

YUKEN

Hydraulic Equipment

Engineering Information Catalogue

Edit.11

CD-ROM

for Windows®
98/Me/NT/2000/XP/Vista

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Safety Precautions

To prevent serious accidents, equipment damage, and other property damage, please observe the following precautions, as well as all related regulations regarding safety.

Before using the product, be sure you read and understand all the instructions in the Operator's Manual entirely.

In this catalogue, safety precautions are classified into three ranks: DANGER, WARNING, and CAUTION. These words are defined as follows:



DANGER:

Indicates an imminent danger that is very likely to cause death or severe injury unless the situation is avoided.



WARNING:

Indicates a potential danger that may cause death or severe injury unless the situation is avoided.



CAUTION:

Indicates a potential danger that may cause a minor or moderate injury or that may result in property damage.

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1. Precautions for Use



CAUTION:

To avoid possible injury when handling the products, wear protective safety equipment in accordance with the instructions in the Operator's Manual.



CAUTION:

Failure to support the weight of the product or lifting the product with improper posture may result in injury to the hands or back. Be sure to follow the instructions in the operator's manual.



CAUTION:

Do not climb on, strike, drop or exert unnecessary force on the product. This may lead to injury or fire due to improper operation, operation, or oil leakage.



CAUTION:

Oil on the product or floor must be cleaned up thoroughly. Oil could cause you to drop the product or slip on the floor.

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2. Precautions for Installation, Removal, and Maintenance



WARNING:

All installation, removal, maintenance, piping or wiring should be performed by properly trained personnel.



WARNING:

Before starting the work for installation, removal, maintenance, piping and wiring, do the following jobs.

Failure to do these jobs may cause the equipment to move suddenly or spout the oil from it during the work, which eventually may cause the serious accidents.

- * Shut off the power supply to the equipment and make sure that all the electrical motors or engines have stopped.
- * Get the pressure in the pipes and cylinders in the hydraulic system back to zero pressure.



WARNING:

Before working on any electrical wiring, be sure to shut off the power supply. Failure to do this may cause electrical shock.



CAUTION:

Keep all installation holes and surfaces clean. Failure to do this may cause insufficient tightening of the bolts that may cause fire due to oil leakage.



CAUTION:

Before installing the product, be sure that all specified bolts are tightened with the specified torque. Tightening with the outside specifications may cause improper operation, damage, oil leakage, etc.

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3. Precautions for Operation (1)

DANGER:

Never operate any device in an environment where there is danger of explosion or fire, unless the device is fully protected. This may lead to major and serious accidents including explosion or fire.

WARNING:

Do not approach near the pumps or motors in operation. There is a fear of injury by such an accident that the hands or clothes are caught by or coiled into the pumps and the motors.

WARNING:

In event of abnormal operation (unusual sounds, oil leakage, smoke, etc.), immediately stop operation and take appropriate corrective measures.

CAUTION:

Before operating this device for the first time, check that hydraulic and electrical circuits are properly connected and that adjoining surfaces are tightly aligned.

CAUTION:

Do not use the product out of the specification as described in the catalogue, related data sheets, drawings, etc. Not doing so may cause improper operation, damage or injury.

CAUTION:

During operation, high temperatures in the hydraulic system or solenoid units may occur. Wear protective gear on hands and body when around these parts.

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3. Precautions for Operation (2)



CAUTION:

50 mm/s Be sure to operate the product with proper oil, and within established ranges for temperature, viscosity and purity. Use outside of specified limits may cause improper operation or fire due to oil leakage.

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4. General Precautions



WARNING:

Never convert the products. If any conversions are made, unexpected machine movement may cause injury.



CAUTION:

Do not disassemble or change the products without prior consent of the manufacturer. Failure to do this will cause the products not to perform the specified performance and characteristics, and moreover will become the causes of the accidents or failures.

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CAUTION:

To ensure that this product is used in a safe manner, it is essential to observe the above precautions, as well as all related regulations regarding safety.

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