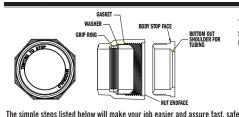
# McGrip ("G" & "-3G") Series Compression Connectors



The A.Y. McDonald McGrip "G" & "-3G" Series compression system is a simple convenient method of connection for tube size service materials (See table below for approved tubing specs.)

> "G" Series Fittings Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

	watertight connections:	101 4114 4001		NOMINAL	TYPE K or L COPPER	ASTM D2737 SDR 9	ASTM D2666 SDR 9 TUBE SIZE	
1	Service tubing should always be <b>snaked</b> in the ditch.			SIZE	TUBE	TUBE SIZE *	CLASS 250	
2	care pipe to rearrar our copper tability acc a rearraing		" Series Fittings	3/4"	<u>.872</u> .878	<u>.871</u> .879	<u>.875</u> .883	
4.	tool, if necessary. Surface should be clean and free of nicks.  Insert stiffeners <b>must</b> be used with plastic tubing.	Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)		1"	<u>1.121</u> 1.129	1.120 1.130	1.125 1.135	
	Stab tube through the nut and into the socket of the valve or fitting until it bottoms out (some fittings may or may not have a stop).	NOMINAL SIZE	POLYETHYLENE ASTM D2239 SDR7 PIPE SIZE 米	1 1/4"	1.371 1.379	1.370 1.380	1.375 1.385	
		3/4"	1.045 1.110 (1.089)	1 1/2"	1.621 1.630	1.619 1.631	1.625	
5	. Tighten the McGrip "G" & "-3G" Series nut to the stop.		1 000					

6. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.

The end face of the nut is to contact the stop face of

() • Maximum pipe O.D. that will work with A.Y. McDonald fittings.

7. USE ONLY ON COLD WATER SERVICES.

1.329

1.399 (1.384)

(Over)

2.125

2.137

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**POLYBUTYLENE** 

ASTM D2666 SDR 9

**TUBE SIZE** 

CLASS 250

.875

.883

Mª Donald

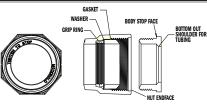
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Installation Instructions

2.119

2.131

# McGrip ("G" & "-3G") Series Compression Connectors



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2.120

2.130

"G" Series Fittings Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

POLYETHYLENE

**ASTM D2737 SDR 9** 

.871

.879

TUBE SIZE \*

The simple steps listed below will make your job easier and assure fast, safe	
and watertight connections:	

- 1. Service tubing should always be snaked in the ditch
- 2. Use a tube or pipe cutter to assure a square end. Make sure pipe is round. On copper tubing, use a rounding tool, if necessary. Surface should be clean and free of
- \* 3. Insert stiffeners must be used with plastic tubing
  - 4. Stab tube through the nut and into the socket of the valve or fitting until it bottoms out (some fittings may or may not have a stop).
  - 5. Tighten the McGrip "G" & "-3G" Series nut to the stop. The end face of the nut is to contact the stop face of the body.

7. USE ONLY ON COLD WATER SERVICES.

"-3G" Series Fittings

with A.Y	Pipe/Tubing for use  McDonald Fittings  Diameters listed)	1"	1.121 1.129	1.120 1.130	1.125		
POLYETHYLENE NOMINAL ASTM D2239 SDR7 SIZE PIPE SIZE **		1 1/4"	1.371 1.379	1.370 1.380	1.375		
3/4"	<b>3/4"</b> 1.1045 1.110 (1.089)		<u>1.621</u> 1.630	1.619 1.631	1.625		
1"	1.329 1.399 (1.384)	2"	2.120	2.119	2.125		

TYPE K or L

COPPER

TUBE

.872

.878

NOMINAL

SIZE

3/4"

- 6. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING. () Maximum pipe 0.D. that will work with A.Y. McDonald fittings

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Installation Instructions

# McGrip ("G" & "-3G") Series Compression Connectors



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> "G" Series Fittings Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

> > POLYETHYLENE

ASTM D2737 SDR 9

.871

2.119

TUBE SIZE \*

The simple steps listed below will make your job easier and assure fast, safe and watertight connections:	
<ol> <li>Service tubing should always be <u>snaked</u> in the ditch.</li> </ol>	

