

NW 280 – 340 – 400

Instructions for assembly, use and maintenance

1. Possible applications

The range of water filters CINTROPUR® NW 280 – 340 – 400 is designed for filtering **clear water** slightly loaded with solid suspended particles, such as city water, rainwater, borehole water, spring water. Other types of non-aggressive liquids can also be filtered. The possible areas of use are in the industrial, the public and the agricultural sectors.

The materials used to manufacture the filters are suitable for **food products** and **drinking water**.

2. Technical description

The installation must be achieved according to the correct existing standards and by qualified personnel. These filters must be used in compliance with the technical requirements listed in the following table:

		NW 280	NW 340	NW 400
Diameter of pipe		1"	1 ¼"	1 ½"
Average flow rate (m ³ /h)	ΔP=0.2bar	7.5	10.5	12.5
	ΔP=0.5bar	10.5	16	18
Working pressure (bar)		10	10	10
Max. operating pressure (bar)		16	16	16
Maximum operating temperature		50°C	50°C	50°C
Weight (kg)		2	2.35	2.65
Standard filter sleeve		25 μ	25 μ	25 μ
Filtration surface (cm ²)		530	770	1010

3. Assembly and handling

- The ideal location for the CINTROPUR® water filter is directly at the point of entry (after the meter or after the pump). Make sure that the direction of the water flow corresponds to the direction of the arrow on the filter head.
- The filters must be fitted according to the state of the art procedures: they must be free of any mechanical stress, with the piping upstream and downstream aligned. The distance between the couplings must be correct to avoid any tension or compression stress on them.
- A pressure reducer will efficiently reduce the supply pressure if it exceeds the operating pressure. An anti-water hammer device is necessary in case it may occur on the installation.
- Equipment:
 - **Standard:** includes a set of 2 threaded connectors, 2 pressure gauges, a 25 μ filter sleeve fitted on its support, a drain-cock and a spanner for dismounting.
 - The **possible options** are the opaque bowl and the stainless steel bracket.
 - The glycerine-filled **pressure gauges** standard supplied have a thread ¼"; the fitting must be done using a spanner (the dial can't be used as a handle to screw it in).
 - To fix the stainless steel bracket on the filter head, you must use the 2 threaded wheels provided for this purpose. For a normal use, hand-tightening these is perfect for a good grip.
- For the filters NW280 – 340 - 400 :
 - The screw connections are supplied separately in the packing. While mounting, please check that the O-rings are well fitted to the end pieces of the head where they will be screwed on.
 - The sealing on the threaded connections can be made with any kind of usual trade products however it is recommended to use hemp + Kolmat paste. Leave one thread turn free on the filter connector to provide a good start for the valve or connector of your installation.

- The original threaded connection on the head is compatible with a connector from the trade because it is a usual 2" thread.
- The sealing between the threaded connector and the filter head is completed by a sealing ring; hand-tightening with two hands is sufficient for low pressures. For higher pressures, around 10 bar, tightening with a strap wrench is recommended. Checking the tightness is required when pressurising.
- The tightness between the head and the bowl is ensured by an O-ring; tightening slightly with the two hands is adequate. The supplied spanner only helps for dismounting.
- The adaptor of the drain valve (lower part) is standard mounted with a double sealing joint. This adaptor can turn on 360° without causing any damage to the bowl.
- The cylindrical support of the filter sleeve is equipped on both ends with a centrifugal vane and a sealing cap. A joint overmolding was developed to this end.
- Placing upstream and downstream valves on the pipe is recommended in order to make the maintenance easier.

4. Maintenance

- Before dismounting the bowl, close the upstream and downstream valves and release the pressure.
- Filter sleeve:
 - Maintenance and replacement of the filter sleeve used for drinking water is recommended at least 3 times per year and in any case before the pressure loss reaches 2 bar.
 - The filters graded 1, 5, 10, 25, 50 & 100 µ are intended for a single use. Cleaning them would change the structure of the fibre, so degrading the fineness of the selected filtering and making the filter more fragile, which could lead to tearing.
 - The nylon filters graded 150 & 300 µ are designed to be cleaned and re-used.
- The bowl:
 - The thread of the bowl must stay clean and greased for easy fitting and removal of the bowl during its life time.
 - The sealing O-ring between the head and the bowl must also remain clean and greased for a good sealing.
 - All slots and O-ring surroundings must remain clean and without burrs.
- Damaged component:
 - Every component of the filter, even if only slightly damaged, must be replaced immediately to ensure good performance under pressure and water-tightness of the whole filter.

5. Warranty

The choice of high-quality raw materials for manufacturing each component of your filter is the best guarantee to offer you full satisfaction for many years of use.

If, nevertheless, a component reveals a fault related to a manufacturing defect, this would be covered by a replacement of that component under guarantee.

For further information about CINTROPUR products, go to www.cintropur.com.