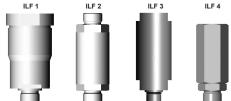
DAG INTERNATIONAL



Inline Filter ILF up to 120 l/min, up to 350 bar



1. TECHNICAL **SPECIFICATIONS**

1.1 FILTER HOUSING

Construction

The filter housings are designed in accordance with international regulations. They consist of a filter housing and a screw-in cover plate.

Standard equipment:

- without bypass valve (only for ILF 1, ILF 3 and ILF 4)
- with bypass valve (only for ILF 2 and ILF 3)

1.2 FILTER ELEMENTS

HYDAC filter elements are validated and their quality is constantly monitored according to the following standards:

- ISO 2941
- ISO 2942
- ISO 2943
- ISO 3724 ● ISO 3968
- ISO 16889

Filter elements are available with the following pressure stability values: Optimicron® (ON): Betamicron® (BH4HC): 20 bar 210 bar Wire mesh (W): up to 100 bar

1.3 FILTER SPECIFICATIONS

Nominal pressure	ILF 1, 2, 3: 350 bar The permitted operating pressure will be reduced according to the max. permitted value of the threaded connection used! ILF 4: 160 bar
Fatigue strength	At nominal pressure 10° cycles from 0 to nominal pressure
Temperature range	-10 °C to +100 °C
Material of filter housing and cover plate	ILF 1, 2, 3: Steel 52-3 ILF 4: Aluminium
Cracking pressure of bypass: optional:	ILF 2: 5.5 bar ILF 3: 3 or 6 bar

1.4 SEALS

Perbunan (=NBR)

1.5 INSTALLATION

As inline filter

1.6 SPECIAL MODELS AND **ACCESSORIES**

- Bypass valve for ILF 3
- Others on request see original spare parts list

1.7 SPARE PARTS

See Original Spare Parts List

1.8 CERTIFICATES AND APPROVALS On request

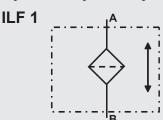
1.9 COMPATIBILITY WITH **HYDRAULIC FLUIDS DIN ISO 2943**

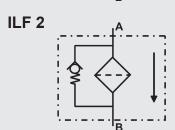
- Hydraulic oils H to HLPD DIN 51524
- Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- Compressor oils DIN 51506
- Biodegradable operating fluids VDMA 24568 HETG, HEES, HEPG
- Operating fluids with high water content (>50% water content) on request

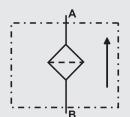
1.10 MAINTENANCE INSTRUCTIONS

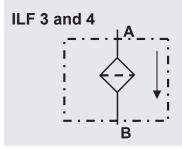
Filter housings must be earthed.

Symbol for hydraulic systems









2. MODEL CODE (also order example) 2.1 COMPLETE FILTER Filter type **ILF** Filter material W wire mesh ON Optimicron® (only ILF 3) BH/HC Betamicron® (only ILF 3) Size of filter or element ILF: 1, 2, 3, 4 **Operating pressure** = 160 bar (only ILF 4) = 350 bar The permitted operating pressure will be reduced according to the max. permitted value of the threaded connection used! Type and size of port - inlet Type | Port Α M18x1.5 В G 1/2 M22x1.5 D F M24x1.5 Н M30x2

NOTE:

Same port size at

inlet and outlet (for ILF 1 and 2) Please see Point 4 "Dimensions"!

X = only possible for female threads (Supplementary detail code: II)

Type and size of port - outlet

Type	Port	Filter size			
		1	2	3	4
Α	M18x1.5	•	•		
В	G ½			X	
D	M22x1.5	•	•	•	•
F	M24x1.5	•	•		
Н	M30x2		•		
Filtrat	ion rating in	η μm			

Filter size

•

•

2

•

•

3

X

•

X = only possible for female threads (Supplementary detail code: II)

ON, BH/HC : 10, 20 (only ILF 3)

: 40, 801), 100, 200 Others on request W

Type of clogging indicator

without port, no clogging indicator

Type code

Modification number

the latest version is always supplied

Supplementary details

B5.5 standard: bypass cracking pressure 5.5 bar = required info for ILF 2²⁾

B3 or B6 = required info for ILF 3 (if bypass valve is required!)

FPM seals

Connection type = Required info: (1st letter = inlet; 2nd letter = outlet)

ILF1	-AI		(-IA*)	
ILF2		-AA	-IA	
ILF3	-AI	-AA		-11
шпа	Λ Ι			

Same port size at inlet and outlet (for ILF 1 and 2)

* = selection of flow direction for ILF1 only possible for initial installation

ILF W 2 R F F 100 W 1 . X /-B5.5-IA

-- = not possible!

A = external connection; I = internal connection Please see Point 4 "Dimensions"!

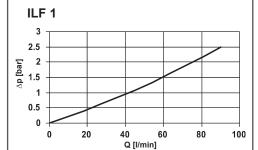
¹⁾ only for ILF 4

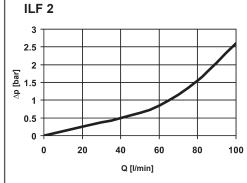
²⁾ not possible for ILF 1 and ILF 4

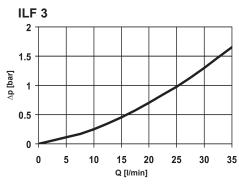
3. FILTER CALCULATION / **SIZING**

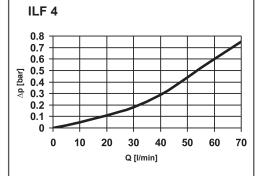
3.1 HOUSING CURVES

The curves apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30mm²/s.



