

# DC-Decoupler (DCD)

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.

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



