



# Flexible Gas Connectors

## TECHNICAL SPECIFICATIONS SUBMITTAL FORM

Job Name:	Submittal Date:	Wholesaler:
Job Location:	Engineer/Architect:	Contractor:

### Product Use:

Gas appliances (furnaces, water heaters, stoves, ovens, fireplaces) to gas source

### Design Features:

Stainless steel flexible gas connector offer the full spectrum of product varieties to fit your application needs. Corrosion resistant stainless steel 304 tubing and zinc-plated steel fitting provide 100% quality you can trust. Safe-guard yellow epoxy coating provides extra protection from corrosion, chemical stains from common household products, and plumbing repair products. Optional gas shutoff valve available.

- Flexible to reduce labor costs
- Interchangeable fittings for any application
- Corrosion and scaling resistant
- Withstand 15 applications of 90° twists

### Operation Specifications:

- Temperature: -40° to 150°F (-40°C to 65°C)
- Operating Pressure MAX 0.5psi (3.45 kPa)
- Hydrostatic Burst Pressure (Strength Test) : MIN 250psi (1725 kPa)
- Bending Test: 30 bends without leaking in depths of 2 inches or less of water
- Torsion Test: 15 applications of 90° twists
- Durability at High Temp. Test: up to 800°F (426°F)
- Stamped with serial number and packaged in poly-bag
- Strength of Fittings: Does not leak within a tightened torque of 1,040-pounds (1410 Nm)

### Certifications and Approvals

- ANSI Z21.24/CSA 6.10 – Connectors for Gas Appliances
- ANSI Z 21.69/CSA 6.16 Movable Gas Appliances
- ANSI Z21.75/CSA 6.27 – Connectors for Outdoor Gas Appliances and Manufactured Homes
- 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
- UL2200-2015: Stationary Engine Generator Assemblies Section 66B Vibration Test



### Flexible Gas Connector Materials

PART	MATERIAL
FLEXIBLE TUBE	Annealed 304 Stainless Steel
FLARE NUT	Carbon Steel with Zinc Trivalent Chromate Plating
FLARE ADAPTER	Carbon Steel with Zinc Trivalent Chromate
OPTIONAL POWDER COATING	Yellow Polymer



# Flexible Gas Connectors

## Product Configurations

SERIES	NOMINAL ID (INCHES)	NOMINAL OD (INCHES)	NOMINAL LENGTH RANGE (INCHES)
G100, G103	1/4	3/8	12-72
G200, G203	3/8	1/2	12-72
G300, G303	1/2	5/8	12-72
G400, G403	3/4	1	12-72

## Minimum Flow Capacity

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

CONFIGURATION	NOMINAL LENGTH								
	SERIES	NOMINAL ID (INCHES)	12"	18"	24"	30"	36"	48"	60"
G100, G103	1/4	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100
G200, G203	3/8	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
G300, G303	1/2	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000
G400, G403	3/4	290,900	290,900	290,900	270,500	255,900	215,000	197,400	173,900

The minimum flow capacity values in the charts are 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 NDL 30 Series x 24" @ 1" w.c. pressure drop?  
Answer: Square Root (1/0.5) x 150,000 = 212,132 BTU/hr

## Part Selection

G100	1/4" ID (3/8" OD) Stainless Steel
G103	1/4" ID (3/8" OD) Stainless Steel Coated
G200	3/8" ID (1/2" OD) Stainless Steel
G203	3/8" ID (1/2" OD) Stainless Steel Coated
G300	1/2" ID (5/8" OD) Stainless Steel
G303	1/2" ID (5/8" OD) Stainless Steel Coated
G400	3/4" ID (1" OD) Stainless Steel
G403	3/4" ID (1" OD) Stainless Steel Coated

Length	End Connection	End Connection Configuration
12"	3/8" x 3/8"	FPT X FPT
18"	1/2" x 1/2"	FIP X FIP
24"	3/4" x 3/4"	FIP X MIP
30"	1/2" x 3/4"	MPT X MPT
36"	Coating	MIP X MIP
48"	Uncoated SS	Gas Shutoff Valve
60"	Coated	FIP x FIP
72"	Epoxy Black	Flare x FIP

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 a product. All installations must completely comply with all NDL Industries warnings and instructions, national state and local codes and all applicable ANSI standards.

NDL Industries product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Customer Service. NDL Industries 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 NDL products previously or subsequently sold.



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ndlinc.com | 1-866-635-6888 | sales@ndlinc.com

@ndlindustries

