

CELLULAR GAS FILTER

TYPE VZF – VZEF – ZFG – ZEFG
and for all non-aggressive gases

CELLULAR GAS FILTER TYPE VZF – VZEF – ZFG – ZFG

CHARACTERISTICS

- » budget priced
- » short installation length for type VZF and ZFG
- » high filtration rate (efficiency)
- » replaceable filter cartridges
- » large dust collection area VZF / ZFG
- » dust drain nozzle N3
- » upstream coarse particle separation
- » 4-way differential pressure connections
- » DVGW certified
- » for all gases according to G260
- » for non-aggressive special gases
- » many sizes in stock

SIZING

The performance diagram shown in the leaflet offers operational data to select a filter. At the intersection of a max. gas velocity of 20 m/s and the maximum operational flow rate to be expected, the nominal size of the filter results.

ACCESSORIES

- » differential pressure gauge DP900
- » installation kit - without bypass
- » accessories for DP900, e.g. reed contact
- » valve block - with bypass



FUNCTION

The gas flows through the inlet nozzle into the filter housing. For the types VZF / ZFG with a straight through flow, the coarse particles entrained in the gas are pre-filtered by flow diversion (impingement element). Fine dust particles are filtered by a filter cartridge. The purified gas flows through the outlet nozzle. The filter element contamination should be monitored with a differential pressure measurement.

FILTER ELEMENTS

- » Standard cellular gas filters are equipped with cellulose filter elements type ZPZ for the separation of dust particles.
- » Efficiency rate: 99.5% > 2µm tested according to DIN 3386 Test aerosol SAE Fine Dust
- » Filter element change: recommended at 600 mbar
- » Burst pressure: 2 bar
- » Vildedon, needle felt, polypropylene, FFX, stainless steel – on demand

GASKETS

- » in acc. to application
- O-rings or grooved gaskets

QUALITY MANAGEMENT

- » DIN EN ISO 9001 certified
- » **DVGW certified** acc. to:
 - Pressure Equipment Directive EG 2014/68 / EU
 - EU gas appliance regulation EU 2016/426 (GAR).
- » The tests are carried out in accordance with DVGW worksheet G498 and in accordance with the AD-2000 regulations.
- » The construction, pressure and tightness tests, as well as the housing materials are carried out with a factory acceptance certificate
- » DIN EN 10204 / 3.1 certified.

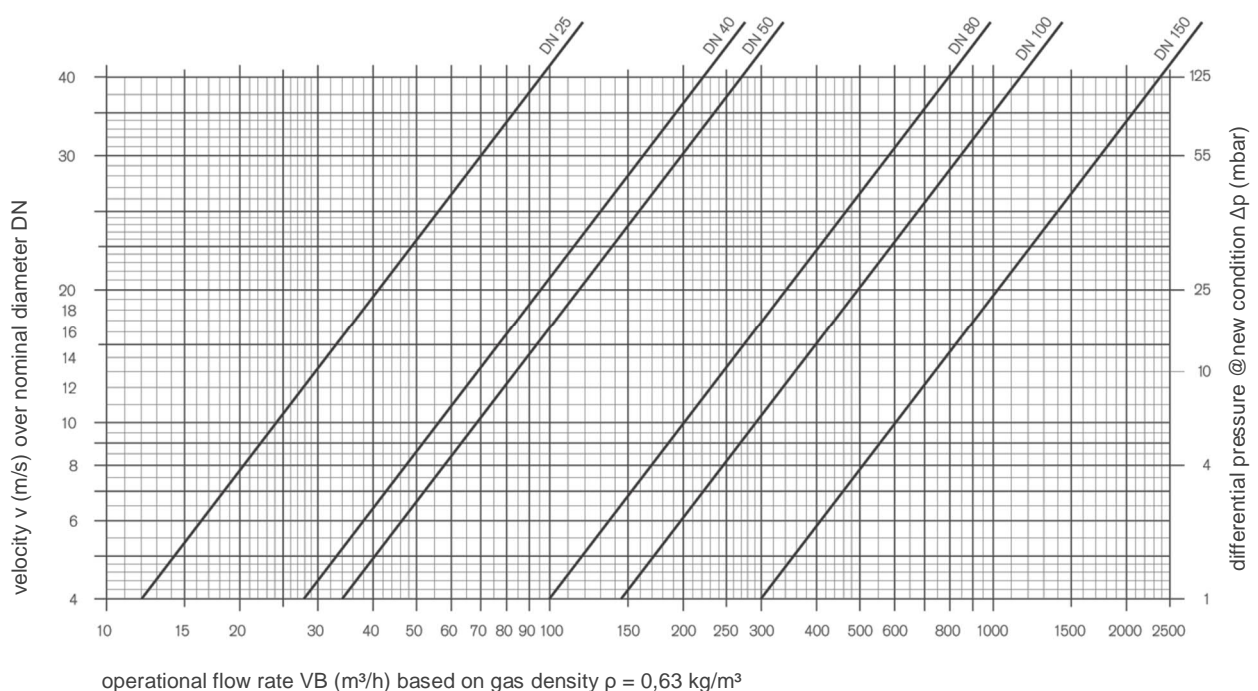
ATEX 2014/34 / EU Ed.1-04 / 16, §42 paragraph 4

- » Cellular gas filters are not considered by this directive.
- » The components do not have their own potential ignition source and hot surfaces that can ignite an explosive atmosphere.





