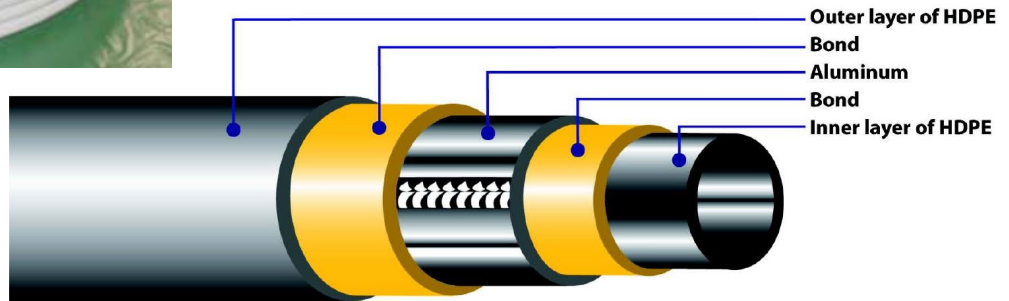




## IN-STOCK / PROFESSIONALLY SERVICED / COMPETITIVELY PRICED



Precise Equipment Company introduces **Mighty Pipe**, a five-layer composite pipe (HDPE-AL-HDPE) designed specifically for the delivery of compressed gasses in both industrial and specialty gas applications. Mighty Pipe's aluminum core provides both strength and flexibility, while its layers of durable high-density polyethylene (HDPE) plastic offers maximum protection in even the most extreme manufacturing environments.



**Mighty Pipe fully meets the ASTM F1282 standard required for the use of composite pipe in compressed gas delivery, including Inert/Oxygen Mix, CO2, Nitrogen, Helium, Argon, Argon/CO2, and other gases in both industrial and specialty gas application.**

In addition to providing Mighty Pipe in sizes of 1/2" (1216), 3/4" (2025), and 1" (2632), Precise Equipment Company offers a complete line of compression brass fittings, pipe cutters, reamers, lubricant, etc. Mighty Pipe fittings utilize double "O" rings for maximum seal protection.

### FEATURES

- **Working Pressure** - Maximum 250 psig @ 70°F (Lower at elevated temperature)
- **Highly Resistant** - Mighty Pipe, due to its HDPE inner and outer layers, is extremely resistant to corrosion, high temperatures, and high pressure.
- **Longevity** - Service life for Mighty Pipe is estimated to be up to 50 years.
- **Quick & Simple Installation** - Light-weight and flexible, Mighty Pipe offers speed and ease of installation unmatched by traditional piping materials. Additionally, Mighty Pipe can be cut quickly and cleanly allowing pipe lengths to be determined at will on site.
- **Safety Factors** - The polyethylene pipe is hygienic, toxin free, and protect against the growth of microorganisms, thus avoiding contamination. The inner wall is and remains smooth and scale free which allows superior flow performance to metal pipe of the same diameter over the lifetime of the pipe. Below 150 degrees, the pipe will not react to most acid or alkali solutions, enabling the pipe to be used in the chemical industry. The inside layer of aluminum is impermeable to oxygen and other gases.

## TECHNICAL INFORMATION

**Flammability Rating** – The Mighty Pipe has a special-purpose fire retardant injected during the manufacturing process which makes the high-density polyethylene layer of aluminum polyethylene composite pipe reach a UL94 V-0 rating.

**Gas Service** – Inert gas, compressed air, carbon dioxide, and inert gas and oxygen mix (Maximum oxygen 15%)

**Working Pressure** – Maximum 250 psig @ 70°F (Lower at elevated temperature)

**Burst Pressure** - 1000 psig @ 70°F

**Temperature Range** - -40°C to 60°C (-40°F to 140°F)

**Thermal Conductivity** – 0.45 w/(m.k)

**Coefficient of thermal expansion** – 0.025 mm

**Bend Radius** - ≥ 5D (D = outside diameter)

**Oxygen permeability** – 0

**Coefficient of roughness** – 0.004 mm

**US and Canadian Standards** – ASTM F1282 and CSA B137.9, International standards for other countries available.

**Fittings** – Nickel plated brass for corrosion resistance finish. Mighty Pipe fittings have two O-ring for superior seal and utilize a split ring and locking nut. Mighty Pipe fitting also incorporates a polyethylene washer located at where the fitting and composite pipe junction to isolate the aluminum inner core from the brass fitting preventing dissimilar metal corrosion.

**US Standard** – ASTM F 1974

**Pipe and Fitting Assemble** – The Mighty Pipe fitting is a compression type fitting using double O-ring seals, a C-ring over the pipe and a nut that compresses the C-ring over the O-rings to create a superior seal. Bending Mighty Pipe – Mighty pipe can be easily bent by hand and will retain its shape after bending. The minimum bend radius is pipe dia. x 5.

**Mighty Pipe Support** – The Mighty Pipe clips are non-magnetic and can be mounted to virtually any surface. The pipe is secured in place by mounting clip locking tabs. Mighty Pipe should be supported at a maximum of 8' intervals.

## PARTS LIST

	Size	PEC Part Number
Pipe, Full Coil	1/2", 164' Coil	MP-1216
	3/4", 164' Coil	MP-2025
	1", 300' Coil	MP-2632F
Pipe, 1/2 Coil	1", 150' Coil	MP-2632HC
Male Adapter	1/2" x 1/2" NPT	MP-MA-1216-1216
	3/4" x 1/2" NPT	MP-MA-2025-1216
	3/4" x 3/4" NPT	MP-MA-2025-2025
	1" x 1/2" NPT	MP-MA-2632-1216
	1" x 1" NPT	MP-MA-2632-2632
Elbow, Equal	1/2" Wall Mount	MP-EL-1216WM
	1/2"	MP-EL-1216
	3/4"	MP-EL-2025
	1"	MP-EL-2632
Elbow, Reducing	3/4" x 1/2"	MP-ELR-2025-1216
	1" x 3/4"	MP-ELR-2632-2025
Tee, Equal	1/2"	MP-T-1216
	3/4"	MP-T-2025
	1"	MP-T-2632
Tee, Reducing *	3/4" x 3/4" x 1/2"	MP-TR-2025-1216
	1" x 1" x 1/2"	MP-TR-2632-1216
	1" x 1" x 3/4"	MP-TR-2632-2025
Union	1/2"	MP-U-1216
	3/4"	MP-U-2025
	1"	MP-U-2632
Union Reducing	3/4" x 1/2"	MP-UR-2025-1216
	1" x 1/2"	MP-UR-2632-1216
	1" x 3/4"	MP-UR-2632-2025
Cap	1/2"	MP-C-1216
	3/4"	MP-C-2025
	1"	MP-C-2632
Clic Hangers	1/2"	MP-CLP-1216
	3/4"	MP-CLP-2025
	1"	MP-CLP-2632
Ball Valves	1/2"	BV1000-2
	3/4"	BV1000-3
	1"	BV1000-4
	1/2" Pipe to Pipe	MP-BV-1216PP
	3/4" Pipe to Pipe	MP-BV-2025PP
	1" Pipe to Pipe	MP-BV-2632PP
	1/2" Pipe to NPT	MP-BV-1216PT
	3/4" Pipe to NPT	MP-BV-2025PT
1" Pipe to NPT	MP-BV-2632PT	
"o" Ring	1/2"	MP-O-1216
	3/4"	MP-O-2025
	1"	MP-O-2632
Other	Cutter	MP-CTR
	Reamer	MP-RMR
	O-Ring Lube	MP-LUB