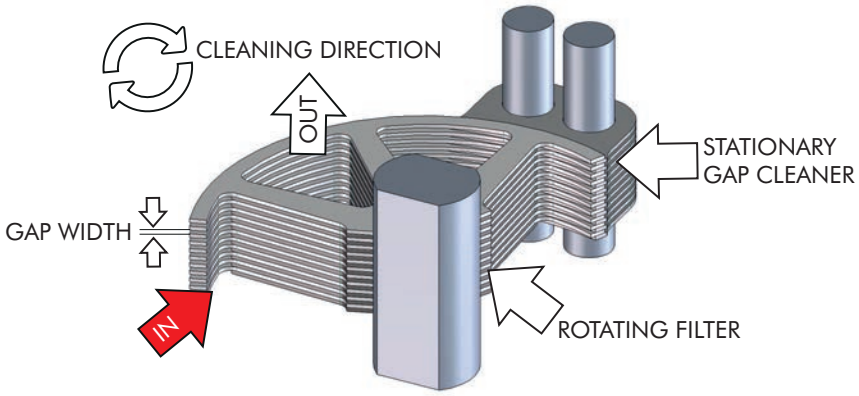
FILTREC®

KM Series

GAP TYPE FILTERS

GAP-TYPE FILTER DESIGN



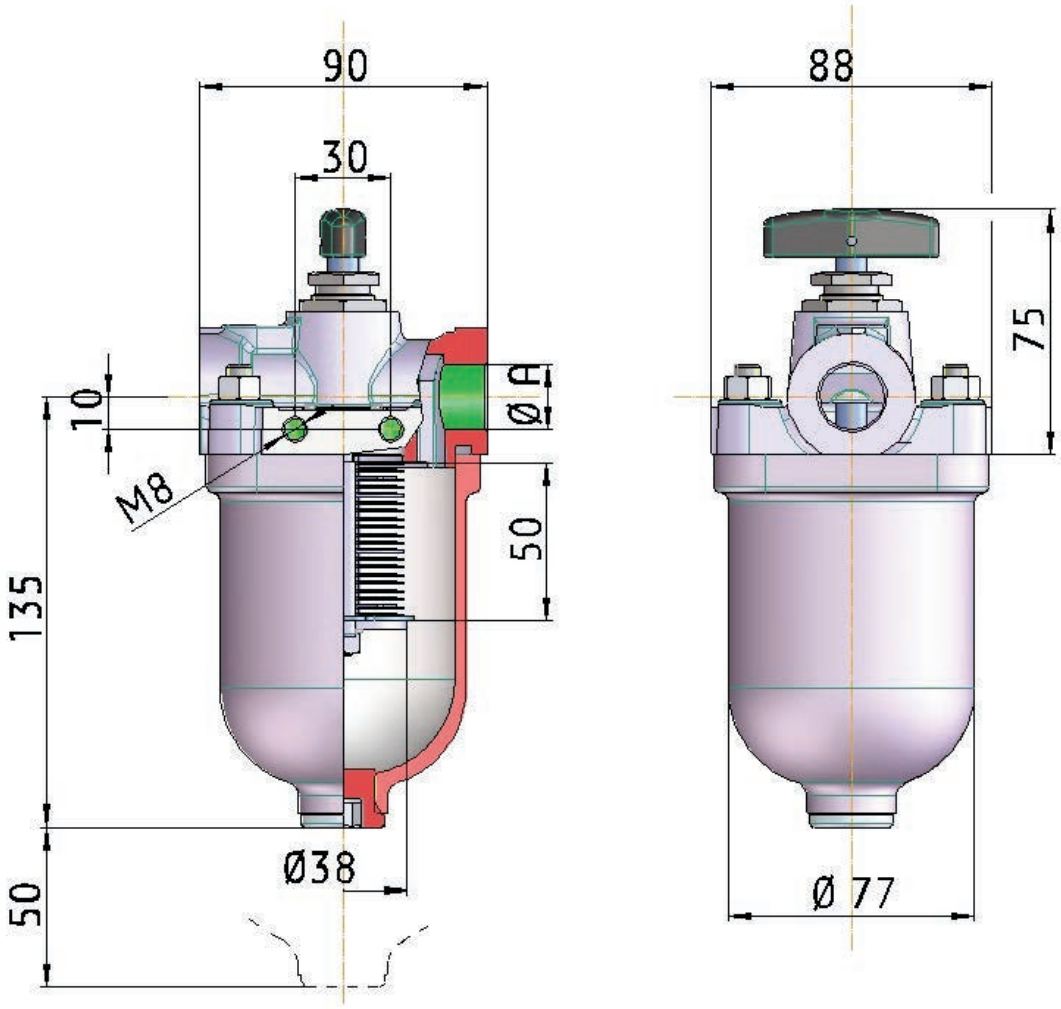
KMGP - Plate gap-type filters (gap widths ≥ 0.1 mm)
Highly viscous fluids

The plate gap-type filter insert consists of ring-shaped steel discs stacked up on a central pin. The gap width between the discs is determined by calibrated spacers.

A stationary gap cleaner runs through each gap. As the liquid flows between the discs, dirt particles in the liquid are deposited on the insert surface. When turning the handle of the filter insert, the dirt particles gather on the row of gap cleaners and sink to the sludge collection chamber.

