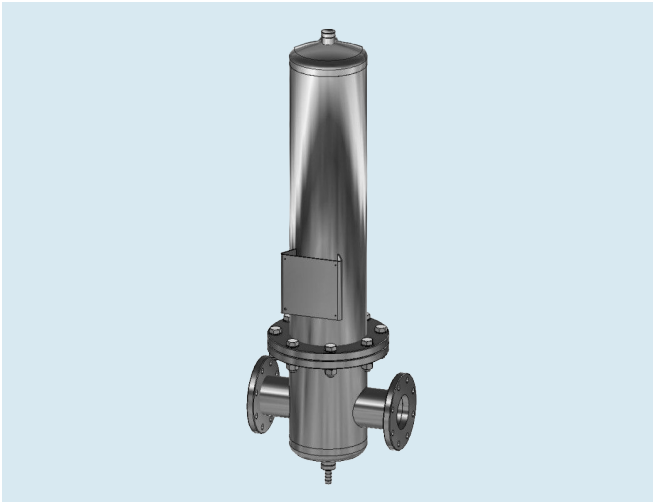
PROCESS FILTRATION

From Pure to Sterile

PG-EG 0432 – 1920



PG-EG housings were developed for the purification of pressurised air and other technical gases. Combined with the different Donaldson filter elements they provide an optimised solution for nearly any application.

The PG-EG multiple series is available in 6 different housing sizes with operating flow rates from 540 to 2700 m^3/h (at 1 bar absolute). The housings are equipped with flange connections, the surface is electropolished to Ra < 0,8 µm.

DIRECTIVES

All PG-EG multiple housings are designed in accordance with

- FDA CFR-Code of Federal Regulations Title 21
- Framework regulation 1935/2004/EC
- Pressure Equipment Directive 2014/68/EU

MAIN FEATURES & BENEFITS

- Inside and outside etched, passivated and electropolished Ra < 0.8 µm
- Flange connection for safe operation
- Complete stainless steel 304 or 316L construction

INDUSTRIES

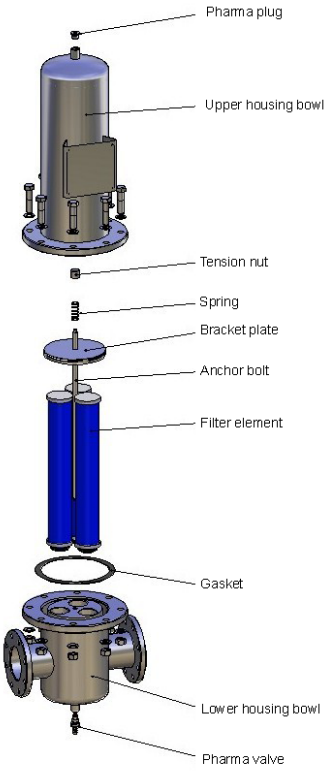
- Food

- Beverage

- Dairy

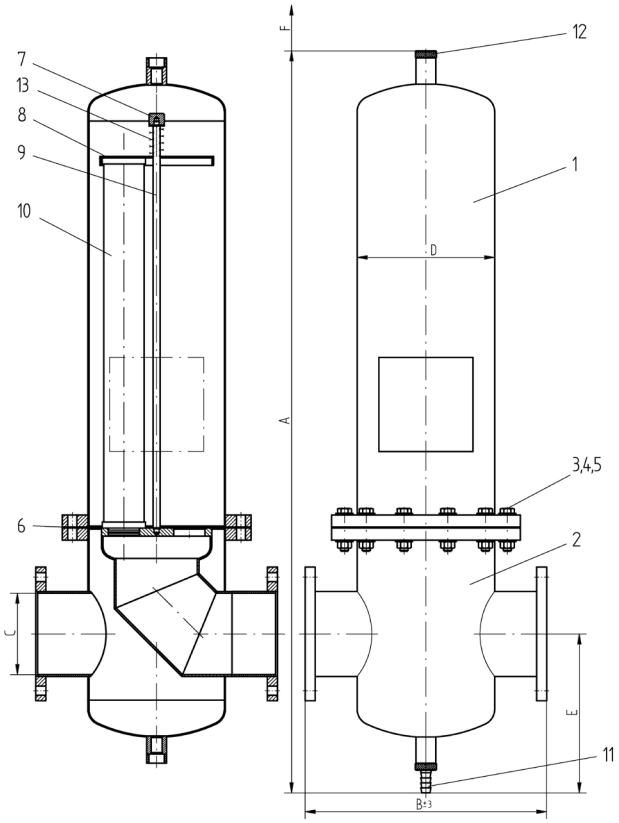
- Chemical

- Pharmaceutical



TECHNICAL DATA

Pos.	Name
13	Spring
12	Pharma plug
11	Pharma valve
10	Filter element
9	Anchor bolt
8	Bracket plate
7	Bracket bolt
6	Gasket
5	Nut
4	Washer
3	Hexagon bolt
2	Lower bowl
1	Upper bowl



