

# Q-LINE WATER SERVICE TUBING

3/4" & 1" (20mm & 25mm)

## Q-Line®

Introducing Q-Line – a unique composite, water service tubing that combines the advantages of both metal and plastic, while eliminating their drawbacks. Now available from IPEX, the world's leading technical innovator in thermoplastic piping systems.

Manufactured by IPEX to AWWA C903-02, Q-Line is the only water service tubing in North America that delivers the strength of metal, the flexibility of soft copper and the durability of thermoplastic. What's more, because it eliminates the shortcomings of traditional piping materials, Q-Line is superior to them all.

### APPLICATIONS

- Water Service Tubing
- Municipal Watermains
- Reclaimed Water Applications

### STANDARDS



### ADVANTAGES

- 1 Engineered Composite Construction**  
A composite pipe constructed of flexible aluminum tubing permanently bonded between inner and outer layers of raised temperature polyethylene (PE-RT). Q-Line's unique structure offers optimum strength and toughness in a lightweight, easily handled and installed water service tubing.
- 2 Superior to Traditional Pipe**  
Unlike copper, Q-Line's non-corroding thermoplastic layers resist the most aggressive water conditions and hot-soil environments. Q-Line won't leach copper or other metallic ions, so the quality of drinking water is assured and service life is longer.
- 3 Potable Water Certified**  
Q-Line carries third-party ASTM F1282 and CSA B137.9 certification, as well as NSF-PW potable water certification, and meets all North American plumbing codes for water supply up to and inside the building.
- 4 High Flow Rates**  
With larger inside diameters than CTS polyethylene piping and a super-smooth interior wall that does not permit build-up of calcium or other minerals, Q-Line offers the best flow rates in the industry.
- 5 Handles Like Copper**  
Simply roll Q-Line tubing down the trench and it stays where it's laid (unlike plain polyethylene). You can make goosenecks and bends easily just as you would with copper, and Q-Line keeps its shape.

PE-RT  
Aluminum  
PE-RT



## CODES AND STANDARDS

Q-Line water service tubing is manufactured to AWWA C903, ASTM F1282 and CSA B137.9, and meets NSF-PW potable water requirements as well as requirements of the following national codes.

- National Plumbing code of Canada
- Uniform Plumbing Code
- International Plumbing Code
- International Residential Code
- National Standard Plumbing Code
- SBCCI Standard Plumbing Code

## MORE ADVANTAGES ...

### Built-in Permeation Barrier

Q-Line composite water service tubing has been successfully tested against the most aggressive contaminants, like termiticides.

### Zero Scrap Value

Because Q-Line's metallic core is permanently locked between layers of polyethylene, it has zero scrap metal value. So unlike copper and other valuable metals which are continually disappearing due to theft, Q-Line is more likely to stay on the job site where it's needed.

## SHORT FORM SPECIFICATIONS

### TUBING

Water service tubing shall be composite PE-AL-PE tubing manufactured in accordance with the requirements of AWWA C903 and certified to CSA B137.9 and ASTM F1282. It shall have a long term pressure rating of 1380kPa at 23°C (200 psi at 73°F) and 690kPa at 82°C (100 psi at 180°F).

The pipe shall be third-party tested and certified to comply with NSF-PW potable water and NSF CL-TD chlorine resistance requirements. The service tubing shall be colour coded light blue as manufactured by IPEX under the trade name "Q-Line" or approved equal.



### FITTINGS

Fittings for composite PE-AL-PE tubing shall be brass water service fittings conforming to AWWA C800.



## PRODUCT SELECTION CHART

### Q-Line Pipes

| Nominal Size |    | Product Code | Avg. ID |    | Min. Wall Thickness |     | Avg. OD |    | Min. Bending Radius |     | Coil Length |       |
|--------------|----|--------------|---------|----|---------------------|-----|---------|----|---------------------|-----|-------------|-------|
| in           | mm |              | in      | mm | in                  | mm  | in      | mm | in                  | mm  | ft          | m     |
| 3/4          | 20 | 115001       | 0.79    | 20 | 0.10                | 2.5 | 0.98    | 25 | 5.0                 | 125 | 150         | 45.7  |
| 3/4          | 20 | 115003       | 0.79    | 20 | 0.10                | 2.5 | 0.98    | 25 | 5.0                 | 125 | 1000        | 305.0 |
| 1            | 25 | 115004       | 0.98    | 25 | 0.14                | 3.5 | 1.26    | 32 | 6.3                 | 160 | 150         | 45.7  |

### Municipal Brass Water Service Fittings

| Description   | Product Code |
|---|--------------|
| 3/4" Q-Line x 3/4" Copper Compression, Universal Q-Line Adapter | 088083*      |
| 1" Q-Line x 1" Copper Compression, Universal Q-Line Adapter     | 088084*      |
| 3/4" Q-Line x 3/4" Male NPT Adapter                             | 088129       |
| 1" Q-Line x 1" Male NPT Adapter                                 | 088250       |
| 3/4" Q-Line Coupling  | 088131       |
| 1" Q-Line Coupling  | 088251       |

\* Adapts to any municipal valve with compression end.

**Note:** All brass fittings conform to AWWA C800 Standard for Underground Service Line Valves and Fittings.

## ONE OF A KIND

Q-Line has unique inside and outside diameters that are different both from copper and conventional PE service tubing. Easily installed adapters that allow Q-line to be used with standard brass fittings are widely available.