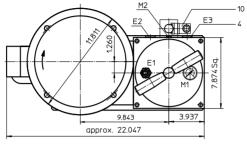
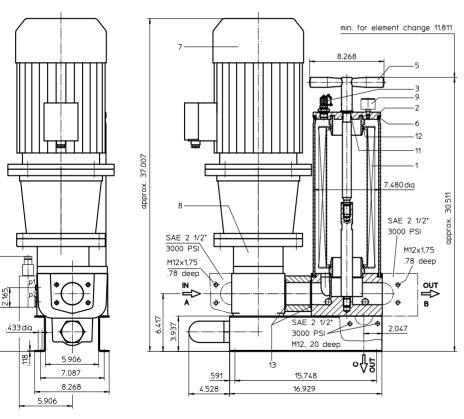
- preference version -

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
- $\begin{array}{l} \mbox{the housing cover, dirt side} \\ \mbox{M2: measure connection at filter housing} \\ \mbox{p_1 = dirt side} \\ \mbox{p_2 = clean side} \end{array}$





Notice:

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

	LTER eries	UNIT, US 3		nary						40	eet No.)12.2 F Sheet 2/2
1. 1	Гуре in	dex:									
1.1	. Filter	· unit: ((ordering	example)						
	6. 321.			P		. D07	3. (O. A	E		
1	2	3	4 5	67	8	9		-	2		
1		Ŭ				Ŭ	10	· · ·	-		
1		filter unit, s	stationary								
2	nominal si		Junionary								
3	filter-mate	rial and filt	er-fineness	:							
				3 VG = 5 µn			Interpor f	leece (g	lass fiber)		
4				m _(c) Waterso e for filter e							
· ·		∆p 145 PS			iement.						
5	filter elem	ent design	:								
~		both sides	open								
ь	sealing ma	aterial: Nitrile (NB	R) V	/ = Viton (FF	PM) by	aareemen	t				
7	filter elem				, ,	Succurrent	•				
		standard,	VA = :	stainless ste	əl,	IS06 =	see sheet	-no. 316	601		
8	pump unit		07 NO 200	200 (ctor -1-	rd norm	unit / act	ing reserve	E0 440			
0				.200 (standa	ra-pump	-unit / set	ing range	58-116	PSI)		
9	motor: (D motor	electrical c		volume flov	v max	. viscosity	max pr	essure	on/off switch	cable	docno.
	D07 ¹⁾	400/690V	50Hz	75 GPM		860 SUS	58 F		-	-	34378-4
		460/790V	60Hz	90 GPM		860 SUS	58 F		-	-	34378-4
	D22	400/690V	50Hz	50 GPM		720 SUS	87 F		-	-	34486-4
		460/790V	60Hz	60 GPM	46-3	720 SUS	87 F	PSI	-	-	34486-4
	1) standar										
10	connectio										
	variar	nt c ty	onnection pe si		onnectio	size	type	ction C			
	3	F		9 F		9		-	-		
	4	F	S S	9 F\$	3	9	FS	9			
	4.ma	S = fland	ge SAE 300) PSI							
	type: F	0 – nang									
	size: 9	= 2 1/2									
11	size: 9	= 2 ½ = no c	onnection								
11	size: 9 - clogging i	= 2 ½ = no c ndicator at	onnection								
	size: 9 - clogging i - = O =	= 2 ½ = no c ndicator at without visual, 36	onnection M1: PSI								
	size: 9 - clogging i - = O = clogging i	= 2 ½ = no c ndicator at without visual, 36 ndicator at	onnection M1: PSI								
	size: 9 - clogging i - = O = clogging i - =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without	M1: PSI M2:	and pp. 36	PSI. see	sheet-no	. 1606.				
	size: 9 clogging i - = O = clogging i - = AOR =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5	onnection M1: PSI M2: , visual, at p	p₁ and p₂, 36 p₁ and p₂, 36							
	size: 9 clogging i - = O = clogging i - = AOR = AOC = AE =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 ACC.2,5 AE30.2,5	onnection M1: PSI M2: , visual, at p , visual, at p ., electrical	p_1 and p_2 , 36 at p_1 and p_2 ,	PSI, see 36 PSI,	e sheet-no see sheet	. 1606, -no. 1609				
	size: 9 clogging i - = 0 = clogging i - = AOR = AOC = AOC = AC = OP =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 AOC.2,5	onnection M1: PSI M2: , visual, at p , visual, at p u, electrical visual, at p	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P	PSI, see 36 PSI, SI, see s	e sheet-no see sheet sheet-no.	. 1606, -no. 1609 1628	1628			
	size: 9 clogging i - = clogging i - = clogging i - = AOR = AOR = AOC = AE = OP = OE =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 AC3.2,5 OP.2,5, OE.2,5,	onnection M1: PSI M2: , visual, at p , electrical visual, at p visual-electri	p_1 and p_2 , 36 at p_1 and p_2 ,	PSI, see 36 PSI, SI, see s d p ₂ , 36	e sheet-no see sheet sheet-no. PSI, see	. 1606, -no. 1609 1628	1628			
	size: 9 clogging i - = clogging i - = clogging i - = AOR = AOR = AOC = AOC = AC = OP = OP = OE = E1 =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 OP.2,5, OP.2,5, E1.2,5 elec	nonnection M1: PSI M2: , visual, at p , visual, at p , visual, at p visual at p visual at p visual at p	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an	PSI, see 36 PSI, SI, see d p ₂ , 36 sheet-ne	e sheet-no see sheet sheet-no. PSI, see o. 1616	. 1606, -no. 1609 1628	1628			
12	size: 9 clogging i - = clogging i - = clogging i - = AOR = AOR = AOC = OP = OE = E1 = E5 =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 AOC.2,5 OP.2,5, OP.2,5, DE.2,5 elec E5.2,5 elec	onnection M1: PSI M2: , visual, at p , visual, at p1 visual, at p1 visual-electrical at p1, ctrical at p1,	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see	PSI, see 36 PSI, SI, see s d p ₂ , 36 sheet-no sheet-no	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628	1628			
12 1.2	size: 9 clogging ii - = 0 = clogging ii - = AOR = AOR = AOC = AOC = AOC = E1 = E5 = Filter	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 AOC.2,5 OP.2,5, OP.2,5, E1.2,5 elec E5.2,5 elec	onnection M1: PSI M2: , visual, at p , visual, at p , visual, at p visual, at p visual, at p visual, at p risual, at p visual, at visual, at visual	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see dering exa	PSI, see 36 PSI, SI, see s d p ₂ , 36 sheet-no sheet-no	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628	1628			
¹² 1.2 01	size: 9 clogging i = 0 = 0 = clogging i = AOR = AOR = AOR = OP = OE = E5 = Filter NR. 10	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 ACC.2,5 ACC.2,5 OP.2,5 OP.2,5 E1.2,5 elec eleme 000. 6 V	onnection M1: PSI M2: , visual, at p , visual, visual, visual, visual , visual, visual, visual ,	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see dering exa	PSI, see 36 PSI, SI, see d p ₂ , 36 sheet-no sheet-no ample)	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628	1628			
¹² 1.2 01	size: 9 clogging i = 0 = 0 = clogging i = AOR = AOR = AOR = OP = OE = E5 = Filter NR. 10	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 ACC.2,5 ACC.2,5 OP.2,5 OP.2,5 E1.2,5 elec eleme 000. 6 V	onnection M1: PSI M2: , visual, at p , visual, at p , visual, at p visual, at p visual, at p visual, at p risual, at p visual, at visual, at visual	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see dering exa	PSI, see 36 PSI, SI, see s d p ₂ , 36 sheet-no sheet-no	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628	1628			
¹² 1.2 01	size: 9 clogging i = 0 = 0 = clogging i = AOR = AOR = AOR = OP = OE = E5 = Filter NR. 10	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOC.2,5 ACC.2,5 ACC.2,5 OP.2,5 OP.2,5 E1.2,5 elec eleme 000. 6 V	onnection M1: PSI M2: , visual, at p , visual, visual, visual, visual , visual, visual, visual ,	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see dering exa	PSI, see 36 PSI, SI, see d p ₂ , 36 sheet-no sheet-no ample)	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628	1628			
12 1.2 01	size: 9 clogging ii - = clogging i - = AOR = AOR = AOC = AOC = AOC = E1 = E5 = Filter NR. 10 1 series: 01NR. =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOR.2,5 OP.2,5, CP.2,5, E1.2,5 elect celeme 000.6V 2 3	onnection M1: PSI M2: , visual, at p , visual, visual, at p , visual, at p , visual, at	p_1 and p_2 , 36 at p_1 and p_2 , and p_2 , 36 P ical, at p_1 an 36 PSI, see 36 PSI, see dering exa	PSI, see 36 PSI, SI, see s d p ₂ , 36 sheet-n sheet-n ample)	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616	. 1606, -no. 1609 1628 sheet-no.	1628			
12 1.2 01 1 2	size: 9 clogging i - = - Cogging i - = - = - = - = - = - = - = - =	= 2 ½ = no c ndicator at without visual, 36 ndicator at without AOR.2,5 AOR.2,5 OP.2,5, CP.2,5, E1.2,5 elect celeme 000.6V 2 3	onnection M1: PSI M2: , visual, at p , visual, at p , visual, at p visual, at p vis	p1 and p2, 36 at p1 and p2, 36 P and p2, 36 P ical, at p1 and 36 PSI, see 36 PSI, see dering exa B. P. 5 6	PSI, see 36 PSI, SI, see s d p ₂ , 36 sheet-n sheet-n ample)	e sheet-no see sheet sheet-no. PSI, see o. 1616 o. 1616 g to DIN 2	. 1606, -no. 1609 1628 sheet-no.		l design are s		

