PROCESS FILTRATION

From Pure to Sterile

PG-EG 0006-0192

MAIN FEATURES & BENEFITS

- Electro polished Ra < 0,8 µm
- Complete stainless steel 1.4404 construction
- Design in compliance with
  - FDA CFR-Code of Federal Regulations Title 21
  - Framework regulation 1935/2004/EC
  - Pressure Equipment Directive 2014/68/EU
  - 3-A Sanitary Standards (Version Superplus) for USA

PRODUCT DESCRIPTION

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

The PG-EG single series is available in 6 different housing sizes with operating flow rates from 7.5 to 360 m^3/h (at 1 bar abs.). The housings are equipped with triclamp connections, additional connection types are available on request. The surface is electropolished to Ra < 0,8 µm.

INDUSTRIES

- Food

- Beverage

- Dairy

- Chemical

- Pharmaceutical

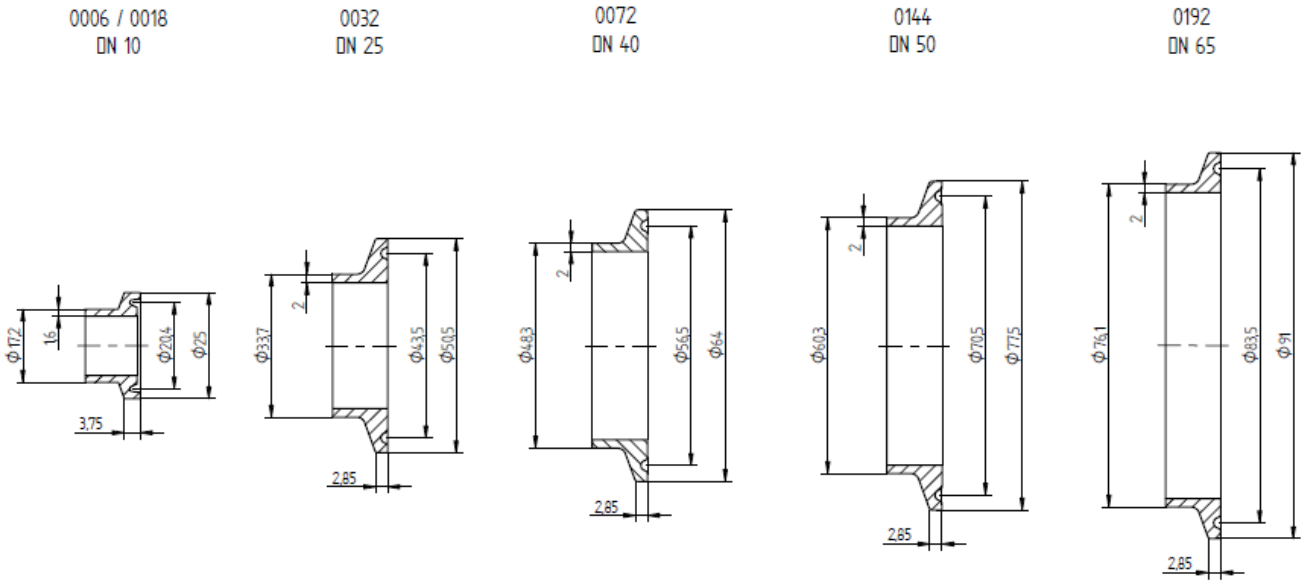
DIRECTIVES

All PG-EG single 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
- 3-A Sanitary Standards

Standard Number 10-04

DIMENSIONS HOUSING AND CLAMP CONNECTION



Size	Volume [l]	Weight [kg]	A [mm]	B ±2 [mm]	C	øD [mm]	E [mm]	øF [mm]	G	Element
0006	0,6	1,5	289	120	DN10	70	95,5	25	150	03/10
0027	0,8	1,7	344	120	DN10	70	95,5	25	200	05/20
0032	1,8	2,1	412	162	DN25	104	123	50,5	230	05/30
0072	3,2	2,9	538	164	DN40	104	123	64	360	10/30
0144	5,4	4,5	822	206	DN50	104	138	77,5	610	20/30
0192	7,4	5,7	1076	206	DN65	104	138	91	860	30/30

