

FOR IMMEDIATE RELEASE

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Press Release

USDA Issues Certificate for Coperion's WYK-CIP Diverter Valve for Powders and Granules

Salina, KS, USA (February 2021) – In December 2020, the USDA Dairy grading branch evaluated the WYK-CIP diverter valve according to the “USDA Guidelines of the Sanitary Design and Fabrication of Dairy Processing Equipment” and issued an equipment acceptance certificate for the hygienic design of the 4 inch valve to Coperion. USDA equipment acceptance certificates for sizes 2.5, 3, 5 and 6 inch are expected soon.

For equipment used in manufacturing processes of the food, pharmaceutical and chemical industries, the highest requirements in hygiene and purity apply. Moreover, frequent product changes and difficult product characteristics require regular wet cleaning. If cleaning expenditures can be minimized, companies can save significantly on time and costs. In addition, for many applications, diverter valves are often located in difficult to access points of the conveying or transfer line.

Coperion has now designed an easy-to-clean diverter valve that addresses these issues and fulfills the high USDA criteria regarding hygienic design. The diverter valve enables wet cleaning to fulfill required criteria especially in the food sector that come down to one thing: The diverter valve is absolutely clean and free of contamination after wet cleaning. The use of true CIP design and easy disassembly diverters greatly improves the overall cleanability and the required downtime for access/maintenance.

Throughout its inception, Coperion has continued to develop the WYK diverter valve based upon collective field experience with the following functions: During bulk material conveying, the

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conical rotor seals the conveying pipes to each other. During CIP (cleaning-in-place) the rotor is minimally pulled out of the housing and flushed by the cleaning fluid. Coperion designed and optimized the CIP-capable pipe sealing such that operation with even the finest powders is possible. The pneumatic drives are separated — for turning and pulling the rotor, respectively — so that the rotor is supported on both sides. Along with its compact design, the diverter valve offers an improved cast design with increased surface quality. All materials conform to food standards and the sealing materials are FDA approved. Different flange connections are available, such as tri-clamp connections.

The diverter valve is available in sizes 2.5, 3, 4, 5 and 6 inch (DN 65, 80, 100, 125, 150).

Coperion is the international market and technology leader in compounding and extrusion systems, feeding and weighing technology, bulk materials handling systems and services. Coperion designs, develops, manufactures and maintains systems, machines and components for the plastics, chemicals, pharmaceutical, food and minerals industries. Within its three divisions – Polymer, Equipment & Systems, and Service – Coperion has 2,500 employees and nearly 30 sales and service companies worldwide. Coperion K-Tron is part of the Equipment & Systems division of Coperion. For more information visit www.coperion.com or email info@coperion.com.



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February 2021



Coperion's optimized stainless steel WYK diverter valve for CIP applications is a match for even the most stringent hygiene and purity demands.

Image: Coperion, Weingarten, Germany