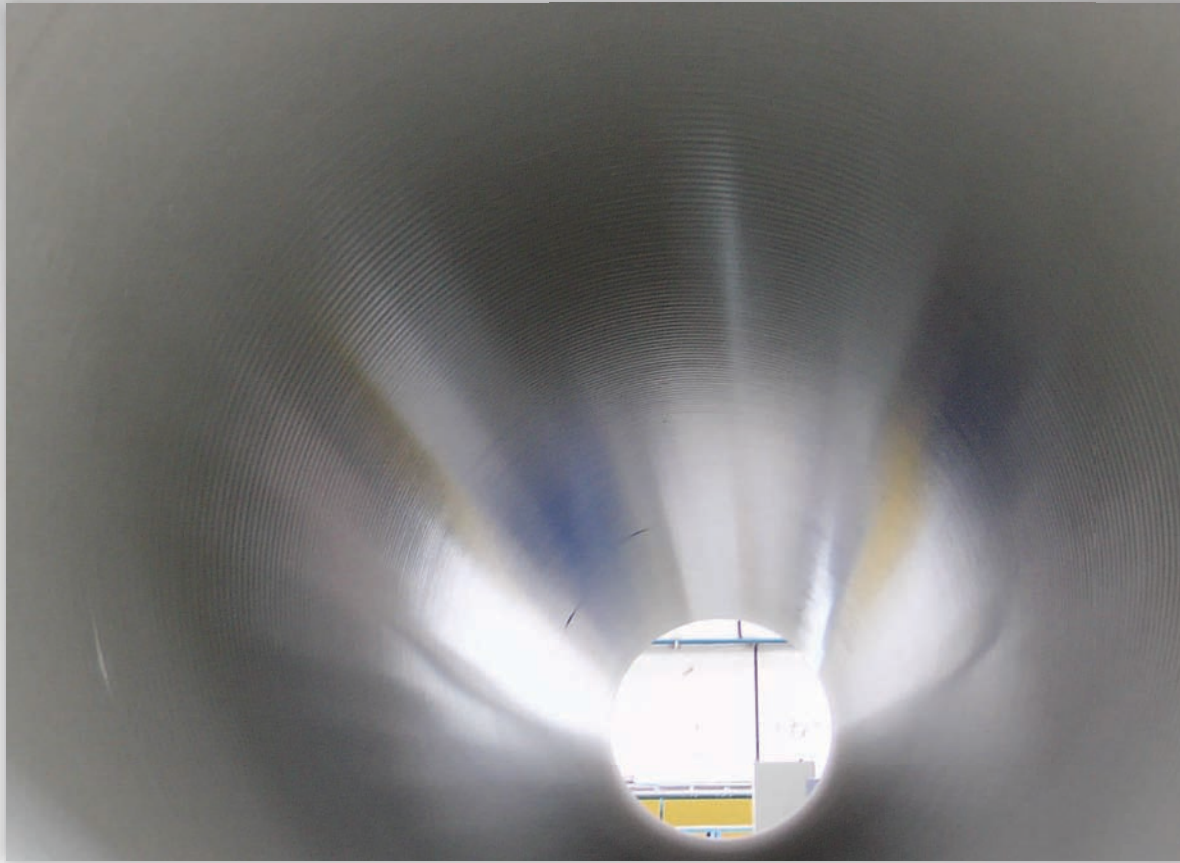


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Pacific Power Pipes for Penstocks.

Pacific Pipe Systems range of GRP Power pipes are designed specially for penstock applications in smaller hydropower installations. Pacific Power range of pipes are manufactured in the diameter range 100 mm to 3000 mm and for working pressures up to 32 bar. It is a high axial strength pipe to withstand the often challenging conditions in installation and operation of penstock pipes. Pacific Power pipes can be supplied in both restrained and unrestrained systems as per individual project requirements. It is used for buried and above ground installation, in trenches or on supports. It is a very smooth bore and abrasion resistant pipe with no reduction in the hydraulic properties over time.

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Pacific pipes for penstocks:

GRP pipes have been specified and used for penstock applications in smaller hydropower plants since the early 1970's and the pipe material has an excellent performance record for these applications.

It has been widely used in Scandinavia, Austria, Switzerland and many other countries outside Europe. There are about 300 GRP pipe penstocks in Norway alone. These penstocks operate during very warm summers and during extreme winters with snow and sub zero temperatures reaching to - 40C.

The light weight material combined with corrosion resistance and high strength makes Pacific Power Pipes the material of choice for penstocks. Site accessibility is often a major constraint during the installation of penstocks. The pipes can be supplied in any length to suit site conditions and the selected installation method. The light weight compared to alternative materials makes it possible to manhandle shorter pipe lengths when penstocks are installed in very steep slopes inaccessible for construction machinery.

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Benefits of Pacific Power Pipes:

- P** Corrosion resistant material - No need for linings, coatings, cathodic protection or other forms of corrosion protection.
- P** Hydraulic characteristics essentially constant over time. Abrasion resistant.
- P** Mechanical properties remaining the same from -60C to +50C.
- P** Low headloss due to smooth inner surface.
- P** Pressure of water hammer approx. 50% less, compared to metallic pipes at similar conditions.
- P** UV resistant light, reflective color.
- P** Low operating costs.
- P** No corrosion surveys required.
- P** Low maintenance costs and long service life.
- P** Full engineering and installation support provided by Pacific Pipe Systems.



Pacific GRP Pipe Systems

GRP pipes have a history spanning more than 60 years and with well proven and tested standards. The most commonly used are AWWA, ASTM and ISO standards and those are also the base for the Indian BIS standards. In the early days, due to the higher cost of raw materials, GRP pipes had a disadvantage against metallic pipes but even in this situation, GRP pipes were the fastest growing pipe material in the world in market share. It was supplied at a premium price due to the benefits in corrosion resistance and long term performance. Since then the raw material cost ratio has changed to the advantage of GRP pipes over metallic pipes. Now we supply a superior product at a more competitive price than traditional pipe materials.

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