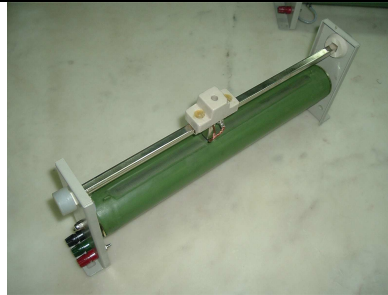


## RHEOSTATS

**Single core**



**Two Core**



**Multi Core**



**Wheel operated**



**Wheel operated with cover**



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## SPECIFICATIONS

- Type : Linear
- Ohmic value : As Required
- Maximum Current : As Required, @40°C ambient
- Resistance Tolerance : ±10%
  
- Maximum Resistor Surface Temp. Rise : 200°C above ambient at specified load
- Over load : 1.5 Times rated power continuous  
15 Times rated power for 5 seconds  
75 Times rated power for 1 second
- Insulation Resistance :  $1 \times 10^9$  MΩ @ 500V DC
- Break Down voltage (Between terminals mounting bracket & Sliding Knob). : 2500 V AC 1 Min.

## DESIGN FEATURES

- **POWER:** - Designed with 150% of specified power dissipation to limit maximum surface temperature rise up to 200°C, at full power. (Direct derating to 67% of maximum allowable wattage).  
Also designed to withstand short time over load of 15 times the rated power for 5 seconds.
- **PITCH:** - Minimum winding pitch is maintained at 2 time wire diameter in order to avoid inter-turn short circuit due to failure of wire insulation. Maximum winding pitch is maintained at 3 times the wire diameter to ensure maximum utilization of surface area for heat dissipation.
- **JOINTS:** - Winding elements are spot welded to end brass clip terminals to ensure rigid & confirmed joints with very low contact resistance.
- **COATING:** - Rheostat is coated with high temperature silicone varnish to provide protection against extreme environmental conditions, mechanical damage and to further assist in heat dissipation.
- **CONTACT ASSEMBLY:** - Brush is made of Copper-Graphite for good electrical contact and self greasing properties to ensure smooth movement for maximum operation cycles. Further the brush is pig-tailed and spring loaded to ensure free movement with firm electric continuity.
- **SLIDER BAR:** - Nickel plated Brass slider for rust free, smooth movement and good electrical conduction. Slider bar is insulated from side bracket using a ceramic insulator bush and nylon lock bush for good electrical insulation properties.
- **BRUSH HANDLE:** - Slider brush handle is made of ceramic materials for good electric and heat insulation & longer life.
- **MOUNTING BRACKET:** - Fabricated from M.S. sheet for firm holding and finish with powder coating for longer life.
- **WIRING:** High temperature withstanding Teflon covered insulating wires with crimped copper lugs to ensure good contact & longer life.
- **OUT PUT TERMINALS:** - Molded and colour-coded insulating terminals are provided for ease of terminal identification. Red & Black for fixed resistance and Green for variable resistance terminal.
- **EARTHING TERMINAL:-** Earthing tag with screw provided for proper earthing of rheostat frame.(Both side brackets are internally electrically connected with the help of M.S.mounting stud and doom nut)