For Use with Stationary Outdoor Standby Generators

lob Name	Contractor
lob Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative
	SKU

Dormont® Flexible Gas Appliance Connectors

Supr-Safe®, SafetyShield®, ULTRAflow®

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

Carbon Steel with Zinc Trivalent Flare Adapter Material

Chromate Plating

 Optional Powder Coating Yellow Polymer

 Optional Dip Coating Gray Heavy Duty, Antimicrobial,

UV Stabilizer

CSA Group Certificate of Compliance to **Product Standards**

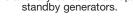
ANSI Z21.75/CSA 6.27 - Connectors for Outdoor Gas Appliances and Manufactured Homes

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. 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)







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

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.

Product Configurations

SERIES	ES NOMINAL ID NOMINAL OD		NOMINAL ID NOMINAL OD		FLARE ADAPTER THREADS (MALE OR FEMALE NPT)	NOMINAL LENGTH RANGE
	in	in	in	in		
30, 30C, 31	1/2	5/8	1/2	18 - 72		
40, 40C, 41	3/4	1	3/4	18 - 72		
50, 51	1	1-1/4	1	18 - 72		
60, 61	1-1/4	1-1/2	1-1/4	18 - 72		

[&]quot;C" indicates Yellow Powder Coating.

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



[&]quot;1" indicates Gray PVC Coating.

Minimum Flow Capacity

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

CONFIGU	RATION	NOMINAL LENGTH						
SERIES	Nominal ID	18"	24"	30"	36"	48"	60"	72"
	in							
30, 30C, 31	1/2	164,200	150,000	136,000	125,000	106,000	93,200	86,000
40, 40C, 41	3/4	318,500	290,900	270,500	255,900	217,000	187,400	173,900
50, 51	1	637,000	581,800	545,200	515,900	442,700	398,900	347,800
60, 61	1-1/4	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

CONFIGU	RATION	NOMINAL LENGTH						
SERIES	Nominal ID	18"	24"	30"	36"	48"	60"	72"
	in							
30, 30C, 31	1/2	262,720	240,000	217,600	200,000	169,600	149,120	137,600
40, 40C, 41	3/4	509,600	465,440	432,800	409,440	344,000	315,840	278,240
50, 51	1	1,019,200	930,880	872,320	825,440	708,320	638,240	556,480
60, 61	1-1/4	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

WARNING

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

