

Notice:

Only operate all motors listed on this data sheet in combination with the pump unit specified on the type plate under item 8.



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2. Spare parts:

item	designation	qty.	dimension	article-no.
1	filter element	2	01NR. 1000	
2	housing cover	2	22496-3	313837
3	mini-measuring connection	2	MA.1.ST	305453
4	screw plug	4	G 1/2	304678
5	straining screw	2	31067-3	316893
6	O-ring	2	170 x 6	304799 (NBR)
7	electric motor	2	according to type index	
8	pump unit P06	2	NG 320.200	316838
9	clogging indicator (series)	2	visual Ø 40	315452
10	clogging indicator	2	according to type index	
11	O-ring	2	22 x 3	304387 (NBR)
12	O-ring	4	90 x 4	306941 (NBR)
13	O-ring	4	69,45 x 3,53	305868 (NBR)
14	O-ring	6	65,09 x 3,53	317621 (NBR)
15	screw plug	4	G 2	310958
16	gasket	4	A 60 x 68	310959

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

- 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 two gear pumps driven by two electric-motors. The flow conveyed by the gear pumps is fed over two filter elements according to DIN 24550, T4, nominal size 1000.

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 >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 set according to pressure stated in the table on the type plate under item 9. If a different pressure setting is requested, please state the initial response presse with respect to the set pressure range of the pumps unit in the plain text when ordering.

Stationary filter units with motors without combined protective motor switch and ON/OFF switch and without any cable with plug (see switch "-", cable "-" under item 9 of the type plate) can be operated without supervision if the electrical connection is fitted with an overload protection corresponding to the current consumption of the selected electric-motor and if the switch-off function of the electric-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:

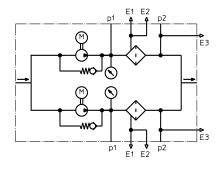
filter-fineness:			
weight:			
operating medium:			

 4, 5, 7 or 10 μm_(c) approx. 230 kg hydraulic oil based on mineral oil from 10 mm²/s, other media on request

Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3. Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

5. Symbols:

Filter unit without clogging indicator



Filter unit with electrical clogging indicator AE30

Filter unit with visual

clogging indicator

AOR, AOC, OP





Filter unit with visual-electrical clogging indicator OE1



Filter unit with visual-electrical clogging indicator OE2



Filter unit with electrical clogging indicator contact maker E1

Filter unit with electrical clogging indicator contact breaker E5



n1



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