

## Exterior Gas Piping Installations

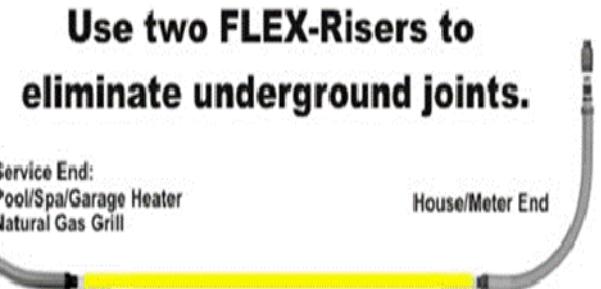
In order to promote a successful installation/inspection, please review the following information before calling for a gas pipe inspection. IRC references are in parenthesis ( ) and IFGC references are in brackets [ ]. The below items represent a general list of common items that will be assessed at time of inspection.

### Permit & Plans:

- Permit and approved plans are to always be on site and accessible to the inspector. (R106.3.1)
- Manufacturer's installation information is to be readily available if needed. (R106.1.2)
- Manufacturer's specifications for each gas appliance (gas grill, firepit, etc.) installed are to be readily available to the inspector. (R106.1)

### Gas Service Installation Requirements:

- **Polyethylene** pipe is to be used for any/all underground gas piping; no other pipe material will be acceptable. Polyethylene gas piping is to be sized per Table 402.4(20) of the 2012 International Fuel Gas Code (IFGC). See back side for chart.
- **!!VERY IMPORTANT!! Transition from underground gas piping to above grade exposure must be accomplished with an anodeless riser (IFGC 403.6.1)**
- Minimum burial depth is **12-inches**. (G2415.12) [404.12]
- 18 AWG yellow insulated copper tracer wire is to be exhibited. (G2415.17.3) [404.17.3]
- An approved shutoff valve is required within 6 feet of an appliance. (G2420.5) [409.5]
- All shutoff valves are to be accessible. (G2420.1.3) [409.1.3]
- Any/all connector fittings must be listed, labeled and installed in accordance with the manufacturer's installation instructions. (2422.1) [411.1]



### Required Inspections:

- Final Inspection: Once the gas line has been installed and is ready for backfill, an inspection is to be scheduled in order to confirm compliance to Village codes **BEFORE** backfilling the trench.

An inspection can be scheduled by contacting the Village at **847-664-4050**. You will need to provide the address and permit number to schedule the inspection.

### Questions:

- If you have questions regarding a proposed gas service installation, please contact Mechanical Inspector, Corey Friedman at **847/664-4061** or via email at: [corey.friedman@northbrook.il.us](mailto:corey.friedman@northbrook.il.us).

Table 402.4(19) - Polyethalene Plastic Pipe

<b>Gas</b>	Natural
<b>Inlet Pressure</b>	1.0 psi or less
<b>Pressure Drop</b>	0.5 inch WC
<b>Specific Gravity</b>	0.60

PIPE SIZE (in.)						
<b>Nominal OD</b>	$1\frac{1}{2}$	$3\frac{1}{4}$	<b>1</b>	$1\frac{1}{4}$	$1\frac{1}{2}$	<b>2</b>
<b>Designation</b>	<b>SDR</b> 9.33	<b>SDR</b> 11.0	<b>SDR</b> 11.00	<b>SDR</b> 10.00	<b>SDR</b> 11.00	<b>SDR</b> 11.00
<b>Actual ID</b>	<b>0.660</b>	<b>0.860</b>	<b>1.077</b>	<b>1.328</b>	<b>1.554</b>	<b>1.943</b>
<b>Length (ft) Maximum Capacity in Cubic Feet of Gas per Hour</b>						
10	201	403	726	1,258	1,900	3,415
20	138	277	499	865	1,306	2,347
30	111	222	401	695	1,049	1,885
40	95	190	343	594	898	1,613
50	84	169	304	527	796	1,430
60	76	153	276	477	721	1,295
70	70	140	254	439	663	1,192
80	65	131	236	409	617	1,109
90	61	123	221	383	579	1,040
100	58	116	209	362	547	983
125	51	103	185	321	485	871
150	46	93	168	291	439	789
175	43	86	154	268	404	726
200	40	80	144	249	376	675

Note: Maximum Capacity in Cubic Feet of Gas per Hour X 1000 = Capacity in BTU (British Thermal Unit)