

SAFE·T·LINK™

GAS & WATER APPLIANCE CONNECTORS



RELIABILITY BUILT IN™

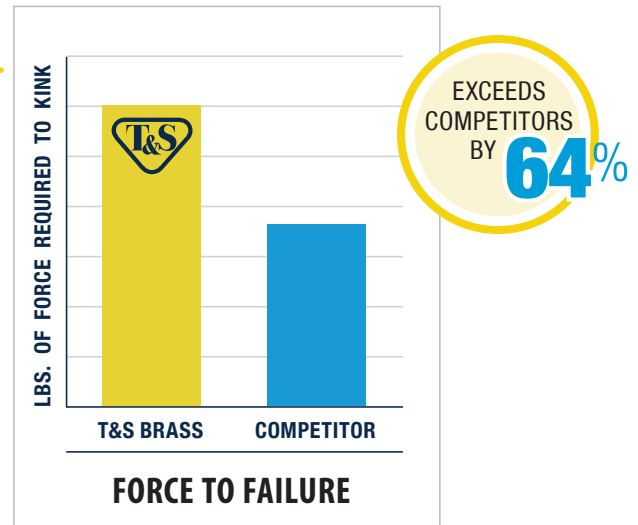
Safe-T-Link™ Tests Better Overall

Force Required to Kink Hose

Demonstrating a higher hose resistance to kinking during appliance movement.

BENEFITS:

- higher flow rates
- longer lasting hose
- safer kitchens

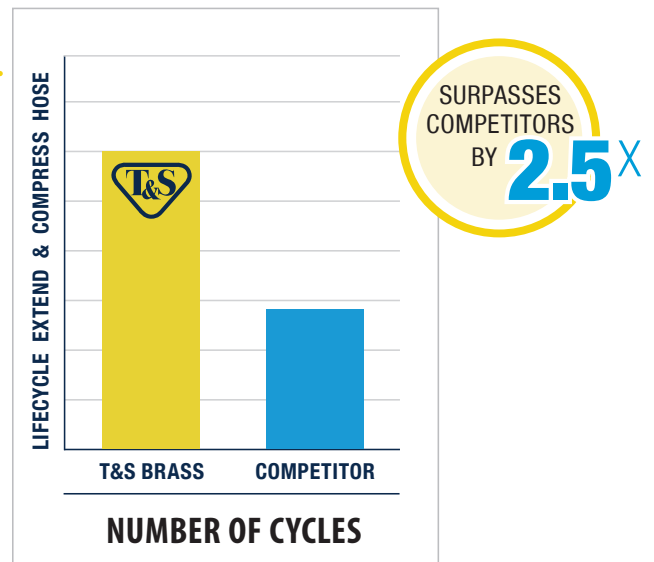


Appliance Life Cycle Test

Demonstrating higher number of appliance pull-aways until hose fails.

BENEFITS:

- lower cost of ownership
- safer kitchens
- longer hose life

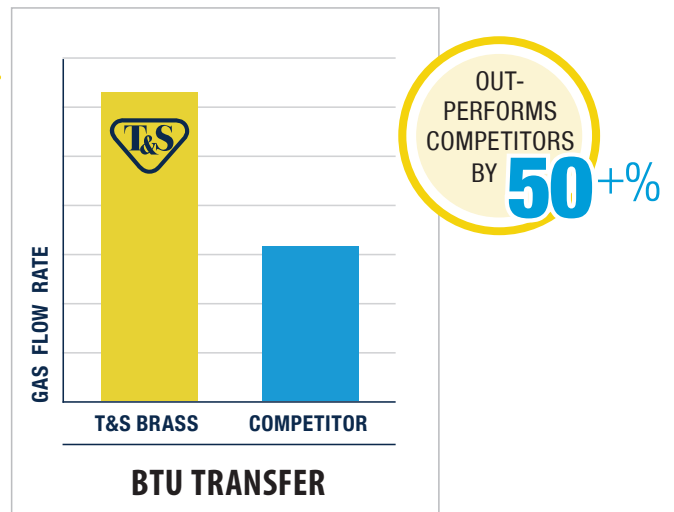


FLOW RATE Test

Demonstrating higher gas flow capacity with SwiveLink.

