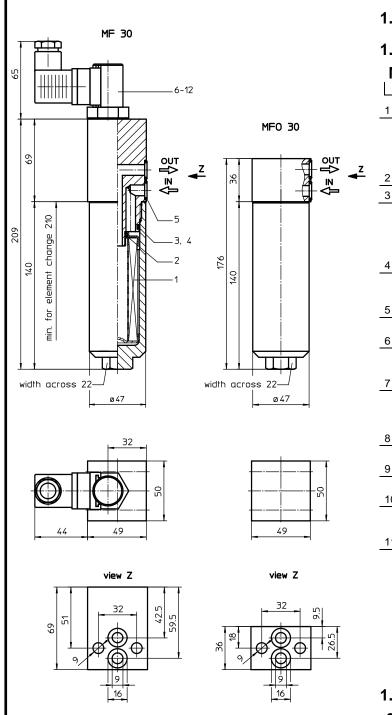
PRESSURE FILTER, manifold mounted Series MF 30, MFO 30 **DN 10 PN 160**



1. Type index:

	1 2 3 4 5 6 7 8 9 10 11			
1	series: MF = medium pressure filter, manifold mounted with indicator MFO = medium pressure filter, manifold mounted			
	without indicator			
2	nominal size: 30 filter-material and filter-fineness: 80 G = 80 μ m, 40 G = 40 μ m, 25 G = 25 μ m stainless steel wire mesh 25 VG= 20 μ m _(c) , 16 VG= 15 μ m _(c) , 10 VG= 10 μ m _(c) , 6 VG = 7 μ m _(c) , 3 VG = 5 μ m _(c) Interpor fleece (glass fibre			
3				
4	resistance of pressure difference for filter element: 30 = Δp 30 barHR= Δp 160 bar (rupture strenght Δp 250 bar)			
5	filter element design: E = single-end open			
6	sealing material: P = Nitrile (NBR) V = Viton (FPM)			
7	filter element specification: (see catalog)			
	- = standard VA = stainless steel IS06 = see sheet-no. 31601			
8	connection: F = manifold mounted			
9	connection size: 2 = DN 10			
10	filter housing specification: (see catalog) - = standard IS06 = see sheet-no. 31605			
11	series MFO:			
	- = without series MF:			
	AOR= visual, see sheet-no. 1606AOC= visual, see sheet-no. 1606AE= visual-electrical, see sheet-no. 1615VS1= electronical, see sheet-no. 1617			
	VS2 = electronical, see sheet-no. 1618			
1.2	. Filter element: (ordering example)			
	E. 30. 10VG. HR. E. P			
1 .	1 2 3 4 5 6 7			
1	series:			
2	01E. = filter element according to company standard			
2	nominal size: 30 - 7 see type index-complete filter			
3				

EDV 08/12



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Changes of measures and design are subject to alteration!

2. Spare parts:

item	qty.	designation	dimensions	artic	article-no.	
1	1	filter element	01E. 30			
2	1	O-ring	11 x 3	312603 (NBR)	312727 (FPM)	
3	1	O-ring	32 x 2,5	306843 (NBR)	308268 (FPM)	
4	1	support ring	37 x 2,1 x 1	305	305466	
5	2	O-ring	12 x 2	311014 (NBR)	310271 (FPM)	
6	1	clogging indicator, visual	AOR or AOC	see shee	see sheet-no. 1606	
7	1	clogging indicator, visual-electrical	AE	see shee	see sheet-no. 1615	
8	1	clogging sensor, electronical	VS1	see shee	see sheet-no. 1617	
9	1	clogging sensor, electronical	VS2	see shee	see sheet-no. 1618	
10	1	O-ring	15 x 1,5	315357 (NBR)	315427 (FPM)	
11	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)	
12	1	O-ring	14 x 2	304342 (NBR)	304722 (FPM)	

3. Description:

Pressure filter of the series MF 30 and MFO 30 are suitable for a working pressure up to 160 bar.

The pressure peaks are absorbed by a sufficient margin of safety. The filters are flange mounted to the hydraulic system.

The filter element consists of star-shaped, pleated filter material which is supported on the inside by a perforated core tube and is bonded to the end caps with a high-quality adhesive. The flow direction is from outside to inside.

Filter elements are available down to 4 μ m_(c).

Internormen Product Line filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

Internormen Product Line filter are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

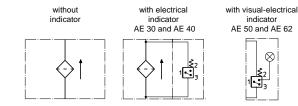
Internormen Product Line filter elements are available up to a pressure difference resistance of Δp 160 bar and a rupture strength of Δp 250 bar.

4. Technical data:

temperature range: operating medium: max. operating pressure: test pressure: connection system: housing material: sealing material: installation position: volume tank: -10°C to + 80°C (for a short time + 100°C) mineral oil, other media on request 160 bar 229 bar manifold mounted Al; C-steel Nitrile (NBR) or Viton (FPM), other materials on request vertical 0,1 l

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:



6. Pressure drop flow curves:

Precise flow rates see 'Interactive Product Specifier', respectively Δp -curves - depending on filter fineness and viscosity.

with visual

indicator

AOR/AOC

 (\mathbf{k})

with electronical

clogging sensor VS1 with electronical

clogging sensor VS2

pnp

7. Test methods:

- Filter elements are tested according to the following ISO standards:
- ISO 2941 Verification of collapse/burst resistance

with visual-electrical

indicator AE 70 and AE 80

- 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