The sludge is then discharged by opening a ball valve, installed by the customer according to their specific needs.

OVERALL DIMENSIONS

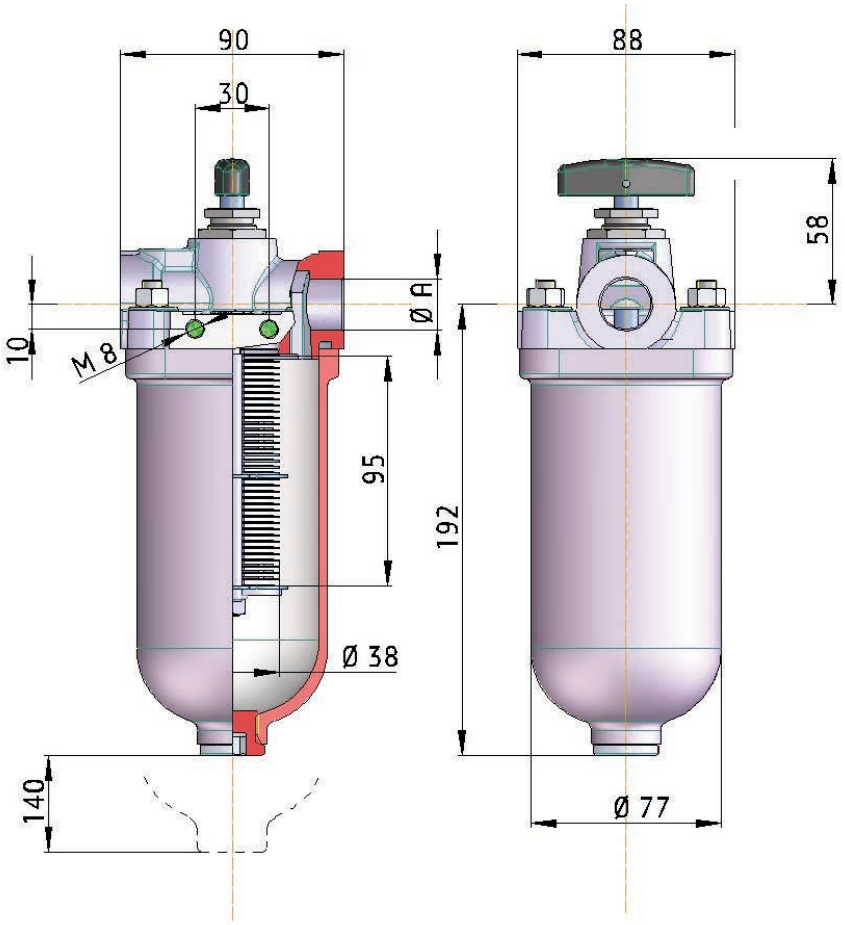


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGP00002	25.001.00002	100	1400	40	120	M22x1.5	gray cast iron	steel	steel	0,3	2,4	painted
KMGP00016	25.001.00028	100	1400	50	120	G 1/2	gray cast iron	steel	steel	0,3	2,4	painted
KMGP00026	25.001.00055	100	1400	50	120	G 3/4	gray cast iron	steel	stainless steel	0,3	2,4	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