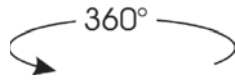
BENEFITS:

- higher flow rates through the swivel assembly
- reduced cooking times
- less wasted energy



The Safe-T-Link™ Advantage

A Smarter Design. A Better Hose. A safer, more durable hose starts with smarter construction. That's what makes T&S hoses fundamentally different from the rest. T&S is a leading manufacturer of gas appliance connectors.



SAFE·T·LINK™

SwiveLink Performance Advantage

Trust the Safe-T-Link™ performance advantage. Our 360° rotatable hex nut rotates completely and freely, even when tight. No more twisted hoses! The SwiveLink fittings come standard on both ends of every gas hose.

YELLOW COLOR

Yellow coating complies with the ASME A 13.1 color designation for flammable and oxidizing.



Welded Fittings

A gas connector is only as good as its weakest link. Trust our welded fittings to remain gas-tight long after a competitor's crimped assembly begins to loosen.

Extruded Coating

Strong does not have to mean less flexible. Our extruded coating stays out of the braid and keeps a constant wall thickness, providing strength and flexibility. Dipped coatings invade the stainless steel braid and stress the wires while reducing flexibility.

Safest Stainless Braid

Stainless braids protect the inner hose from pressure and stress. Trust our tight braid pattern to prevent punctures or dents more than a gapped braid.

Attention: California Residents

WARNING: This product can expose you to chemicals including Lead, Chromium (hexavalent compounds) and Phthalates (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



SAFE-T-LINK™ More Reasons Than Ever To Connect With T&S

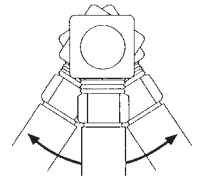
Safe-T-Link™ SwiveLink Performance Advantages

- Provides a consistent, stress-free torque-free swivel motion
- Eliminates kinking, allowing entire connector length to be used
- Optimal wall clearance. Castered appliances come out further to facilitate clean up, installation and maintenance, and may be pushed closer to the wall without connector interference
- Allows restraining devices to be set to engage just before the connector is fully extended
- Minimum folded length
- No lock-up during use
- Allows for full gas flow
- Double sealed, and machined from steel and brass for strength
- Available factory-attached on Safe-T-Link™ gas connector hoses, or as separate accessories for appliance and/or gas line attachment
- In popular sizes: 1/2" to 1 1/4"



A True Gas Connector Swivel

Our SwiveLink can't lock up and meets ANSI Z21.69 for B.T.U. capacity, where gasoline swivels are limiting.



Usable length of hose with SwiveLink



Usable length of hose WITHOUT SwiveLink



SwiveLink Performance Advantages

- 360° rotatable hex nut rotates completely and freely, even when tight. No more twisted hoses!
- Optimum torsional relief improves safety, increases connector life
- No more struggling with multiple fitting pieces and extra threads
- No more turning hoses to tighten fittings
- Provides efficient, full gas flow in every size
- Tapered fittings provide a tighter fit than traditional flared fittings
- Simple, easy to install
- Standard on both ends of every Safe-T-Link™ gas connector hose
- Available in sizes 1/2" through 1 1/4"



POSI-SET™ Wheel Placement System

- Wheel placement system for moveable cooking equipment
- Designed for the positive placement of moveable gas equipment
- Ensures proper relocation of equipment after moving, cleaning or repairs
- Made of flame retardant thermoplastic resin
- Virtually indestructible
- Includes mounting hardware for proper installation
- Designed to meet the requirements of NFPA 17A 5.6.4 2009 Edition
- Patent No. US 7,581,623



Gas Appliance Connectors

Safe-T-Link™ is all about providing a better solution — and thanks to an array of specially designed features and accessories, T&S makes it easy to enhance the safety and durability of your gas appliance connections.

