

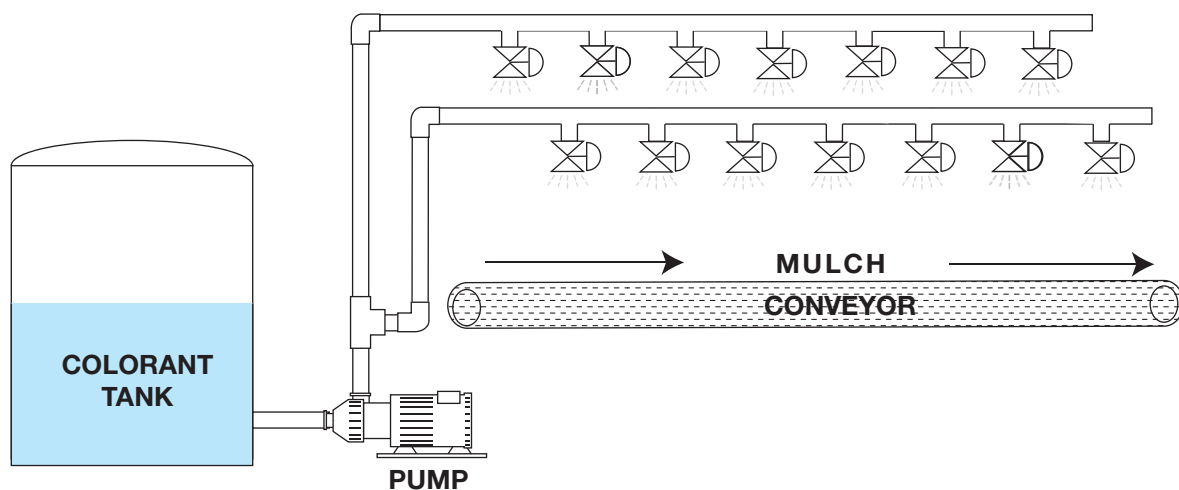
**MARKET** Ornamental Garden Mulch

**PRODUCT(S)** ABVS

**REQUIREMENT** To apply high viscosity colorant during mulch production; eliminate binding / seizing inherent to metal valve

**PROCESS FLUID(S)** High viscosity water soluble pigment

**INLET PRESSURE/TEMPERATURE** 30 - 50 PSI / Ambient



This mixer has 2 banks of 7 valves controlling the on/off function of large diameter orifice spraying nozzles. The system runs at approximately 30 psi and is supplied by a simple storage tank system and single pump.

The system is used to add colorant to garden mulch. It is composed of all steel piping and all steel trim but the colorant is highly viscous and contains some particulate. This combination repeatedly caused the metal valves to seize.

These frequent metal valve failures prompted the manufacturer to seek a more reliable alternative. One of the engineers had used a

thermoplastic valve system in an earlier career, and thought the inherent lubricity of the plastic might work better.

Eventually the design engineer found out about Plast-O-Matic's additional polishing process, which provides an extremely smooth surface in the True Blue ball valve flow path. After extensive testing, the ABVS050VT-PV passed with flying colors!

An intervening plastic male x female connection is used to fit the plastic valves to the steel piping system.