

D4 Expanded Size Range Mix Proof Valves – Carbonated Alcoholic Beverages

Issued By: Chris Sinutko, Global Portfolio Manager
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Valves:

[D4 Series Double Seat Mix Proof Valves](#)

Application:

Carbonated alcoholic beverages, flavors, and sugars

Challenge:

One of the largest contract breweries in the US was expanding its popular carbonated alcoholic beverages and “hard” seltzer ingredient operations on a tight budget. They were looking for an alternative valve supplier that could handle high flow rates and volumes in a small footprint along with providing more functionality and hygienic design at a competitive price.

Solution:

The SPX FLOW D4 Series mix proof valve met these requirements and was selected for the new line. The process for the brewery was designed utilizing the cost-effective [D4 and D4SL models](#) to replace what would otherwise have been multiple legacy butterfly - block and bleed valves. To handle the high fluid flow rates and volumes, the system design contains valves with different pipeline sizes including expanded 4” Schedule 5 IPS pipe sizes — in a configuration that enables running production and clean in place (CIP) operations simultaneously.

To automate operation from a central location, the [CU4 AS-i control unit](#) was chosen. In addition to being easier to operate, the unit also features ultra-bright LED’s for clear position, power, and solenoid indication as well as robust design with a NEMA 6 (IP67) wash-down rating.

The D4 valves have maintenance and safety advantages as well over the incumbent valves. They do not require compressed air for removal and service and the bolted flange design of the housing/yoke gives a heavy-duty, secure connection for the product zone compared with the legacy valves requiring compressed air for removal and using a clamp design for the housing.

The SPX FLOW D4 Series valves have been running at the brewery for more than two years with no reported incidents. The customer is so pleased with the performance that they are now considering larger SPX FLOW valves for other sites.

To learn more about SPX FLOW’s innovative D4 valves, visit our [website](#) or view the [D4 animation](#).

