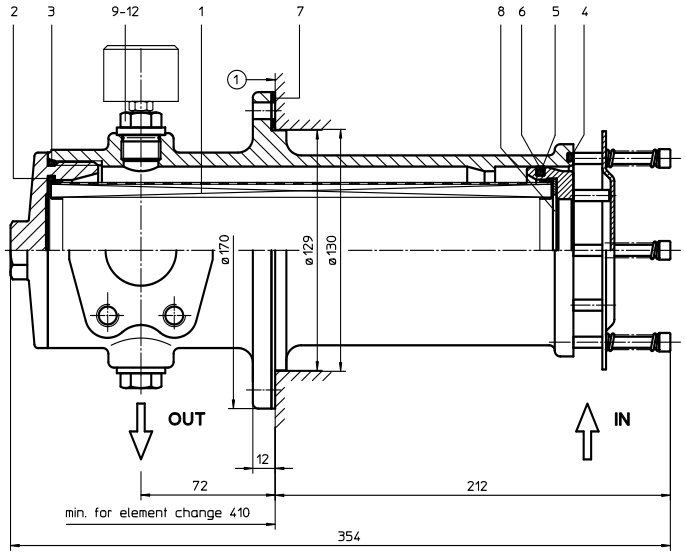
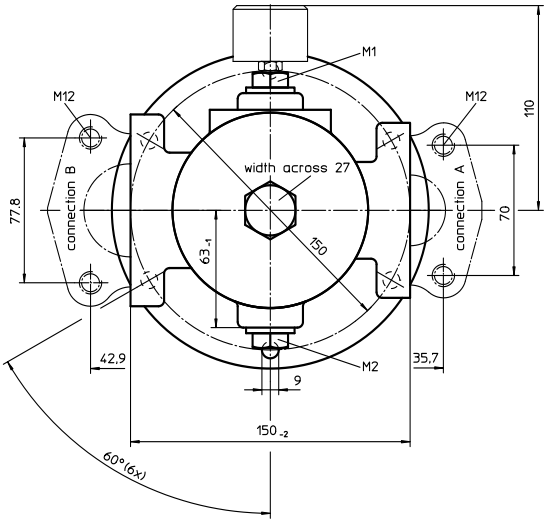
SUCTION FILTER
Series AS 220 DN 40 - 50

Sheet No.
1903 H





1. Type index:

1.1. Complete filter: (ordering example)

AS. 220. 40G. -. B. P. -. FS. 8. -. O1. -

1	2	3	4	5	6	7	8	9	10	11	12

1 **series:**
AS = suction filter

2 **nominal size:** 220

3 **filter-material and filter-fineness:**
80 G= 80 µm, 40 G= 40 µm stainless steel wire mesh, other materials on request

4 **resistance of pressure difference for filter element:**
- = not specified

5 **filter element design:**
B = both sides open

6 **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)

7 **filter element specification:**
- = standard
VA = stainless steel

8 **connection:**
FS = SAE-flange connection 3000 PSI

9 **no. of version:**

version		7	4	8
connection A	**type**	-	FS	FS
	size	-	7	7
connection B	**type**	FS	-	FS
	size	8	-	8

type: FS = SAE-flange 3000 PSI
size: - = no connection
7 = 1 ½ “
8 = 2 “

10 **filter housing specification:**
- = standard

11 **clogging indicator at M1:**
- = without
O1 = visual, see sheet-no. 1616
E4.-0,25 = 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)

01AS. 220. 40G. -. B -. -

1	2	3	4	5	6	7

1 **series:**
01AS. = suction filter element according to company standard

2 **nominal size:** 220

3 - 5 , 7 see type index complete-filter

6 **sealing material:**
- = without

2. Accessories:

- counter flange see sheet-no. 1652

mounting area ①

surface quality 3,2

flatness tolerance ⏥ 0,2

weight: approx. 4,5 kg

Changes of measures and design are subject to alteration!

EDV 08/12

3. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element	01AS.220		
2	1	O-ring	75 x 3	302215 (NBR)	304729 (FPM)
3	1	O-ring	88 x 3	304417 (NBR)	310266 (FPM)
4	1	O-ring	96 x 4	305190 (NBR)	308148 (FPM)
5	1	O-ring	78 x 3,5	311610 (NBR)	314696 (FPM)
6	1	sliding ring	20165-4	305194	
7	1	gasket	2 thick	305135	
8	1	sliding ring	20164-4	305199	
9	2	screw plug	G ½	309730	
10	2	gasket	A 21 x 26	309815	
11	1	clogging indicator, visual	O1	see sheet-no. 1616	
12	1	clogging indicator, electrical	E4.-0,25	see sheet-no. 1616	

4. Description:

The filter housing consists of high quality aluminium material.
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.
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.
The AS-filters are horizotally or vertically mounted to the reservoir and connected directly to the suction-line.
Due to its practical design the suction filter is easy to service. When releasing the filter lid a plate valve closes the suction-inlet of the filter and prevents the return flow of dirt oil to the reservoir, respectively when mounted horizontally the flow out of the reservoir is prevented.
After the servicing respectively after changing the element the filter is again ready for operation.
According to the operating condition the filter could be equiped with different accessories (clogging indicators, counter flange etc.).

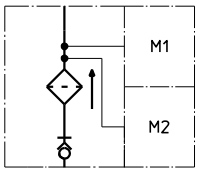
5. Technical data:

temperature range:	-10°C to +80°C (for a short time +100°C)
connection system:	SAE-flange connection 3000 PSI
installation position:	optional
housing material:	G-AlSi10Mgwa DIN 1725 (3.2381.61)
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
usable for following fluids:	petroleum-based fluids, lubrication fluids; HW-emulsions and synthetic hydraulic fluids on request
volume tank:	1,6 l

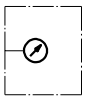
Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3.
Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

6. Symbols:

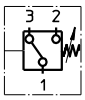
without indicator



visual , O1



electrical , E4.-0,25



7. Pressure drop flow curves:

Precise flow rates see 'Interactive Product Specifier', 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