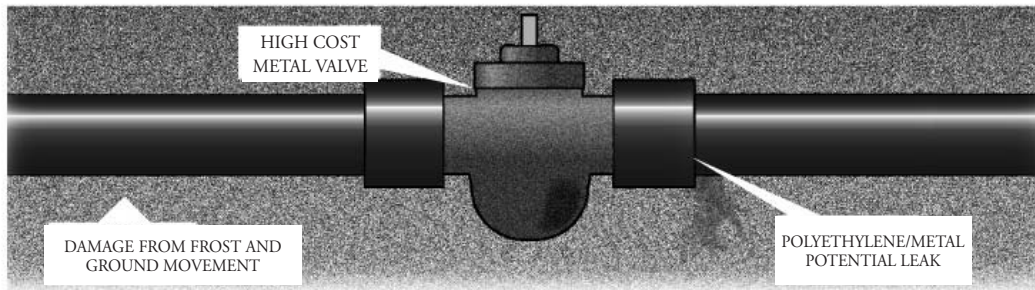


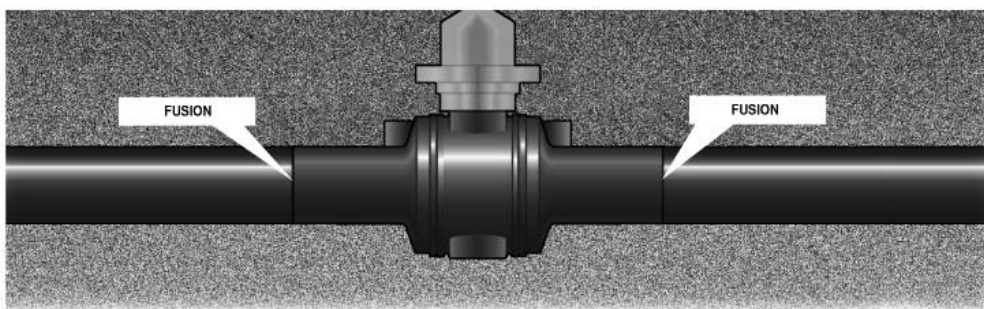
POLYVALVE™

Why use polyethylene valves ?



Polyethylene Pipe-to-Metal Valve Installation:

- Subject to inherent weakness of combining incompatible materials.
- Vulnerable to ground movement.
- 30% of fluid is lost due to leaks.



All-Polyethylene Systems:

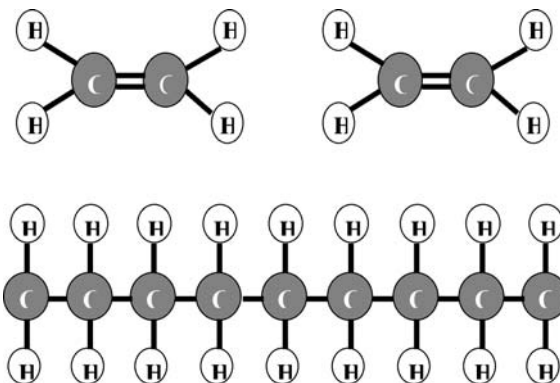
- Extremely reliable : the valve is an integral part of the pipe.
- No leak points : no risk of corrosion, no coatings required.
- Flexible polyethylene systems are less subject to ground movement.



POLYVALVE™

What is Polyethylene (PE) ?

- PE is manufactured from ethylene gas by the addition of a catalyst, at elevated pressures and temperatures, in a controlled atmosphere.
- PE forms through a reaction of the catalyst with ethylene gas, which breaks the double bond, and forms a long chain of linked carbon and hydrogen atoms.



History of Polyethylene

- First invented in England in 1933, by the Imperial Chemical Company and first commercialized in 1939, when used to insulate telephone and coaxial cables.
- Low pressure manufacturing method first introduced in the 1950's.
- First used as piping material for natural gas distribution in the early 1960's.

What are the advantages of Polyethylene ?

- Several types of PE can meet requirements of different applications.
- Flexible Material which follows ground movements.
- Weldability allows a continuous, homogeneous network.
- Long life reduces operating costs.
- Chemical and electrical inertia prevent from corrosion and give good resistance to abrasion.
- Mechanical properties allow resistance to freeze and field abuse.
- Lightness allow an easy installation.
- Low frictional coefficient reduces pressure loss.

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