DHHC Series

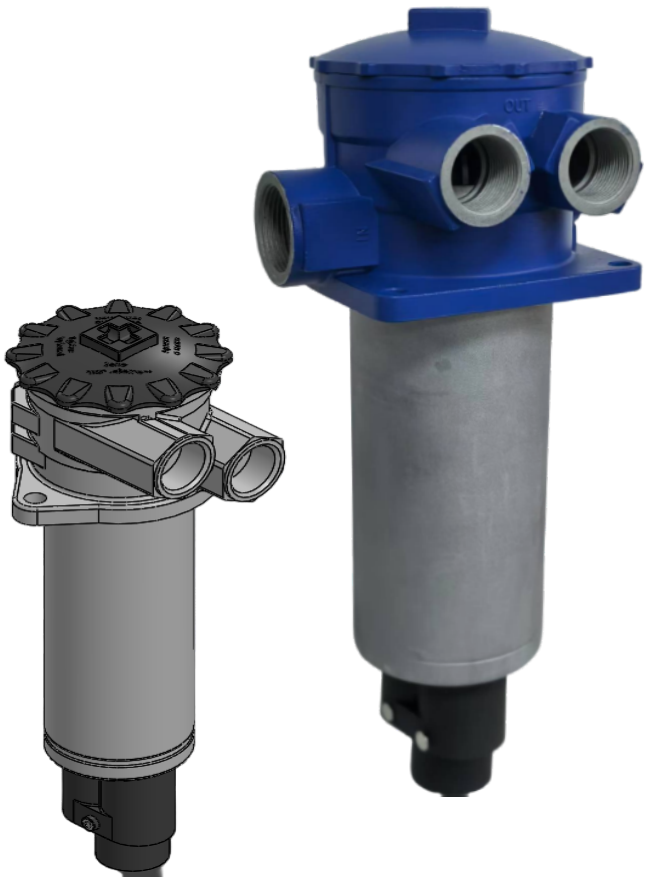
DESCRIPTION

Suction-Return filter

Connection type and size:

Threaded connection: G¾" G1" G1¼" G1½"

Maximum flow rate up to 850 l/min



TECHNICALPARAMETER

Maximum working pressure: 10 bar

Bypass valve opening pressure: 2.5 bar

Transmitter opening pressure: 2 bar

Temperature range: -29℃ to +100℃

MATERIALS

Head: Cast aluminium

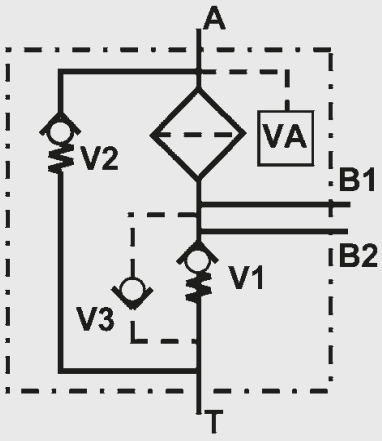
Filter bowl: Carbon steel

Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

Filter element material: Fiberglass and wire mesh

Symbol for hydraulic systems



VA = clogging indicator

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.)

Ordering Options Table

DHHC 120 X D F 10 N B B2.5

Filter type

Filter specification

80 100 120 151 201 251 300 400 800

Type and size of oil suction port

Type	Connection	Filter size									
		80		100	120	151	201	251	300	400	800
T	2 x CS1¼					●	●	●	●		
V	2 x G1					●	●	●			
X	1 x G1	●		●	●						
Y	1 x G¾	●		●	●						
Z	to customer spec	●		●	●	●	●	●		●	●

Type and size of return port

Type	Connection	Filter size								
		80	100	120	151	201	251	300	400	800
C	1 x G¾	●	●	●						
D	1 x G1	●	●	●						
E	1 x G1¼				●	●	●			
F	1 x CS1½							●		
G	1 x G1½									
Z	to customer spec	●°	●°	●°	●°	●°	●°		●	●

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 (Automatic reset)
B: Visual (Automatic reset)
CM: Electrical indicator
C: Electrical indicator
CL: Visual and electrical indicators

Bypass valve opening pressure

B0 = without bypass valve
B2.5 = 2.5 bar

Filter Element

DYHC 120 F 10 N

Filter element type

Filter element specification

80 100 120 151 201 251 300 400 800

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

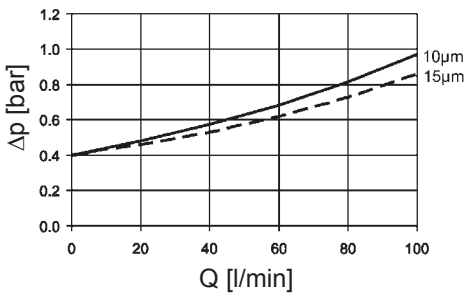
When using electric plugging, please replace the filter element.

