

■ Installation, Operation & Maintenance Manual

For Modentic Y-Type Strainers

Caution:

Please read these instructions carefully and completely before installation. With the correct installation and maintenance, Modentic valves offer you a long, trouble-free service. The most important thing is to keep off the injury to the personnel and the damage to the equipment.

Safety Precautions:

1. Installation and servicing of this unit can be hazardous due to system pressure, electrical components and equipment location. Only qualified personnel should start up and regularly follow maintenance jobs at the plant.
2. Operate the strainer within the range of the published working temperature and pressure. The strainer can be damaged by operation beyond the maximum allowable range of temperature vs. pressure.
3. The strainer is not designed to bear any kind of external load. Never stand on or place anything heavy on the strainer at any time.
4. The strainer should be installed at place where space for periodic inspection and maintenance is sufficient.
5. Do not store or install the strainer near any heat source or hot surface. The strainer may cause deformation, destruction and fire.
6. Avoid excessive force on the strainer when plumbed in.
7. Essential safety working regulations are to be strictly kept.
8. Do not disassembly when bearing pressure. Strainer is not equipped with pressure access device. User should check it by other method through its piping system.
9. Do not touch the surface of Strainer at high temperature condition.
10. Provide for proper ventilation, temperature control, fire prevention, evacuation, and fire management.
11. Save these instructions for future reference.
12. Read this manual as well as all the literature provided in your owner's packet.
13. Any deviation from the usual installation guidelines should be notified to Modentic for recommendation and approval.
14. Failure to follow the instructions set forth in this publication could result in property damage, personal injury, or death from fire and/or explosion, or other hazards that may be associated with this type of equipment.

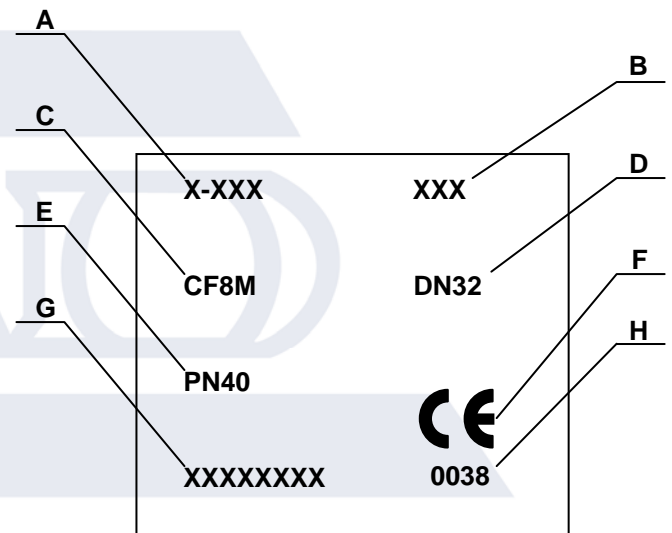
General:

1. Strainers are devices for mechanically removing solids from flowing liquids or gases by means of a perforated or wire mesh straining element. They are used in pipelines to protect equipment such as pumps, meters, manual and control metal seated valves, steam traps and regulators.
2. Always use Modentic recommended spare parts for maintenance and replacement.
3. Strainer Marking:

All the marking information should be cast on the body, or on a metal plate which is spot-welded to the body.

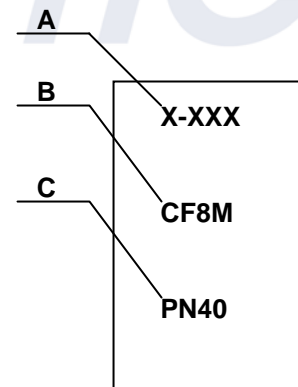
PED VALVES MARKING

MARK	DESCRIPTION
A	TYPE NO.
B	YEAR OF MANUFACTURE
C	MATERIAL
D	SIZE
E	PRESSURE
F	CE. MARK
G	TEMPERATURE
H	TUV RHEINLAND / BERLIN-BRANDENBURG
HEAT NO. CAST ON THE BODY AND CAP MD LOGO CAST ON THE BODY OR ON THE NAMEPLATE	