Safe-T-Link™ SwiveLink Performance Advantages

(standard, gas only)

Specify the new SwiveLink swivel, the ultimate connector accessory, and you gain increased mobility and critical space savings over fixed-end products. For the first time, let SwiveLink connect you to the ultimate convenience of utilizing 100% of the connector's overall length.

Safe-T-Link™ SwiveLink Performance Advantages

(standard, gas only)

With the new SwiveLink feature, you hook up with the most technically advanced end fitting available in the industry. These "live" ends — standard on both ends of the T&S Safe-T-Link™ gas connectors — provide a constant 360° rotation for reducing stress while extending connector life. Plus, the entire fitting design helps increase operational safety.

Quick-Disconnect Performance Advantages

- For use when you need a Quick-disconnect located at the back of the appliance
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 350°F (177°C)
- High quality construction
- CSA approval
- Easy operation

Reversed Quick-Disconnect Performance Advantages

- For use when you need a Quick-Disconnect located at the wall
- "Fusible link" quick-disconnect gas hoses automatically shut-off gas supply to the appliance when temperatures exceed 350°F (177°C)
- High quality construction
- CSA approval
- Easy operation

SAFE-T-GUARD™ Quick-Disconnect Shut-Off Valve Performance Advantages

- Gas hose safety shut-off valve prevents gas connector from being disconnected until the valve handle is in the off position
- Prevents valve from opening until the hose is reconnected to the Safe-T-Guard™ device
- Helps prevent workplace injuries and fire hazards
- Functions as both a quick-disconnect and a full port brass ball valve
- Automatically shuts off gas supply within a temperature range of 250°F-300°F (121°C-149°C)
- Easy one-handed operation



Gas Appliance Connectors

HG-2 Series with FreeSpin Fittings

- SwiveLink rotating gas fittings on both ends, male to male
- Welded fitting connections
- Safe stainless braid
- Extruded coating
- ½ PSI max. gas pressure
- Includes (2) elbows



HG-2-S Series with SwiveLink Fittings

Add an "S" to include SwiveLink swivels at both ends

- Maximum clearance from wall
- Minimum folded length
- Stress-free and torque-free motion
- No lock-up position
- ½ PSI max. gas pressure
- Includes (2) elbows



HG-4 Series with Quick-Disconnect Valve

- Quick-disconnect one end, SwiveLink rotating gas fitting other end
- Welded fitting connections
- Safe stainless braid
- Extruded coating
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 350°F (177°C)
- Includes (1) elbow and (1) street elbow



HG-4-S Series with Quick-Disconnect Valve and SwiveLink Fittings

Add an "S" to include SwiveLink swivels at both ends

- Maximum clearance from wall
- Minimum folded length
- Stress-free and torque-free motion
- No lock-up position
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 350° F (177°C)
- Includes (2) elbows



HG-4G Series with Quick-Disconnect Valve

- Quick-disconnect valve one end, SwiveLink rotating gas fitting other end
- Welded fitting connections
- Safe stainless braid
- Extruded coating
- Safe-T-Guard™ shut-off valve
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 300°F (149°C)
- Includes (1) elbow and (1) street elbow



HG-4GS Series with Quick-Disconnect Valve and SwiveLink Fittings

Add an "S" to include SwiveLink swivels at both ends

- Maximum clearance from wall
- Minimum folded length
- Stress-free and torque-free motion
- No lock-up position
- Safe-T-Guard™ shut-off valve
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 300° F (149°C)
- Includes (2) elbows



Gas Appliance Connectors

HG-4SEL Series with SwiveLink Fitting

- Quick-disconnect one end, SwiveLink swivel other end
- Welded fitting connections
- Safe stainless braid
- Extruded coating
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 300°F (149°C)
- Include (1) restraining cable, (1) ball valve and (1) street elbow



HG-4G-SEL Series with Quick-Disconnect Valve and SwiveLink Fittings

- Quick-Disconnect valve on one end, SwiveLink swivel other end
- Maximum clearance from wall
- Minimum folded length
- Stress-free and torque-free motion
- No lock-up position
- Safe-T-Guard™ shut-off valve
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 300° F (149°C)
- Includes (1) street elbow and (1) restraining cable



