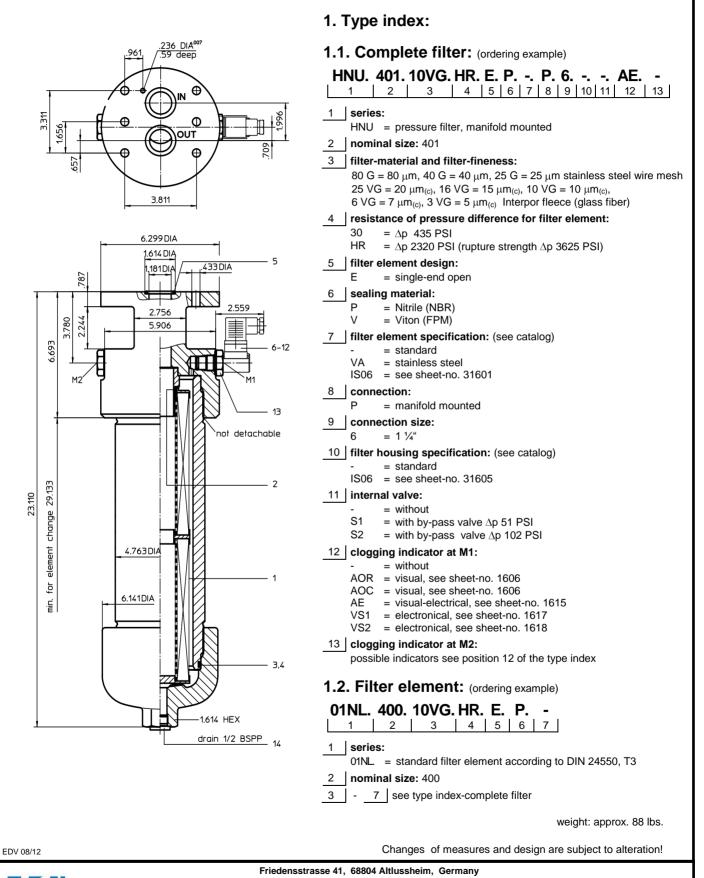
#### PRESSURE FILTER, manifold mounted 4568 PSI Series HNU 401



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# 2. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element	01NL. 400		
2	1	O-ring	48 x 3	304357 (NBR)	304404 (FPM)
3	1	O-ring	98 x 4	301914 (NBR)	304765 (FPM)
4	1	support ring	110 x 3,5 x 2	304802	
5	2	O-ring	34 x 3,5	304338 (NBR)	304730 (FPM)
6	1	clogging indicator, visual	AOR or AOC	see sheet no. 1606	
7	1	clogging indicator, visual-electrical	AE	see sheet no. 1615	
8	1	clogging sensor, electronical	VS1	see sheet no. 1617	
9	1	clogging sensor, electronical	VS2	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)
13	2	screw plug	20913-4	309817	
14	1	screw plug	1/2 BSPP	304678	

item 13 execution only without clogging indicator or clogging sensor

## 3. Description:

The pressure filters of the series HNU 401 are suitable for a working pressure up to 4568 PSI.

The pressure peaks are absorbed by a sufficient margin of safety. The HNU-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 the inside. Filter elements are available down to 5 µm<sub>(c)</sub>.

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 Ap 2320 PSI and a rupture strength of Δp 3625 PSI.

The internal valves are integrated into the centering pivot for the filter element.

After reaching the opening pressure the by-pass valve causes that an unfiltered partial flow passes the filter.

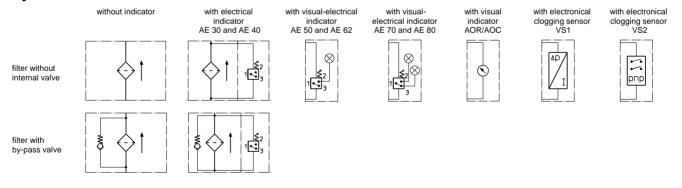
## 4. Technical data:

temperature range: operating medium: max. operating pressure: test pressure: connection system: housing material: sealing material: installation position: volume tank:

+14°F to + 176°F (for a short time + 212°F) mineral oil, other media on request 4568 PSI 6532 PSI manifold mounted EN-GJS-400-18-LT; C-steel Nitrile (NBR) or Viton (FPM), other materials on request vertical .66 Gal.

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 Ap-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