SOLUTION HIGHLIGHTS///

RID 3.0

DMN WESTINGHOUSE

Discover the third generation of our Rotor Interference Detection (RID) system and enhance your system's reliability. RID 3.0 builds upon the already impressive performance of RID 1.0 and RID 2.0, offering measurements that are 50 times more accurate than its predecessors and the ability to connect to your network for remote and real-time rotor interference detection.

DETECTING METAL-TO-METAL CONTACT

The RID 3.0 detects unwanted metal-to-metal contact between the rotor and body or end covers and warns the operators of possible rotary valve damage or metal contamination of the conveyed product. RID 3.0 enhances rotary valve safety by measuring electrical resistance at a frequency of 1000 Hz. The system detects critical conditions such as metal-to-metal contact, metal particles, and product build-up, signalling potential issues.

MAINTAINING SMOOTH OPERATIONS

Introducing an entirely renewed graphical user interface that facilitates easy control of thresholds, sensitivity, and alarm frequencies. This ensures timely and relevant maintenance or cleaning procedures. RID's functionality is critical in reducing unnecessary downtime and maintaining smooth operations, particularly in production environments where precision and reliability are paramount. Next to its already present analogue outputs, the third-generation RID offers 4-20mA output communication or digital EtherNet/IP™, enhancing your network's real-time automation capabilities.

PROBLEM-FREE OPERATION

DMN-WESTINGHOUSE rotary valves are produced to the strictest tolerances, and contact between the rotor and the body is not likely to occur. However, rotor movement may occur if the rotor bearings are not promptly replaced or if the rotor is improperly re-installed following cleaning. Metal objects can also originate from other processes within the conveying system. In case of metal pollution or metal-to-metal contact, the rigid and straightforward design of the RID 3.0 ensures a quick alarm response.

THE NEXT STEP IN CONTAMINATION DETECTION

Being the successor to the RID 2.0, the RID 3.0 offers practical advantages that make the RID 3.0 future-proof and easily integrated into your maintenance, service, and operational processes.

THE RID 3.0:

- Very accurately detects unwanted contact between the rotor and body or end covers, preventing rotary valve damage and product contamination.
- 50 Times more accurate resistance measurement than its predecessors.
- Calibration function to exclude the resistances of wiring, zener barrier, and other electrical components.
- Triggers even less false alarms during CIP than previous versions of the RID.
- Offers EtherNet/IPTM or 4-20mA output for enhanced network automation.
- Alerts operators remotely and in real-time about metal-to-metal contact or product accumulation.
- Has a rigid and straightforward design that ensures problem-free operation.
- Has a user-friendly service tool with entirely renewed user interface for maintenance and troubleshooting.