



## DHHA Series

### DESCRIPTION

#### Return Filter

Connection type and size:

Threaded connection: G $\frac{1}{2}$ " G $\frac{3}{4}$ " G1 $\frac{1}{2}$ " G2" G3"

SAE Flange connection: DN50, DN80, DN90, DN100

Maximum flow rate up to 1300 l/min

### TECHNICAL PARAMETER

Maximum working pressure: 25 bar

Bypass valve opening pressure: 3 bar

Transmitter opening pressure: 2 bar

Temperature range: from -29 to +120



### MATERIALS

Head: Cast aluminium

Filter bowl: Cast aluminium

Seals: NBR nitrile rubber (standard)

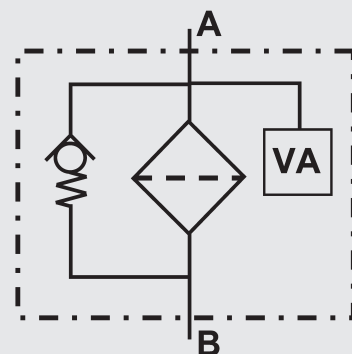
Or FKM fluororubber (customizable)

Filter element material: Fiberglass and wire mesh

### MEDIA COMPATIBILITY

Suitable for mineral oil, lubricating oil, fire-resistant oil, and rapidly biodegradable media.  
(If used for water-based or special media, please consult our sales department.)

Symbol for hydraulic systems



AV= Clogging indicator

## Ordering Options Table

DHHA 330 L F 10 N A B3

Filter type

Filter specification

30 60 110 160 240 330 660 950 1300

Connection type and size

Type	Connection	Filter Code								
		30	60	110	160	240	330	660	950	1300
B	G 1/2	•								
C	G 3/4		•	•						
E	G 1 1/4				•	•				
G	G 2						•			
L	SAE DN 50 (2")						•			
M	SAE DN 80 (3")							•		
N*	G 3							•		
O	SAE DN 90 (3 1/2")								•	
P	SAE DN 100 (4")									•

Filter element material

- F: Glass fiber
- W: Stainless steel wire mesh

Filter fineness(μm)

- (F): 03 05 10 20 30
- (W): 05 10 20 30

Seals

- N: NBR
- V: FKM

Differential pressure transmitter

- A: Steel blanking plug in indicator port
- E: Vacuum gauge indicator
- BM: Visual(Automaticreset )
- B: Visual (Automatic reset )
- CM: Electrical indicator
- C: Electrical indicator
- CL: Visual and electrical indicators

Bypass valve opening pressure

B3 = 3 bar



# Filter Element

DYHA 330 F 10 N

Filter element type

Filter element specification

30 60 110 160 240 330 660 950 1300

Filter element material

F: Fiberglass      W: Stainless steel wire mesh

Filtration fineness(μm)

(F): 03 05 10 20 30  
(W): 05 10 20 30

Seals

N: NBR  
V: FKM

## Maintenance Instructions

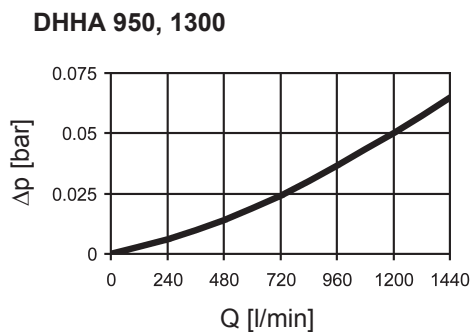
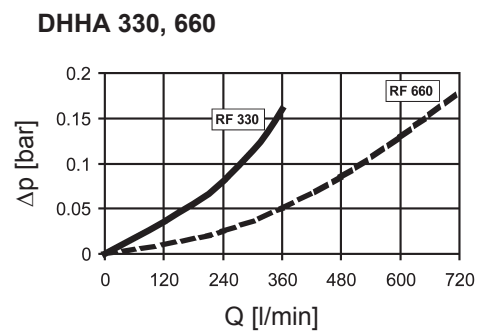
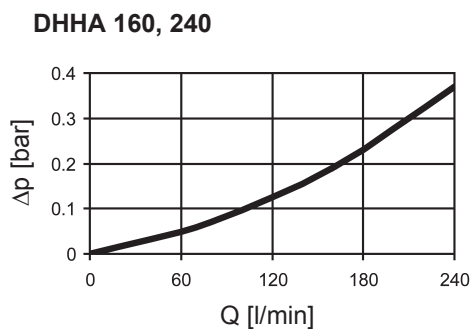
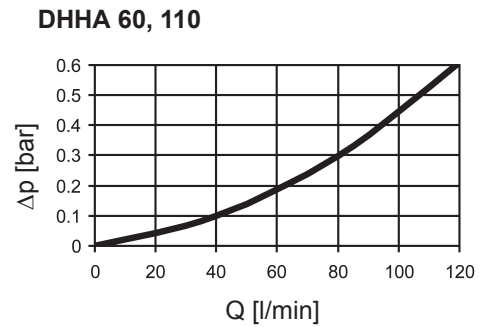
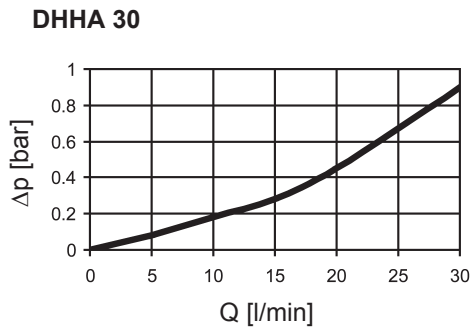
Filter housing must be grounded

