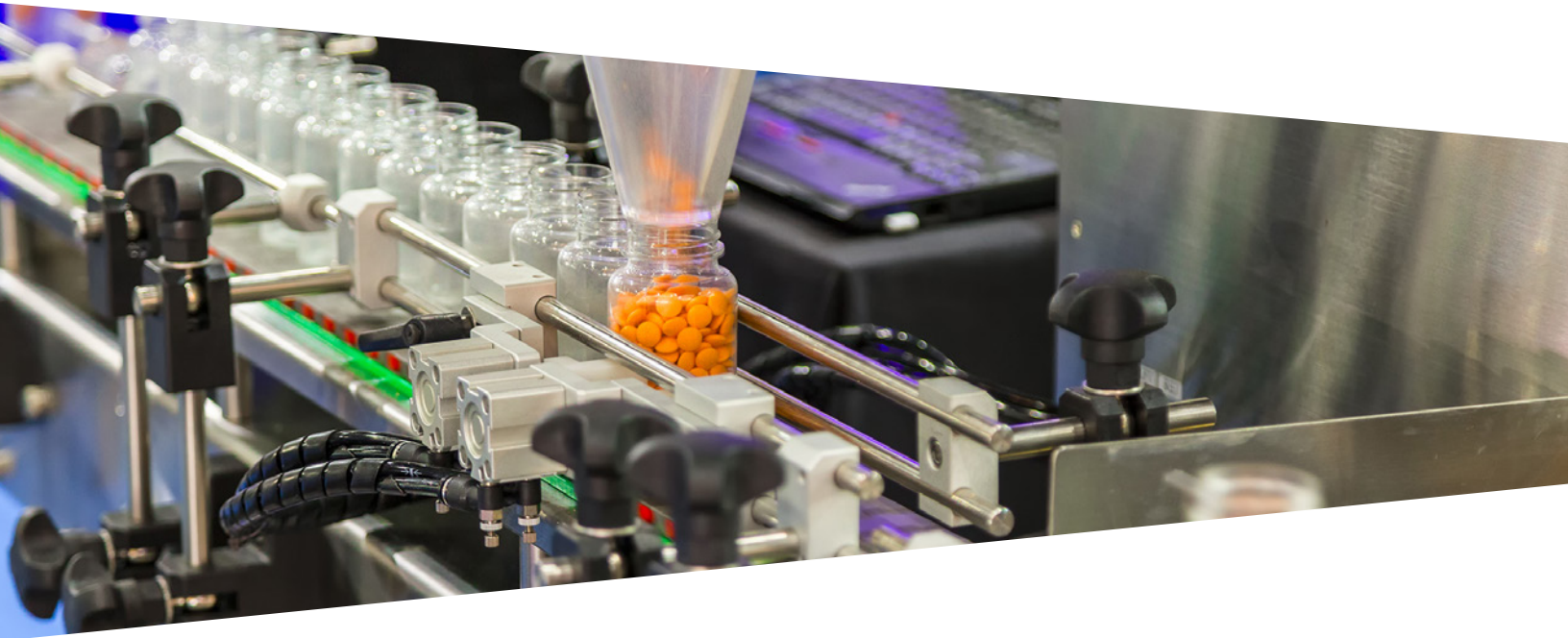




Other Applications:

- > Food and Beverage dispensing
- > Medical dispensing
- > Filling



## Automated Bottle Filling System for Pharmaceuticals

### Challenge:

A Mettler Toledo IND560 weighing terminal which was used in a cleanroom Class GMP B needed to be equipped with a pinch valve to automate a glass bottle filling process. Due to the environment, a solenoid operated pinch valve in stainless steel was required. The pinch valve had to communicate with the weighing terminal and close when the pre-defined set point was reached. The weighing terminal didn't provide enough Amps to power the pinch valve, so an independent power supply was installed as well.

### Solution:

Acro and its partner designed a stainless steel enclosure which would hold the Intelvalve model 2400 solenoid pinch valve as well as the AcroSense FCP-A control board and a 230V power supply. A switch was installed for toggling between automatic and manual control to offer a possibility for bypassing the weighing terminal for manual tube change out. Another switch was used to open and close the pinch valve while in manual mode.

Built-in electronics had to check the status of the weighing terminal, thus making sure communication between the weighing terminal and the AcroSense control board was ready before starting the filling cycle and opening the pinch valve.

### Benefits:

- > Increased filling accuracy and speed
- > Automated solution to replace manual labor
- > Compact design.

### For further information:

Visit [www.bimba.com/en/Solution-Centers/Industry-Solutions-Center/](http://www.bimba.com/en/Solution-Centers/Industry-Solutions-Center/)

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