

3.386

18,110

20.472

1.181

1 series:

01NR. = standard-return-line filter element according to DIN 24550, T4

fax

7

- 2 nominal size: 630
- 3 7 see type index-filter unit

Changes of measures and design are subject to alteration!



EDV/ 08/12

6.772

7.874

5.512

2. Spare parts:

item	designation	qty.	dimension	article-no.
1	filter element	1	01NR. 630	
2	housing cover	1	30600-3	315492
3	mini-measuring connection	1	MA.1.St	305453
4	screw plug	2	1/2 BSPP	304678
5	straining screw	1	30595-3	316312
6	O-ring	1	140 x 6	315392 (NBR)
7	E-motor D01	1	2.4 HP, 265/460 V	313465
8	pump unit P04	1	NG 80.50	317139
9	manometer (series)	1	1.57 dia	
10	clogging indicator	1	according to type index	
11	O-ring	1	22 x 3	304387 (NBR)
12	O-ring	2	70 x 4	306253 (NBR)
13	O-ring	2	45 x 3	304991 (NBR)
14	O-ring	1	18 x 3	304359 (NBR)
15	O-ring	1	44,45 x 3,53	317607 (NBR)
16	gasket	2	A 42 x 49	308541
17	plate-exchanger unit	1	CP18	

3. Description:

The stationary filter unit with plate-exchanger is intended for oil maintenance and for oil cooling on hydraulic systems. The area of application comprises: - secondary flow filtration in addition to the existing operating filter and the oil cooling

- secondary flow filtration without the action of the operating filter and the oil cooling - 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 with plate interlacing 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 630 and is led afterwards over a plate cooler.

Depending on the customer's wishes, the filter fineness is either 4, 5, 7 or 10 μ m_(c).

At the measuring point M1, the working pressure before the element is shown. The pollution of the element is indicated with the clogging indicator at the measuring point M2.

At a pressure difference > 36 PSI, the element is polluted and has to be removed with a new 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 approx. 87 PSI.

The cooling capacity is shown at the cooling capacity graph for the chosen field of application, depending on the input temperature, the streams of the medium and the type of medium. The cooling capacity graph is intended for the choice of application of the suitable filter unit with cooler. For the fields of application which are not shown in the cooling capacity graph, the capacity data have to be asked for at the manufacturer.

Stationary filter units 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 the switch-off function of the e-motor of the electrical clogging indicator will disengaged at 36 PSI.

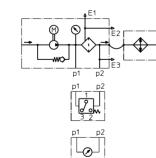
The line, venting and draining connections are identified according to their function. Drainage is necessary when cleaning the filter unit in connection with the change of filter element, and when setting the medium.

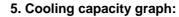
4. Symbols:

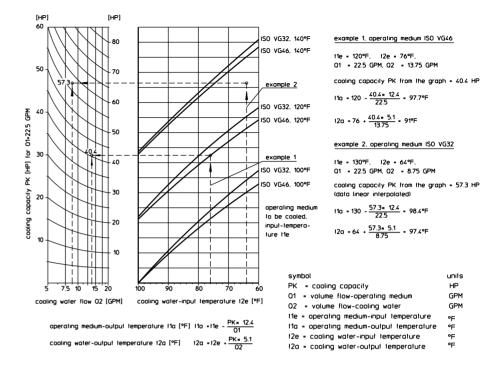
Filter unit with cooler without clogging indicator

with electrical clogging indicator AE30









6. Technical data:

pump-volume flow :	22.5 GPM at 1700 RPM
E-motor:	2.4 HP, approx. 1700 RPM
rotary current:	265/460 V, 60 Hz
operating pressure:	max. 87 PSI
filter-fineness:	4, 5, 7 or 10 μm _(c)
weight:	approx. 176 lbs.
operating medium:	hydraulic oil based on mineral oil from 46 up to 464 SUS,
	other media on request

Classified under the Pressure Vessel 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).

7. 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

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