HG-6 Series with Reversed Quick-Disconnect Valve

- Male to quick-disconnect plug (reversed quick-disconnect) one end, SwiveLink swivel other end
- Welded fittings
- Extruded coating
- Stainless steel braid hose
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 350°F (177°C)
- Includes (1) elbow and (1) street elbow



HG-6G Series with Reversed Quick-Disconnect Valve

- Male to quick-disconnect plug (reversed quick-disconnect valve) one end, SwiveLink swivel other end
- Welded fittings
- Extruded coating
- Stainless steel braid hose
- Safe-T-Guard™ shut-off valve
- ½ PSI max. gas pressure
- "Fusible link" quick-disconnect gas hoses automatically shut off gas supply to the appliance when temperatures exceed 300°F (149°C)
- Includes (2) elbows
- HG-6G-S Series – includes (2) elbows



Gas Appliance Connector Specifications

Specifying An **HG-2** and **HG-4** Gas Appliance Connector

HG- **A** **B** - **C** **D** - **E**

A

Hose Design

| | |
|--------------------------|---|
| Male to Male | 2 |
| Male to Quick Disconnect | 4 |

Example: Gas hose and Installation Kit with Quick Disconnect Valve, 3/4" NPT and 48" long with SwiveLink fittings, includes POSI-SET™:

HG-4D-48SK

B

Internal Thread and Diameter

| | |
|------------|---|
| 1/2" NPT | C |
| 3/4" NPT | D |
| 1" NPT | E |
| 1 1/4" NPT | F |

C

Length

| | |
|-----|----|
| 24" | 24 |
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |



HG-2



HG-2S



HG-4



HG-4S

Suffixes

D

SwiveLink Add SwiveLink fitting to both ends of the hose fittings

S

Installation Kit Includes everything necessary for an installation

K

E

POSI-SET™ Includes one pair POSI-SET™ (Wheel Placement System for Moveable Cooking Equipment)

PS

Specifying An **HG-4** Gas Appliance Connector with Safe-T-Guard™ Quick Disconnect Valve Combination Device

HG-4 **A** - **B** **C** - **D** - **E**

A

Internal Thread and Diameter

| | |
|----------|---|
| 1/2" NPT | C |
| 3/4" NPT | D |
| 1" NPT | E |

Example: Gas hose and Installation Kit with Quick Disconnect Valve, 3/4" NPT and 48" long with SwiveLink fittings, includes POSI-SET™:

HG-4D-48GS-K-PS

B

Length

| | |
|-----|----|
| 24" | 24 |
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |

C

Quick Disconnect Valve Options

2-Piece quick disconnect valve combination device

G

2-Piece quick disconnect valve combination device and SwiveLink fittings on both ends

GS



HG-4G



HG-4GS

Suffixes

D

Installation Kit Includes everything necessary for an installation

K

E

POSI-SET™ Includes one pair POSI-SET™ (Wheel Placement System for Moveable Cooking Equipment)

PS

Gas Appliance Connector Specifications

Specifying An **HG-4SEL** Gas Appliance Connector with Single SwiveLink Fitting and Quick Disconnect

HG-4 A - B C - D

A

Internal Thread and Diameter

| | |
|------------|----------|
| 1/2" NPT | C |
| 3/4" NPT | D |
| 1" NPT | E |
| 1 1/4" NPT | F |

Example: Gas hose with two-piece Quick Disconnect. (1) SwiveLink fitting, (1) street elbow, (1) ball valve and a restraining cable:

HG-4D-48SEL

B

Length

| | |
|-----|-----------|
| 24" | 24 |
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |

C

Single Swivel Models

Includes (1) SwiveLink, (1) street elbow, (1) ball valve and a restraining cable

SEL



HG-4SEL

D

Suffixes

POSI-SET™ Includes one pair POSI-SET™ (Wheel Placement System for Moveable Cooking Equipment)

PS

Specifying An **HG-4GSEL** Gas Appliance Connector with Safe-T-Guard™ Quick Disconnect Valve Combination Device

