

Damaging Effects of Water Hammer on PEX Joints

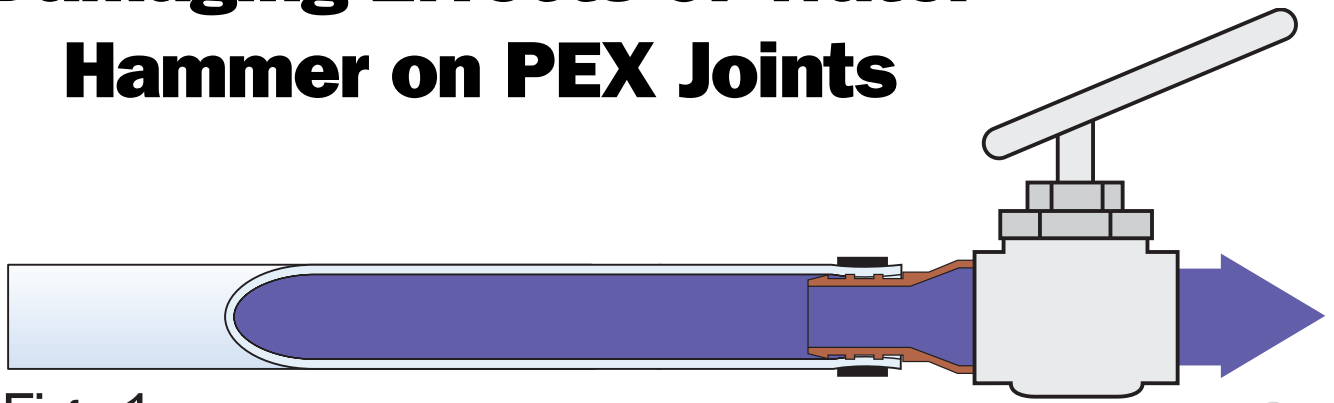


Fig. 1

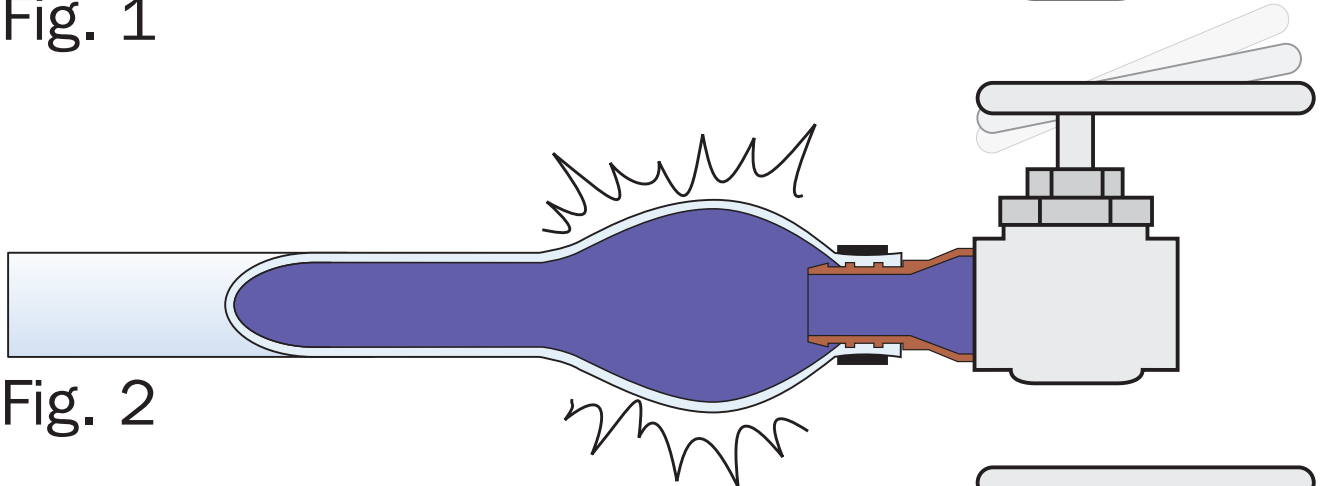


Fig. 2

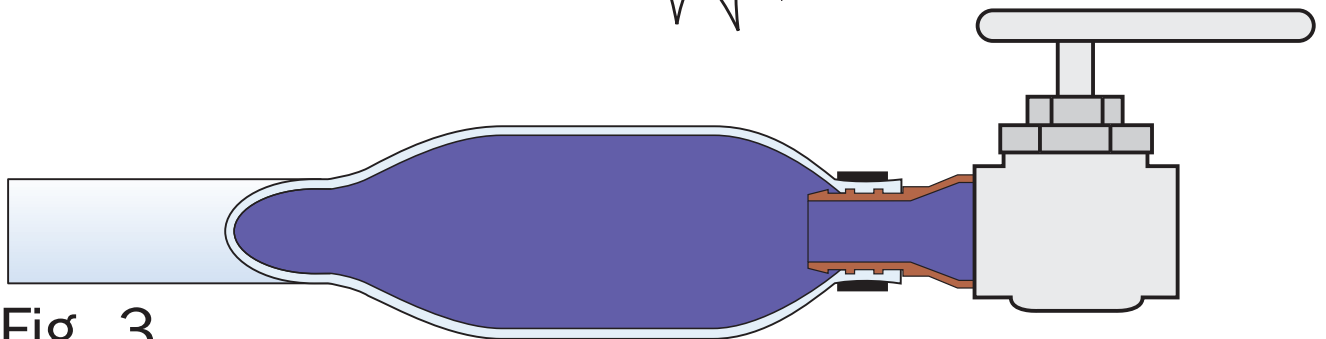


Fig. 3

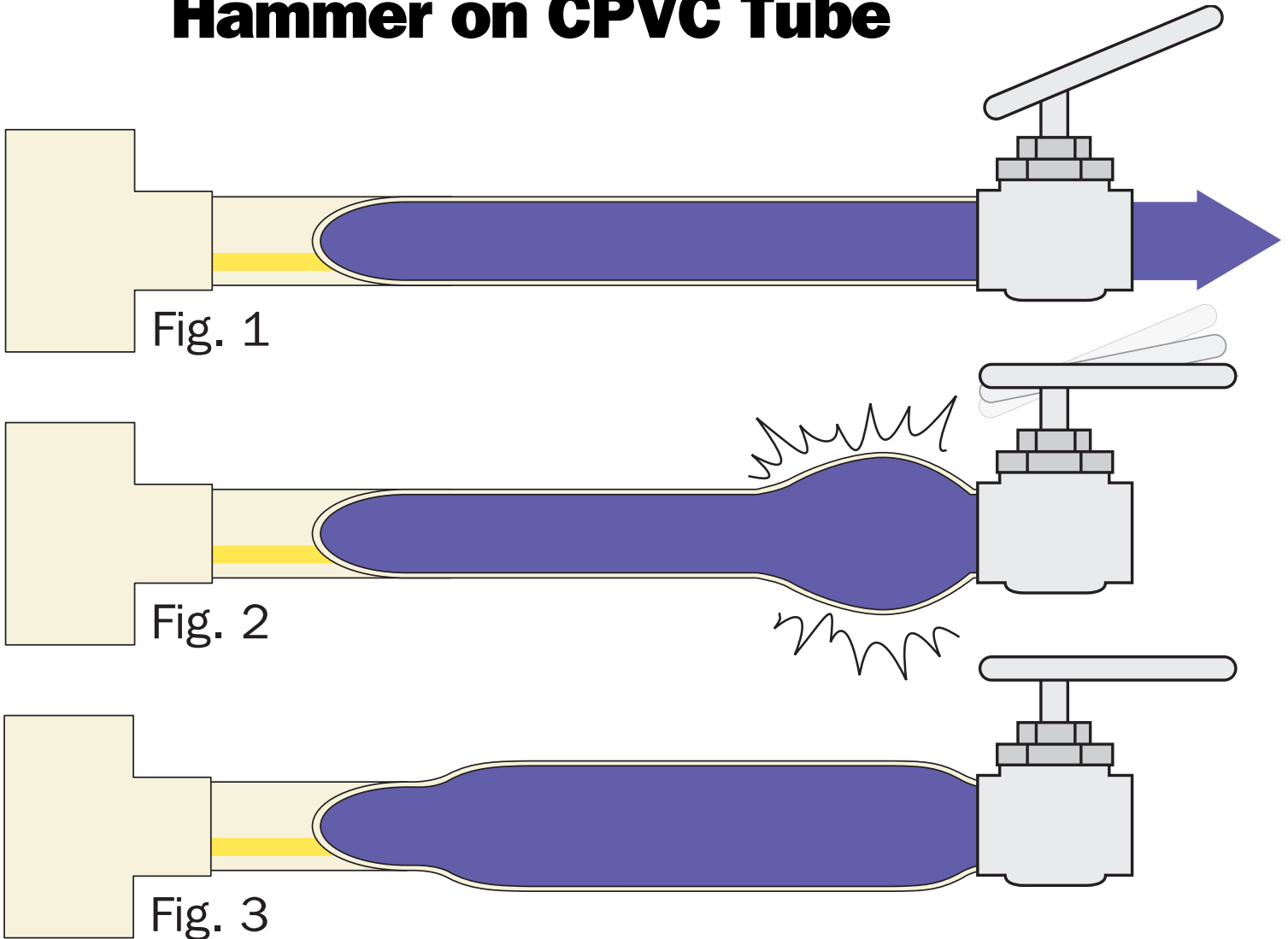
- 1:** Normal water flow through quick-closing valve
- 2:** High-pressure shock wave created by quick-closing valve slams into PEX joint sending water under intense pressure into space between tube and fitting barbs forming a “water wedge.”
- 3:** As shock wave travels upstream, seeking relief, the tube strains to accommodate the abnormally high water pressure. This straining can lead to diminished elasticity of the tube wall over time.



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Damaging Effects of Water Hammer on CPVC Tube



1: Normal water flow through quick-closing valve

2: High-pressure shock wave created by quick-closing valve slams into valve. The water closest to the valve becomes very highly pressured, and distends the tube for relief.

3: As shock wave travels upstream, seeking further relief, the tube strains to accommodate the abnormally high water pressure. This straining can lead to diminished elasticity of the tube wall over time.



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