



Magna

- Chocolate Manufacturer



Problem

Magna required a no-spill solution that could maintain the chocolate's temperature within a narrow range of 40 to 50°C.



Solution

Heated Bioflex Ultra hosing with TODO-MATIC couplings and stainless steel fittings.



Benefits

Consistent heating and efficient flow with a no-spill coupling and compliant fittings.



BIOFLEX ULTRA

Buckley Industrial provided a heated hose solution. The Bioflex-Ultra PTFE lined flexible hose, FDA approved, ensured hygienic transfer of chocolate while maintaining its integrity.



TOD0-MATIC

Action Sealtite supplied 16 TODO-Matic 2" hose units and 22 TODO-Matic 2" tank units all with FDA approved Viton seals.

TOD0



HEATING

An electrically heated hose cover with silicone insulation and a wipe-down heat-shrink polyolefin outer layer was employed. A digital temperature controller thermistor was also integrated into the system.

Outcome

The Bioflex-Ultra PTFE lined flexible hose ensured hygienic transfer of chocolate while maintaining its integrity. Bioflex-Ultra has excellent flexibility and kink resistance. The PTFE smooth bore facilitated efficient flow

rates with a low friction coefficient, enhancing productivity.

Electrically Heated Hose Cover (EHC) ensured consistent heating along the transfer line, preventing chocolate from solidifying or burning.

Effectively heating the media to the optimum temperature maximises flow rate and therefore productivity.

The thermistor monitored the temperature of the EHC and automatically tripped the system if the chocolate

temperature exceeded 50°C.

The use of TODO fittings and heated hoses facilitated seamless transfer operations, reducing downtime and increasing productivity.

Read the full version online.