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Reporting the news, progress and other happenings at CPV Manufacturing, Inc. Fall 2002

Fill 'er up with high test accuracy

CPV FloMaster® Air-Operated Valves. Deliver for high-tech gas-filling operations

Until recently, employees at gas filling operations filled mixed gas canisters by opening and closing manual valves. Inevitably gas mix accuracy was inconsistent which meant gas fills of up to 20% off spec or more were normal.

In today's quality conscious, competitive business environment is that really good enough?

CPV doesn't think so. That's why we created the totally "hands-off" CPV air-actuated FloMaster Valve. When put to use in sophisticated gas filling stations like the ones designed by Weldcoa of North Lake, IL, even complex multi-gas orders are consistently filled at $\pm \frac{1}{10}$ of 1% of the gas mix specification. In addition to mix accuracy, Weldcoa customers who use the new computer controlled gas filling stations improve the speed, efficiency and productivity of their entire operation, which in turn reduces manpower needs and accelerates return on investment.

A Weldcoa gas filling station uses thermocouples magnetically attached to the canisters to monitor the progress of a fill. A gravametric scale can also be used to update the program of weight changes during the fill.

This case history appeared in:

CHEMICAL EQUIPMENT

Meeting the spec of a mixed gas requires valves that open and close with precision timing and provide bubble tight reliability. When flow levels aren't totally controlled, the mix is compromised.

The reliability and precise flow control of CPV FloMaster valves can be counted on to deliver repeatable gas filling accuracy for years to come. Plus, as one Weldcoa engineer says, *"They always work perfectly right out of the box. In fact, CPV has a great track record with us over the years, and we wouldn't consider using any other manufacturer's valves."*

Computer programmed for precision flow control.

It took the gas physicists at Weldcoa 6 months to develop the original software program and $1\frac{1}{2}$ years of testing to get the bugs out. Weldcoa is now on the fifth generation of software and every parameter that can affect the accuracy of the mix is included in the current gas filling technology. *(continued on backpage.)*

The gas filling platforms manufactured by Weldcoa are field configurable for up to 200 different customer designed gas mixes. Once the mix formula is punched in, the workers hit "go" and the process proceeds to completion without human intervention.

CPV has been a leading manufacturer of valves and fittings since 1915. The company's innovative designs are well suited to standard applications as well as highly specific requirements like the Weldcoa gas filling stations. For more information or technical literature on FloMaster valves or other CPV Valves & Fittings contact:

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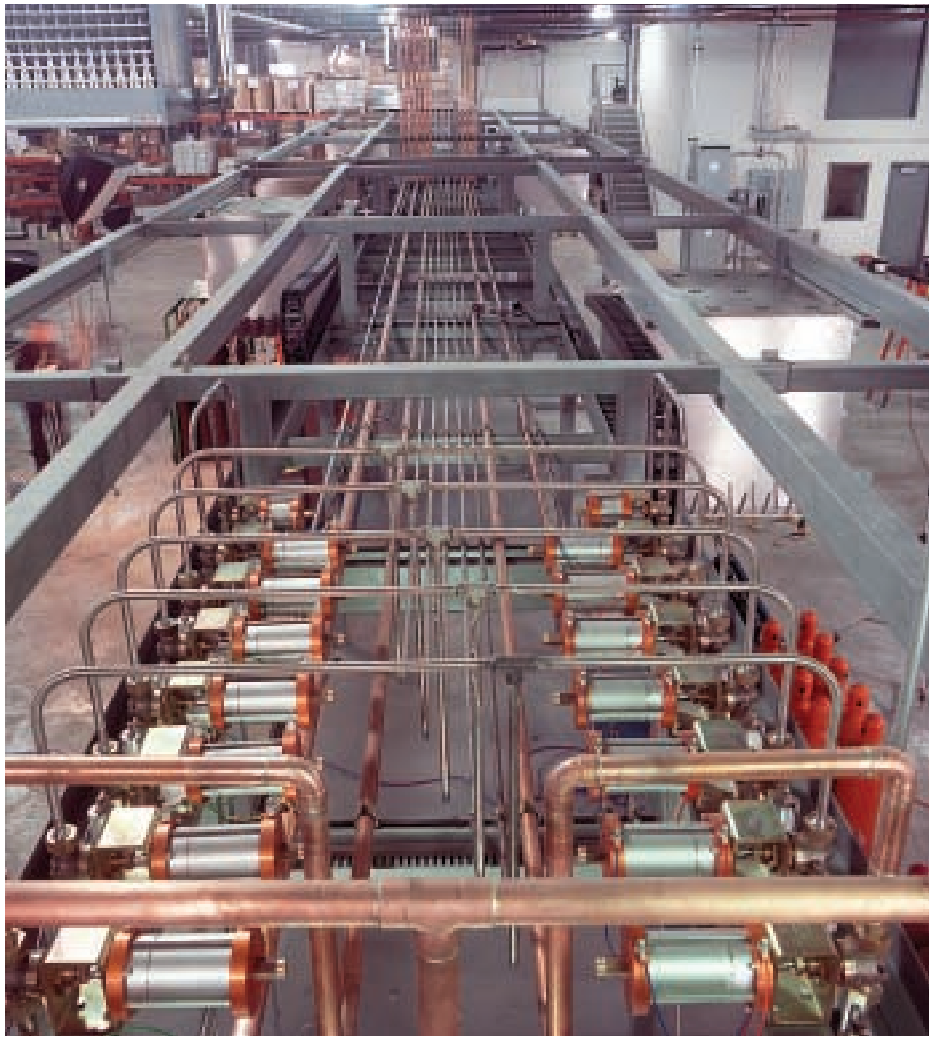

*Instead of the **who-knows-what's-in-there** canisters that used to be standard, industrial gas mixes filled with CPV FloMaster valves used on Weldcoa gas filling stations are consistently filled at ± 1/10 of 1% of gas mix specification.*

A Weldcoa system equipped with CPV FloMaster Valves enabled one company to go from two shifts employing six people to one shift employing three people. Moreover, they now fill more in an eight-hour shift than they used to fill in sixteen hours.