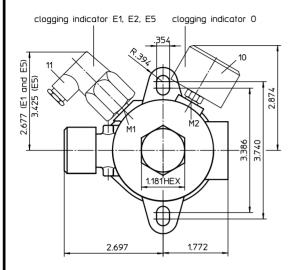
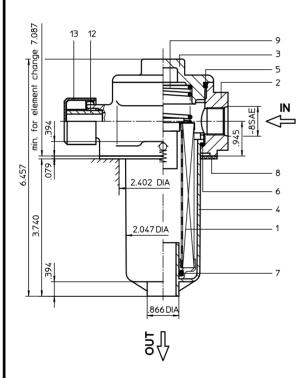
RETURN LINE FILTER with breather filter Series TEFB 41 145 PSI





When equiped with one clogging indicator use preferably connection M2.

1. Type index:

1.1. Complete filter: (ordering example)

TEFB. 41. 10VG. 16. S. P. -. UG. 3. -. E1. O (filter with 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | by-pass valve)

TEFB. 41. 10VG. 30. E. P. -. UG. 3. -. E1. O (filter without 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | by-pass valve)

1 series:

TEFB = tank-mounted return-line-filter with breather filter

2 | nominal size: 41

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), 3 VG = 5 μ m_(c) Interpor fleece (glass fiber) 10 P = 10 μ m paper only with 01E.41

4 resistance of pressure difference for filter element:

16 = 01E.41 for Δ p 232 PSI (standard with by-pass valve) 30 = 01E.60 for Δ p 435 PSI (standard without by-pass valve)

5 | filter element design:

= with by-pass valve (01E.41) Δp 29 PSI

E = without by-pass valve (01E.60)

6 sealing material:

= Nitrile (NBR) = Viton (FPM)

7 filter element specification: (see catalog)

- = standard VA = stainless steel IS06 = see sheet-no. 31601

8 connection:

UG = thread connection

9 connection size:

3 = -8 SAE

10 | filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

11 clogging indicator at M1:

= without

O = 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. 41. 10VG. 16. S. P. - (with by-pass valve)

01E. 60. 10VG. 30. E. P. -1 2 3 4 5 6 7 (without by-pass valve)

1 series:

01E. = filter element according to company standard

2 **nominal size:** 41, 60

3 - 7 see type index-complete filter

2. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element with by-pass	01.E 41		
		filter element without by-pass	01.E 60		
2	1	filter head	TEFB 41 - 55	308751	
3	1	filter cover	M 60 x 2	303621	
4	1	filter bowl	TEF 41	306673	
5	1	O-ring	56 x 3	305072 (NBR)	305322 (FPM)
6	1	O-ring	50 x 2,5	305239 (NBR)	305321 (FPM)
7	1	O-ring	22 x 3,5	304341 (NBR)	304392 (FPM)
8	1	gasket	.08 thick	303039	
9	1	spring	DA = 40	304982	
10	1	clogging indicator visual	0	301721	
11	1	clogging indicator electrical	E1, E2 or E5	see sheet-no. 1616	
12	1	filter element breather	01BFE.70	301865	
13	1	protection cap		305312	

3. Description:

Return-line filters in the TEFB series are suitable for a working pressure up to 145 PSI.

Pressure peaks will be absorbed by a sufficient margin of safety. The TEFB-filters are directly mounted to the reservoir and connected to the return-line. No connection is needed for the build-in air filter. The air filter has a 10 µm throw-away element.

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 (glass fiber). Filter elements as fine as 5 μ m(c) are available; finer filter elements on request.

Internormen Product Line filter can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

Internormen Product Line filter 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.

4. Technical data:

temperature range: +14°F to +176°F (for a short time +212°F)

operating medium: mineral oil, other media on request max. operating pressure: 145 PSI

opening pressure by-pass valve: 29 PSI connection system: thread connection

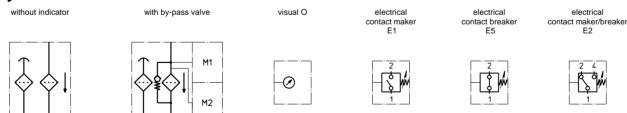
housing material: Al cast; glass fiber reinforced polyamide

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

installation position: vertical volume tank: volume tank:

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.

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