HG-4 A - B C - D - E

A

Internal Thread and Diameter

| | |
|----------|----------|
| 1/2" NPT | C |
| 3/4" NPT | D |
| 1" NPT | E |

Example: Gas hose with Safe-T-Guard™ Quick Disconnect Valve, one SwiveLink fitting, (1) elbow and restraining cable:

HG-4D-48G-SEL

B

Length

| | |
|-----|-----------|
| 24" | 24 |
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |

C

Safe-T-Guard™ Device

2-Piece quick disconnect valve combination device

G



HG-4GSEL

D

Includes (1) SwiveLink, (1) street elbow and a restraining cable

SEL

E

POSI-SET™ Includes one pair POSI-SET™ (Wheel Placement System for Moveable Cooking Equipment)

PS

Gas Appliance Connector Specifications

Specifying An **HG-6** Gas Appliance Connector with Reverse Quick Disconnect Devices

HG-6 **A** - **B** **C**

A

Internal Thread and Diameter

| | |
|------------|----------|
| 1/2" NPT | C |
| 3/4" NPT | D |
| 1" NPT | E |
| 1 1/4" NPT | F |

Example: Gas hose with Reverse Quick-Disconnect, 3/4" NPT, 48"

long: **HG-6D-48**

B

Length

| | |
|-----|----|
| 24" | 24 |
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |

C

Quick Discount Valve Options

2-Piece quick disconnect valve combination device (HG-6G)

Reverse quick disconnect and SwiveLink fittings on both ends
(HG-6-S)



HG-6

**HG-6-S****HG-6G**

NOTES...

Gas Appliance Installation Kits

Gas Hose with Installation Kit

Add a "K" suffix to hose model number to include all necessary pieces to install a gas appliance.

Each kit includes:

- One 90° street elbow
- One CSA-certified foodservice gas ball valve
- One SureLink restraining cable, adjustable from 3' to 5' lengths (#010625-45)
- All necessary hardware



K Model Installation Kit

Order using these model numbers to receive the installation kit only:

| | |
|----------|--------------|
| 1/2" Kit | AG-KC |
| 3/4" Kit | AG-KD |
| 1" Kit | AG-KE |

| | |
|----------------------|--------------|
| 1 1/4" Kit | AG-KF |
| 5' cable w/ hardware | AG-RC |

Gas Appliance Parts, Components and Accessories

Two-Piece Quick-Disconnect

| | |
|--------|--------------|
| 1/2" | AG-5C |
| 3/4" | AG-5D |
| 1" | AG-5E |
| 1 1/4" | AG-5F |



SwiveLink

| | |
|--------|--------------|
| 1/2" | AG-6C |
| 3/4" | AG-6D |
| 1" | AG-6E |
| 1 1/4" | AG-6F |



SAFE-T-GUARD™

2-Piece Quick Disconnect Shut-Off Valve

| | |
|------|--------------|
| 1/2" | AG-9C |
| 3/4" | AG-9D |
| 1" | AG-9E |



Gas Ball Valve

| | |
|--------|--------------|
| 1/2" | AG-7C |
| 3/4" | AG-7D |
| 1" | AG-7E |
| 1 1/4" | AG-7F |



• Additional hose models are available upon request

Elbows*

| Female-Male Street El* | |
|-------------------------------|-----------------|
| 1/2" | AG-8C-MF |
| 3/4" | AG-8D-MF |
| 1" | AG-8E-MF |
| 1 1/4" | AG-8F-MF |

| Female-Female Elbow (not shown) | |
|--|-----------------|
| 1/2" | AG-8C-FF |
| 3/4" | AG-8D-FF |
| 1" | AG-8E-FF |
| 1 1/4" | AG-8F-FF |

