

INTERPROVINCIAL CORROSION CONTROL COMPANY LTD.

Leaders in the Cathodic Protection Industry ... since 1957



PRODUCT INFORMATION: DC-Decoupler™

Product: Rustrol® DC-Decoupler™ Model: DCD

End User:

- Oil and Gas Transmission Pipelines
- Refinery and Petrochemical Industries
- Electrical Utilities
- Tank Farm/Oil Depot Facilities



Background: The Rustrol® DC-Decoupler™ Model: DCD is an enhanced development to the Rustrol® Product Line. The DC-Decoupler™'s unique features are based on the proven Rustrol® technology utilizing solid-state design and superior test proven, quality components throughout the construction. The DC-Decoupler™ Model: DCD is typically utilized within applications of light/moderate (*ie. non-continuous*) exposure of AC mitigation. The standard DCD Product Line provides an economical engineered solution in a compact, lightweight, ready to mount assembly.

Applications: The Rustrol® DC-Decoupler™ Model: DCD device is designed to protect personnel and equipment from electrical disturbances. The DC-Decoupler™ device blocks DC current associated with cathodically protected structures, (*ie. Pipelines, On-Grade or Buried Storage Tanks, etc.*) and provides an effective and continuous conductive path to the Utilities Grounding/Earthing Network for all other forms of Electrical Exposures, such as:

- Lightning/Surge Currents
- AC Fault Currents
- AC Induced Voltages
- Over-Voltage Protection

The Rustrol® DC-Decoupler™ Model: DCD is capable of reducing the potential difference across Isolating Flange Assemblies and/or Monolithic Isolating Joints to well below the industry accepted criteria (*ie. <10 volts AC rms*).

The Rustrol® DC-Decoupler™ Model: DCD is versatile and can be used in numerous applications, including coupling the primary structure (*ie. pipes, valves, pumps, etc.*) in series through the DC-Decoupler™ to Gradient Control Systems.

Typical Applications include:

- Pipeline AC Mitigation/AC Discharger
- Isolating Joint Protection
- Decoupling from the Gradient Control Systems

Advantages:

- Product Certification—ATEX/IECEX, QPS, KCS
- Rustrol®, an Industry Leader for Safe DC Isolation
- Fail-Safe Design; Grounding Criteria Assured
- Compact; Ready to Mount Design
- Maintenance-Free Performance
- Eliminate "Step & Touch" Potential Risk
- Maintains coating Stress Voltages within Acceptable Limits
- No additional Mounting Accessories required for Installation
- No Structure Compromise Required for Installation (*ie. Flange Drilling*)



