

Maintenance and Installation Instructions for M5100 ASME Series Circle Seal Products

Each Circle Seal Controls Valve is marked with the following

- CE Mark where applicable - (Category 1, 2, 3, & 4) valves with port size 1 inch and over and all Relief valves and regulators.
- Manufacturer name and location
- Pressure and temperature ratings
- Product Series
- Serial Number:

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Valve number in daily sequence beginning with 1. (Begin each day again with 1.)

Two digits representing the **day of the month** valve is serialized. (Use zero ahead of single digit date.)

Two digits representing **month of the year** valve is serialized. (Use zero ahead of single digit dates, i.e., June = 06.)

One digit representing **year of decade** valve is serialized, i.e., 06-03-02.

- Product Series Serial Number, when no TTRs are requested:
 - Will be a six-digit number the first two represent the month, the second two represent the day and the third two are the year (063002).

This information should be validated to be sure the valve is appropriate for the intended application.

When installing the valve

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- Ensure compatibility of unit ordered to fluid application.
- An adequate filter system must be installed in the line ahead of the valve to prevent foreign matter from damaging the seal surfaces and/or from obstructing the valve orifices, causing operational failure and/or leakage.
- Mount valve in the line such that the etched or cast flow arrow is oriented in the direction of system flow.

When installing the valve (continued)

- Preparation of end connections:
 - Taper Pipe Threads (NPT, ISO, BSP, JIC)
 - Where pressure-tight joints are required, it is intended that taper pipe threads be made up wrench-tight with a sealant. To prevent galling, pipe sealant normally includes a lubricant. One commonly used sealant with a lubricant is Teflon Tape. Pipe thread sealant must be contained at the end connections and prevented from entering the valve.
 - Mechanical Compression Tube Fittings (i.e. Gyrolok)
 - Where mechanical compression tube fittings are supplied for use when sealing on the outside diameter of tubing, the manufacturer's tube fitting installation instructions shall be followed.
 - Straight Thread Connectors (ISO, SAE, BSP)
 - When a straight thread fitting is supplied, tighten connection finger-tight with proper elastomer or gasket installed. Then snug wrench tight.
- Do not over-tighten valve during installation.
- New systems must be adequately flushed to remove all pipe scale, weld slag, thread burrs, and etc. It is normally necessary to flush new systems several times, removing contamination lodged in plumbing and components, until no debris is present.

Use of valve

- See nameplate for pressure/temperature limits of the valve.
- Do not exceed rated limits.

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- This valve is not for vacuum service unless specifically stated.
- This valve is not rated for cryogenic applications unless specifically stated.
- This valve is leak & proof tested prior to shipment.
- Check compatibility of unit ordered to fluid application.
- This valve is not rated for dangerous or unstable fluids.
- This valve is for normal operations only.
- This valve is not fire rated.

For additional information, see catalog sheets for technical / use data located at <http://www.circle-seal.com>; or consult your Circle Seal Controls Distributor.

Maintenance of PED/CE compliant components

All units have been designed for normal operation within specified environments. Unless otherwise stated, units are expected to withstand normal operating conditions as specified for a period of five (5) years from date of manufacture. This does not include maintenance and/or repair/replacement of seals or springs. In normal service the only part(s) which may require replacement is (are) the seal(s). A repair kit may be ordered by placing a K/ in front of the complete part number. To maintain certification, PED/CE certified components must be maintained in an authorized facility. For information on maintenance please contact Circor International Ltd.

Preventive maintenance inspections should be conducted every 6 months to ensure the valve or regulator is functioning properly.

For your safety

Warning labels attached to products shall be observed. Misuse of product related to pressure and temperature hazards may result in system failure or personal injury.

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Material compatibility product ratings and application details should be

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considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Repair Kits

In normal service the only part(s) which may require replacement is (are) the seal(s). A repair kit may be ordered by placing a K/ in front of the complete part number.