

INSTALLATION AND SAFETY GUIDELINES of NORDIC FILTRATION STAINLESS STEEL FILTER HOUSING

1. General Precautions
2. Filter Parameters
3. Filter Cartridge Installation
4. Lead-In Operation for Process Fluid
5. Cartridge Change out
6. Guidance for Vent Cock and Drain valve

1. Warnings:

1. Make sure that the housing connector is compatible with the pipe system. Otherwise, a mismatched connection can do harm to the operator and other equipment.
2. In any case (including external fire), ensure system operating pressure and temperature are not more than the specified value. Users are responsible to avoid any overload condition and offer suitable measures to protect operators and equipment if overload occurs while using the filter.
3. Do not open the housing or remove pipe when the filtration system is pressured or pressured with residual pressure.
4. For high temperature fluid filtration system, do not touch and open the housing or remove pipe before cooling down.
5. Ensure no person standing or stuff placed in the direction of fluid when open the vent cock and drain valve, to avoid unnecessary injury.

2. User responsibility

1. Please operate and install any components and pressure equipment under the safety guidelines.
2. Please ensure the fluid medium in process fluid is compatible with filter materials. Users should ensure filter cartridges, housings, and sealing materials is applicable to operating conditions and local safety specifications
3. Properly install the filter to avoid overload of the pipe system and filter. Suitable supports are needed under filter and pipes. Pipe supports should be close to housing as possible.
4. Carefully open the package to avoid damaging the housing.
5. Ensure enough operational space while replacing the cartridge.
6. Install a pressure gauge or remote detecting device in the pipe system is recommended to monitor the system pressure and differential pressure of the filter.
7. Carefully finish every step to protect sealed surfaces.
8. Check the specifications and type in product certification whether it is in accord with requirements
9. Rinse and purge pipe system before filter installation.

Filter parameters:

Reference to the nameplate on filter and drawings.

3. Installation Guidance for Filter Cartridge

Table 1

Sequence	Procedures
1	Unscrew the nut in the collar, remove the collar, then take top housing, bottom housing and O-ring apart.
2	Confirm whether the sealing ring of the filter cartridge is abnormal.
3	Wet the O-ring with fluid or clean water.
4	Insert the locking ear to the cartridge slot.
5	Revolve 90° clockwise.
6	Fit O-ring on, connect the top and bottom housings and screw the nut tight.

4. Lead-In Operation for Process Fluid

Ensure filter is properly installed then lead in process fluid following Table 2.

Table 2:

Sequence	Procedures
1	Ensure V1, V2, V3, V4 is closed.
2	Partially open V1 to pressurize filter.
3	Slowly open V3 to vent gases form housing.
4	Close V3 if no more fluid with bubbles is vented out.
5	Fully open V1 to observe for leakage.
6	If leakage happens, close V1, reduce pressure with V3, and open V4 to drain.
7	After the temperature of hosing cooling down to room temperature, screw the collar tight or have the O-ring changed out to prevent filter from leakage.
8	Repeat steps above to ensure no leakage.
9	Slowly open V2 so that the filter can properly function and always observe the temperature of fluid and DP of inlet/outlet.
10	Close V1, V2, V1, V2 when filter is not in use or temporarily closed.

In step 5, If the pressure reaches the maximum operating pressure during leakage check, close valve V1 in time until the check is completed.

5. Filter Cartridge Installation

Sequence	Procedures
1	Close V1, V2.
2	Reduce pressure by opening V3, V4.
3	Remove residual fluid in the housing.
4	Unscrew the nut in the collar, remove collar and top and bottom housing.

5	Remove cartridge
6	Clean and test housing and top and bottom housing.
7	Change out filter cartridge according to this handbook.
8	Lead Process Fluid in again according to <i>Lead-In Operation for Process Fluid</i> in this handbook.

6. Usage of drain valve

Sequence	Procedures	
	Dismantle	Installation
1	Remove the connecting tube	Fit O-ring on the valve handle
2	Fully unscrew the valve handle anticlockwise	Wet O-ring with clean water
3	Wash the valve handle and valve	Tightly screw valve handle into valve seat
4	Remove the O-ring from valve handle with non-metal tool (No scratch is allowed on valve handle)	
5	Clean components	

