

2. Spare parts:

item	designation	qty.	dimension	article-no.
1	filter element	1	01NR. 250	
2	housing cover	1	30615-3	315437
3	mini-measuring connection	1	MA.1.St	305453
4	screw plug	2	1/4 BSPP	305003
5	straining screw	1	30631-4	316404
6	O-ring	1	115 x 5	306640 (NBR)
7	electric motor	1	according to type index	
8	pump unit P01	1	NG 20.16	316270
	pump unit P14	1	NG 20.16	319735
9	clogging indicator (series)	1	visual 1.57 dia	315452
10	O-ring	1	18 x 3	304359 (NBR)
11	O-ring	2	52 x 3	314206 (NBR)
12	O-ring	1	32 x 3,5	304378 (NBR)
13	O-ring	1	32,9 x 3,53	318850 (NBR)
14	suction hose 1"	1	according to type index	
15	discharge hose 1"	1	according to type index	

3. Description:

The mobile filter unit is intended for oil maintenance on hydraulic systems.

The area of application comprises: - secondary flow filtration in addition to the existing operating filter - secondary flow filtration without the action of the operating filter - filtration when filling the oil reservoir.

The filter unit must not be used to pump contaminated hydraulic fluids and is therefore designed without a switchover fitting to by-pass the filter. The compact structural design on a base plate without pipe satisfies the prerequisites for small dimensions and high reliability. The transporting trolley makes it possible to move close up to confined locations with difficult access, and to fix the accessories (such as hoses and the connection cable) in a safe and reliable manner.

Oil flowing out of the suction and/or discharge hose or the outflow openings is collected by the filter unit's oil trough, without causing any environmental damage. The suction hose 1" and the discharge hose 1" are approximately 106 inch long inclusive of the lance. The device is equipped with a gear pump driven by an E-motor. The flow conveyed by the geared pump is fed over a filter element to

DIN 24550, T4, nominal size 250.

Depending on the customer's wishes, the filter fineness is either 4, 5, 7 or 10 µm(c). The contamination level of the filter element can be read off from a pressure display in the cover of the filter.

At a pressure >36 PSI (red area of the scale field), the filter element is contaminated and it must be replaced with a new filter element. The filter element can be changed without tools. After removing the straining screw and taking off the housing cover, the filter element is accessible and it can be exchanged. The filter elements are supplied complete with seals. Since it is not possible to clean the elements, the user must always keep an adequate supply of spare elements in stock.

To protect against overpressure, the filter unit is fitted with a safety valve. Pressure setting about 58 PSI.

The E-motor is made safe with a motor-protection-switch against overloading. At a working pressure > 58 PSI, the motor-protectionswitch cuts the E-motor out.

The line, venting and draining connections are identified according to their function. Drainage is necessary when cleaning the filter unit in connection with the change of filter element, and when changing the fluid medium.

4. Technical data:

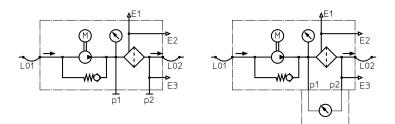
filter-fineness:	4, 5, 7 or 10 μm _(c)
oil temeprature:	+23°F to +140°F
weight:	approx. 92 lbs.
operating medium:	hydraulic oil based on mineral oil from 10 mm ² /s,
	other media on request

Classified under the Pressure Vessel Directive 2014/68/EU for mineral oil (fluid group 2), Article 4, Para. 3. Classified under ATEX Directive 2014/34/EU according to specific application (see questionnaire sheet-no. 34279-4).

5. Symbols:

filter unit without clogging indicator





6. Test methods:

Filter elements are tested according to the following ISO standards:

- Verification of collapse/burst resistance ISO 2941
- Verification of fabrication integrity Verification of material compatibility with fluids ISO 2942
- ISO 2943
- ISO 3723 Method for end load test
- ISO 3724 Verification of flow fatigue characteristics
- ISO 3968 Evaluation of pressure drop versus flow characteristics
- ISO 16889 Multi-pass method for evaluating filtration performance