Female-Male Street El



*All Elbows are in compliance with ASTM standards

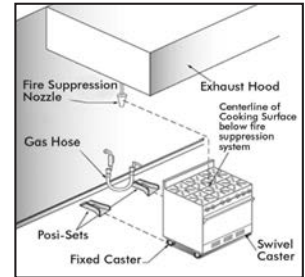
*Use of Street Els prohibited in Canada

Safe-T-Link™ Gas Appliance Hoses and POSI-SET™ Models

- POSI-SET™ is also available bundled together with our most popular Safe-T-Link™ Gas Hose models
- Refer to the list at right for available model numbers
- One pair of POSI-SET™ included with each gas hose model
- Add "-PS" to hose model
- Wheel placement system for moveable cooking equipment
- Designed for the positive placement of moveable gas equipment
- Ensures proper relocation of equipment after moving, cleaning or repairs
- Made of flame retardant thermoplastic resin
- Virtually indestructible
- Includes mounting hardware for proper installation
- Designed to meet the requirements of NFPA 17A 5.6.4 2009 Edition
- Patent No. US 7,581,623

POSI-SET™ Models:

| | | |
|---------------|----------------|---------------|
| HG-2C-36-PS | HG-4D-36SK-PS | HG-4D-60S-PS |
| HG-2C-48-PS | HG-4D-48-PS | HG-4D-60SK-PS |
| HG-4C-48K-PS | HG-4D-48K-PS | HG-4E-48K-PS |
| HG-4C-48SK-PS | HG-4D-48S-PS | HG-4E-48SK-PS |
| HG-4D-36-PS | HG-4D-48SEL-PS | |
| HG-4D-36K-PS | HG-4D-48SK-PS | |
| | HG-4D-60-PS | |



Minimum B.T.U. per hour (in thousands)
Ref: ANSI Z21.69 / CSA 6.16



Gas Appliance Connectors Capacity

| | | 12" | 24" | 36" | 48" | 60" | 72" |
|---|-----------|------|------|-----|-----|-----|-----|
| HG-2 | C= 1/2" | 166 | 150 | 125 | 106 | 95 | 86 |
| | D= 3/4" | 320 | 291 | 250 | 215 | 200 | 174 |
| | E= 1" | 639 | 582 | 515 | 443 | 395 | 348 |
| | F= 1 1/4" | 1185 | 1075 | 945 | 818 | 735 | 634 |
| | | 12" | 24" | 36" | 48" | 60" | 72" |
| HG-2-S | C= 1/2" | 140 | 129 | 111 | 97 | 90 | 84 |
| | D= 3/4" | 320 | 291 | 250 | 215 | 200 | 174 |
| | E= 1" | 639 | 582 | 515 | 443 | 395 | 348 |
| | F= 1 1/4" | 1144 | 1042 | 926 | 809 | 735 | 634 |
| | | 12" | 24" | 36" | 48" | 60" | 72" |
| HG-4 HG-4-S | C= 1/2" | 92 | 85 | 75 | 70 | 65 | 55 |
| | D= 3/4" | 259 | 235 | 220 | 180 | 160 | 140 |
| | E= 1" | 455 | 420 | 380 | 335 | 290 | 280 |
| | F= 1 1/4" | 770 | 700 | 620 | 540 | 475 | 420 |
| | | 12" | 24" | 36" | 48" | 60" | 72" |
| HG-4G HG-4GS HG-4SEL HG-4G-SEL | C= 1/2" | 92 | 85 | 75 | 70 | 65 | 55 |
| | D= 3/4" | 259 | 235 | 220 | 180 | 160 | 140 |
| | E= 1" | 455 | 420 | 380 | 335 | 290 | 280 |
| | F= 1 1/4" | 770 | 700 | 620 | 540 | 475 | 420 |
| | | 12" | 24" | 36" | 48" | 60" | 72" |
| HG-6 | C= 1/2" | 92 | 85 | 75 | 70 | 65 | 55 |
| | D= 3/4" | 259 | 235 | 220 | 180 | 160 | 140 |
| | E= 1" | 455 | 420 | 380 | 335 | 290 | 280 |
| | F= 1 1/4" | 770 | 700 | 620 | 540 | 475 | 420 |

Minimum B.T.U. per hour
(in thousands)