- 2. Use a tube or pipe cutter to assure a square end. Make sure pipe is round. On copper tubing, use a rounding tool, if necessary. Surface should be clean and free of
- \* 3. Insert stiffeners must be used with plastic tubing.
- 4. Stab tube through the nut and into the socket of the valve or fitting until it bottoms out (some fittings may or may not have a stop).
- 5. Tighten the McGrip "G" & "-3G" Series nut to the stop. The end face of the nut is to contact the stop face of the hody
- 6. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.
- 7. USE ONLY ON COLD WATER SERVICES.
- 3/4" .878 .879 .883 "-3G" Series Fittings Types of Pipe/Tubing for use with A.Y. McDonald Fittings 1.121 1.120 1.125 1" 1.129 1.130 1.135 (Outside Diameters listed) POLYETHYLENE 1 371 1 370 1 375 NOMINAL ASTM D2239 SDR7 1 1/4' 1.380 1.385 1.379 SI7F PIPE SIZE \* 1.045 1.625 1.621 1.619 3/4" 1 1/2' 1.110 (1.089) 1.637 1.630 1.631

2.120

TYPE K or L

COPPER

TUBE

.872

ΝΩΜΙΝΔΙ

SIZE

2"

- 2.130 2.131 () • Maximum pipe O.D. that will work with A.Y. McDonald fittings.

1.329

1.399 (1.384)

(Over)

**POLYBUTYLENE** 

ASTM D2666 SDR 9

**TUBE SIZE** 

CLASS 250

.875

.883

1.125

1.135

1.375

1.385

1.625

1.637

2.125

2.137

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2.125

2.137

**POLYBUTYLENE** 

ASTM D2666 SDR 9

**TUBE SIZE** 

CLASS 250

.875

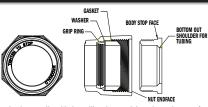
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# McGrip ("G" & "-3G") Series Compression Connectors



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TYPE K or L

COPPER

TUBE

.872

.878

1.121

1.129

1.371

1.379

1.621

1.630

2.120

2.130

NOMINA

SIZE

3/4"

1"

1 1/4"

1 1/2'

"G" Series Fittings Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

POLYETHYLENE

ASTM D2737 SDR 9

.871

.879

1.120

1.130

1.370

1.380

1.619

1.631

2.119

2.131

TUBE SIZE \*

Γhe	simple steps listed below will m	nake y	our job/	easier	and ass	ure f	ast, s	afe
and	watertight connections:							

- 1. Service tubing should always be **snaked** in the ditch. 2. Use a tube or pipe cutter to assure a square end. Make sure pipe is round. On copper tubing, use a rounding tool, if necessary. Surface should be clean and free of
- \* 3. Insert stiffeners must be used with plastic tubing.
- 4. Stab tube through the nut and into the socket of the valve or fitting until it bottoms out (some fittings may or may not have a stop).
- 5. Tighten the McGrip "G" & "-3G" Series nut to the stop. The end face of the nut is to contact the stop face of the hody
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- () Maximum pipe O.D. that will work with A.Y. McDonald fittings.
- 7. USE ONLY ON COLD WATER SERVICES.

NOMINAL

SIZE

3/4"

(Over)

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(Over)

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"-3G" Series Fittings

Types of Pipe/Tubing for use

with A.Y. McDonald Fittings

(Outside Diameters listed)

POLYETHYLENE

ASTM D2239 SDR7

1.045

1.110 (1.089)

1.329

1.399 (1.384)

PIPE SIZE AL



### McGrip ("G" & "-3G") Series Compression Connectors

A.Y. M<sup>o</sup>Donald waterworks products are designed for reliable service. Like all brass products, however, they can be damaged by improper handling and use.

#### **CAUTIONS**

- 1. Protect threads. Avoid loose fitting wrenches. Do not drop or impact.
- 2. Use extra care with high water pressures (over 100 PSIG) and pipe or tubing over 1". Consult factory if desired.
- 3. Inspect and test all joints, valves and fittings before backfilling.
- Backfill carefully so as to avoid damage to the service line and connections. Looping of the service lines is recommended to minimize strain.
- 5. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings

### Damage caused by improper use and/or handling will void our warranty.

(Over)

WARNING: It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.

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Installation Instructions

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Installation Instructions

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