



Fact-Checking DIPRA's Irresponsible Statements on PVC

As PVC continues to replace deteriorating iron water lines across America, it's no surprise the Ductile Iron Pipe Research Association (DIPRA) would have a few things to say. Here are some of DIPRA's comments on PVC, along with the facts to set the record straight.

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The Dangers of Using PVC

Note DIPRA's deceptive rhetoric to divert attention from its own failures, such as corroding iron pipes that can contaminate water supplies.

Duplicious. More and more municipalities are using PVC, and the NSF has certified PVC for water delivery.

DIPRA won't tell you regulations on PVC production prevent this ...

We'll assume DIPRA didn't get the memo that experts place a 100+ year life span on PVC ...

Just because DIPRA says it doesn't make it so. PVC is proven to reduce water main breaks in extreme temperature, unlike iron.

Why, then, are financially-strapped municipalities choosing PVC to replace iron? Because PVC is cost-effective - that's why.

Just because installation and maintenance of PVC is different from iron doesn't make it any "more difficult" or "dangerous." Stunning.

Serious, deeply troubling and proven health concerns are associated with polyvinyl chloride (PVC). The concerns are so great that cities, towns and companies around the world are banning or restricting its use. PVC Production creates dangerous chemicals like dioxins and other toxins that have been shown to cause cancer and birth defects. In fact, "cancer clusters" have been discovered near factories that produce PVC.

While the PVC pipe industry touts its product as a superior alternative to Ductile Iron Pipe, the facts suggest otherwise: This sentence fragment is the only accurate statement in this entire piece.

- PVC pipe is weak. It cannot withstand stress, especially common differential stresses that result in localized weak points.
- The longevity of PVC pipe is dependent on stress and time—the greater the stress, the sooner it will fail.
- PVC pipe is sensitive to ambient temperatures (in low temperatures, PVC becomes increasingly brittle and can break more easily, while in warmer environments PVC becomes weaker).
- PVC pipe loses impact strength if exposed to ultraviolet rays - PVC can lose up to 34% of its impact strength after about one year of exposure to UV radiation.
- PVC has higher pumping and energy costs. It is more expensive to pump through PVC pipe than Ductile Iron Pipe because Ductile Iron Pipe has a larger inside diameter.
- PVC pipe is more difficult to install. It requires a much more substantial backfill, and it must be installed with tracing wire to ensure it can be located in the future.
- PVC pipe is susceptible to damage from real-world shipping and handling conditions. A scratch deeper than the thickness of a dime can compromise an entire length of PVC pipe.
- Tapping PVC pipe is difficult and time-consuming and can be dangerous - resulting in cracked pipes, injured workers, and severe water loss.
- Locating a leak in PVC pipe is extremely difficult. Most locating techniques involve transmitting sound waves down the pipeline, sound waves that do not travel well in plastic pipe.
- PVC pipe is susceptible to recurring interruptions in its supply chain, which has resulted in several "force majeure" notifications of loss of production capacity to its customers.



Perhaps DIPRA's most dishonest and irresponsible comment yet. Would DIPRA like to comment on actual reports that Flint, MI's aging metal pipe infrastructure may be contributing to the city's current water / health crisis?

... which has no relevance whatsoever because these pipes are (wait for it) underground.

Dangers of Using PVC Pipe

Note DIPRA's use of "susceptible" here to avoid any accountability.

PVC is man-made and can be manufactured at will. Iron ore, conversely, must be mined and is at the whim of market availability.

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