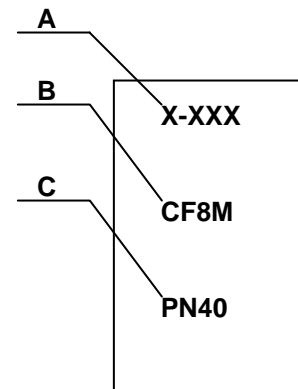
PED(SEP) VALVES MARKING UNDER DN25

MARK	DESCRIPTION
A	SIZE
B	MATERIAL
C	PRESSURE
HEAT NO. CAST ON THE BODY AND CAP MD LOGO CAST ON THE BODY OR ON THE NAMEPLATE	



**OUTSIDE THE EU COUNTRIES
NON-PED VALVES MARKING**

MARK	DESCRIPTION
A	SIZE
B	MATERIAL
C	PRESSURE
HEAT NO. CAST ON THE BODY AND CAP MD	
LOGO CAST ON THE BODY OR ON THE	
NAMEPLATE	



Storage:

All Strainers are packed in strong cardboards (plastic bags for smaller sizes) to avoid any possible damage during transportation. If the items are not for immediate use, please follow the precautions:

1. The strainer should be appropriately protected and stored against dust, dirt, mud, wet and sea water.
2. Keep the strainer in its original packaging until installation.
3. Avoid bumping or external vibrations. Do not pile up excessive weight. In case of severe bumping inspect the material for any damage and replace if necessary.

Installation:

1. Remove protective wraps, etc. before installing the strainer into operation.
2. Prior to the installation, check the strainer as well as the connecting parts to make sure they are free from dirt and burrs. And it might be necessary to flush the strainer and the pipes to remove the accumulated dirt and burrs.
3. Always depressurize and drain the piping system before installation.
4. **Flanged Ends**
 - a. Check companion of flanges are dimensionally compatible with the flanges on the valve body and make sure sealing surfaces are free of grease, dirt etc.
 - b. Prepare the suitable gasket for flanges connection and put that between the connecting flanges.
 - c. Connect the flanges with the appropriate size bolts and heavy hex nuts which confirm to comparison standard.
 - d. Tight flange bolts as recommended by gasket manufacturer and standard.
 - e. Following installation, execute leak and operating tests.

5. Threaded Ends

- a. Check specification of threads on mating pipe.
 - b. Apply joint compound to the male end of joint only.
 - c. Use suitable sealing material.
 - d. Use wrench and apply force on the hexagon end of the valve only. Apply force to other area of valve may seriously damage the valve.
 - e. Following installation, carry out leak and operating tests.
6. Install the Strainer in such a way that extensive stresses in any direction on the Strainer are avoided.
 7. Y-Strainers have no provision to accept gauges. Pressure gauges near the Strainer inlet & outlet are required to determine differential pressure across the Strainer and cleaning frequency.
 8. Pressure gauges are essential for the safe operation of the Strainer and should be installed using standard piping practices.
 9. Always do leak test to the system before using.

Maintenance

1. Removal of screen:

- a. Check the piping system is completely depressurize and drained.
- b. Remove the drain plug on the end cap.
- c. Disassemble the coupling and end cap. Be prepared to support the screen when removing the gasket and end cap.
- d. Rinse the screen to remove any debris that has accumulated.

2. Screen installation:

- a. Align the angled end of the screen for proper insertion into the strainer body.
- b. Insert the screen into the strainer body.
- c. Install the end cap and the coupling.

User's note:

1. End-users have the responsibility to check the wall thickness in regular intervals due to wear/ tear/ corrosion of the fluid in order to ensure the wall thickness is not below the minimum safety thickness allowed in the standard.
2. The most important thing is to keep off the injury to the personal and the damage to the equipment.