When using electric plugging, please replace the filter element.

The system must be turned off before removing the clogging indicator light and power connector.

### $\Delta p$ -Q ISO 3968

The housing curves apply to mineral oil with a density of 0.86 kg/dm<sup>3</sup> and a kinematic viscosity of 30 mm<sup>2</sup>/s. In this case, the differential pressure changes proportionally to the density.



### GRADIENT COEFFICIENTS (SK) FOR FILTER ELEMENTS

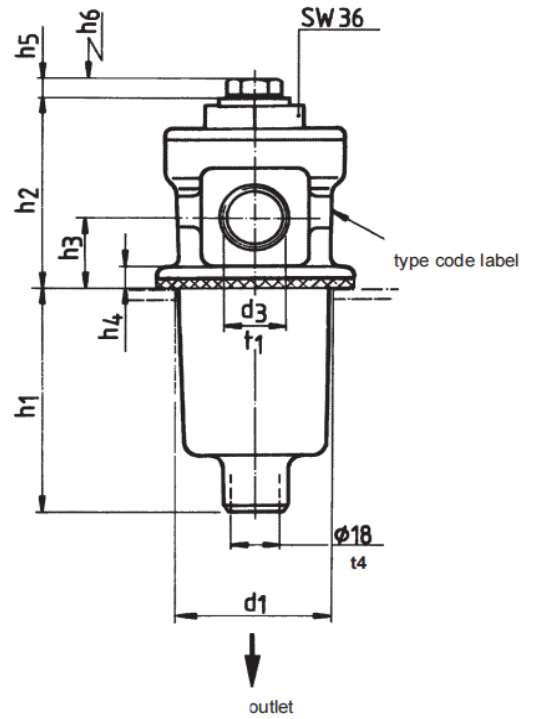
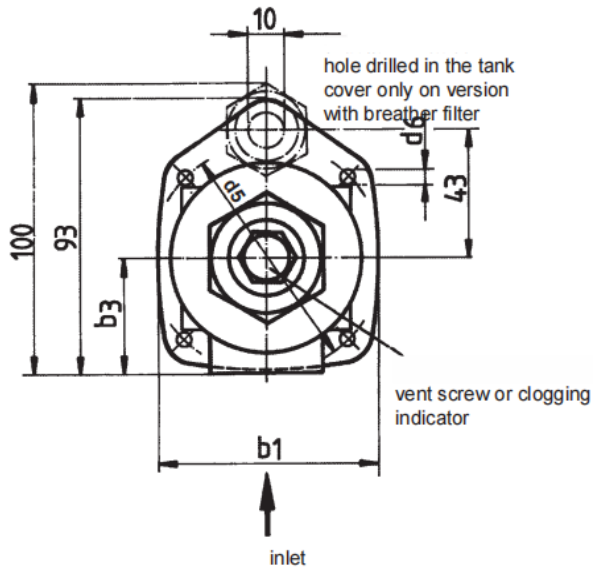
The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematic viscosity of 30 mm<sup>2</sup>/s. The pressure drop changes proportionally to the change in viscosity.

DHHA	F					
	1 μm	3 μm	5 μm	10 μm	15 μm	20 μm
30	89.8	68.4	43.9	26.8	16.8	14.7
60	47.2	23.6	17.2	9.82	9.01	6.85
110	22.3	13.1	8.87	5.40	4.26	3.24
160	16.0	8.00	5.68	3.22	2.69	2.32
240	10.4	5.18	3.66	2.27	1.84	1.41
330	8.09	3.72	2.73	1.48	1.28	1.02
660	3.57	1.69	1.21	0.67	0.57	0.45
950	2.39	1.03	0.79	0.48	0.38	0.31
1300	1.72	0.72	0.59	0.35	0.32	0.22

