Colour Change Filters

Series 100/115/KC for optimum safety

- **Colour change for economical change intervals**
- **Low and constant pressure drop**
- **Easy installation - no gauge required**

DF 020 series

The disposable DF 020 filter is designed for point-of-use filtration, it removes oil and particles down to 0.5 micron at an efficiency higher than 99.0 %. Colourchange for instant on-stream inspection to provide continuous positive protection of delicate equipment and circuit components. Ideal for instrumentation fluidics and other critical low-flow applications that must be protected.

DF 115 series

Ideal for applications that require "peace of mind" filtration. The unique filter housing combines several mechanisms, such as centrifugal separation of liquid contaminants (water and oil), fine filtration of dust particles (down to 0,5 micron), and adsorption of oil vapour. The adsorption of oil vapour is achieved by a special granular material that changes from white to dark red when saturated. This continuously keeps the user informed of the saturation status of the filter.

- High filtration efficiency (99,99% particles down to 0,5 micron)
- Simple installation
- Easy maintenance
- Completely synthetic
- Extremely low pressure drop (max. 0,15 bar)
- Automatic or manual drain
- Colour change warning of saturation (E and HECE)
- Low replacement costs

DF 100 series

Combines centrifugal, dust, coalescence and adsorption filtration in a single housing. This unique filter provides high performance and a low pressure drop. Oil saturation of the element causes colourchanges of the filter element from white to red. This gives a visual indication of when the element needs changing.

- '3 in 1' filter eliminates need for prefilter
- Ideal 'point of use' filter
- Removes oil, dirt and water in a single unit
- Low pressure drop, maximum 0.15 – 0.20 bar
- Changes colour for easy maintenance
- No gauge required

Update: 20.12.2013

Colour Change Filters - Series 100/115/KC

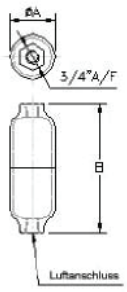
Model	Filtration		Flow	Pressure max.	Dimensions (mm)						Connection BSP		Weight
DF	Partikel micron	Restöl mg/m³	m³/h	bar (ü)	A	B	C	D	E	F	Ein-Austritt	Ablass	kg
020	0,5	0,5	3,5	3.5	34	102	-	-	-	-	1/8	-	0,1
115A+M	0,5	0,5	25	10	-	300	-	105	-	-	1/2	aut.+man.	1
115A+M HEC	0,5	0,01	25	10	-	300	-	105	-	-	1/2	aut.+man.	1
115M K	0,5	0,005	25	10	-	300	-	105	-	-	1/2	manuell	1
110	0,5	0,5	20	10	58	410	338	58	25	-	1/2	1/4	2
130	0,5	0,5	84	10	165	410	-	-	25	120	1	1/4	4
160	0,5	0,5	470	10	320	546	-	-	28	235	1 1/2	1/2	20
110 K	0,5	0,003	20	10	58	410	338	58	25	-	1/2	1/4	2
130 K	0,5	0,003	84	10	165	410	-	-	25	120	1	1/4	4
160 K	0,5	0,003	470	10	320	546	-	-	28	235	1 1/2	1/2	20
KC 11	0,5	0,003	15	10	58	410	338	58	25	-	1/2	1/4	2
KC 13	0,5	0,003	64	10	165	410	-	-	25	120	1	1/4	4
KC 16	0,5	0,003	357	10	320	546	-	-	28	235	1 1/2	1/2	20

Multiplier for different inlet pressures in bar (g)

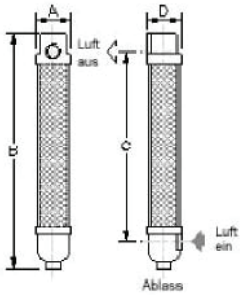
bar (g)	2	3	4	5	6	7	8	9	10
115A+M	0,37	0,50	0,62	0,75	0,87	1,0	1,12	1,25	1,37

Hints for activated carbon filtration

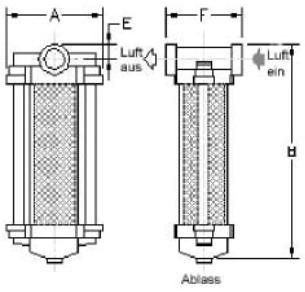
A high compressed air temperature reduces the lifespan of the filter elements. An optimum will be reached at a temperature of max. 20°C. An optimum adsorption of the hydrocarbons will be reached by a long contact time. Choose activated carbon filters with twice the air capacity for optimum filtration and lifespan. The activated carbon filters series DF 100 can be operated without pre-filtration. Pre-filters however will extend the lifespan of the elements.



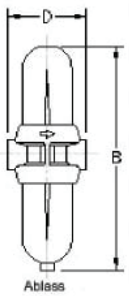
DF 020



DF 110



DF 130/ DF 160



DF 115

Materials

Colour change filters are designed from plastics like Lexan and Polycarbonate, which must not exceed the indicated maximum pressure. Exceeding of the maximum pressure or of the maximum air flow can lead to damage of the filter. Heavily pulsating air streams, or sudden pressure shocks can lead to damages and should absolutely be avoided. In this case we recommend to install a downstream particle filter, please contact our technicians. Plastic parts must not get in touch with solvents, solvent vapour or other aggressive substances.

Update: 12.08.2013