipe threads.
- The connector must not be kinked, twisted or torqued.
- Connectors are for use only on piping systems having fuel gas pressures not in excess of 1/2 psi (3.5 kPa).
- For moveable appliance installation (e.g., appliances factory-equipped with casters), flexing and bending should be limited to the needs of pulling and pushing the appliance in and out for cleaning, maintenance or installation. For fixed appliance installation, connector movement after installation should be avoided.
- Contact with foreign objects or substances must be avoided.
- An accessible manual shutoff valve must be installed at the outlet of the gas supply piping system upstream of the connector.
- The final assembly must be tested for leaks. **Caution:** Matches, candles, open flame or other sources of ignition shall not be used for this purpose. Leak test solutions may cause corrosion—water rinse after test. To check gas supply piping system for leakage, see the *National Fuel Gas Code, ANSI Z223.1* or *CAN/CGA-B149.1, Natural Gas Installation Code*, and *CAN/CGA-B149.2, Propane Installation Code*.
- The connector complies with the Standard for *Connectors for Moveable Gas Appliances, ANSI Z21.69-CGA 6.16*.
- A restraining cable **MUST BE** connected at all time when appliance is in use.

**Connector Capacity** – Straight Length Capacity - BTU per Hr 0.64 SG., 1000 BTU per Cu. Ft. Gas at 0.5 in. Water Column Pressure Drop

Nominal Connector I.D. Inches	2ft.	4ft.	6ft.
1/2"	150,000	106,000	86,600
3/4"	290,900	215,000	173,900
1"	581,800	442,700	347,800
1-1/4"	1,075,500	817,500	634,000

**Note:** When using 0.2 water column pressure drop, capacity can be determined by multiplying the figures above by 0.632. For capacities at conditions other than noted, contact your servicing gas supplier.

Straight Length Capacity - BTU per Hr. 0.64 SG., 1000 BTU per Cu. Ft. Gas at 0.5 in. Water Column Pressure Drop

Nominal Connector I.D. inches	2ft.	4ft.	6ft.
1/2"	87,000	68,000	55,000
3/4"	232,000	180,000	139,000
1"	414,000	334,000	279,000
1-1/4"	699,000	541,000	419,000

**Note:** Capacity was determined under test conditions specified by ANSI Z21.69.

## Avertissement : Instructions de montage au Canada

- La sortie de gaz doit se trouver dans la même pièce que l'appareil à gaz et le connecteur ne doit pas être masqué par un mur, le sol ou une cloison, ni traverser une de ces structures.
- Utiliser toutes les pièces du connecteur union fournies avec le connecteur et ne pas essayer de monter les écrous du connecteur union directement aux filetages au pas de gaz.
- Ne pas couder, tordre ou serrer au couple le connecteur.
- Les connecteurs ne doivent être utilisés qu'avec des tuyauteries dont la pression de gaz combustible ne dépasse pas 3.5 kPa (0.5 psi).
- Pour l'installation d'un appareil mobile (par exemple les appareils équipés en usine avec des roulettes), le pliage et le cintrage doivent se limiter à tirer et à pousser l'appareil lors du nettoyage, de l'entretien et du montage. Dans le cas d'un appareil fixe, éviter de déplacer le connecteur après le montage.
- Éviter tout contact avec une substance ou un corps étranger.
- Installer un robinet de fermeture manuelle accessible à la sortie de la tuyauterie d'alimentation de gaz, en amont du connecteur.
- Des essais doivent être effectués pour vérifier que l'ensemble est étanche. **ATTENTION:** ne pas utiliser d'allumette, de bougie, de source d'inflammation à flamme nue ou autre à cet effet. Les solutions pour essai d'étanchéité peuvent être à l'origine de corrosion - rincer à l'eau après l'essai. Pour vérifier l'étanchéité de la tuyauterie d'alimentation de gaz, voir le *National Fuel Gas Code [Code national de gaz combustible]*, *ANSI Z223.1* ou *CAN/CGA-B149.1, Natural Gas Installation Code [Code d'installation du gaz naturel]*, et *CAN/CGA-B149.2, Propane Installation Code [Code d'installation du propane]*.
- Ce connecteur est conforme aux dispositions de la norme *ANSI Z21.69 - CSA 6.16*, intitulée *Connectors for Movable Gas Appliances*.
- Un câble de retenue doit être fixe en tout temps lorsqu'on utilise l'appareil.

**CAPACITÉ DU CONNECTEUR** – Capacité d'une section droite - Btu/h  
Gaz de densité de 0,64, 1000 Btu/pi.cu., avec une chute de pression de 0,5 po de colonne d'eau

Diam. int. nominal du connecteur po	2 pi	4 pi	6 pi
1/2 po	150 000	106 000	86 600
3/4 po	290 900	215 000	173 900
1 po	581 800	442 700	347 800
1-1/4 po	1 075 500	817 500	634 000

**CAPACITÉ AVEC DISPOSITIF DE BRANCHEMENT RAPIDE**

Capacité d'une section droite - Btu/h (w)  
Gaz de densité de 0,64, 1000 Btu/pi.cu., avec une chute de pression de 0,5 po de colonne d'eau

Diam. int. nominal du connecteur po	2 pi	4 pi	6 pi
1/2 po	87 000	68 000	55 000
3/4 po	232 000	180 000	139 000
1 po	414 000	334 000	279 000
1-1/4 po	699 000	541 000	419 000

**DORMONT** Safety System

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