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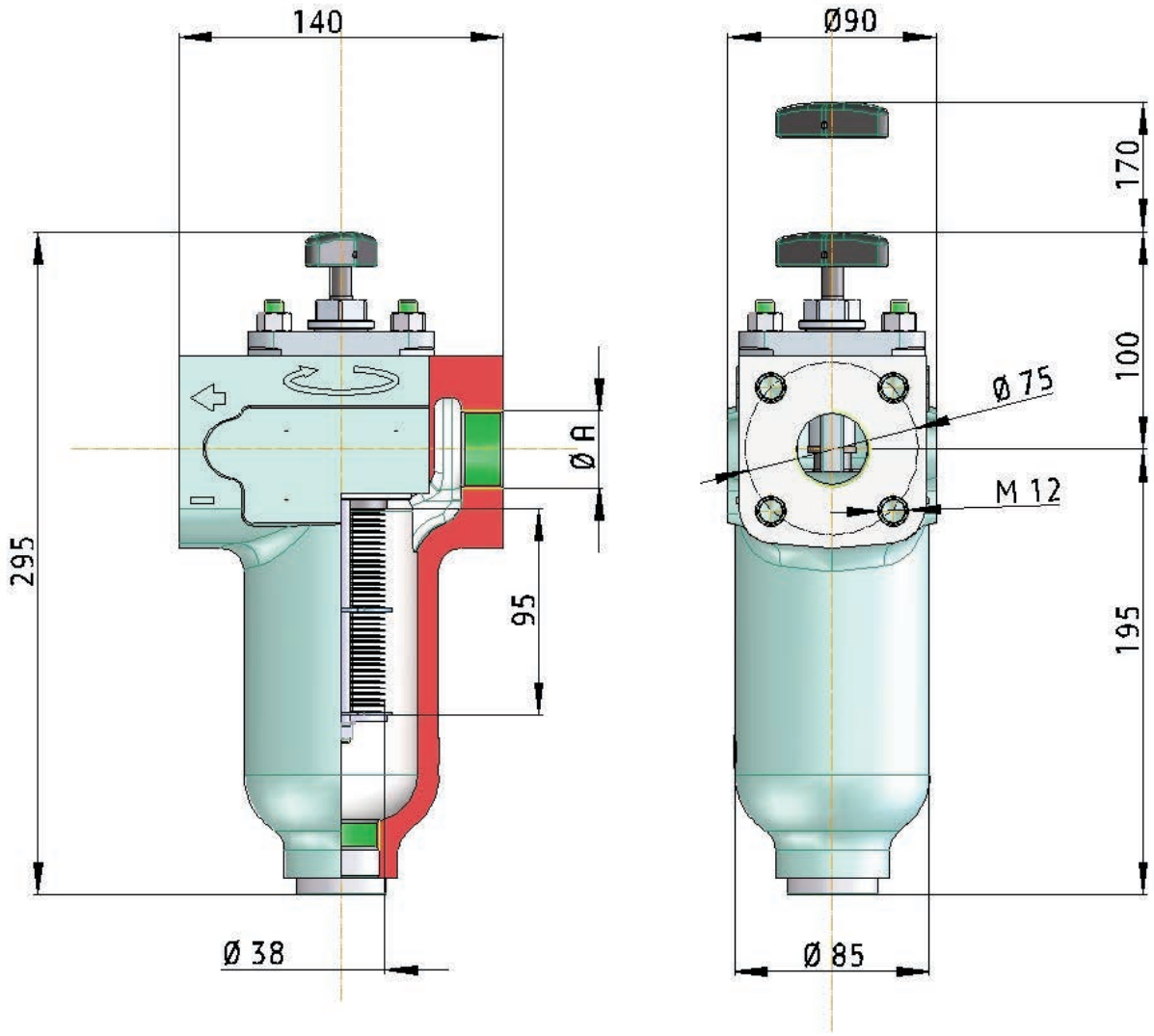
Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGP00014	25.001.00027	100	2600	50	120	G 1/2	gray cast iron	steel	steel	0,5	2,8	painted
KMGP00024	25.001.00056	200	3500	50	120	G 1/2	gray cast iron	steel	steel	0,5	2,8	painted
KMGP00010	25.001.00018	100	2600	50	120	G 3/4	gray cast iron	steel	steel	0,5	2,8	painted
KMGP00013	25.001.00011	200	4500	50	120	G 3/4	gray cast iron	steel	stainless steel	0,5	2,8	painted
KMGP00001	25.001.00001	100	2600	50	120	M22x1,5	gray cast iron	steel	steel	0,5	2,8	painted
KMGP00015	25.001.00030	100	2600	10	120	M22x1,5	gray cast iron	steel	stainless steel	0,5	2,8	Not painted
KMGP00034	25.001.00053	200	4500	50	120	M22x1,5	gray cast iron	steel	steel	0,5	2,8	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

