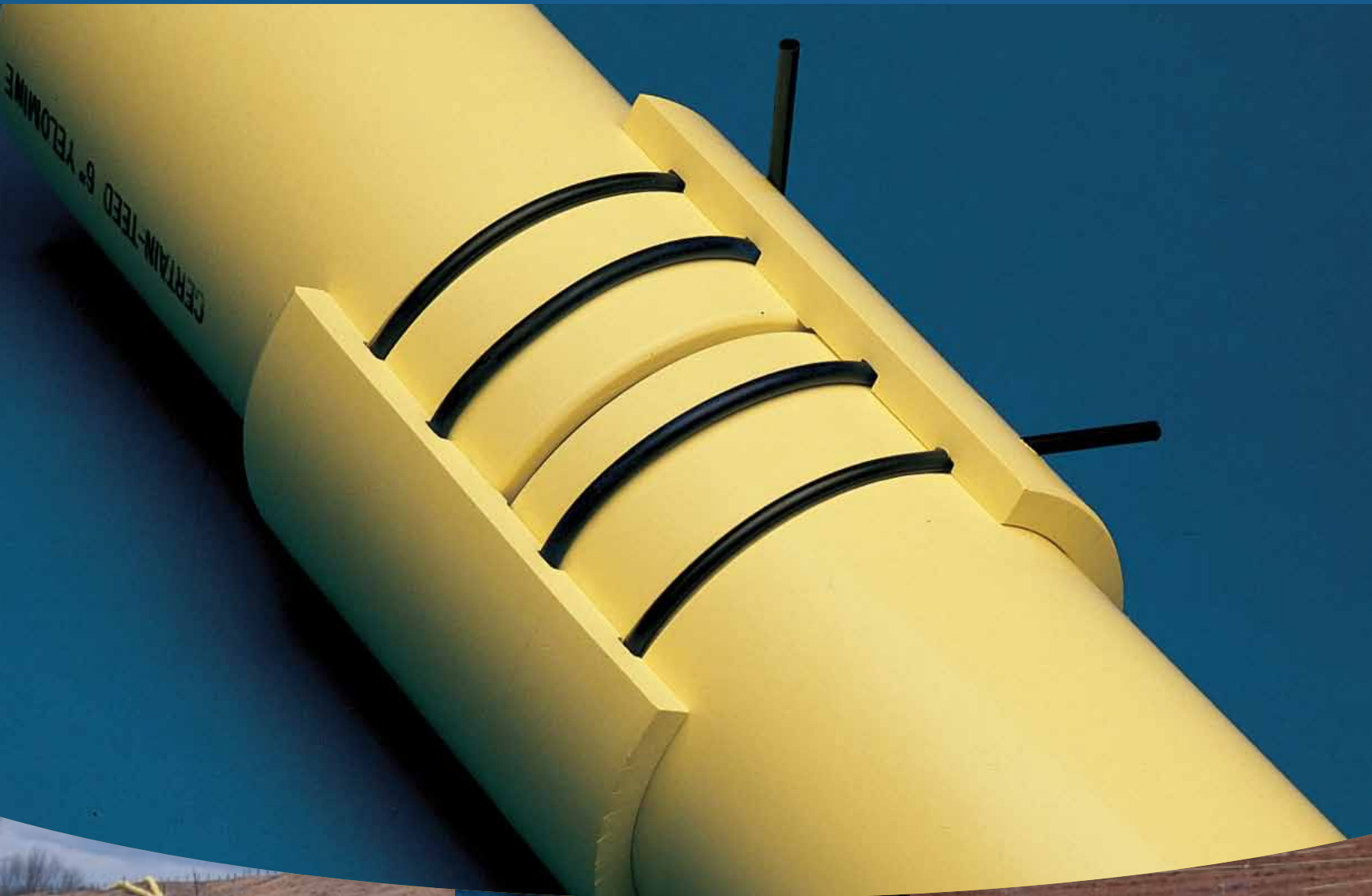


CertainTeed

Certa-Lok™ Yelomine

Fluid Transfer for Mining and Energy



CertainTeed
SAINT-GOBAIN

Certa-Lok Yelomine

Certa-Lok Yelomine features the unique Certa-Lok self-restraining joint, with precision-engineered grooves that, when aligned, allow a spline to be inserted that instantly creates a fully circumferential restrained joint that locks pipe and coupling together; flexible elastomeric O-rings in the coupling provide a hydraulic pressure seal. The beauty of this system is:

- Pipe sections can be assembled quickly in all weather conditions
- No solvents, heat fusing or reinforcing attachments required
- Sections can be easily disassembled and reconfigured, a real advantage to workers moving pipe from site to site

Underground Mining

Certa-Lok Yelomine can be used for a variety of mining applications, including dust control, fire protection and dewatering. Its design and construction offer a number of important benefits.

- Outstanding impact strength – average impact values up to 5x greater than conventional PVC
- Easy assembly, with no special training or equipment required
- Pipe wall thickness can be less than half that of comparable HDPE pipe for significantly reduced weight, greater pump efficiencies and increased flow rates with minimal loss



Above-ground Leaching

Certa-Lok Yelomine comes in a variety of sizes, providing a complete solution for leach mining needs. Large diameter Certa-Lok Yelomine can be used for mainline water transport. Smaller diameters are also available for use as laterals in either sprinkler or drip applications.

