

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

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

SafetyShield® Premium Yellow Coated Stainless Steel Gas Connectors

SafetyShield® enhanced coating increased safety, durability, and longevity:

- Antimicrobial additive inhibits the growth of bacteria, mold, and mildew.
- Improved UV, humidity, and corrosion protection
- Enhanced flame and smoke resistance Consistent coverage provides protection along the entire length of the connector.

Features and Specifications

- Tubing: Annealed, 304 stainless steel (ASTM A240)
- Coating: Custom Formulated Premium Yellow Polymer
- Flare nuts: Brass or plated steel
- Adapters: Brass or plated steel
- Approved for indoor/outdoor use with stationary gas appliances/equipment
- Temperature rating of connector with adapters: -40°F to 150°F
- Temperature rating with valves: -40°F to 125°F
- 100% factory leak tested
- When installing a new appliance or when an existing appliance is moved to a new location a NEW gas connector must be used per manufacturer's installation instructions and per product standards ANSI Z21.24/CSA 6.10 and ANSI Z21.75/CSA 6.27 
- Not engineered for high temperature applications such as gas logs, fireplace inserts or free-standing fireplaces
- 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
- Limited lifetime warranty – for details visit www.watts.com/resources/warranty-information

Standards

- 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"

WARNING

All installations must completely comply with all Dormont® manufacturing company warnings and instructions, national, state and local codes and all applicable ansi standards.

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.

Exclusive No-Neck
 Design: Increase
 Tubing Flexibility

Yellow polymer coating
 features enhanced
 corrosion resistance,
 flame/smoke resistance
 and an antimicrobial
 additive that inhibits
 the growth of bacteria,
 mold, and mildew.

304 stainless steel:
 durable, corrosion-
 resistant construction

Quality flared end
 adapters: create a
 metal to metal seal
 to ensure integrity in
 critical applications

10C, 20C and 30C Series

SAFETY SHIELD®



Dormont®
 A WATTS Brand

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

SERIES	CONFIGURATION		CONNECTOR LENGTH [INCHES]							
	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>
10C	3/8	1/4	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100
20C	1/2	3/8	102,000	93,100	85,000	77,100	71,000	60,500	53,200	49,100
30C	5/8	1/2	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000

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

SERIES	CONFIGURATION		CONNECTOR LENGTH [INCHES]							
	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>
10C	3/8	1/4	76,800	70,080	64,000	58,240	53,440	45,280	39,840	36,960
20C	1/2	3/8	163,200	148,960	136,000	123,360	113,760	96,800	85,120	78,560
30C	5/8	1/2	288,000	262,720	240,000	217,600	200,000	169,600	194,120	137,600

Applications

Indoor

- Range
- Dryer
- Water Heater
- Gas Fireplace
- Garage Heater
- Wall Heater
- Tankless Water Heater
- Furnace
- Space Heaters

Outdoor

- Rooftop Units
- Outdoor Dryer
- Stationary Outdoor Grills
- Gas Fire Pits

Manufactured Home

- Mobile Home Gas Meter
- Cross-over Gas Connection Kits

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 30

Series x 24" @ 1" wc pressure drop?

Answer: Square Root (1/0.5) x 150,000 = 212,132 BTU/hr



A WATTS Brand

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