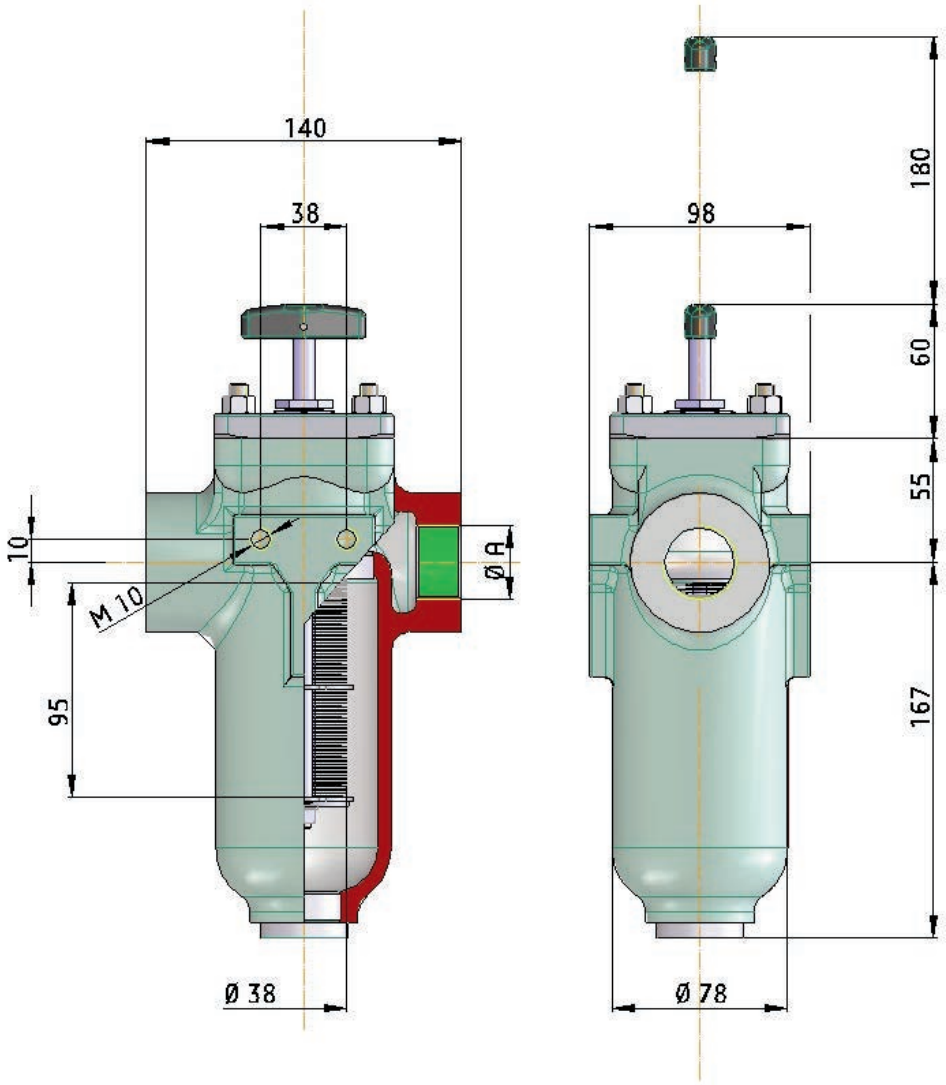


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)
KMGP00031	25.001.00032	100	2600	40	120	G 1	aluminium	aluminium	stainless steel	0,5
KMGP00012	25.001.00005	200	2600	40	120	G 1	aluminium	aluminium	stainless steel	0,5
KMGP00009	25.001.00017	400	5000	40	120	G 1	aluminium	aluminium	stainless steel	0,5
KMGP00008	25.001.00003	800	5000	40	120	G 1	aluminium	aluminium	stainless steel	0,5

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

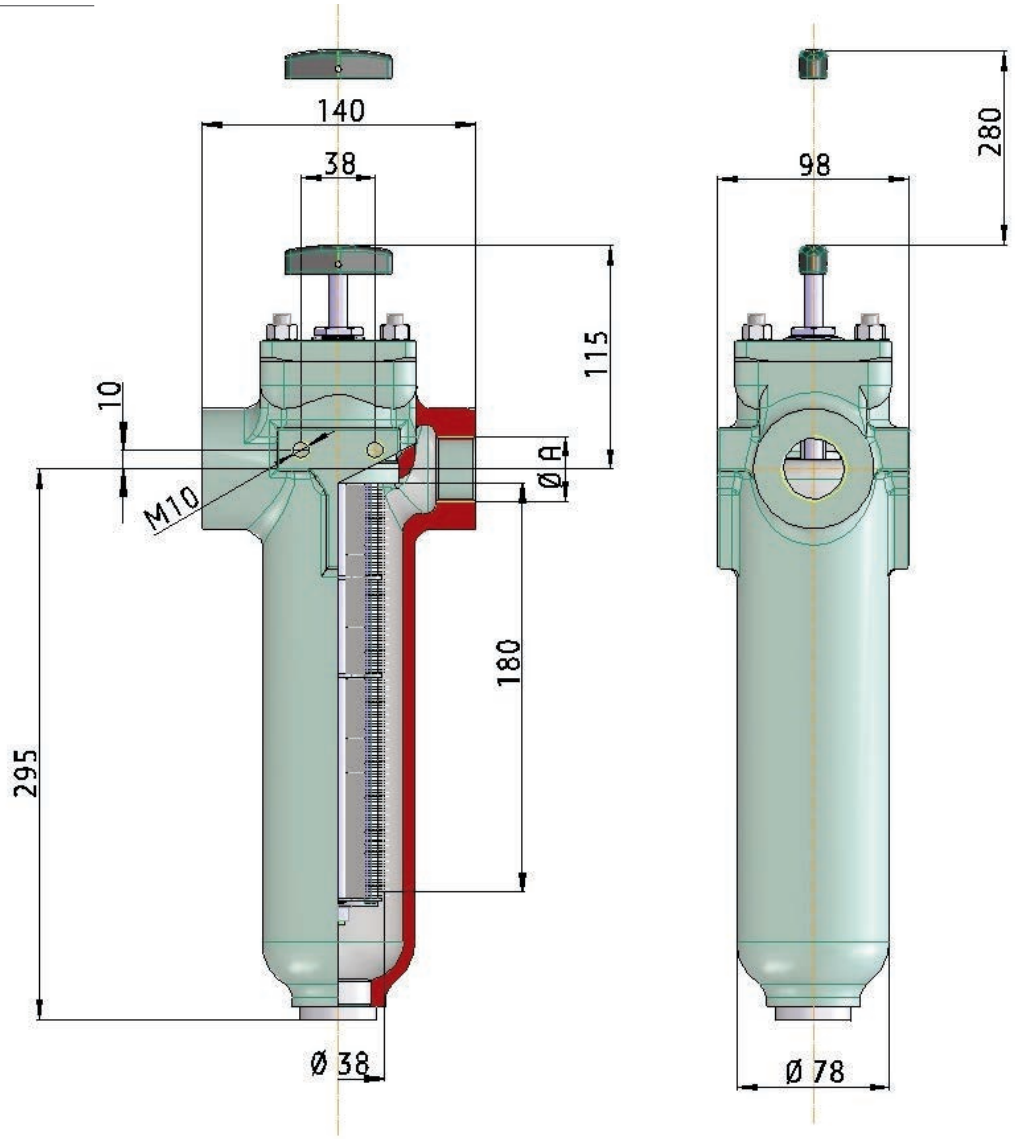


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGP00027	25.001.00036	100	2600	10	120	G 1	gray cast iron	gray cast iron	steel	0,5	6,2	painted
KMGP00003	25.001.00012	200	5000	10	120	G 1	gray cast iron	gray cast iron	steel	0,5	6,2	painted
KMGP00006	25.001.00006	400	5000	10	120	G 1	gray cast iron	gray cast iron	steel	0,5	6,2	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



