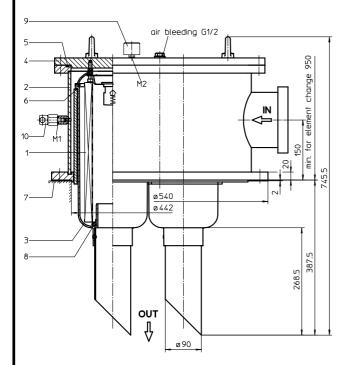
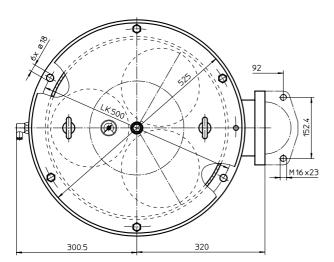
RETURN LINE FILTER Series TEF 2551 DN 125 PN 10





When equiped with one clogging indicator use preferably connection M1.

1. Type index:

1.1. Complete filter: (ordering example)

TEF. 2551.10VG. 10. S. P. -. FS. C. -. E1. O

1 series:

TEF = tank-mounted return-line-filter

nominal size: 2551

3 | 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), 2 VG = 5 μ m_(c), 10 VG = 10 μ m_(c),

 $6~VG = 7~\mu m_{(c)}, 3~VG = 5~\mu m_{(c)}$ Interpor fleece (glass fibre) $25~P = 25~\mu m, 10~P = 10~\mu m$ paper

4 resistance of pressure difference for filter element:

 $10 = \Delta p \ 10 \ bar$

5 | filter element design:

E = without by-pass valve S = with by-pass valve Δp 2,0 bar

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:

FS = SAE-flange connection 3000 PSI

9 connection size:

C = 5"

10 | filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

11 clogging indicator at M1:

- = without

= visual, see sheet-no. 1616

E1 = pressure switch, see sheet-no. 1616 E2 = pressure switch, see sheet-no. 1616 E5 = pressure switch, see sheet-no. 1616

12 clogging indicator at M2:

possible indicators see position 11 of the type index

1.2. Filter element: (ordering example)

01E. 950. 10VG. 10. S. P. -

1 2 3 4 5 6 7

1 series:

01E. = filter element according to

INTERNORMEN factory specification

2 nominal size: 950

3 - 7 | see type index-complete filter

2. Accessories:

- Counter flange, see sheet-no. 1652

weight: approx. 125 kg

EDV 08/06

Changes of measures and design are subject to alteration!



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3. Spare parts:

item	qty.	designation	dimension	article-no		
1	3	filter element	01E.950			
2	1	filter head 1)		313295		
3	3	filter bowl 1)		327461		
4	1	filter cover 1)				
5	1	O-ring	455 x 5	314742 (NBR)	314741 (FPM)	
6	3	O-ring	170 x 6	304799 (NBR)	306529 (FPM)	
7	1	gasket	540 x 441 x 2	313	313293	
8	3	O-ring	78 x 10	305017 (NBR)	305552 (FPM)	
9	1	clogging indicator, visual	0	301721		
10	1	clogging indicator, electrical	E1, E2 or E5	see sheet-no. 1616		

¹⁾ In case of ordering these spare parts use the complete type index

4. Description:

Return-line filters in the TEF series are suitable for a working pressure up to 10 bar.

Pressure peaks will be absorbed by a sufficient margin of safety.

The TEF-filters are directly mounted to the reservoir and connected to the return-line.

The filter element consists of a 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 is from outside to inside. Filters finer than 40 μ m should use throwaway elements made of paper or Interpor fleece. Filter elements as fine as 5 μ m (c) are available; finer filter elements on request. INTERNORMEN-Filters can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

INTERNORMEN-Filters elements are known as stable elements which have excellent filtration capabilities and a high dirt retaining capacity, therefore having a long service life. Due to its practical design, the return-line filter is easy to service.

When changing the filter element a detachable connection between the filter head and the filter bowl prevents a flow back of dirty oil into the tank.

5. Technical data:

temperature range: -10°C to +80°C (for a short time +100°C) operating medium: mineral oil, other media on request

max. operating pressure: 10 bar opening pressure by-pass valve: 2,0 bar

connection system: SAE-flange connection 3000 PSI

housing material:

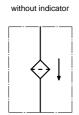
C-steel. glass fiber reinforced polyamide (filter bowl)
sealing material:

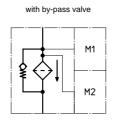
Nitrile (NBR) or Viton (FPM), other materials on request

installation position: vertical volume tank: 47,0 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).

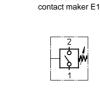
6. Symbols:







visual O



electrical



electrical





7. Pressure drop flow curves:

Precise flow rates see 'INT-Expert-System Filter' respectively Δp -curves; depending on filter fineness and viscosity.

8. 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