

## THERMOPLASTIC VALVES

Process Piping > Thermoplastic Valves

**BALL, BALL CHECK, DIAPHRAGM, SWING, CHECK, WAFER, BUTTERFLY**

Since the introduction of PVC in the 1940's, thermoplastic valves have gained wide acceptance and tend to be the material of choice.

### BENEFITS INCLUDE:

- Non-Toxic
- Corrosion Resistance

They are dielectric, meaning they will not support a charge and will remain free from the ionization and corrosion that occurs with metal valves.

- Extended Service Life

Plastic valves are not affected by normal environmental conditions, providing years of maintenance-free service.

- Low Thermal Conductivity

Valves have a much lower thermal conductivity than metal valves. Thus, heat loss or gain is greatly reduced. Pipe insulation is rarely required.

- Improved Flow Rates

Valves have a high flow coefficient and unlike metal valves they will not pit, rust or corrode. Their interior walls are molded with an ultra smooth finish that remains smooth throughout the valve's service life - resulting in consistent flow rates over time. Pipe insulation is rarely required.

- High Temperature

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Process control products are capable of handling corrosive chemicals at elevated temperatures - up to 250°F - with glass fiber reinforced PPL.

- Easy Installation

Valves and flow control products are generally 1/3 to 1/2 the weight of similar size and type metal valves. They are easy to install, resulting in reduced handling, labor and installation costs.

- Conservation

Valves are energy efficient. It takes about half the energy to produce a valve as comparably-sized metal one.

- Cost Savings

When comparing c-valves to metal valves, consider not only the initial cost saving of plastic, but the reduced freight, lower installation and maintenance costs, and the extended service life of plastic valves as well.

For further details or specs please contact Rice directly.