

II. Safety Precautions

Before using the product, you **MUST** read this catalog and **MUST** fully understand how to use the product. To use the product safely, you **MUST** carefully read all Warnings and Cautions in this catalog.

1. Cautions related to operation

-  - Use the personal protective equipment to prevent injury when the product is in operation.
-  - Some components are heavy. Handle the product carefully not to hurt your hands and lower back.
-  - Do not step on, hit or drop , or apply strong force to the product, as these actions may cause operation failure, product damage, or oil leakage.
-  - Wipe off any oil on the product or the floor completely, as oil can create slippery conditions that may cause drop of the product and personal injury.

2. Warnings and Cautions related to installation and removal of the product

-  - Installation, removal, piping, and wiring must be done by a qualified technician.
-  - Make sure that the hydraulic power unit is turned off and that the electric motor or engine has completely stopped before starting installation or removal. You must also check that the system pressure has dropped to zero.
-  - Make sure that the power source is turned off before installing electric components to reduce the risk of electric shock.
-  - Clean the threads and the mounting surface to prevent damage or oil leakage. Inadequate cleaning may cause insufficient torque and broken seals.
-  - Use the designated bolts and fasten them with prescribed torque when installing the product. Use of undesignated bolts, and excessive or insufficient tightening torque may induce operation failure, damage, or oil leakage.

3. Warnings and Cautions for operation

-  - Always equip the product with explosion or ignition protection if it is used in potentially explosive or combustible atmospheres.
-  - Shield rotary parts, such as the motor and pump shaft, to avoid injury.
-  - Stop operation immediately, and take proper measures when the abnormality such as unusual noise, oil leakage, and smoke is found. Continuing operation under such condition may bring about damage, a fire hazard, or injury.
-  - Make sure that all pipes, hoses, and connecting points with pipes or hoses, are correctly connected and tightened before starting operation.
-  - Use the product under the operating conditions and limitations described in the catalog, drawings, and specification sheets.
-  - Do not touch the product in operation, to reduce the risk of skin burn.
-  - Use the proper hydraulic oil and maintain the filtration at the recommended level to prevent premature wear and damage.

4. Cautions related to maintenance

-  - Never modify the product without approval from our Tech. Dept.
-  - Disassembly of the product may void the warranty.
-  - Keep the product clean and dry when storing or transporting.
-  - The seals may need to be replaced if the product has been stored for an extended period of time.
-  - Making adjustments of this product will result in the warranty being null and void.