Steel Housing Filters

0108 – 3840 series

The steel standard filter housings with econometer and pneumatic drain are designed for the purification of compressed air and gases.
Due to the modular design of the housings different filter elements can be used.

Product description:

SG standard housings are designed for the purification of compressed air and gases in an industrial operation. The flanged housings due to an optimized construction offer low differential pressures at high flow rates and as a standard equipped with an econometer and a pneumatic drain. A multitude of various housings with different connections, single or multiple, allow to match the requirements of the application, e. g. the compressor size. This product series offers 13 different housings ranging from a volume flow of 1080 m3/h to 38400 m3/h (related to 7 bar (ü) and 20°C).

The SG standard filter housing conforms to the requirements of the European directive 87/404/EG for simple pressure vessels.

Materials:	
Filter housing, EG-type approval	Steel
Econometer: differential gauge	Plastic
Pneumatic drain	Aluminium
Sealing acc. to DIN 2690	Aramide fibers

Maximum operating pressure:	
0108 - 0288 0432 - 3840	16 bar 16 bar

Maximum operating temperature:
120°C

Surface finish:
Polyester resin coating

Connection IN/OUT:
Flange DN 50 to DN 300; DIN 2633

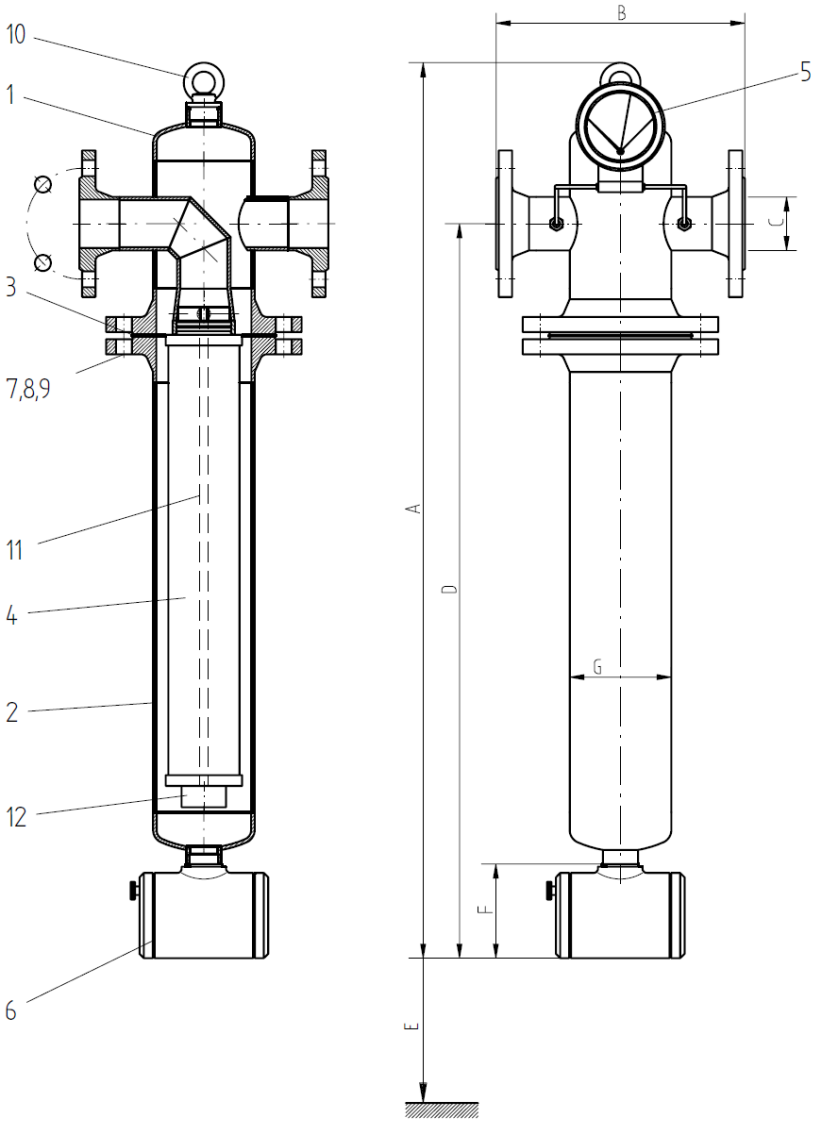
GARDNER DENVER

Experience Proven Results™

Industrial filter SG 0108-0288

Pos.	Piece	Description
12	1	knurled nut
11	1	anchor bolt
10	1	lifting eye bolt
9	1	washer
8	1	hexagon nut
7	1	hexagon bolt
6	1	drain
5	1	econometer
4	1	filter element
3	1	housing gasket
2	1	lower housing bowl
1	1	upper housing bowl

Max. operating-pressure:	16 bar
test pressure:	24 bar
Max. operating temperature:	120°C
Material:	carbon steel
Paint coat:	polyester resin coating