Ref:
ANSI Z21.24 / CSA 6.10
ANSI Z21.75 / CSA 6.27



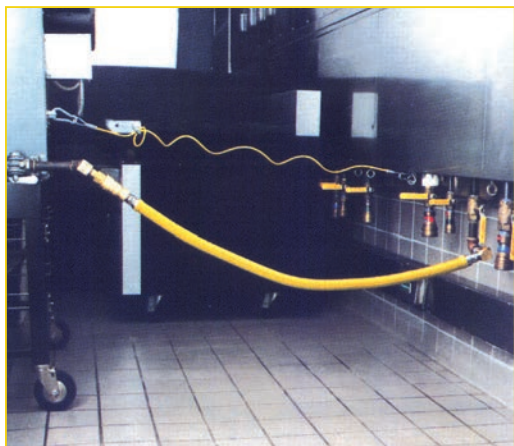
SwiveLink Installation Instructions

Specify the T&S SwiveLink swivel, the ultimate connector accessory, and you gain increased mobility and critical space savings over fixed-end products.

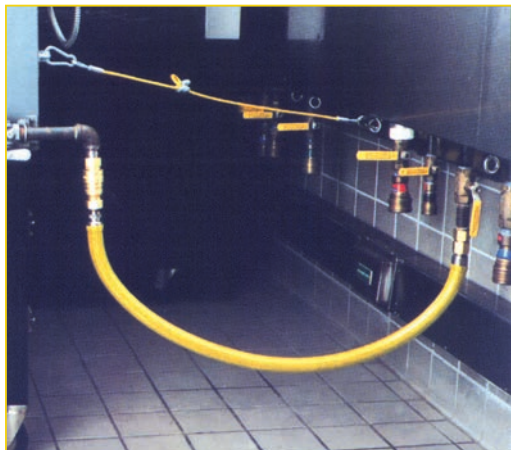
For the first time, let SwiveLink connect you to the ultimate convenience of utilizing 100% of the connector's overall length.

- Provides the most reach with the shortest hose
- Reduces stress on the hose, eliminating kinking
- Keeps gas flow unrestricted
- Design prevents lock up
- Meets ANSI Z21.69 for B.T.U. capacity
- Available in sizes ½" through 1¼"
- ½ PSI max. gas pressure

Usable length of hose WITH SwiveLink

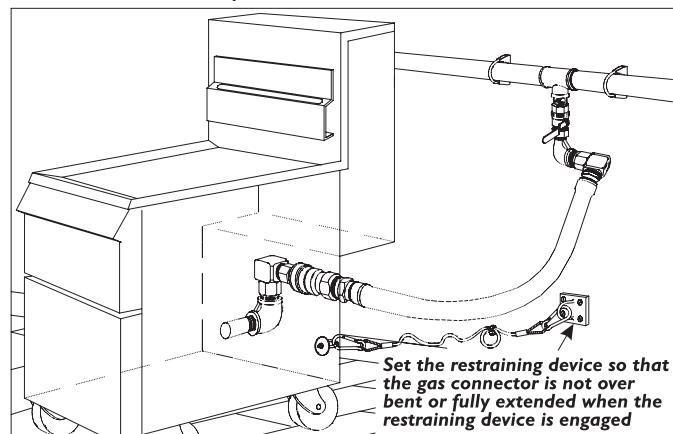


Usable length of hose WITHOUT SwiveLink

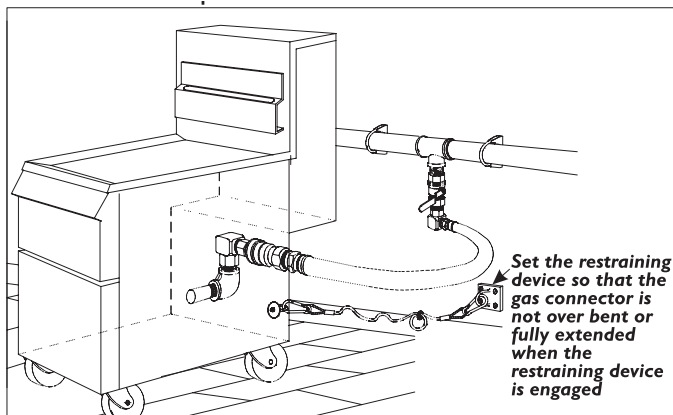


WARNING: Per the ANSI Z21.69 / CSA 6.16 Standard, Gas Connectors cannot be reused when an appliance is being replaced or moved to a new location.

