

PVC Pressure Pipe

Steel & Ductile Iron O.D.

Bionax™ PVC Pressure Pipe A Revolution In Strength, Toughness and Flexibility



Bionax is a molecularly-enhanced PVC pipe designed for water mains, sewage force mains, irrigation lines and industrial process piping. Made from biaxially-oriented PVC material, Bionax has almost double the strength of conventional PVC and three times the impact absorption capability. While millions of feet of earlier versions of oriented PVC have been installed, Bionax is manufactured using a revolutionary new orientation process, previously unavailable in North America. This ultra high-tech process orients the PVC molecules both in the axial and circumferential directions (biaxial orientation), resulting in a pipe with enhanced toughness and flexibility even when compared to earlier versions of oriented PVC.

Bionax is specially engineered to withstand the rigors of today's installations. With less construction inspection, and less regular maintenance, the market is calling for a pipe that is more robust, stronger and easier to install. Bionax delivers on all three counts.

The First Biaxially-Oriented PVC Pipe for Municipal Applications

Bionax's biaxial orientation dramatically enhances the pipe properties that are important to municipal designers:

- Larger internal diameters increase flow rates and reduce pumping costs.
- Greater cyclic fatigue resistance for forcemain and irrigation applications.
- Reduced bend radius when compared to standard PVC pipe.

NOTES:

- For more information on Bionax PVC pipe please call your local Team EJP Sales Office.
- See next page for ordering information.

Features & Benefits:

- Almost double the strength of conventional PVC (7,100 psi versus 4,000 psi). This higher strength allows higher internal diameters and reduces pumping costs.
- Triple the impact strength of standard PVC pipe. Bionax can withstand even the most extreme job site abuse with no damage.
- Resists cracking and splitting – Bionax's unique structure of stratified layers stops crack propagation, localizing and pipe damage.
- Highly flexible – Bionax can be bent and crushed with little damage. Its biaxial orientation allows a much lower bend radius than standard PVC.
- The most certified product on the market – Bionax is third-party certified to AWWA and ASTM standards, the only pipe on the market with such impressive third-party testing.
- Code Compliant – Bionax also conforms to the performance requirements of the CSA B137.3 standard.



Crush Resistant

Bionax's advanced molecular alignment gives it the ability to withstand extreme compressive forces and can be crushed completely flat without failure, cracking or splitting.



Impact Resistant

With three times the impact strength of regular PVC, Bionax's can handle the most punishing storage, handling and construction site conditions.

Pipe A-23

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Lower Bend Radius

With a lower bend radius than regular PVC, Bionax can tolerate extreme bending pressure that would damage or destroy any other piping system.



Tapping Strength

Bionax's unique structural design allows tapping holes to be drilled close together without the risk of splitting or cracking.

Lightweight & Easy to Handle

40% lighter than conventional PVC, Bionax is safer and easier to carry. This means less equipment is required and installation is fast and efficient. Bionax's increased flexibility means a reduced bending radius that allows it to fit around gradual curves. In fact, Bionax is so light and flexible that several joined lengths can be lifted as a single unit and installed in a trench, further speeding installation.



Reduced Maintenance & Pumping Costs

Bionax's increased strength allows greater inside diameters for the same pressure rating, reducing pumping costs. The smooth inside surface maintains its excellent hydraulic properties virtually forever with extremely low maintenance costs, saving energy associated with pumping and maintaining its superior flow profile.

Manufacturing Consistency & Quality

Bionax's ultra high-tech manufacturing process ensures that the pipe will always meet the toughest standards. In fact, the initial stock pipe must be absolutely flawless in order to survive the orientation process – in essence, the process acts as its own quality control. Bionax is 100% I.D. and O.D. controlled, meaning that its tolerances are much tighter than conventional pipe.

Joining Methods

Bionax's standard joining method uses easy to assemble gasketed joints. No special training is required to install Bionax as the procedure is virtually identical to standard PVC pipe. In addition, Bionax can be successfully solvent cemented for above ground applications.

Integrated Total PVC Solutions

Bionax offers a totally-integrated solution. The entire end-to-end system integrates seamlessly and is compatible with regular C900 and C907 fittings.

Applications:

- Water Mains
- Sewage Force Mains
- Irrigation Lines
- Industrial Process Piping

PIPE SIZE	DESCRIPTION CAST IRON O.D.	O. D.	PRODUCT NUMBER
4"	4 x 20 Bionax PVC Pipe CIOD	4.80	22071
6"	6 x 20 Bionax PVC Pipe CIOD	6.90	22111
8"	8 x 20 Bionax PVC Pipe CIOD	9.10	22151
10"	10 x 20 Bionax PVC Pipe CIOD	11.10	22172
12"	12 x 20 Bionax PVC Pipe CIOD	13.20	22192
235 PSI PRESSURE RATING AT 73.3°F			

PIPE SIZE	DESCRIPTION IRON PIPE SIZE O.D.	O. D.	PRODUCT NUMBER
4"	4 x 20 Bionax PVC Pipe IPSOD	4.50	22072
6"	6 x 20 Bionax PVC Pipe IPSOD	6.60	22112
8"	8 x 20 Bionax PVC Pipe IPSOD	8.60	22152
10"	10 x 20 Bionax PVC Pipe IPSOD	10.70	22173
12"	12 x 20 Bionax PVC Pipe IPSOD	12.80	22193
160 PSI PRESSURE RATING AT 73.3°F			