DHHA	W					-
	3 μm	5 μm	10 μm	20 μm	-	
30	19.4	14.2	7.9	3.8	-	-
60	15.9	9.3	5.4	3.3	0.611	-
110	7.6	5.1	3.0	2.0	0.30	-
160	4.9	3.5	2.4	1.5	0.193	-
240	3.2	2.6	1.7	1.2	0.123	-
330	2.1	1.7	1.1	0.8	0.195	-
660	1.0	0.8	0.6	0.4	0.067	-
950	0.7	0.6	0.4	0.2	0.048	-
1300	0.5	0.4	0.3	0.2	0.034	-

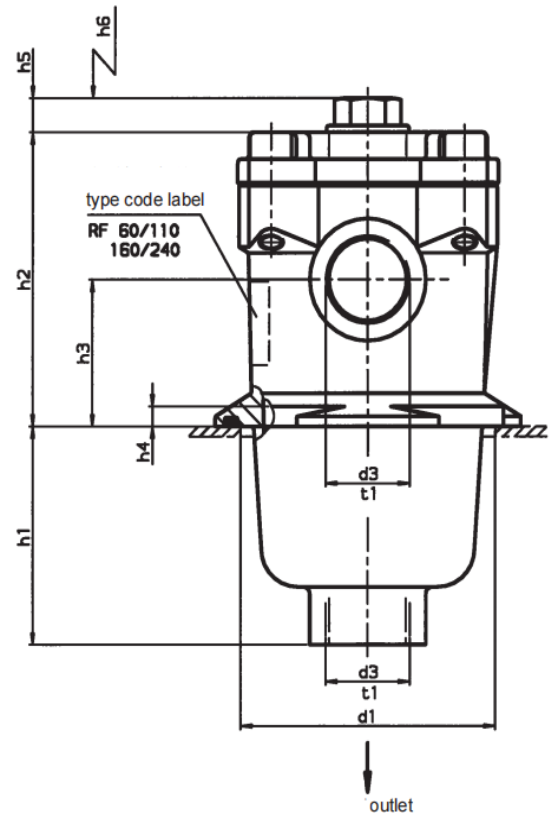
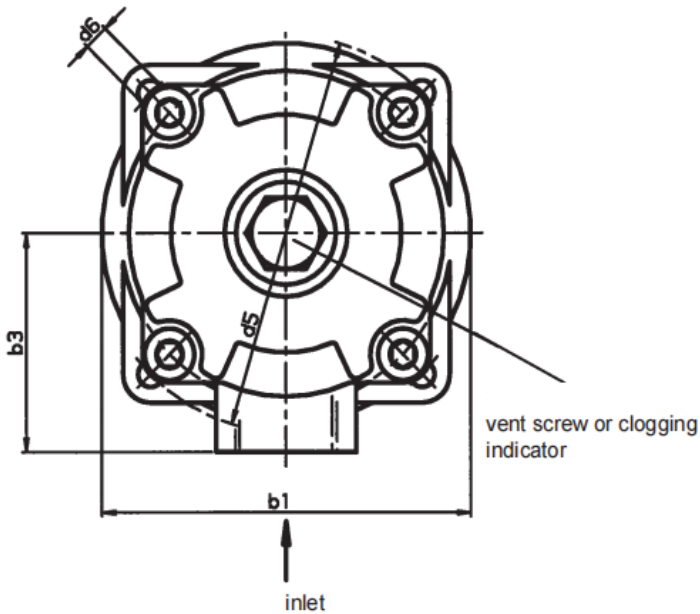
# DIMENSIONS

DHHA 30



DHHA	b1	b3	d1	d3 <sup>1)</sup>	d5	d6 <sup>2)</sup>	h1	h2	h3	h4	h5	h6	t1	t4	Weight incl. element [kg]	Vol. of pressure chamber [l]
30	71	38	60	G ½	78	M4	86	70	27	8	11	90	14	14	0.4	0.18

