

MAHLE

Industrial Filtration

ROBUST AND FLEXIBLE
EFFICIENCY DUE TO SCREEN BASKET FILTERS



SIMPLEX/DUPLEX FILTERS



Durable, universal equipment

AKO simplex and duplex filters are suitable for use with fluids of all types, thanks to their technically mature design. They have cleanable metal filter elements that combine easy handling and cleaning with high durability and a long service life. The pressure difference resistance of our inserts up to 5 bar is still achieved by only a few manufacturers in the screen basket area. Our filters are used in the marine industry and in all other industry sectors that use protective filters or safety filters to prepare and maintain fluid quality. Operating method and cleaning: The medium flows through the screen basket filter element

from the inside to the outside. Contaminants are trapped on the inside of the filter. If a simplex filter is used, filtering is stopped when the permitted degree of contamination is reached. The filter is then opened and the screen basket is removed. The screen basket is cleaned using a steam or water jet. AKO duplex filters have two filter housings. One filter housing is used during normal filtering operations. When the maximum degree of contamination is reached, the system is switched over to the other filter housing without interrupting the filtration process. The filter that is not currently being used can now be cleaned.

SIMPLEX/DUPLEX FILTERS WITH INTELLIGENT TECHNOLOGY

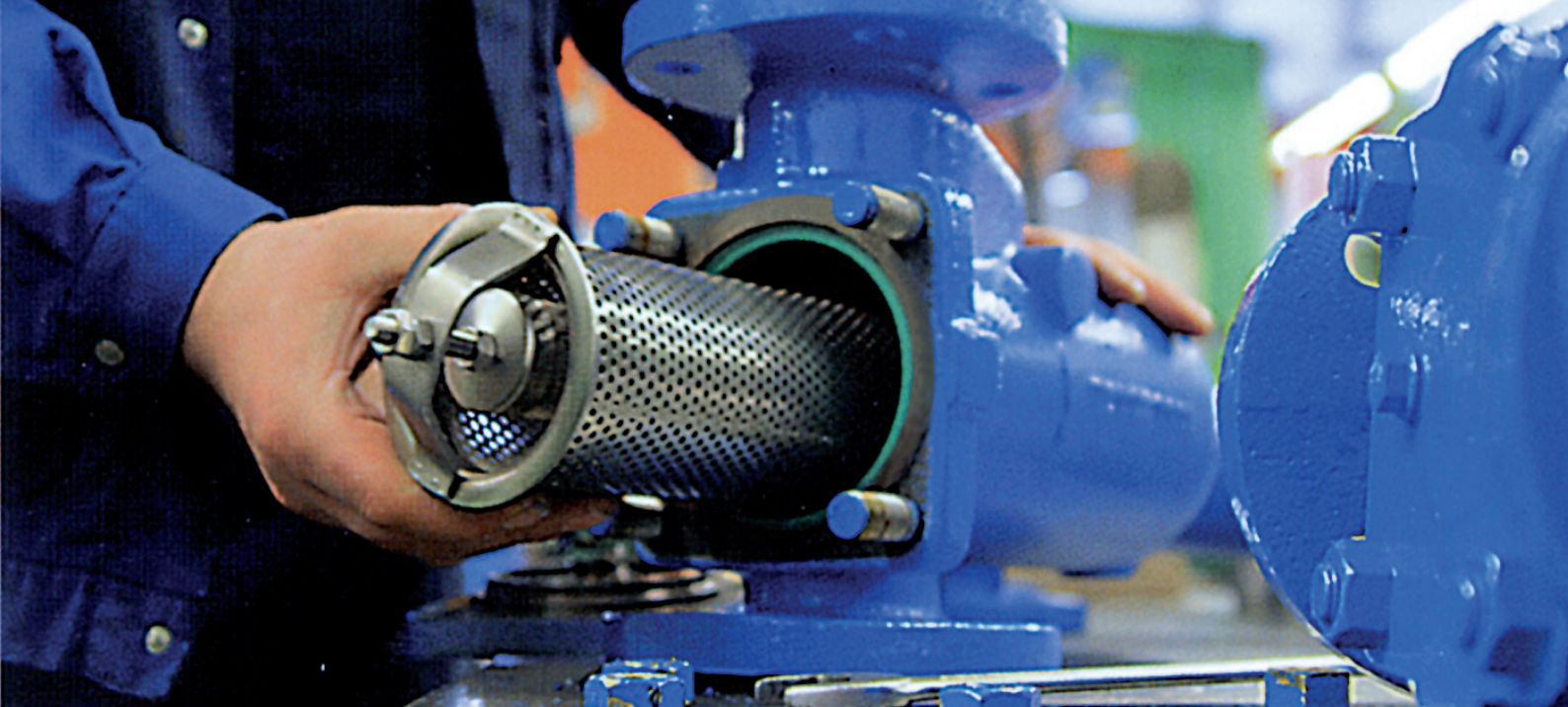
AKO simplex filters

Our simplex filters constitute the initial point of access to the cost-reducing, user-friendly product lines of MAHLE Industrie-filtration GmbH.

