# SUCTION FILTER, for horizontal tank-mounting Series TSW 426 DN 40

Sheet No. **1906 D** 



#### 2. Spare parts:

item	atv.	designation	dimension	article-no.	
1	1	filter element	01TS. 425		
2	1	filter head	NG 426		
3	1	filter bowl	NG 426	303732	
4	1	screw plug with by-pass	M 120 x 3	313455	
	1	screw plug without by-pass	M 120 x 3	313649	
5	1	valve disc		311892	
6	1	valve bushing		307548	
7	1	O-ring	128 x 3	304602 (NBR)	308140 (FPM)
8	1	O-ring	115 x 3	303963 (NBR)	307762 (FPM)
9	1	O-ring	98 x 4	301914 (NBR)	304765 (FPM)
10	1	O-ring	70 x 4	306253 (NBR)	310280 (FPM)
11	2	O-ring	76 x 4	305599 (NBR)	310291 (FPM)
12	1	sliding ring		307547	
13	1	pressure ring		307549	
14	1	fillister head cap screw	M 6 x 60	307534	
15	1	spring	1,6 x 10 x 53	311847	
16	1	O-ring	50 x 3	307398 (NBR)	314682 (FPM)
17	1	clogging indicator, visual	01	301722	
18	1	clogging indicator, electrical	E4	311016	

#### 3. Description:

The TSW-filters are directly mounted to the reservoir and connected to the suction-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 inside to outside. Filters finer than 40  $\mu$ m should use throw-away elements made of paper or Interpor fleece (VG). Filter elements as fine as 5 $\mu$ m<sub>(e)</sub> are available; finer filter elements on request.

INTERNORMEN-Filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirtretaining capacity and a long service life.

INTERNORMEN-Filter are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils. Due to its practical design, the return-line filter is easy to service. When releasing the filter cover a plate-shaped valve closes the suction-inlet of the filter bowl and prevents leakage of fluid out of the tank. Filter element can removed from filter pot for cleaning purposes.

#### 4. Technical data:

temperature range:	
operating medium:	
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 thread connection or SAE-flange connection 3000 PSI Al-casting; glass fibre reinforced polyamide Nitrile (NBR) or Viton (FPM), other materials on request horizontal 2.6 I

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:



without indicator





electrical E4

6. Pressure drop flow curves:

Precise flow rates see 'INT-Expert-System Filter' respectively  $\Delta p$ -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