

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

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

Dormont® Flexible Gas Appliance Connectors

Supr-Safe®, ULTRAflow®, SafetyShield®

The flexible connection between the gas supply and the gas inlet of a Stationary Outdoor Backup/Standby Generator.

Features

- Operating Temperature -40°F to 150°F (-40°C to 65.6°C)
- Operating Pressure MAX 0.5psi (3.45 kPa)
- Hydrostatic Burst Pressure MIN 250psi (1725 kPa)
- Flexible Tube Material Annealed 304 Stainless Steel
- Flare Nut Material Carbon Steel with Zinc Trivalent Chromate Plating
- Flare Adapter Material Carbon Steel with Zinc Trivalent Chromate Plating
- Optional Dip Coating Gray Heavy Duty, Antimicrobial, UV Stabilizer
- Optional Powder Coating Yellow polymer coating features enhanced corrosion resistance, flame/smoke resistance and an antimicrobial additive that inhibits the growth of bacteria, mold, and mildew.
- Limited lifetime warranty – for details visit www.watts.com/resources/warranty-information



Series 30, 31 (Gray), and 30C (Yellow)



For use with stationary outdoor backup/standby generators.



*Applies to premium yellow gas connector only

CSA Group Certificate of Compliance to Product Standards

ANSI Z21.75/CSA 6.27 – Connectors for Outdoor Gas Appliances and Manufactured Homes

Scope states "...intended for exterior use above ground for making non-rigid connections...between the gas supply and the gas inlet of an appliance for outdoor installation that is not frequently moved after installation." In addition section 1.5.4 states the connector is designed for occasional movement after installation.

NOTICE

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.

ANSI Z21.24/CSA 6.10 – Connectors for Gas Appliances (Excluding 60/61 Series)



Applicable Codes

ANSI Z223.1/NFPA 54 National Fuel Gas Code Section 9.6
 International Fuel Gas Code (IFGC) Section 411.1
 B149.1 – Natural Gas and Propane Installation Code (CSA Group) Section 6.21
 Uniform Mechanical Code (UMC) Section 1313.0
 Uniform Plumbing Code (UPC) Section 1212.0

Additional Approvals

Commonwealth of Massachusetts Board of State Examiners of Plumbers and Gas Fitters

Additional Testing

UL2200-2015: Stationary Engine Generator Assemblies Section 66B Vibration Test.

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

Product Configurations

SERIES	NOMINAL ID	NOMINAL OD	FLARE ADAPTER THREADS (MALE OR FEMALE NPT)	NOMINAL LENGTH RANGE
	<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>
30, 30C, 31	1/2	5/8	1/2	14 - 72
40, 40C, 41	3/4	1	3/4	14 - 72
50, 51	1	1 1/4	1	14 - 72
60, 61	1 1/4	1 1/2	1 1/4	14 - 72

"C" indicates Yellow Powder Coating.

"1" indicates Gray PVC Coating.

Adding "CAN" prefix indicates product supplied with both English and French instructions for Canada.

Minimum Flow Capacity

Straight Length BTU/hr. **NATURAL GAS**, 0.64 SG, 1000 BTU/cu.ft., 0.5" w.c. pressure drop

CONFIGURATION		NOMINAL LENGTH							
SERIES	Nominal ID <i>in</i>	14"	18"	24"	30"	36"	48"	60"	72"
30, 30C, 31	1/2	174,500	164,200	150,000	136,000	125,000	106,000	93,200	86,000
40, 40C, 41	3/4	338,500	318,500	290,900	270,500	255,900	217,000	187,400	173,900
50, 51	1	667,500	637,000	581,800	545,200	515,900	442,700	398,900	347,800
60, 61	1 1/4	1,171,500	1,139,000	1,075,000	1,010,500	946,000	817,500	725,500	634,000

Straight Length BTU/hr. **LP GAS**, 1.55 SG, 2500 BTU/cu.ft., 0.5" w.c. pressure drop

CONFIGURATION		NOMINAL LENGTH							
SERIES	Nominal ID <i>in</i>	14"	18"	24"	30"	36"	48"	60"	72"
30, 30C, 31	1/2	279,200	262,720	240,000	217,600	200,000	169,600	149,120	137,600
40, 40C, 41	3/4	541,600	509,600	465,440	432,800	409,440	344,000	315,840	278,240
50, 51	1	1,068,000	1,019,200	930,880	872,320	825,440	708,320	638,240	556,480
60, 61	1 1/4	1,874,400	1,822,400	1,720,000	1,616,800	1,513,600	1,308,000	1,160,800	1,014,400

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

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.

WARNING

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