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

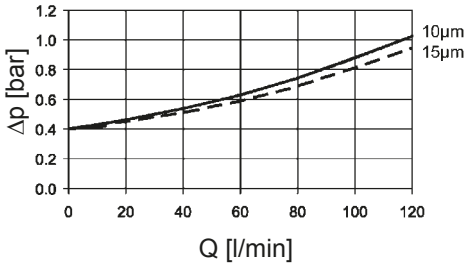
Δp-Q ISO 3968

The housing curves apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s. In this case, the differential pressure changes proportionally to the density.

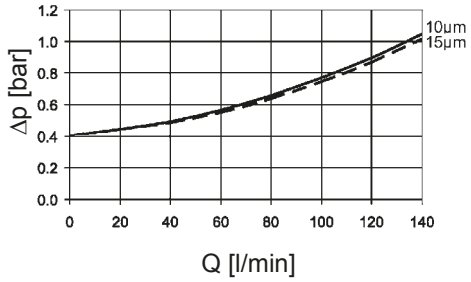
DHHC 80



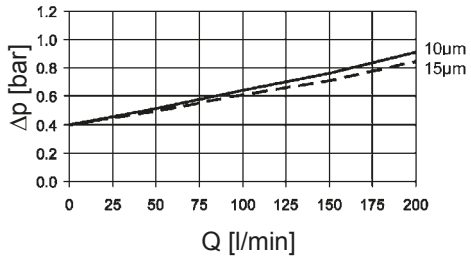
DHHC 100



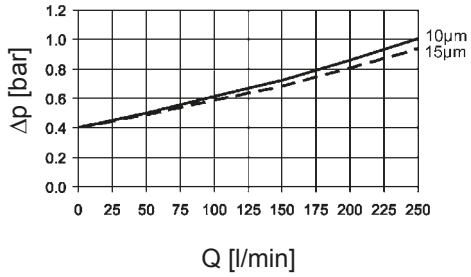
DHHC 120



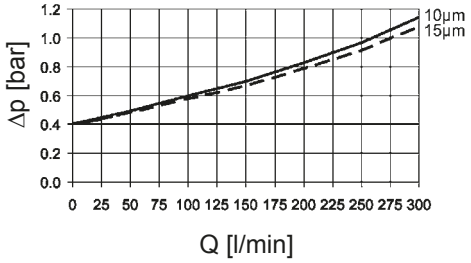
DHHC 151



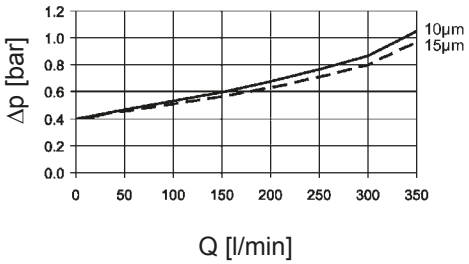
DHHC 201