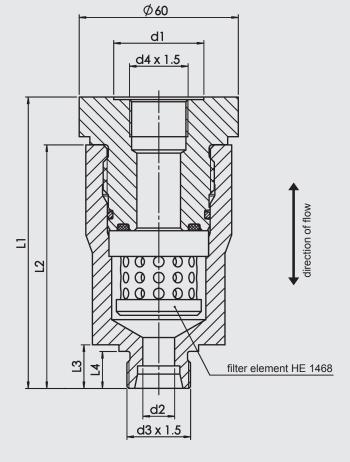


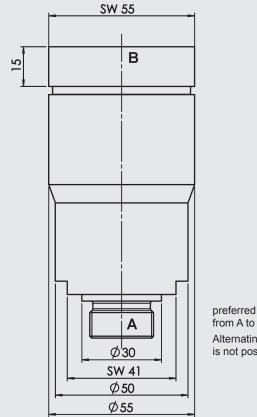




4. DIMENSIONS

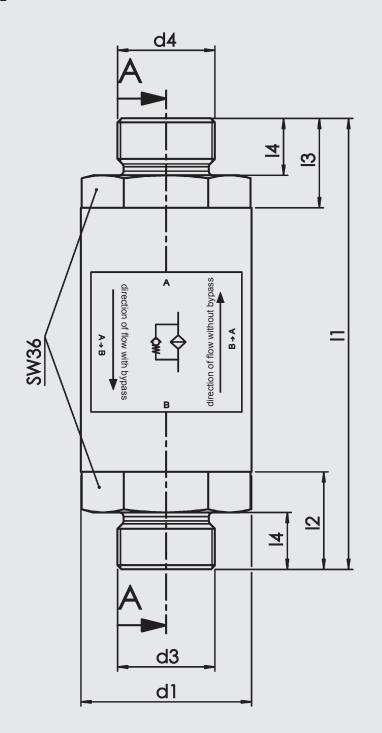
ILF 1

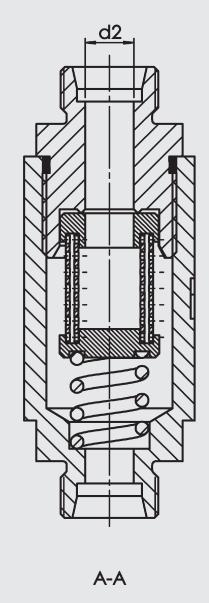




preferred direction from A to B! Alternating flow is not possible!

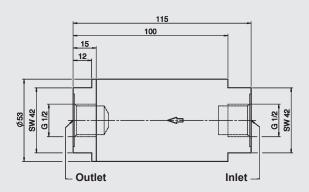
ILF	d1	d2	d3	d4	L1	L2	L3	L4	Weight incl. element [kg]	Vol. of pressure chamber [I]
	28	10	M18	M18	108	90	13.5	11	1.40	
1	34	12	M22	M22	109	91	14,5	12	1.39	0.03
	34	12	M24	M24	110	92	16.5	14	1.39	

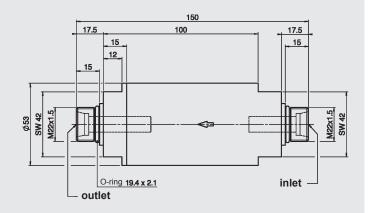


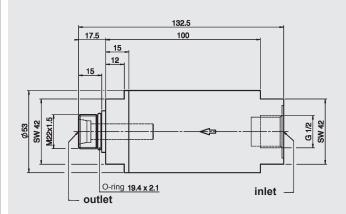


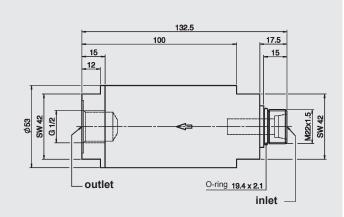
ILF	d1	d2	d3	d4	L1	L2	L3	L4	Weight incl. element [kg]	Vol. of pressure chamber [l]
		9	M18x1.5	M18x1.5	107	22	22	12	0.77	
2	42	12	M22x1.5	M22x1.5	111	24	22	14	0.78	0.04
		12	M24x1.5*	M24x1.5*	111	24	22	14	0.79	
		12	M30x2	M30x2	115	26	24	16	0.83	

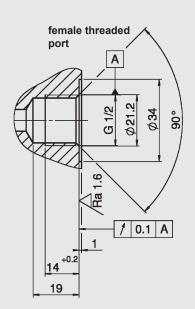
^{*} Preferred types



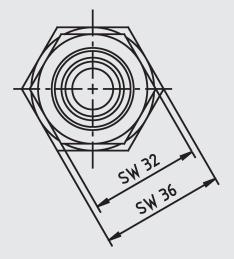


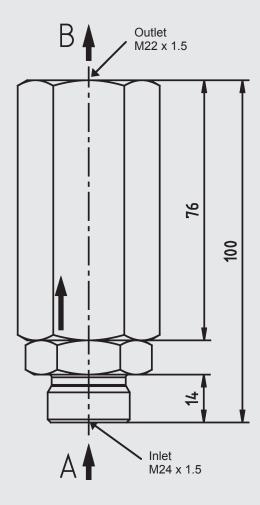






ILF	Weight incl. element [kg]	Vol. of pressure chamber [I]		
3	approx. 1.4	0.07		





NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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