Safety Instructions

These safety instructions are general in nature, and intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard by labeling ‘Caution’, ‘Warning’ or ‘Danger’. To ensure safety, be sure to observe ISO4414 Note 1, JIS B 8370 Note 2 and other safety practices.

The person who designs the pneumatic system or decides its specification must also refer to the specific Safety Instructions supplied for individual components which can be found in each Product Series brochure.

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![Safety Instructions](image)

| Caution: | Operator error could result in injury or equipment damage. |
| Warning: | Operator error could result in serious injury or loss of life. |
| Danger: | In extreme conditions, there is a possibility if serious injury or loss of life. |

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**Warning**

1. **The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.**
   
   Since the products specified here are used in various operating conditions, their compatibility with the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements.

2. **Only trained personnel should operate pneumatically operated machinery and equipment.**
   
   Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

3. **Do not service machinery/equipment or attempt to remove components until safety is confirmed.**
   
   1. Inspection and maintenance of machinery/equipment should only be performed after confirmation of safe locked-out control positions.
   2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for the equipment and exhaust all residual compressed air in the system.
   3. Before machinery/equipment is re-started, take measures to prevent quick extensions of the cylinder piston rod etc. (Bleed air into the system gradually to create back pressure)

4. **Contact Fluidsentry if the product is to be used in any of the following conditions:**
   
   1. Conditions and environments beyond the given specifications, or if product is used outdoors.
   2. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.

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Note 1) ISO4414: Pneumatic fluid power – Recommendations for the application of equipment to transmission and control systems.

Note 2) JIS B 8370: Pneumatic systems axiom.

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Precautions

Selection

Warning
1. Confirm specifications
Products represented in this catalogue are designed for use in compressed air applications only, unless otherwise indicated. Do not use the products outside their design parameters.

Installation

Warning
1. Do not install unless the safety instructions have been read and understood.
Keep this catalogue on file for future reference.
2. Maintenance
When installing the products, please allow access for maintenance.
3. Tightening Torque
When installing the products, please follow the listed torque specifications

Piping

Caution
1. Before Piping
Make sure that all debris, cutting oil, dust, etc. are removed from the piping.
2. Sealant Tape
When installing piping or fitting into a port, ensure that sealant material does not clog up the pressure port. When using sealant tape, leave the first 1.5 to 2 thread turns exposed at the end of the pipe/fitting.

Air Supply

Warning
1. Operation fluid
Compressed Air
2. Install an air dryer, aftercooler etc.
Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction. Installation of an air dryer, after cooler, etc. is recommended.
3. Drain
If condensate in the drain bowl is not emptied on a regular basis, the bowl will overflow and allow the condensate to enter the compressed air lines. If the drain is difficult to check and remove, it is recommended that a drain bowl with the autodrain option be installed.
4. Use clean air
If the compressed air supply is contaminated with chemicals, synthetic materials, corrosive gas, etc., damage to the pneumatic equipment may occur.

Environment

Warning
1. Do not use in an environment where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.
2. Do not expose the product to direct sunlight for an extended period of time. If the product has to be mounted in an area where exposure to direct sunlight cannot be avoided, the use of a protective cover is recommended.
3. Do not mount the product in a location where it is subject to strong vibrations and/or shock.
4. Do not mount the product in a location where it is exposed to radiant heat

Maintenance

Warning
1. Maintenance
If handled improperly, compressed air can be dangerous. Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.
2. Drain
Remove condensate from the filter bowl on a regular basis.
3. Shut-down before maintenance
Before attempting any kind of maintenance make sure the supply pressure is shut off and all residual air pressure is released from the system to be worked on.
4. Start-up after maintenance
Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.
5. Do not make any modification to the product
6. Do not take the product apart

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