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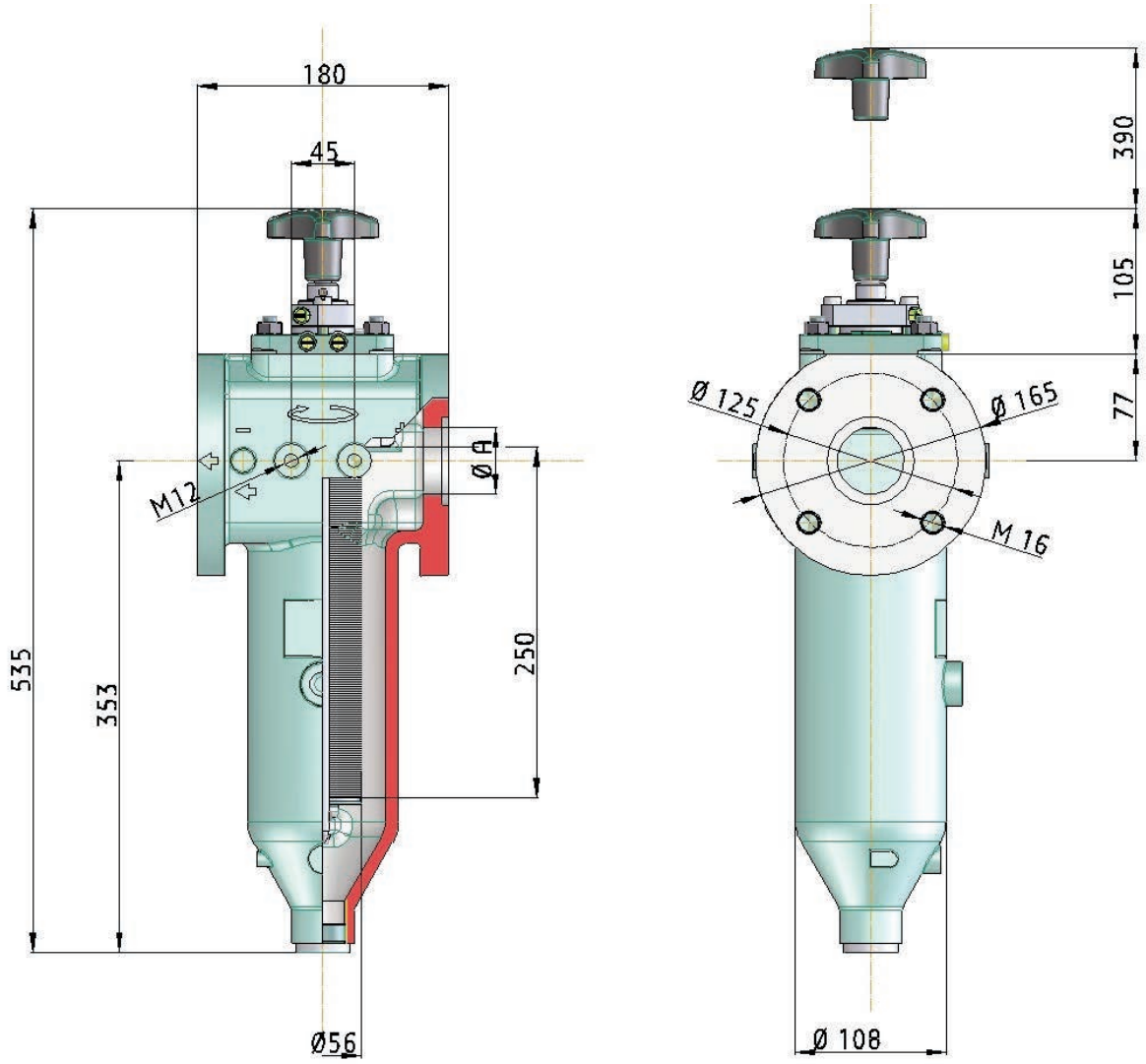
KMGP00017	25.001.00024	100	3000	10	120	G 1	gray cast iron	gray cast iron	steel	1	8	painted
KMGP00019	25.001.00037	200	5000	10	120	G 1	gray cast iron	gray cast iron	steel	1	8	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



