

Emerson ingredients solve cookie maker's pneumatic control challenge

BENEFITS

- Designed production line pneumatic solution in centrally located panel
- Routed all communications through a single Ethernet node
- Simplified access to valve connections
- Enabled faster, easier installation, start-up, and troubleshooting



APPLICATION

Bakery products

CHALLENGE

A packaged cookie producer built a new production line that included pneumatically controlled bulk material handling equipment for conveying and mixing its ingredients. The cookie maker wanted all the machines' pneumatic controls to report back to a single panel with an Ethernet communications module. A search was conducted to find a supplier that could overcome this technical challenge.

SOLUTION

Emerson's application support team worked with the local ASCO™ distributor to design and build a custom control panel that achieved the customer's objectives. The panel housed ASCO Series 501 and Series 503 pilot valves that controlled the production line's control valves, cylinders, and bulk handling equipment. The DIN rail-mounted components also included ASCO P580 communications modules, I/O blocks, and valve panel mounts. All of the devices and field inputs communicated through the panel's Ethernet node to a PLC. Production line operation was simplified by locating the pneumatic controls in a single enclosure. In addition, the 24-valve panel mounts were installed on the sides of the enclosure, providing easy access to valve connections. This feature made installation, start-up, and troubleshooting faster and easier. The customer was impressed with Emerson's technical solution and is considering ASCO products for its next plant expansion.

With a custom control panel, ASCO™ simplified the customer's production line and provided easy access to valve connections. The customer was impressed with the custom solution that made installation, start-up, and troubleshooting faster and easier.

Emerson Automation Solutions

160 Park Avenue
Florham Park, NJ 07932 USA
+1 800-972-2726
ASCO.Info-Valve@Emerson.com

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