

 M1:
 measure connection at filter housing cover, dirt side
 2
 nominal size: 250

 M2:
 neasure connection at filter housing
 4
 8
 see type index filter unit

 $p_1 = dirt side$  $p_2 = clean side$ 

Changes of measures and design are subject to alteration!



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1.

## 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	G ¼	305003
5	straining screw	1	30631-4	316404
6	O-ring	1	115 x 5	306640 (NBR)
7	E-motor W07	1	0,37 KW, 110V, 60 Hz	317887
8	pump unit P29	1	NG 12.8.4.P	321714
9	clogging indicator (series)	1	visual Ø 40	304907
10	O-ring	1	18 x 3	304359 (NBR)
11	O-ring	2	52 x 3	314206 (NBR)
12	O-ring	3	32 x 3,5	304378 (NBR)

## 3. Description:

The stationary 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

- secondary now miration without the action of the operating in - 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 bypass the filter. The compact structural design on a base plate without pipe satisfies the prerequisites for small dimensions and high reliability.

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<sub>(c)</sub>. The contamination level of the filter element can be read off from a pressure display in the cover of the filter.

At a pressure >2,5 bar (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.

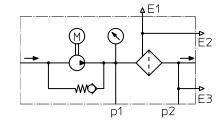
To protect against overpressure, the filter unit is fitted with a safety valve. The initial response pressure difference valve is 4 bar. Stationary filter units with motors without combined protective motor switch and ON/OFF switch and without any cable with plug can be operated without supervision if the electrical connection is fitted with an overload protection corresponding to the current consumption of the selected E-motor and if the switch-off function of the E-motor of the electrical clogging indicator is disengaged at 2,5 bar.

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 setting the medium.

## 4. Technical data:

pumping	capacity:	12,8 l/min at 1700 rpm
E-motor:		0,37 KW, approx. 1700 rpm
rotary cu	rrent:	110V, 60 Hz
pressure	load capacity:	max. 4 bar
filter-finer	ness:	5, 7, 10, 15 or 20 μm <sub>(c)</sub>
weight:		approx. 35 kg
operating	medium:	hydraulic oil based on mineral oil from 10 to 2000 mm <sup>2</sup> /s,
		other media on request

5. Symbol:



## 6. Test methods:

Filter elements are tested according to the following ISO standards:

- ISO 2941 Verification of collapse/burst resistance
- ISO 2942 Verification of fabrication integrity
- ISO 2943 Verification of material compatibility with fluids
- 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