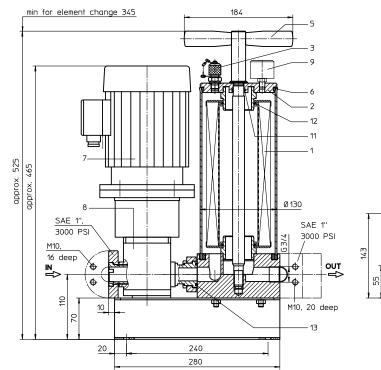
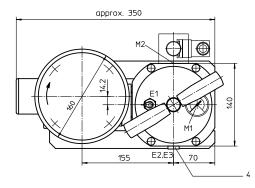
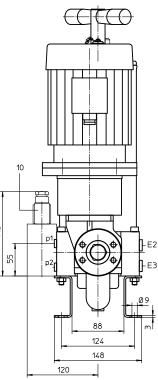
- preference version -







Assignment of connections and functions:

- E1: venting mini-measuring connection, MA.1.ST see
- sheet-no.1650
- E2: drainage of filter, dirt side E3: drainage of filter, clean side
- M1: measure connection in the housing cover, dirt side
- M2: measure connection at filter housing $p_1 = dirt side$
 - p2 = clean side

FILTER UNIT, stationary Series US 21

1. Type index: **1.1. Filter unit:** (ordering example) US. 21. 6VG. 10. B. P. -. P08. D03. O. AE 1 2 3 4 5 6 7 8 9 10 11 1 series: US = filter unit, stationary 2 nominal size: 21 3 filter-material and filter-fineness: 10 VG = 10 µm_(c), 6 VG = 7 µm_(c), 3 VG = 5 µm_(c), 1 VG = 4 µm_(c) glass fibre 10 WVG = 10 µm_(c), 3 WVG = 5 µm_(c) Watersorp-filter element 4 resistance of pressure difference for filter element: 10 = ∆p 10 bar 5 filter element design: B = both sides open 6 sealing material: = Nitrile (NBR) Р V = Viton (FPM), by agreement 7 filter element specification: - = standard VA = stainless steel IS06 = for HFC application, see sheet-no. 31601 8 pump unit: P08 = pump unit 08, NG 20.16 (standard-pump unit / setting range 1-15 bar) 9 motor: (D = rotary current motor / W = alternating current motor) and a factor and the later and the state of t

motor	electrical	Johnection	volume now	max. viscosity	max. pressure	UN/UN SWITCH	Cable	uocno.
D03 ¹⁾	230/400V	50Hz	22,7 l/min	10-400 mm ² /s	4 bar	-	-	42742-4
D03 ¹⁾	265/460V	60Hz	27,2 l/min	10-400 mm ² /s	4 bar	-	-	42742-4
D34	230/400V	50Hz	22,7 l/min	10-400 mm ² /s	4 bar	S	K	
D34	265/460V	60Hz	27,2 l/min	10-400 mm ² /s	4 bar	S	K	
W01 ¹⁾	110V	60Hz	27,2 l/min	10-400 mm ² /s	4 bar	-	-	43066-4
W03	230V	50Hz	22,7 l/min	10-400 mm ² /s	4 bar	S	K	43044-4
W07	110V	60Hz	27,2 l/min	10-400 mm ² /s	4 bar	S	К	43045-4

1) standard motor

10 clogging indicator at M1:

- = without
- O = visual, 2,5 bar

11 clogging indicator at M2:

- = without
- AOR = AOR.2,5..., visual, at p1 and p2, 2,5 bar, see sheet-no. 1606,
- AOC = AOC.2,5..., visual, at p_1 and p_2 , 2,5 bar, see sheet-no. 1606, AF
 - = AE30.2,5... electrical at p1 and p2, 2,5 bar, see sheet-no. 1609
- OP = OP.2,5..., visual, at p1 and p2, 2,5 bar, see sheet-no. 1628 OF
 - = OE.2,5..., visual-electrical, at p1 and p2, 2,5 bar, see sheet-no. 1628
- E1 = E1.2,5 electrical at p1, 2,5 bar, see sheet-no. 1616
- E5 = E5.2,5 electrical at p1, 2,5 bar, see sheet-no. 1616

1.2. Filter element: (ordering example)

01NR. 250. 6VG. 10. B. P. -

2 3 4 5 6 7 1

- 1 series:
 - 01NR. = standard-return-line filter element according to DIN 24550, T4
- 2 nominal size: 250
- 3 7 see type index-filter unit

Changes of measures and design are subject to alteration!

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Sheet No.

4008.2 J

Sheet 2/3

Notice:

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



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	electric motor	1	according to type index		
8	pump unit P08	1	NG 20.16	317378	
9	clogging indicator (series)	1	visual Ø 40	315452	
10	clogging indicator	1	according to type index		
11	O-ring	1	18 x 3	304359 (NBR)	
12	O-ring	2	52 x 3	314206 (NBR)	
13	O-ring	1	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

- 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(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 pressure with respect to the set pressure range of the pump 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 E-motor and if the switch-off function of the Emotor 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.

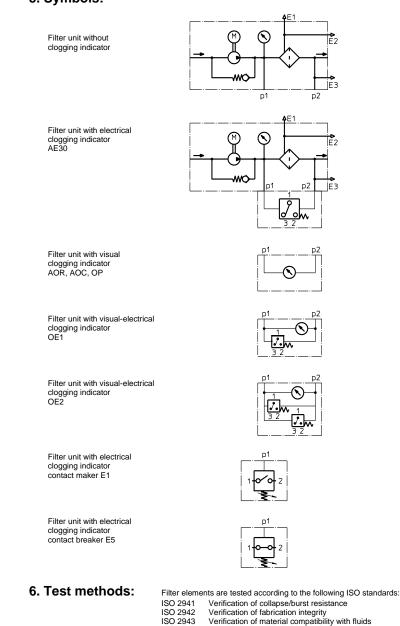
4. Technical data:

filter-fineness:	4, 5, 7 or 10 μm _(c)
weight:	approx. 28 kg
operating medium:	hydraulic oil based on mineral oil from
	other media on request

10 mm²/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:



ISO 2943

- ISO 3723 Method for end load test
- Verification of flow fatigue characteristics ISO 3724
- Evaluation of pressure drop versus flow characteristics ISO 3968
- ISO 16889 Multi-pass method for evaluating filtration performance