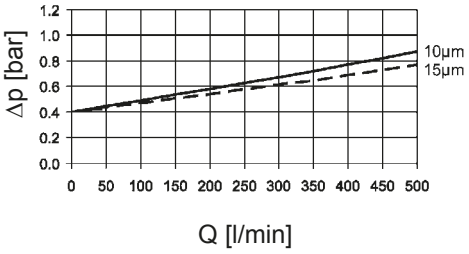
DHHC 251



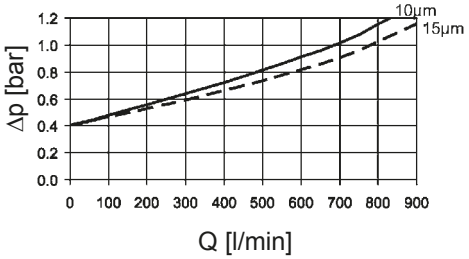
DHHC 300



DHHC 400



DHHC 800



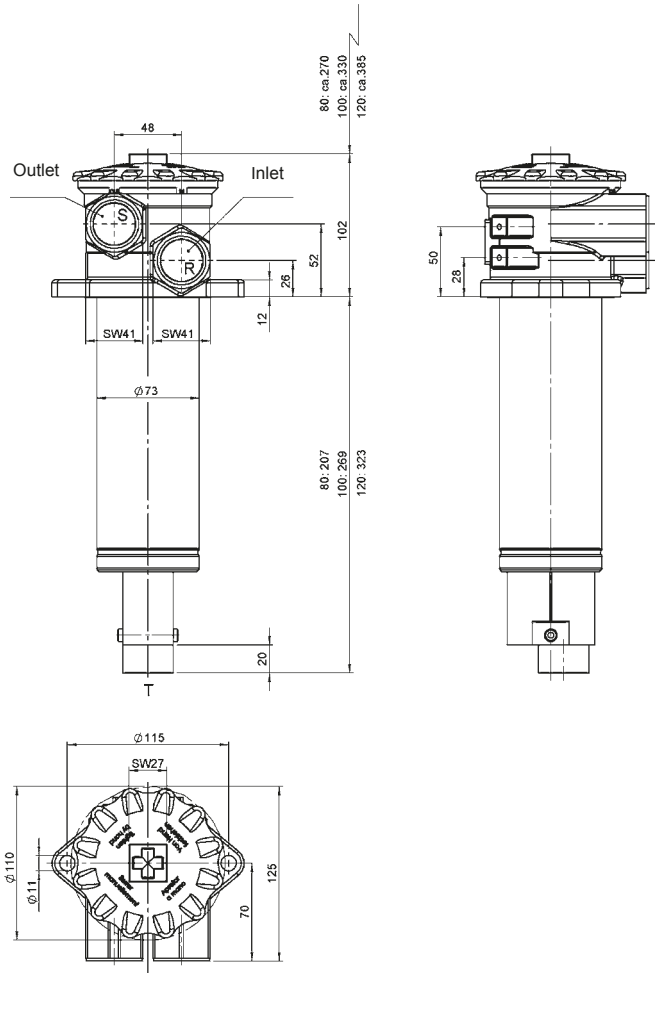
DHHC			
	8 µm	10 µm	15 µm
80	2.70	2.70	1.60
100	1.80	1.80	1.10
120	1.40	1.40	0.90
151	1.00	1.00	0.65
201	0.75	0.75	0.47
251	0.58	0.58	0.36
300	0.62	0.62	0.39
400	0.56	0.56	0.35
800	0.44	0.44	0.27

GRADIENT COEFFICIENTS (SK) FOR FILTER ELEMENTS

The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematicviscosity of 30 mm²/s. The pressure drop changes proportionally to the change in viscosity.