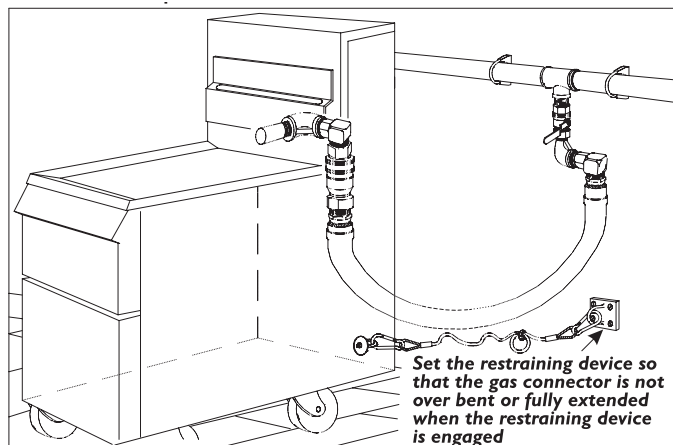
Combination Loop with SwiveLink



Horizontal Loop with SwiveLink



Vertical Loop with SwiveLink



Water Appliance Connectors

- Hot and cold water appliance connectors
- Rated to 175°F maximum
- Available in sizes: 3/8", 1/2" and 3/4"

HW-2 Series Water Appliance Connectors

- Male to male end fittings
- Welded fitting connections
- Coated stainless steel hose
- Extruded coating



HW-4 Series with Quick-Disconnect

- Male to quick-disconnect fittings
- Welded fitting connections
- Coated stainless steel hose
- Extruded coating



HW-6 Series with Reversed Quick-Disconnect Cold Water Hoses

- Male to quick-disconnect plug (reversed quick-disconnect)
- Welded fittings
- Extruded coating
- Stainless steel braid hose



Water Appliance Parts and Components

Stainless Steel Quick-Disconnect

- Both socket and plug are valved for leak free disconnection

- | | |
|------|--------------|
| 1/4" | AW-5A |
| 3/8" | AW-5B |
| 1/2" | AW-5C |
| 3/4" | AW-5D |



Water Appliance Connector Specifications

Specifying An **HW-2** and **HW-4** Water Appliance Connector

HW - A B - C

A

Hose Design

| | |
|--------------------------|---|
| Male to Male | 2 |
| Male to Quick Disconnect | 4 |

Example: Water hose with Quick Disconnect Valve, 3/4" diameter and 48" long:

HW-4D-48

B

Internal Thread and Diameter

| | |
|------|---|
| 3/8" | B |
| 1/2" | C |
| 3/4" | D |

Note: Not all combinations are available. Call T&S Customer Service for availability.

C

Length

| | |
|-----------------------|-------|
| 24" | 24 |
| 36" | 36 |
| 48" | 48* |
| 60" | 60 |
| 72" | 72 |
| 72" w/ Vacuum Breaker | 72VB* |



HW-2



HW-4

*Available only on 4B and 4C.

Specifying An **HW-6** Water Appliance Connector

HW-6 A - B

A

Internal Thread and Diameter

| | |
|------|---|
| 3/8" | B |
| 1/2" | C |
| 3/4" | D |

Example: Water hose with Reverse Disconnect Valve, 1/2" diameter and 36" long:

HW-6C-36

B

Length

| | |
|-----|----|
| 36" | 36 |
| 48" | 48 |
| 60" | 60 |
| 72" | 72 |



HW-2



HW-6



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove • P.O. Box 1088 • Travelers Rest, SC 29690

U.S. Toll-free 800-476-4103 • +1 864-834-4102 • Fax 800-868-0084

E-mail customerservice@tsbrass.com

Canada Toll-free +1 888-288-0432

800-011686-45

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