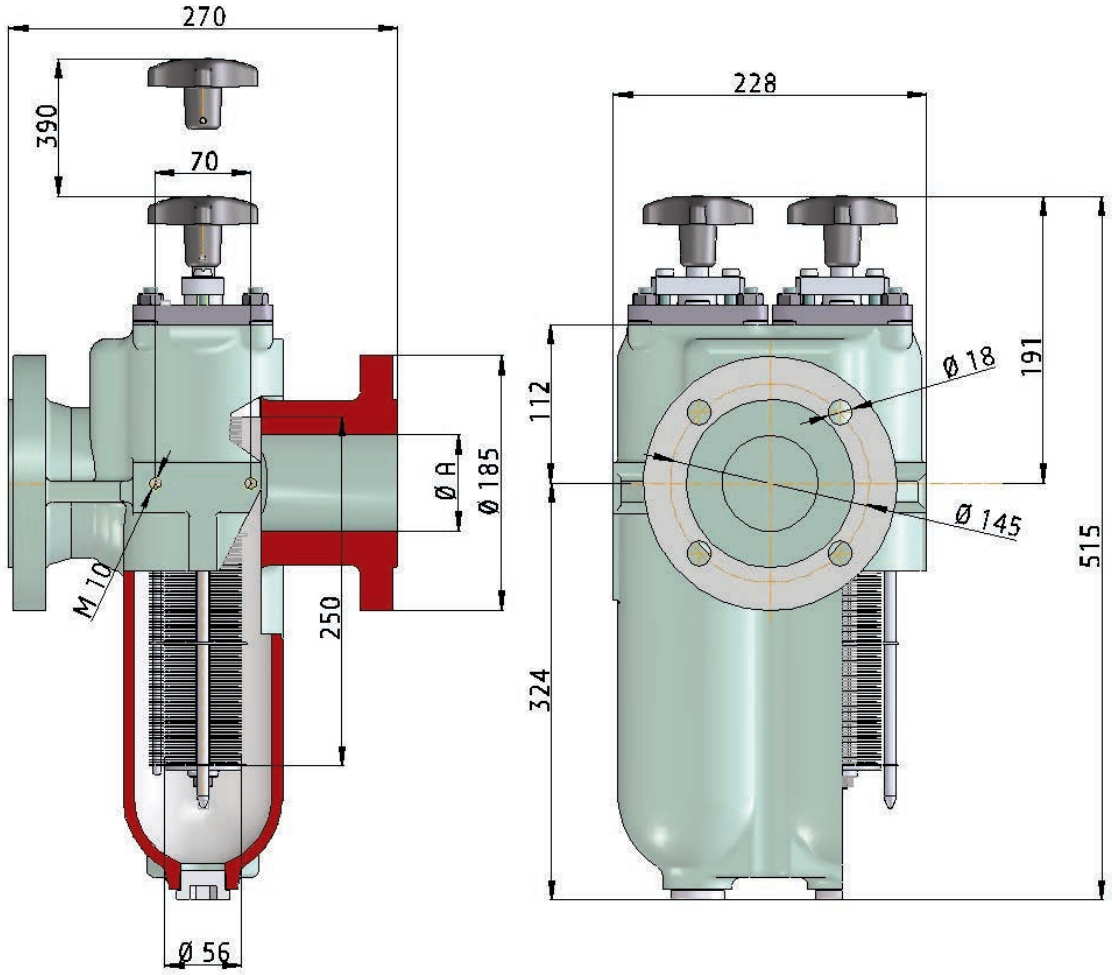
ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)
KMGP00029	25.001.00050	100	15000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	19,5
KMGP00011	25.001.00022	200	15000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	19,5
KMGP00030	25.001.00051	800	15000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	19,5

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

Multiple element filter assembly

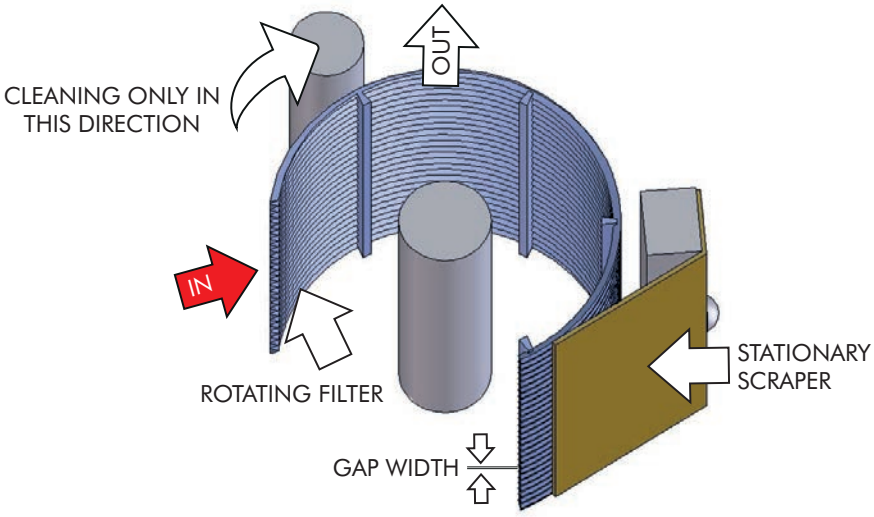


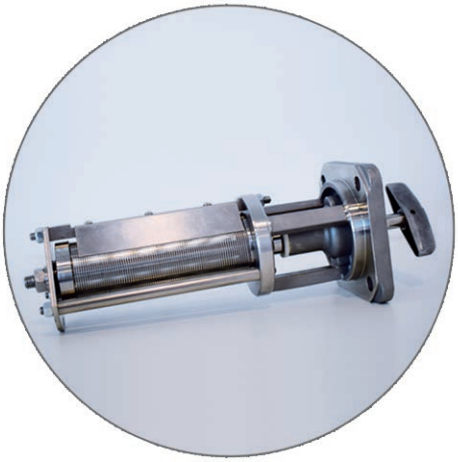
ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGP00022	25.001.00014	200	20000	15	120	DN 65 PN 16	gray cast iron	gray cast iron	steel	4	42	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