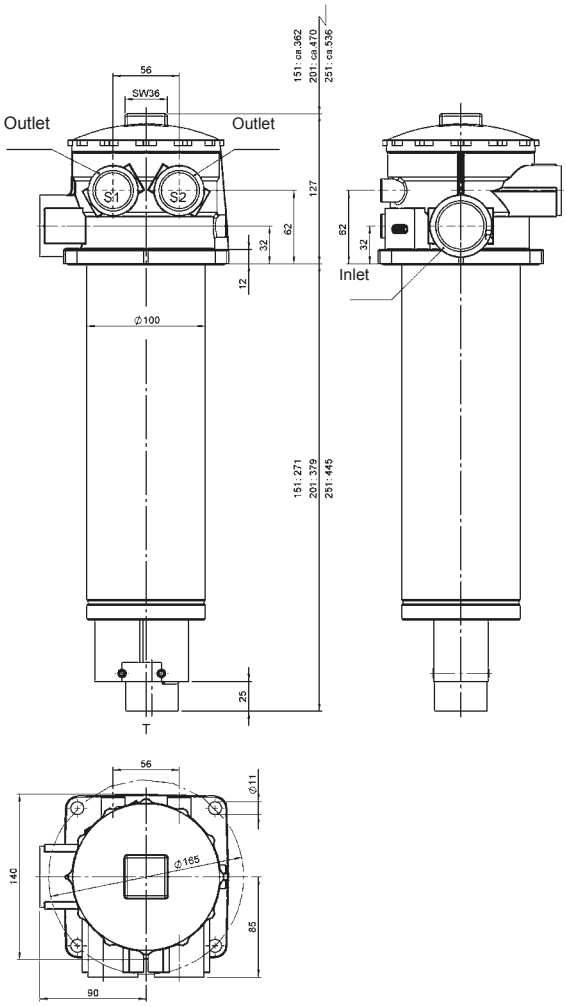
DIMENSIONS

DHHC 80 100 120



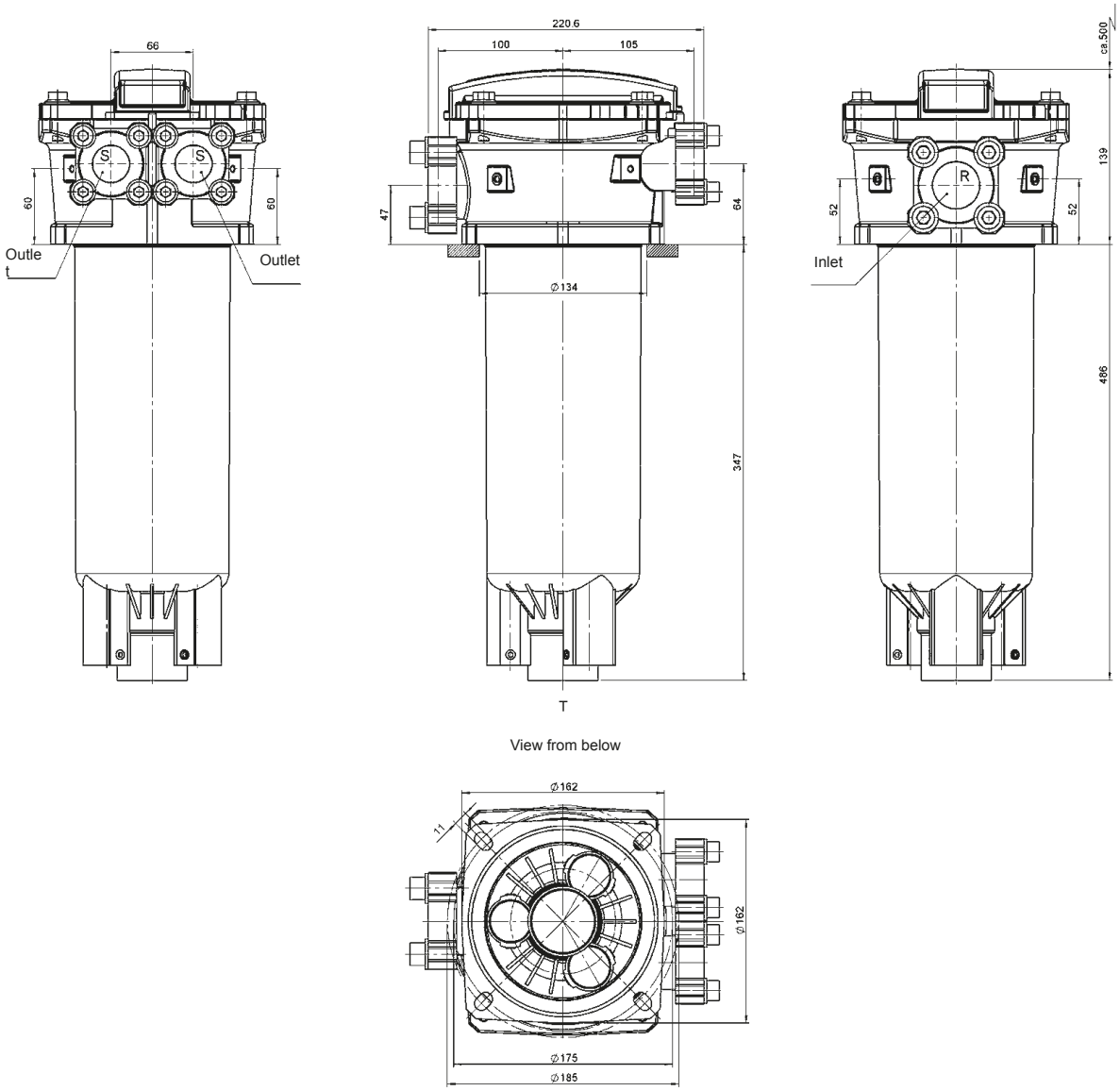
Type	Weight incl. element [kg]	Vol. of pressure chamber [l]
DHHC 80	1.5	0.80
DHHC 100	1.7	1.00
DHHC 120	1.9	1.20

