

D4 Series Mix Proof Valve Manifold

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Valve:

[DA4 Double Seat Mix Proof Valve](#) Manifold

Industry:

Non Dairy Greek-style Yoghurt

Challenge:

A major dairy producer in Italy wanted to upgrade their existing process in order to more efficiently and reliably fill and empty their finished product from multiple ripening tanks.

Solution:

A double seat mix proof valve [manifold](#) was designed and fabricated by SPXFLOW in order to help:

- **increase production capacity** - allowing simultaneous filling, emptying, and cleaning of multiple process tanks
- **minimize downtime for cleaning** - the valves are able to run process fluids and CIP at the same time without intermixing
- **enhance production schedule flexibility** - the manifold is CIP capable to enable quick change-overs of fluids
- **automate control from a central location** - using the [CU4 control units](#) with integrated sensors and solenoids
- **improve product quality** - meeting the latest hygienic standards and reducing the risk of cross-contamination
- **ease maintenance** - using light weight valves that do not require compressed air or lifting tools for removal and service



The D4 series mix proof valves were specifically chosen as a reliable process flow control solution. The fully balanced design enables flexible flow direction without slamming. The slim stainless actuator is fully enclosed to prevent fluid ingress from the moist atmosphere and harsh cleaning foams. The specific DA4 model offers enhanced cleaning of the product contact surfaces for this critical yoghurt application while also reducing CIP losses to drain during seat lifts to save chemical and water costs.

Both the DA4 valves and manifold were produced in SPXFLOW's [Bydgoszcz, Poland manufacturing facility](#) which used advanced [3D modeling](#), machining, polishing, welding, and assembly techniques to create a quality solution which exceeded the customer's expectations.

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