GAP-TYPE FILTER DESIGN





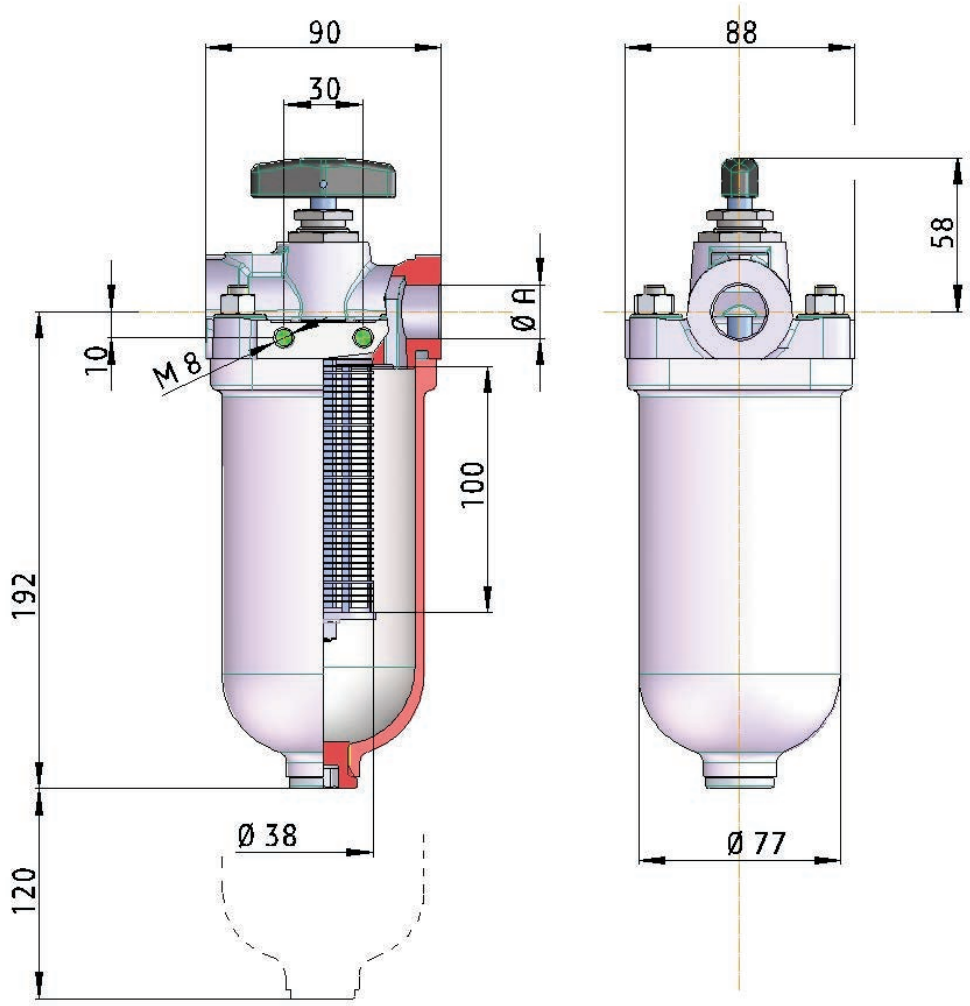
KMGT - Tube gap-type filters (gap widths ≥ 0.05 mm)
Watery and/or aggressive fluids

The tube gap-type filter insert consists of a wire wound around longitudinal rods, welded together at every crossing point.

The longitudinal rods and wire are made of non-rusting, high-tensile steel. The exact position of the steel wire on the longitudinal rods ensures equal gaps. As the liquid flows through the filter insert, the dirt particles are deposited on its surface. When turning the handle of the filter insert, the dirt particles gather on the row of gap cleaners and sink to the sludge collection chamber.

The sludge is then discharged by opening a ball valve, installed by the customer according to their specific needs.