FLANGE CALCULATIONS according to DIN EN 1591-1

- » on demand

FILTER SIZING / LOAD DIAGRAM



TYPE VARIANT SCHEDULE:

Type		Material	DP	Temperature	Nominal Sizes DN	Connections
VZF		Silumin Cast (Al)	PN16	-10 / +70 °C -20 / +70 °C	DN 25 / 40 / 50 / 65 / 80 / 100 / 125 / 150 DN 1" / 2" / 3" / 4" / 6"	Flanges suitable for: PN16 / PN40 acc. EN 1092 ANSI/ASME B 16.5 150 lbs. / 300 lbs. <u>threads</u> DIN EN ISO 228 <u>Eye Bolt</u> Mounting aid for cover Filters > 40 kg
VZEF		Silumin Cast (Al)	PN 16	-10 / +70 °C -20 / +70 °C	DN 25 / 50 / 80 / 100 DN 1" / 2" / 3" / 4"	
ZFG		Cast Iron (GJS)	PN 16	-10 / +70 °C	DN 25 / 50 / 80 / 100 / 150 DN 1" / 2" / 3" / 4" / 6"	
				-20 / +70 °C		
			-40 / +70 °C			
			-10 / +150 °C (TÜV)			
PN 5	-20 / +70 °C (HTB)					
PN 10	0 / +60 °C DNV	DN 25 / 50 / 80 / 100 DN 1" / 2" / 3" / 4"				
PN 40	-20 / +70 °C	DN 25 / 50 / 80 DN 1" / 2" / 3"				
ZEFG		Cast Iron (GJS)	PN 16	-10 / +70 °C	DN 25 / 50 / 80 / 100 DN 1" / 2" / 3" / 4"	
				-20 / +70 °C		
				-40 / +70 °C		
				-10 / +150 °C (TÜV)		
			PN 5	-20 / +70 °C (HTB)		
			PN 10	0 / +60 °C DNV		DN 25 / 50 / 80 / 100 DN 1" / 2" / 3" / 4"
PN 40	-20 / +70 °C	DN 25 / 50 / 80 DN 1" / 2" / 3"				

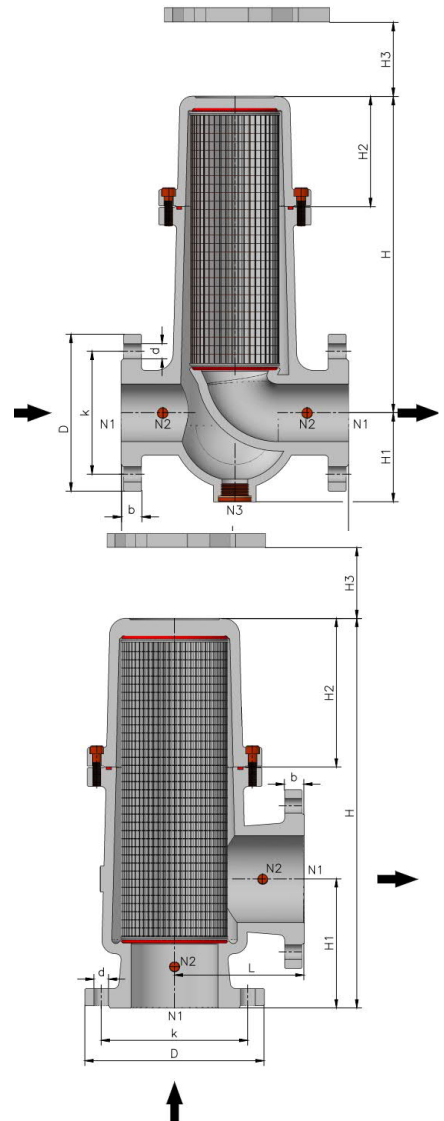
VZF – ZFG

Dimensions									Weight		Volume	
N1	N2	N3	L	H	H1	H2	H3	VZF	ZFG	VZF	ZFG	
			[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]	[l]	[l]	
1"	G¼	G½	140	126	58	35	90	2,7	6	0,4	0,3	
DN 25	G¼	G½	140	126	58	35	90	2,7	6	0,4	0,3	
2"	G¼	G½	210	212	85	72	120	7	16	1,9	1,8	
* DN 40	G¼	G½	210	212	85	72	120	6,7	n/v	1,9	n/v	
DN 50	G¼	G½	210	212	85	72	120	7	16	1,9	1,8	
3"	G¼	G 1	268	375	115	130	210	12,7	30	5,2	5,6	
* DN 65	G¼	G½	268	375	115	130	210	12,4	n/v	4,9	n/v	
DN 80	G¼	G 1	268	375	115	130	210	12,7	30	5,2	5,6	
4"	G¼	G 1	318	465	135	183	235	20	48	10,4	10,5	
DN 100	G¼	G 1	318	465	135	183	235	20	48	10,4	10,5	
6"	G¼	G 1	400	680	165	297	300	42	115	29,9	29,9	
* DN 125	G¼	G 1	400	680	165	297	235	40,5	n/v	26,6	n/v	
DN 150	G¼	G 1	400	680	165	297	300	42	115	29,9	29,9	

* Special Size Type VZF

VZEF – ZEFG

Dimensions						Weight		Volume			
N1	N2	N3	L	H	H1	H2	H3	VZEF	ZEFG	VZEF	ZEFG
			[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]	[l]	[l]
1"	G¼	n/a	78	163	78	35	90	2,5	5,5	0,3	0,3
DN 25	G¼	n/a	78	163	78	35	90	2,5	5,5	0,3	0,3
2"	G¼	n/a	123	248	123	72	120	6,2	14	1,5	1,5
DN 50	G¼	n/a	123	248	123	72	120	6,2	14	1,5	1,5
3"	G¼	n/a	134	398	134	130	210	10,6	25	3,8	4,2
DN 80	G¼	n/a	134	398	134	130	210	10,6	25	3,8	4,2
4"	G¼	n/a	159	480	159	183	235	15,3	37	7,7	7,8
DN 100	G¼	n/a	159	480	159	183	235	15,3	37	7,7	7,8



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