

PIPE – John Guest

This range of pipes, made in plastic – Low Linear Polyethylene density, are realised for applications in hot and cold water in recurrent way. Our pipes show their best performances for a huge field of temperatures and pressures, an extensive chemical compatibility made in material with no contaminants.

Most common applications are used for water purification processes, water refrigerations, ice makers and dampers.

LLDPE pipes are stronger than traditional ones made in low and medium density polyethylene and they can be used for intermittent hot water.

Our pipes are certificated from NSF (NSF51 and NSF61), from the English WRC and FDA for the use of the raw material. Pipe made in LLDPE is in line with the John Guest connections and for all the rest of standard fittings as well.



Pressure and temperature of working

O.D.		I.D.	O.D.		I.D.
1/4"	x	0,170"	1/2"	x	0,375"
5/16"	x	0,187"	10 mm	x	7 mm"
3/8"	x	0,25"	12 mm	x	9 mm"
15 bar @ 20°C			10 bar @ 20°C		
8 bar @ 60°C			6 bar @ 60°C		
4 bar @ 80°C			3 bar @ 80°C		

The maximum temperature of working is 80°C in reference to the pattern above

The burst pressure is approximately three times the working pressure.

If pipes have been used in a hot water system, it can be necessary an insert for pipe. Maximum pressure of the system depends from the weakest component, for example the most part of John Guest components have different field of pertinence in reference to what indicated before.

Chemical resistance:

For a chemical or liquid products, please to contact our technical service office.

LLDPE pipes haven't used for mineral oils, gas and fuels.

Dimensions

Code	O.D.	I.D.	Lenght	Min. Radius Curving
PE-08-BI-0500F-N 1/4"	(=6,35 mm)	0.170" (=4,32)	500 FT (=152,4 m)	25 mm
PE-10-CI-0500F-N 5/16"	(=7,93 mm)	0.170" (=4,32)	500 FT (=152,4 m)	29 mm

PE-12-EI-0500F-N 3/8"	(=9,53 mm)	0.170" (=4,32)	500 FT (=152,4 m)	32 mm
PE-16-CI-O250F-N1/2"	(=12,7 mm)	0.375" (=9,53)	250 FT (=76,2 mm)	64 mm
PE-1007-100-M- N	10 mm	7 mm	100 m	32 mm
PE-1209-100-M-N	12 mm	9 mm	100 m	63 mm

Pipe made in linear polyethylene

Technical features

Maximum temperature of working +82 °C at 4 bar

Maximum pressure of working 15.6 bar at 21°C

Diameter 1/4" external (6,35 mm external, 4,32mm internal)
3/8" external (9,52 mm external, 6,35mm internal)

0,02 – 0,1 mm on external diameter

John Guest's Pipes are:

- Designed for drinkable water
- NSF, WRC and FD approved
- Flexible and strong
- External diameter 1/4" (=6,35mm) and 3/8" (=9,52mm)

Pipe available in roll of 500' (=152,4m)

LLDPE pipe is not recommend for compressed air, mineral oil, gas and fuels.

Pressure – Temperature of the LLDPE pipe

Pressure of working showed is based on a security factor close to 3:1. Maximum pressure of working decreases to increasing of the working pressure.

15,6 bar to 21°C – 8,2 bar to 65°C – 4,1 bar to 82°C

Ø Pipe 1/4" (6,35 mm x 4,3 mm) Ø Pipe 3/8" (9,52 mm x 6,35 mm)



Code	Colour	Code	Colour
PE-08-BI 0500F-N	Neutral	PE-12-EI 0500F-N	Neutrol
PE-08-BI-0500F-W	white	PE-12-EI-0500F-W	White
PE-08-BI-0500F-B	blue	PE-12-EI-0500F-B	blue
PE-08-BI-0500F-R	red	PE-12-EI-0500F-R	red
PE-08-BI-0500F-E	black	PE-12-EI-0500F-E	black

PE-08-BI-0500F-G
PE-08-BI-0500F-Y
PE-08-BI-0500F-O
PE-08-BI-0500F-V

green
yellow
orange
violet

PE-12-EI-0500F-G
PE-12-EI-0500F-Y
PE-12-EI-0500F-O
PE-12-EI-0500F-V

green
yellow
orange
violet