Wide Variety of Pipe Welding Options

The Polystar line also includes a comprehensive selection of pipe welding equipment and options including electrofusion, socket welding, and butt welding equipment.

**Electrofusion**
- New Polystar BEAT-TR electrofusion machine based on constant voltage technology
- Capable of welding any PE couplings
- Can be operated by bar codes

**Handheld socket fusion**
- Designed for pipe sizes up to 2” (63mm)

**Benchtop socket fusion**
- Designed for pipe sizes up to 4” (125mm)

**Butt fusion**
- Field butt welding machines for pipe sizes 2” to 12” (63 to 315mm)
- Twin combination electric butt welding and electrofusion processor equipment for pipe sizes 2” to 12” (63 to 315mm)
The Polystar™ Advanced Polypropylene Piping System

Manufactured using advanced materials for better performance & cost savings.

The Polystar line of polypropylene pipe uses cutting-edge materials to offer a higher-quality, better-performing piping solution.

All Polystar piping and fittings are made using a unique type of random copolymer polypropylene (PPR) material referred to as PP-RCT, an advanced high-crystallinity resin. An added layer of fiberglass provides additional strength and insulation.

Here’s why you should select Polystar for your next piping project:

Cost savings
- Polystar piping reduces thermal expansion by up to 70%, in turn reducing the number of expansion loops, elbow offsets, expansion joints, and additional elbows needed

Increased reliability
- Orion is the first company to offer a complete system — including the pipe and fittings — made from PP-RCT resin
- All fittings are injection molded to complement the pipes, offering true integrity

Multiple welding options
- Comprehensive selection of pipe welding equipment and options including electrofusion, socket welding, and butt welding equipment

Backed by expertise & support
- Orion has 35 plus years experience with piping, plastics, and electrofusion
- Backed by well-established network of sales representatives, distribution channels, factory support, and local support

Other features & benefits include:
- 3 classes of pipes for wide range of applications
- Gray color blends into a building’s environment
- Color-coded striping to differentiate pipe classes
- Full selection of pipe and fitting sizes
- All fittings work with all 3 classes of pipe
- Equal pressure ratings on fittings and pipe

Polystar is available in 3 classes of pipe to address varying applications & requirements:

**POLYSTAR CT-RED**
- Highest pressure-rated system
- Designed for higher-temperature applications such as hot potable water
- Offered in ½” to 12” (20 to 315mm) diameters

**POLYSTAR CT-WHITE**
- Designed for non-potable applications such as cooling towers & chilled water
- Ideal for industrial cooling & plant water and geothermal/hydranics
- Offered in ½” to 24” (20 to 630mm) diameters

**POLYSTAR CT-BLUE**
- Extruded without the fiberglass-reinforced middle layer
- Offers an economical choice
- Designed for ambient temperature applications such as cold potable water
- Offered in ½” to 24” (20 to 630mm) diameters
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Polystar is available in 3 classes of pipe to address varying applications & requirements:

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- Designed for higher-temperature applications such as hot potable water
- Offered in ½" to 12" (20 to 315mm) diameters

**POLYSTAR CT-WHITE**
- Designed for non-potable applications such as cooling towers & chilled water
- Ideal for industrial cooling & plant water and geothermal/hydyronic
- Offered in ½" to 24" (20 to 630mm) diameters

**POLYSTAR CT-BLUE**
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- Offers an economical choice
- Designed for ambient temperature applications such as cold potable water
- Offered in ½" to 24" (20 to 630mm) diameters

Polystar CT-White Pipe
Polystar CT-White is ideal for non-potable water applications such as cooling towers & chilled water, industrial cooling & plant water, and geothermal & hydronic.

**Features & benefits include:**
- Heated & straighter option vs. traditional geothermal piping
- Extruded with fiberglass-reinforced middle layer for added strength & insulation
- 220psi @ 73°F (23°C), 78psi @ 180°F (82°C) in 20-foot lengths sizes ½” to 4” (20 to 125mm)
- 139psi @ 73°F (23°C), 50psi @ 180°F (82°C) in 20-foot lengths sizes 6” to 24” (160 to 630mm)

**Wide Selection of Fittings & Valves**
- Fittings maintain same pressure ratings as pipe
- Injection molded in solid gray color without internal fiberglass layer or colored striping
- Socket fusion fittings for use with all 3 types of pipe sizes ½” through 4” (20 to 125mm) diameter
- Plain-end fittings for use with all 3 types of pipe sizes 6” to 24” (160 to 630mm) diameter
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Represented By:

Advanced Polypropylene Piping System

PolystarPipe.com