Measurement and Test Methods

{Rotational Torque (Operating Force)}
Measures the torque (operating force) necessary to rotate (move) the shaft (lever). Unless otherwise specified, measurement shall be made at ambient temperatures of 5 to 35˚C, the shaft rotational speed shall be 60˚ per second, and the lever traveling speed shall be 20mm per second.

{Shaft Wobble}
Measures the amount of deflection at the specified position from the reference plane, with the specified bending moment, applied perpendicularly to the shaft from directions 180 degrees with respect to each other.

{Withstand Voltage}
Applies AC voltage to the specified spot for a minute and then checks for arc, burning, dielectric breakdown and other abnormalities. Respective terminals may be tested as a group. The sections described below shall be tested unless otherwise specified. However, if the section concerned is so constructed as to conduct, that particular part shall not be tested.

{Insulation Resistance}
Applies specified voltage to the specified locations and then measures the insulation resistance with a megger. The locations described below shall be tested unless otherwise specified. However, if the section concerned is so constructed as to conduct, that particular part shall not be tested.

{Sections to be Tested for Withstand Voltage and Insulation Resistance}
● Between terminal and shaft (lever).
● Between terminal and metal cover (lever).

{Shaft (Lever) Strength Against Push/Pull Actions}
Applies a specified force in the axial direction of the shaft (lever) for 10 seconds and then checks the operating part and other sections for deformation, breakage, operating conditions, etc.