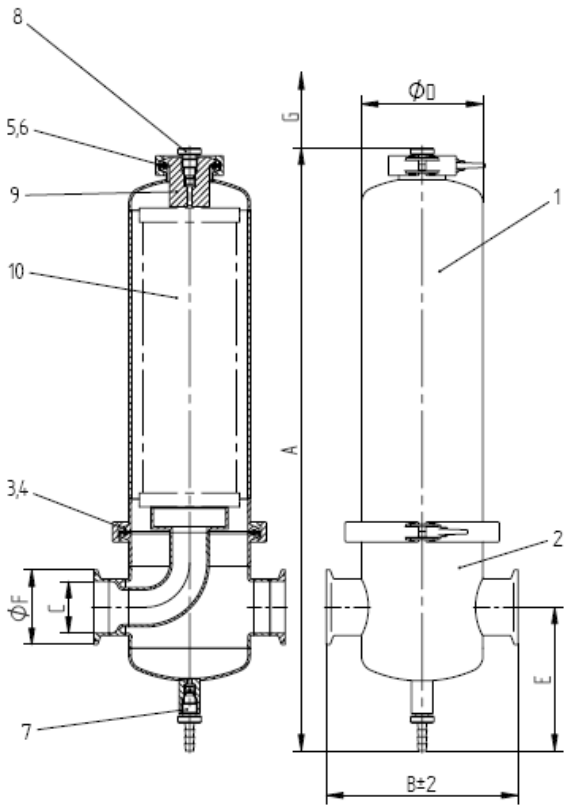
STEAM STERILISATION

PG-EG Housing		Necessary steam flow		Flow velocity steam		P-EG filter housing with P-GS Filter element
Type	Filter element	121°C [kg/h]	141°C [kg/h]	121°C [m/s]	141°C [m/s]	
0006	03/10	0,76	0,94	1,24	0,67	Filter housing 0006 Filter housing 03/10
0027	05/20	0,87	1,1	1,42	0,76	
0032	05/30	1,1	1,3	0,39	0,27	
0072	10/30	1,5	1,8	0,24	0,17	
0144	20/30	2,3	2,8	0,24	0,16	
0192	30/30	2,9	3,6	0,18	0,13	

TECHNICAL DATA

Pos.	Name
10	Filter element
9	Clamp adapter
8	Pharma plug
7	Pharma valve
6	Clamp fastener
5	Clamp gasket
4	Clamp fastener
3	Clamp gasket
2	Lower bowl
1	Upper bowl

Max. operating pressure	16 bar
Max. operating pressure with standard gasket EPDM	-25 °C bis +150 °C
Test pressure:	27 bar
Material	1.4404
Surfaces:	etched, passivated and electropolished inside and outside Ra <0,8µm
Classification acc. to 2014/68/EU	for fluids group 2 PG-EG 0006-0032 Art.4/par.3 PG-EG 0072-0192 Cat.I



GASKET SETS

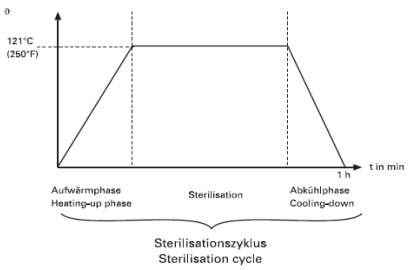
For all housing types of the PG-EG single series a gasket set is available.

Spare parts for the housings are available on request.

Set	Content	Material
Gasket Set PG-EG 0006-0018	1x Clamp gasket housing DN65 1x Clamp gasket vent DN20	EPDM
Gasket Set PG-EG 0032	1x Clamp gasket housing DN100 1x Clamp gasket vent DN40	EPDM

STEAM STERILISATION

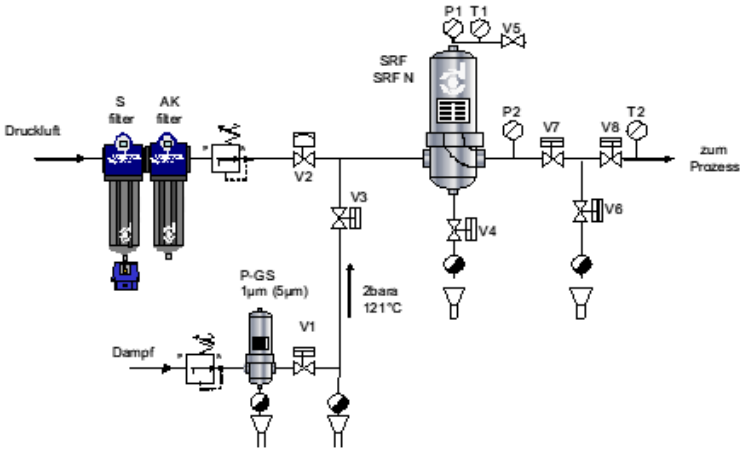
Air and gas filter elements can be effectively steam sterilised inside the PG-EG housing. The sterilisation time necessary to reach sterility in the filter depends on the steam temperature. The following are recommended values that have to be adjusted to the specific installation.



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 atb www.donaldson.com!

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