- Will not degrade in sunlight, thanks to enhanced UV inhibitors
- Can be shallow buried, allowing equipment easy access to the site without the time and expense of moving the pipe

Water Transfer

The Certa-Lok Yelomine piping system is a dependable, leak-free and highly efficient system for moving large amounts of water to and from natural gas production sites.

Certa-Lok Yelomine is an excellent upgrade from other piping alternatives and is much more environmentally friendly (and much less destructive) than long lines of tanker trucks.

- Ease of assembly, particularly valuable in very tight conditions; no fusing equipment required, as with HDPE
- Leak-free operation, which is especially important in areas where water is less abundant, increasingly expensive and use of recycled flowback is mandated
- Impact modifiers ensure that the pipeline maintains its durability and leak-free integrity despite frequent handling between locations



Saves Time & Money Through...

Efficiency
Performance
Simplicity
Sustainability

Features and Benefits of Certa-Lok Yelomine

- **Leakproof operation**

Certa-Lok restrained joint provides operators with a reliable water supply by maintaining a watertight seal even after multiple disassembly/reassembly cycles.



- **Durability**

Modified PVC counteracts potentially damaging effects of prolonged exposure to sunlight. Impact modifier prevents damage despite frequent handling between locations.

- **Corrosion resistance**

Will not rust or corrode. Extremely resistant to harsh environments, acids and most chemicals. Smooth interior surface improves water flow, reducing pumping costs.



- **Speed of assembly**

The Certa-Lok spline joint makes Yelomine components easy to install and disassemble for relocation and reuse. No solvents or butt fusion welding needed. Can be installed with minimal space.

- **Easy to handle**

Certa-Lok pipe is available in convenient lengths that can be moved and set up without heavy equipment or special tooling.

- **Lighter weight**

Significantly higher tensile strength – pipe wall thickness can be less than half that of comparable HDPE and achieve the same pressure rating.



- **Improved flow**

More flow area due to thinner walls results in lower frictional loss, better pumping efficiencies and cost savings.

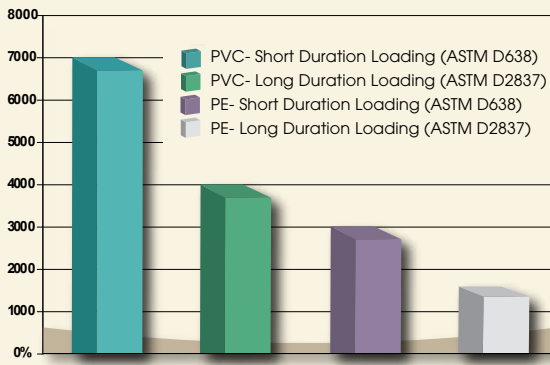
Certa-Lok Yelomine PVC pipe has significantly higher tensile strength, allowing the pipe wall thickness to be less than half that of comparable HDPE pipe – lighter weight means easier to use

Material Comparison

Certa-Lok Yelomine PVC vs. HDPE

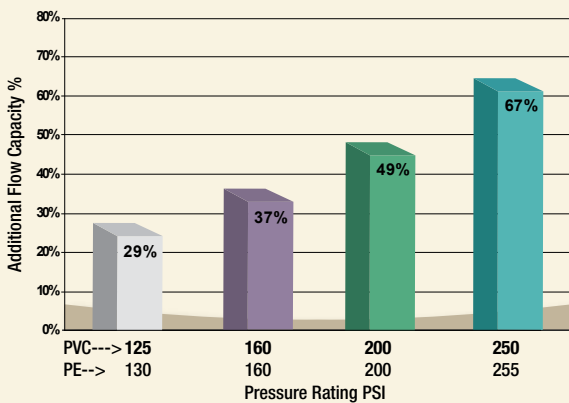
(8" Pipe 200 PSI Rating)

Tensile Strength, psi (Fig. 1)



As a result of thinner walls, Certa-Lok Yelomine has greater flow capacity than HDPE at similar pressure ratings – saving you time and energy.

PVC Pipe Additional Flow Capacity Compared to PE Pipe of a Similar Pressure Rating (Fig. 2)



Note 1: PVC is compared to the closest PE pressure class

Note 2: Comparison based on similar pressure drop along a pipeline's length (percentage values are independent of flow velocity)

Note 3: PE must often be upsized at significant cost to achieve comparable low performance



Certa-Lok Yelomine

HDPE

OD: 8.625	OD: 8.625
SDR 21	SDR 9
Min. Wall: 0.411	Min. Wall: 0.958
ID: 7.804	ID: 6.708
Flow (GPM): 745	Flow (GPM): 501

Despite a 57% thinner wall, which results in a 33% weight savings, Yelomine has the same pressure rating

- Thinner wall increases inside diameter flow area by 16%
- Larger flow area increases flow capacity by 49%*

*Comparison is based on similar pressure drop along a pipeline's length



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