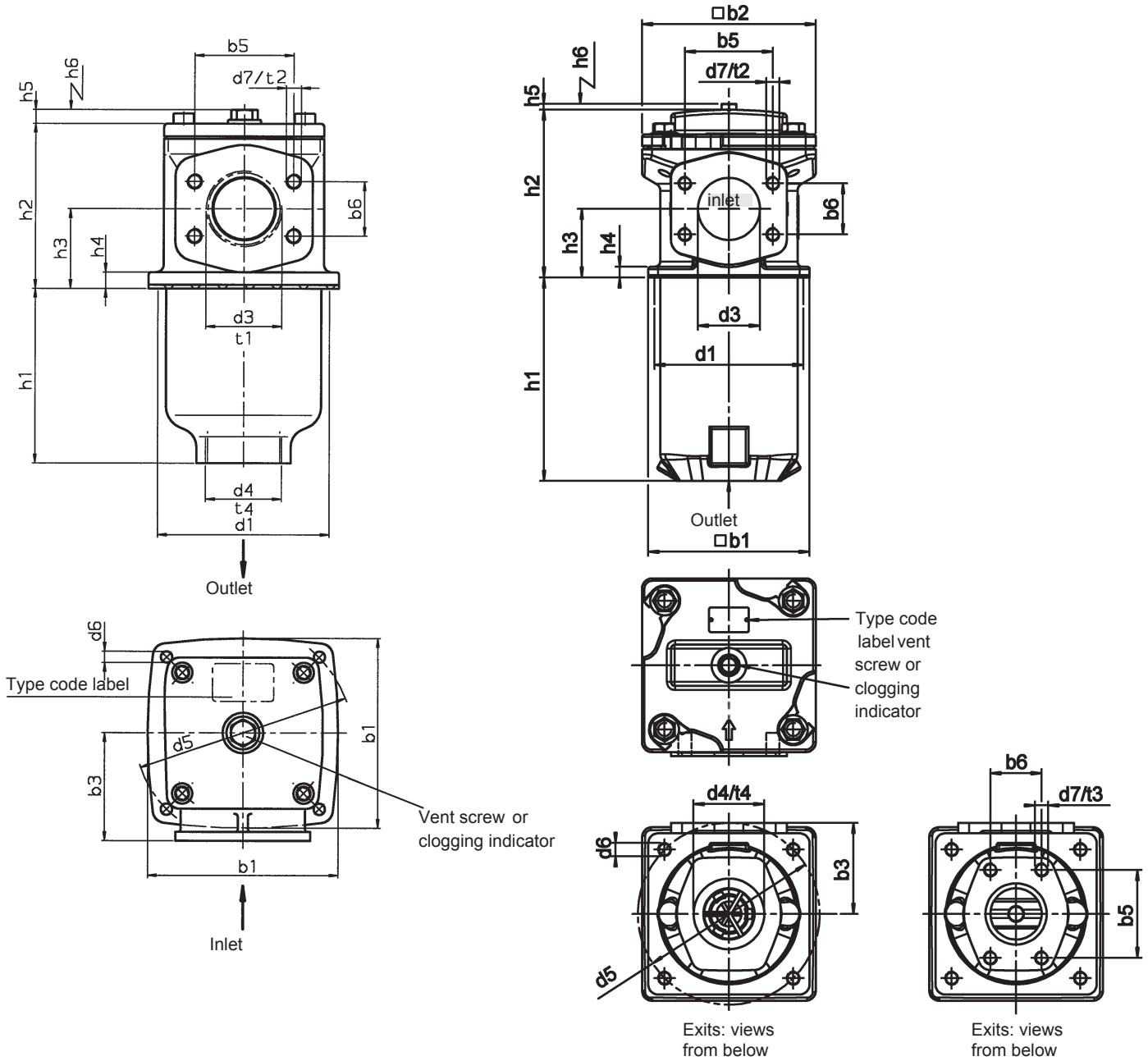
DHHA 60-240



DHHA	b1	b3	d1	d3 <sup>1)</sup>	d5	d6 <sup>2)</sup>	h1	h2	h3	h4	h5	h6	t1	t4	Weight incl. element [kg]	Vol. of pressure chamber [l]
60	96	55	80	G ¾	100	M5	66	88	44	6	12	80	17	-	0.9	0.40
110	96	55	80	G ¾	100	M5	133	88	44	6	12	145	17	-	1.1	0.60
160	126	72	106	G 1¼	135	M6	89	108	54	6	12	120	20	-	1.8	1.00
240	126	72	106	G 1¼	135	M6	150	108	54	6	12	180	20	-	2.2	1.40

DHHA 330

DHHA 660 - 1300



DHHA	b1	b2	b3	b5	b6	d1	d3	d4	d5	d6 <sup>1)</sup>	d7	h1	h2	h3	h4	h5	h6	t1	t2	t3	t4	Weight incl. element [kg]	Vol. of pressure chamber [l]
330	150	126	85	77.8	42.9	135	G2 SAE DN 50 (2")	G2	170	M8	M12	139	130	63	13	12	180	27	23	-	27	4.1	2.0
660	195	210	110	106.4	61.9	180	SAE DN 80 (3")	G3 SAE DN 80 (3")	220	M12	M16	246	203	83	13	8	320	-	28	18	28	31.0	6.8
950	250	244	135	120.7	69.9	208	SAE DN 90 (3½")	SAE DN 90 (3½")	290	M16	M16	252.5	225	93	13	8	385	-	20	20	-	44.5	10.3
1300	250	244	145	130.2	77.8	208	SAE DN 100 (4")	SAE DN 100 (4")	290	M16	M16	330.5	269	121	13	8	485	-	20	20	-	52.5	13.5

Annotate:

All information in this manual relates to the described working environment and application conditions. For applications and working conditions that are not described, please contact the relevant technical department. Technical modifications are possible.