

## **Process Heating Solutions Worldwide**

# Nitrogen Injection System

#### **Features and Benefits:**

- Complete Packaged System
- Low Maintenance
- Thorough Mixing
- Quick, Simple to Clean



# Food Processing Industry Case History

### **Application:**

Mayonnaise producer wanted a complete system to inject nitrogen into product, resulting in smoother product texture, increased product volume and extended shelf-life. The package was to include not only the nitrogen injection body, but also the pressure regulator, metering system and valves mounted at a control box. The flow meter, mounted inside the box was to receive a 4-20mA control signal from the customer PLC.

### **Process Conditions:**

Product Flow Rate: 35 GPM Nitrogen Supply Pressure: 1500 psig

regulated to 150 psig

Product Pressure: 40-60 psig Nitrogen Flow Capacity: 33 slpm

#### **Solution:**

Pick Model SC25N Nitrogen Injection System with 3" sanitary mixing chamber, isolated from N2 supply by sanitary check valve. System includes mass flow controller and 2-way solenoid valve wired to customer 4-20 mA control signal from PLC, installed in stainless steel NEMA 4 enclosure. Customer N2 supply is installed prior to high-pressure regulating valve. Compression fittings for customer piping between control panel and mixing chamber was included.

