

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____
 SKU _____

High BTU Stainless Steel Gas Connectors

The high BTU gas connector was specifically designed for applications with a significant BTU requirement.

Features

- Tubing Annealed, 304 stainless steel (ASTM A240)
- Flare nuts: Brass or plated steel
- Adapters: Brass or plated steel
- Optional coating Heavy-duty, antimicrobial, hot-dipped gray PVC (41, 51 & 61 series). Coating will not hold a flame.
- Approved for indoor/outdoor use with stationary gas appliances/equipment.
- Operating temperature with adapters: -40°F to 150°F
- 100% leak tested
- Exclusive No-Neck® design increases flexibility
- More corrugations per inch increase flexibility and extend service life
- When installing a new appliance or when an existing appliance is moved to a new location a NEW gas connector must be per manufacturer's installation instructions and product standards.
- Designed for occasional movement after installation. Repeated bending, flexing or extreme vibration must be avoided. Normal operation of a clothes dryer, rooftop HVAC unit or SIMILAR OUTDOOR APPLIANCE DOES NOT constitute extreme vibration or movement.
- Eliminates the need for pipe nipples, 90's and elbows.
- Pre-fabricated gas connector means no field threading, cutting or assembly of CSST fitting and tubing.
- Coating options:
 - Hot dipped, antimicrobial gray PVC
 - Premium yellow antimicrobial coating with limited lifetime warranty inhibits bacteria growth, improves corrosion and UV protection, and enhances flame and smoke resistance. Coating increases safety, durability and longevity.
- Limited lifetime warranty – for details visit www.watts.com/resources/warranty-information

SuprSafe



40, 50 & 60 Series
Stainless Steel
Gas Connector

SAFETY SHIELD



40C Series
Enhanced Yellow Coated
Stainless Steel Gas
Connector

ULTRA flow



41, 51 & 61 Series
Gray PVC Coated
Stainless Steel
Gas Connector



*Applies to premium yellow gas connector only

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Dormont product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Dormont Technical Service. Dormont reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Dormont products previously or subsequently sold. Refer to the owner's manual for warranty information.

Dormont
A WATTS Brand

Certifications and Approvals

- ANSI Z21.24/CSA 6.10 – Connectors for Gas Appliances
- ANSI Z21.75/CSA 6.27 – Connectors for Outdoor Appliances and Manufactured Homes
- City of New York – MEA #376-92-M
- Approved by the Commonwealth of Massachusetts Board of State Examiners of Plumbers and Gas Fitters – connector length may not exceed 48".



Minimum Flow Capacity

Connector Minimum Flow Capacity – **For Natural Gas** (per ANSI Z21.24/CSA 6.10 & ANSI Z21.75/CSA 6.27)
 Straight Length Capacity – BTU per Hr 0.64 SG., 1000 BTU per Cu. Ft. at 0.5 inch Water Column Pressure Drop

CONFIGURATION			CONNECTOR LENGTH [INCHES]							
SERIES	Nominal OD <i>in</i>	Nominal ID <i>in</i>	12 <i>in</i>	18 <i>in</i>	24 <i>in</i>	30 <i>in</i>	36 <i>in</i>	48 <i>in</i>	60 <i>in</i>	72 <i>in</i>
40/41/40C	1	3/4	349,000	318,500	290,900	270,500	255,900	215,000	197,400	173,900
50/51	1-1/4	1	698,000	637,000	581,800	545,200	515,900	442,700	398,900	347,800
60/61	1-1/2	1-1/4	1,204,000	1,139,000	1,075,000	1,010,500	946,000	817,500	725,500	634,000

Connector Minimum Flow Capacity – **For LP Gas** (per ANSI Z21.24/CSA 6.10 & ANSI Z21.75/CSA 6.27)
 Straight Length Capacity – BTU per Hr 1.55 SG., 2500 BTU per Cu. Ft. at 0.5 inch Water Column Pressure Drop

CONFIGURATION			CONNECTOR LENGTH [INCHES]							
SERIES	Nominal OD <i>in</i>	Nominal ID <i>in</i>	12 <i>in</i>	18 <i>in</i>	24 <i>in</i>	30 <i>in</i>	36 <i>in</i>	48 <i>in</i>	60 <i>in</i>	72 <i>in</i>
40/41/40C	1	3/4	558,400	509,600	465,440	432,800	409,440	344,000	315,840	278,240
50/51	1-1/4	1	1,116,000	1,019,200	930,880	872,320	825,440	708,320	638,240	556,480
60/61	1-1/2	1-1/4	1,926,400	1,822,400	1,720,000	1,616,800	1,513,600	1,308,000	1,160,800	1,014,400

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Additional Testing

- UL2200-2015: Stationary Engine Generator Assemblies Section 66B Vibration Test.
- UL536: Flexible Metal Hose Section 7 Vibration Test.

Applications

- Boilers
- Gas Meters
- Furnaces
- Commercial Water Heaters
- Gas packs/Rooftop HVAC units
- Tankless Water Heater
- Stationary Standby Generators (NOT for use with Portable Generators):
 Connector Length ≥ 14 inches

NOTICE

The minimum flow capacity values in the charts are at 0.5" w.c. pressure drop (inlet pressure minus outlet pressure). If your gas system has more available pressure drop then a general rule of thumb approximate calculation is as follows:
 Minimum Flow Capacity @ your pressure drop = Square Root (your pressure drop/0.5) x value from chart
 Example: What is the approximate minimum flow capacity (natural gas) of the Dormont® 40 Series x 24" @ 1" wc pressure drop?
 Answer: Square Root (1/0.5) x 290,900 = 411,395 BTU/hr



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