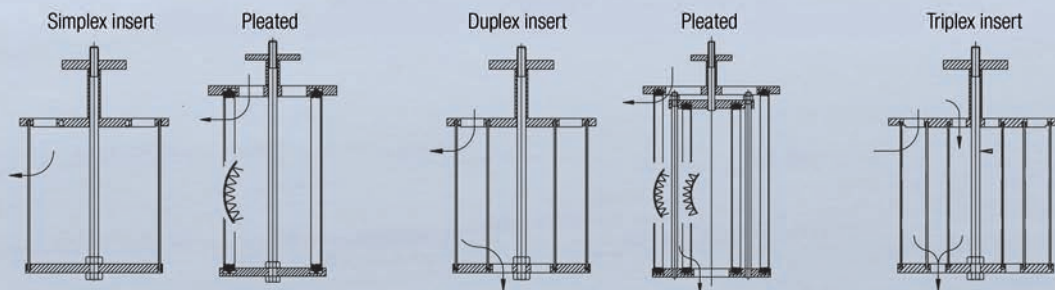


Type series	EG1	EG2	EG3	EG46	ES
Description	Simplex filter with threaded connection	Simplex filter with flanged connection	Simplex filter with flanged connections on one side	Simplex filter welded	Simplex filter special designs according to customer requirements
Connection	G 1/2" to G 2"	DN 20–DN 150	DN 100–DN 250	DN 20–DN 400	DN 20–DN 400
Material	GGG 40	GGG 40	GGG 40	H II steel CrNi steel	H II steel CrNi steel
Operating overpressure	Up to 16 bar	Up to 16 bar	Up to 16 bar	Up to 100 bar	Up to 100 bar
Filter element	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)
Fineness of filtration	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*
Options	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, removable part)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber, special coatings)

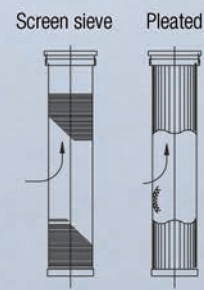
*Other finenesses on request



Standard filter inserts

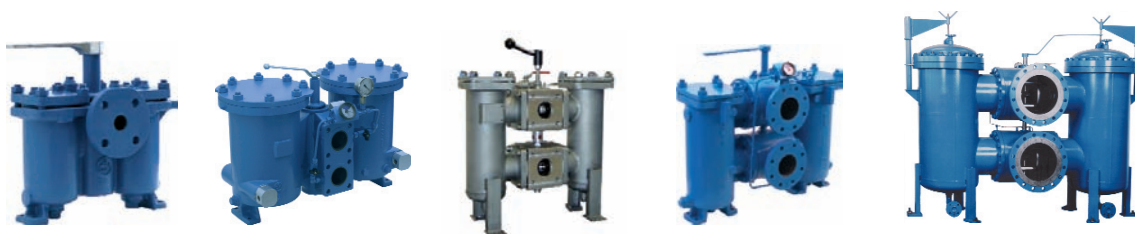


Filter cartridges



AKO duplex filters

Duplex filters enable the continuous filtering of fluids, thereby promoting efficient production processes.



Type series	UG54	UG56	VS87	VS87-1	VS
Description	Duplex filter with stopcock change-over	Change-over indicator filter with stopcock change-over	Duplex filter with valve change-over	Duplex filter with valve change-over	Duplex filter; special designs according to customer requirements
Connection	DN 20–DN 80	DN 32–DN 65	DN 25–DN 80	DN 100–DN 250	DN 20–DN 500
Material	GGG 40 G-CuSn10/12	GGG 40	H II steel CrNi steel	GGG 40	H II steel CrNi steel Special materials
Operating overpressure	Up to 10 bar	Up to 14 bar	Up to 40 bar	Up to 16 bar	Up to 64 bar
Filter element	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)	Screen basket (smooth or pleated)	Screen basket, filter cartridges (smooth or pleated)	Screen basket, filter cartridges (smooth or pleated)
Fineness of filtration	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*	25–5000 µm (absolute)*
Options	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted on filter)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted on filter)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted on filter)	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber) Automatic change-over	Heating (steam/thermal oil, electric) Magnetic elements Differential pressure indicator (optical/electrical, mounted to filter) Internal coating (plastic, rubber, special coatings) Automatic change-over

*Other finenesses on request

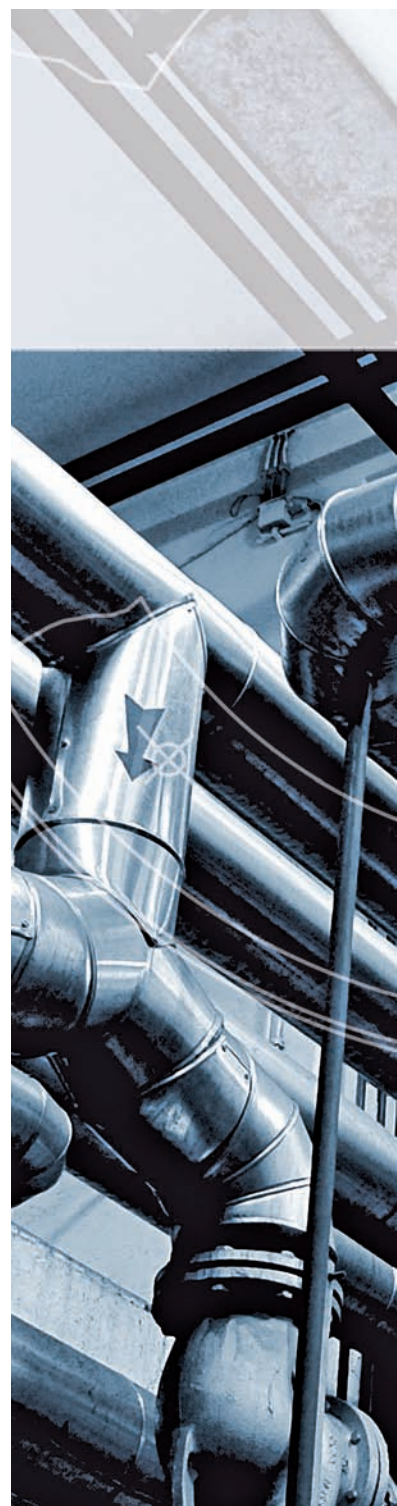
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