 Friedenstrasse 41, 68804 Altlussheim, Germany

 phone
 +49 (0)6205 - 2094-0
 e-mail
 info-internormen@eaton.com

 fax
 +49 - 06205 - 2094-0
 url
 www.eaton.com/filtration

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2. Spare parts:

item	designation	qty.	dimension	article-no.
1	filter element	1	01NR. 1000	
2	housing cover	1	22496-3	313837
3	mini-measuring connection	1	MA.1.St	305453
4	screw plug	2	1/2 BSPP	304678
5	straining screw	1	31067-3	316893
6	O-ring	1	140 x 6	315392 (NBR)
7	electric motor	1	according to type index	
8	pump unit P07	1	NG 320.200	316908
9	clogging indicator (series)	1	visual 1.57 dia	315452
10	clogging indicator	1	according to type index	
11	O-ring	1	22 x 3	304387 (NBR)
12	O-ring	2	90 x 4	306941 (NBR)
13	O-ring	2	69,45 x 3,53	305868 (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 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 >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. 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 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 E-motor of the electrical clogging indicator is 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.

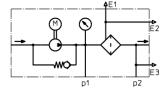
4. Technical data:

filter-fineness:	4, 5, 7 or 10 μm _(c)
weight:	approx. 275 lbs.
operating medium:	hydraulic oil based on mineral oil from 46 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).

5. Symbols:

Filter unit without clogging indicator

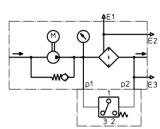


Filter unit with electrical clogging indicator AE30

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

<u> </u>
p1
1 0 2

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