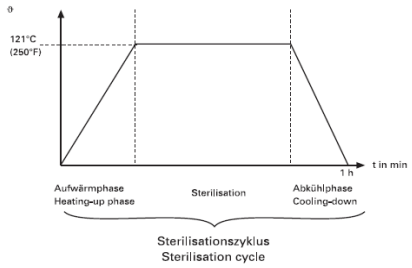
Max. operating pressure for liquids:	10 bar at min./max. operating temperature *) -25 °C / +150 °C
Test pressure:	18,3 bar (1.4301) 16,8 bar (1.4404)
Material housing: Material attached parts:	1.4404 (1.4301 optional) 1.4404
Surfaces:	etched, passivated and electropolished inside and outside Ra <0,8 µm
Classification acc. to 2014/68/EU for fluids group 2	0432 – 0768: Kat. II 1152 – 1920: Kat. III

DIMENSIONS HOUSING AND FLANGE CONNECTIONS ACC. TO DIN 2576

Size	Volume [l]	Weight [kg]	A [mm]	B ±2 [mm]	C	øD [mm]	E [mm]	F [mm]	Element
0432	36	43	1155	410	DN 100	219.1	275	580	3x 20/30
0576	45	44	1410	410	DN 100	219.1	275	850	3x 30/30
0768	77	70	1475	480	DN 150	273	315	850	4x 30/30
1152	110	80	1530	540	DN 150	323,9	325	850	6x 30/30
1536	190	135	1665	660	DN 200	406.4	375	850	8x 30/30
1920	190	135	1665	660	DN 200	406.4	375	850	10x 30/30

STEAM STERILISATION

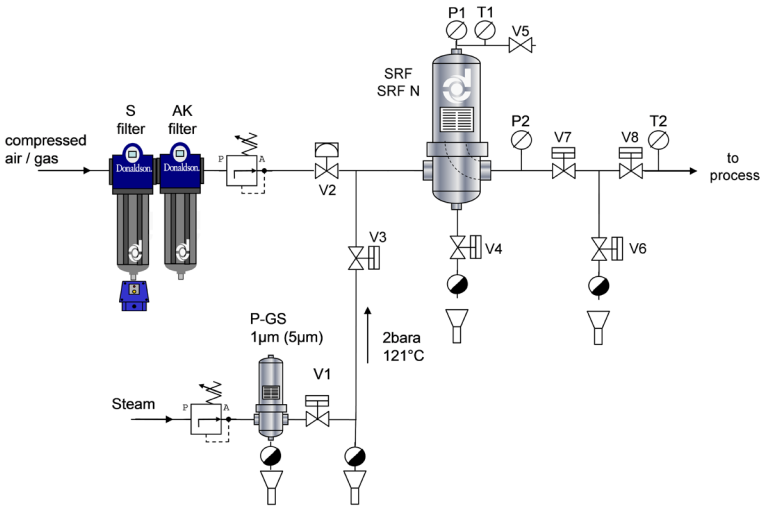
Air and gas filter elements can be effectively steam sterilised inside the PG-EG housing. The sterilisation time necessary to reach sterility in the filter depends on the steam temperature. The following are recommended values that have to be adjusted to the specific installation.



ϑ	Sterilisation time	Heating- and Cooling phase	Time for one single cycle
121 °C	30 Min	30 Min	60 Min
131-134 °C	20 Min	40 Min	60 Min
141 °C	10 Min	50 Min	60 Min

Example for a correct steam-in-place installation providing sufficient condensate removal and steam filtration. Steam temperature and pressure are monitored throughout the sterilisation procedure.

Detailed information is available in the Donaldson sterilisation guide.



For information on integrity test equipment or integrity test services, please contact your Donaldson Sales Engineer and visit our website at www.donaldson.com!

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