Translation of the original manual and maintenance instructions

for Internormen Product Line circulating units UMP 20, 40

ATEX C€ W II 3 G/D c IIA T5

Sheet No. **61794-4B**

These instructions are based on data sheets 4047 and 4048 (or in case of special design the corresponding data sheet) and contain common requirements intended to ensure perfect operation of the filter unit and which may need to be supplemented by user-specific conditions for application.

1. Intended use

The circulating filter units UMP 20 and 40 are mobile filter units according to the technical parameters specified in data sheets 4047 and 4018 for fine filtering of mineral oil-based hydraulic oil as well as water separation from the above-mentioned fluids.

The max. permissible size of the dirt particles in the operating fluids should be no more than < 200µm. Larger particles will lead to early wear of the pneumatic pump.

2. Safety information

- noise level 85dB(A): wear hearing protection!

3. Commissioning

The rotary filter unit is supplied ready for operation.

The initial and non-operational condition is identified as follows:

- The filter unit is not connected to the compressed air supply
- Suction and discharge hose have been rolled up. The open ends of the hose are located in the respective pick-up pipes.
- The filter has been fitted with a ready-for-use filter element.
- The vent and drain screws are closed.
- The filter is empty.

! Before using the filter unit it is to be grounded at the designated potential bonding!

Before using the filter unit, check the open hose ends for cleanliness, especially those of the discharge hose. Remove contamination with a solvent before the ends of the hose come into contact with the operating fluid to be filtered.

The suction and discharge hose is connected to the respective connecting points or immersed in the operating fluid. During operation, the open end of the suction hose must be immersed at least 50 mm deep in the operating fluid.

Ensure that the circulated fluid can enter and leave the open end of the hoses unhindered.

If the connecting points in the hoses are used for other equipment, the pipe screw ends supplied must be used.

The filter unit is switched on and off over the connectet compressed air supply and the pressure setting of the maintenance unit.

After use or repair and maintenance work the initial / rest condition must be re-established.

4. Changing the element

The filter element must be changed when the contamination indicator on the filter is on "O", so signalling the necessity for a change of the element (display field red).

The element is changed with the unit in the rest condition (compressed air supply is disconnected from the mains, filter empty and drain screw E2 open).

To remove the contaminated filter element, turn the clamping screw, item 5, on the filter counter-clockwise until the clamping screw including the filter cover, item 2, can be removed. The filter element is now accessible and can be removed.

Depending on the degree of contamination of the open filter housing, it may be necessary to clean the housing before a new filter element can be inserted.

The exchange filter element should only be removed from its packing just before it is fitted into the filter housing and should be checked for perfect condition (no visible mechanical damage and/or faults) and completeness (O-rings in the locating ring of the exchange element). After the filter element has been fitted into the housing, fit the filter housing cover and tighten with the clamping nut (tightening torque 60 Nm)

Care should be taken to ensure that, during the complete filter changing process, neither the filter housing nor the exchange elements come into contact with dirt.

Close the drain and venting screws.

5. Cleaning the filter housing

The filter housing must be cleaned when particularly contaminated fluid has been filtered and dirt is visible in the filter housing. The filter housing is cleaned at the same time as the filter is changed.

Drain screws E2 and E3 are open. Clean the inside of the filter housing using standard cleaning equipment and solvents.

Care must be taken during cleaning that no dirt reaches the clean side (hole in the locating spigot) and that no solvent is left in the filter housing.

6. Venting

Venting of the filter is necessary every time the filter has been emptied.

Venting is carried out when the filter is in operation. A vent hose is connected to the venting connection E1 of the filter according to the instructions specified in data sheet 1650, using either the high pressure hose M16.630 (length of hose 630 mm) or hose M16.2000 (length of hose 2000 mm).

Venting has been carried out satisfactorily when bubble-free fluid flows from the connected hose.

The hose is removed from the venting point after venting and a sealing cap is fitted to the venting connection.

7. General information

- Check the condition of the O-ring, item 9, every time the filter cover has been removed and change the rings if there is any sign of damage or leakage.
- Clamping screw, item 5, tightening torque is 60 Nm.

EDV 04/13