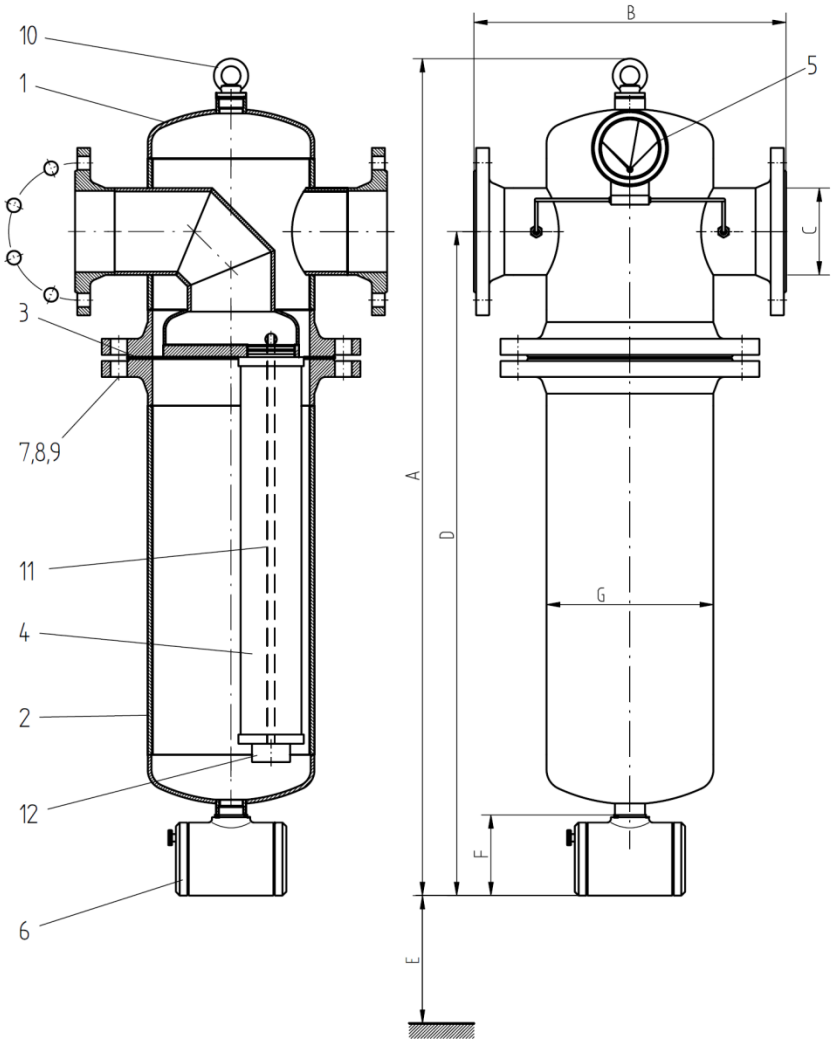


Size	Volume (l)	Weight* (kg)	A mm	B mm	C DIN 2633	D mm	E mm	F mm	ø G mm	Element
0108	7,5	28	1015	280	DN 50	830	450	105	114,3	15/30
0144	8,0	33	1015	280	DN 65	830	580	105	114,3	20/30
0192	16,0	40	1315	320	DN 80	1120	850	105	139,7	30/30
0288	23,5	54	1350	360	DN 80	1135	850	105	168,3	30/50

* without filter element

Industrial filter SG 0432-3840

Pos.	Description
12	knurled nut
11	anchor bolt
10	lifting eye bolt
9	washer
8	hexagon nut
7	hexagon bolt
6	drain
5	economizer
4	filter element
3	housing gasket
2	lower housing bowl
1	upper housing bowl



Max. operating pressure:	16 bar
test pressure:	24 bar
Max. operating temperature:	120°C
Material:	carbon steel
Paint coat:	polyester resin coating

Size	Volume (l)	Weight* (kg)	A mm	B mm	C DIN 2633	D mm	E mm	F mm	ø G mm	Element
0432	31	80	1100	410	DN 100	870	580	105	219.1	3x20/30
0576	40	90	1370	410	DN 100	1140	850	105	219.1	3x30/30
0768	70	130	1485	480	DN 150	1210	875	105	273	4x30/30
1152	103	150	1510	540	DN 150	1225	875	105	323.9	6x30/30
1536	168	236	1625	660	DN 200	1285	875	105	406.4	8x30/30
1920	168	240	1625	660	DN 200	1285	875	105	406.4	10x30/30
2304	312	376	1730	800	DN 250	1350	875	105	508	12x30/30
3072	312	380	1730	800	DN 250	1350	875	105	508	16x30/30
3840	463	530	1870	930	DN 300	1445	900	105	600	20x30/30

* without filter element

Technical Data

Prefilter GDP

Particle retention rate related to 25 µm	Oil retention rate acc. to ISO 12500-1	Residual oil content at an inlet concentration of	
			10 mg/Nm³
η (P) = 100%	η (P) = 90%	m_{Oil} (P) [mg/Nm³]	1

Finefilter GDF

Particle retention rate related to particles			Oil retention rate acc. to ISO 12500-1	Residual oil content at inlet concentration		
≥ 1 µm	≥ 5 µm	≥ 9 µm			10 mg/Nm³	3 mg/Nm³
η (V) = 99,65%	η (V) = 99,90%	η (V) = 100%	η (V) = 96%	$\dot{m}_{Öl}$ (V) [mg/Nm³]	< 0,5	< 0,2

Microfilter GDM
Submicrofilter GDU

Particle retention rate related to 0.01 µm	Oil retention rate acc. to ISO 12500-1	Residual oil content at an inlet concentration of		
			10 mg/Nm³	3 mg/Nm³
η (M) = 99.99998%	η (M) = 99.7%	$\dot{m}_{Oil}$ (M) [mg/Nm³]	0.03	< 0.02
η (S) = 99.99999%	η (S) = 99.8%	$\dot{m}_{Oil}$ (S) [mg/Nm³]	0.02	< 0.01

Activated Carbon Filter GDK

Recommended application temperature:	Recommended pre purification:	Retention rate:
+10°C...+40°C (Tmax = +60°C)	Residual oil content < 0,01 mg/m³, e.g. by sub microfilter	Residual oil content < 0,003 mg/m³, at appropriate pre purification

For additional information please contact Gardner Denver or your local representative.

gdcompressors.eu@gardnerdenver.com
www.gardnerdenverproducts.com