DHHC 151 201 251



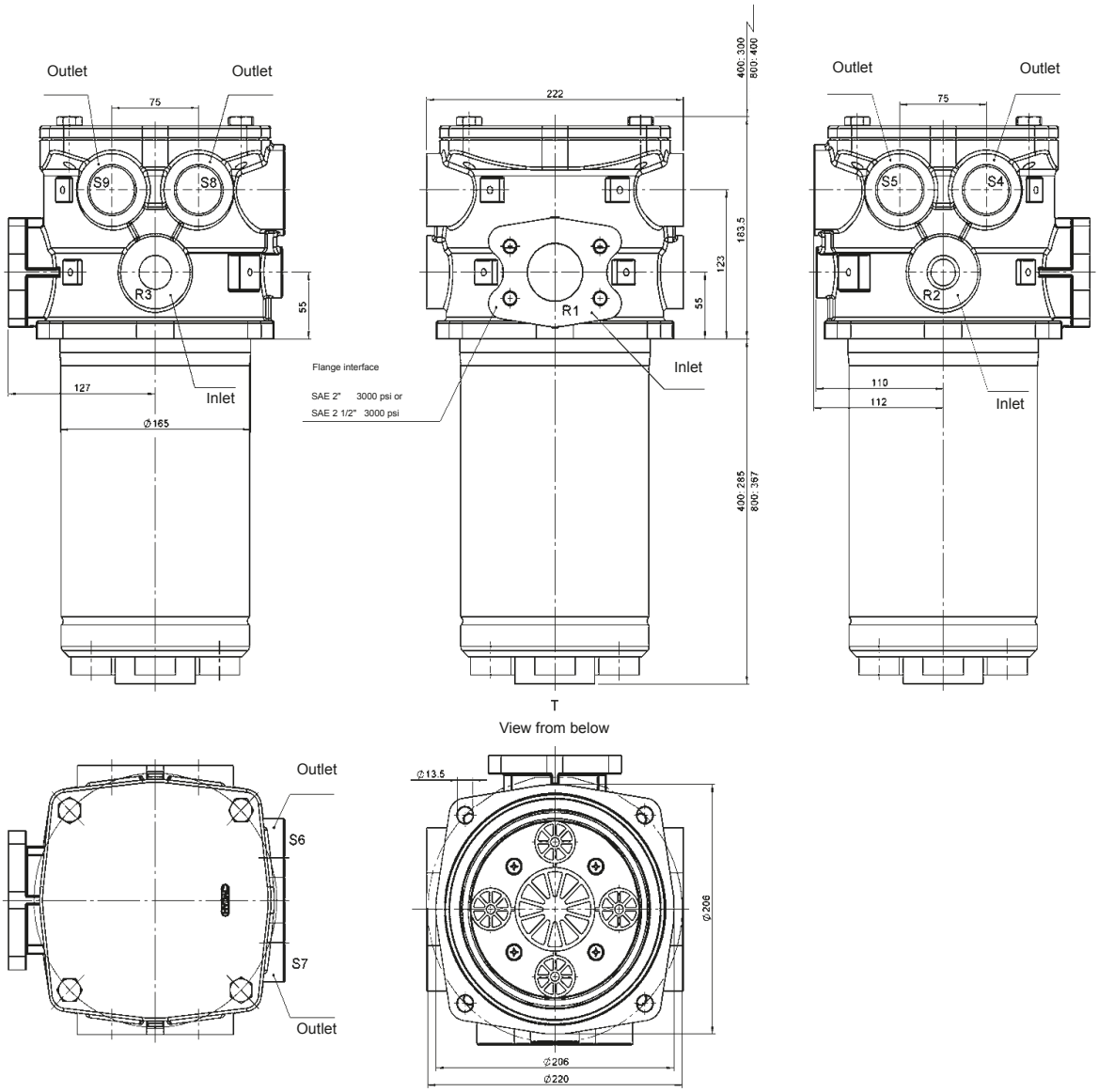
Type	Weight incl. element [kg]	Vol. of pressure chamber [l]
DHHC 151	3.1	2.20
DHHC 201	3.7	2.50
DHHC 251	4.0	3.00

DHHC 300



Type	Weight incl. element [kg]	Vol. of pressure chamber [l]
DHHC 300	4.6	4.00

DHHC 400 800



Type	Weight incl. element [kg	Vol. of pressure chamber [l]
DHHC 400	6.5	8.50
DHHC 800	7.5	10.00

Annotation

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.