OVERALL DIMENSIONS

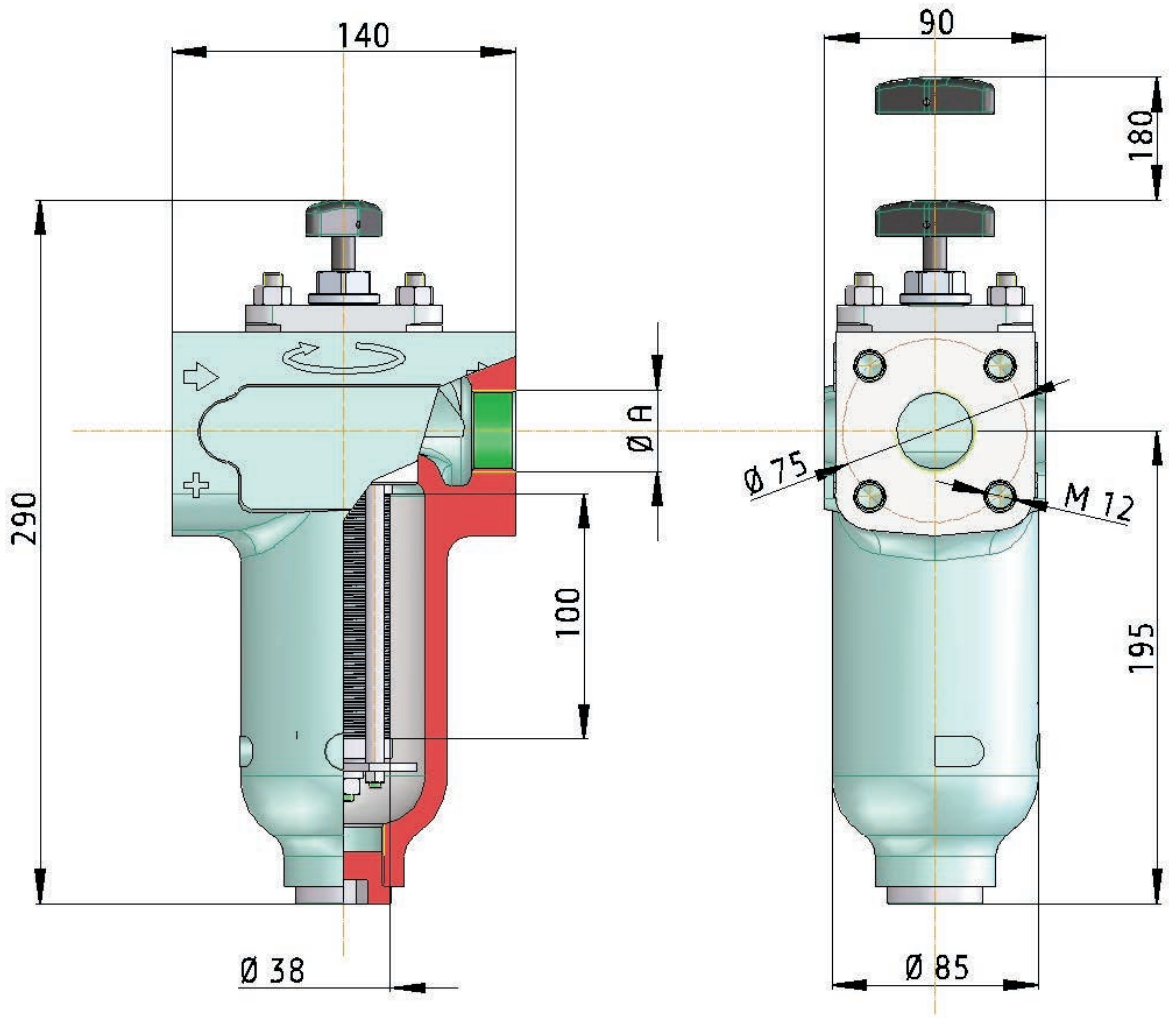


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGT00018	25.003.00031	50	1100	40	120	G 3/4	gray cast iron	steel	stainless steel	0,5	2,2	painted
KMGT00013	25.003.00026	200	3000	40	120	G 3/4	gray cast iron	steel	stainless steel	0,5	2,2	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



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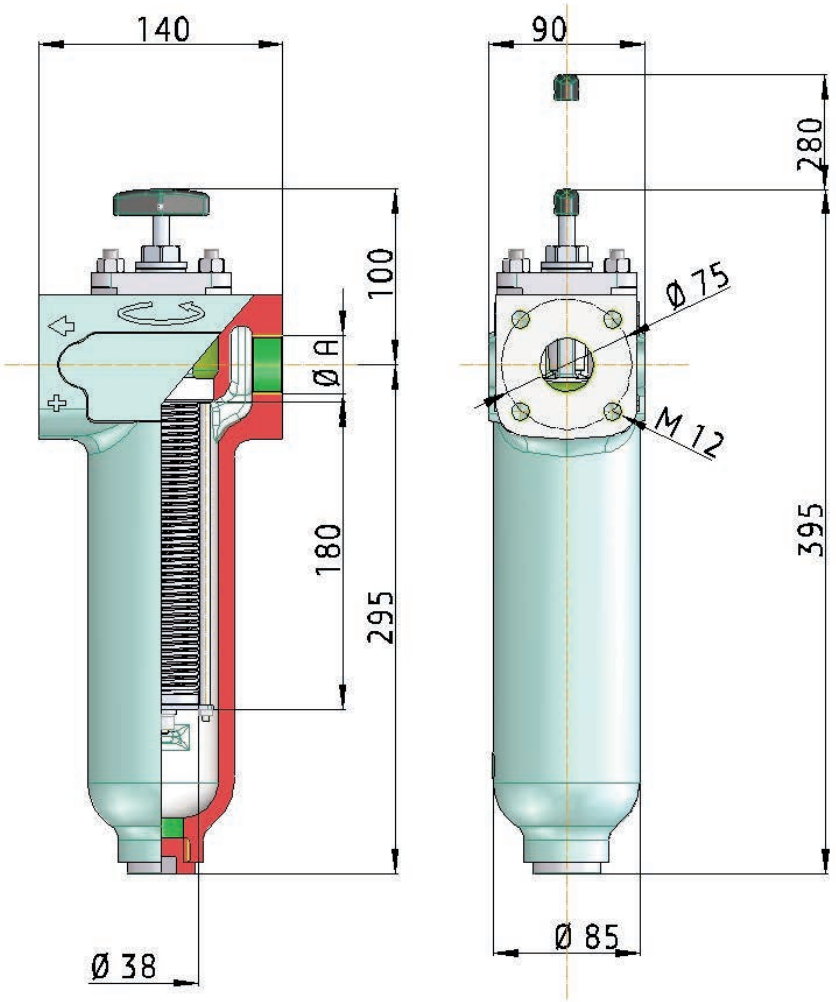
Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)
KMGT00012	25.003.00024	50	1100	40	120	G 1	aluminium	aluminium	stainless steel	0,5	6,2
KMGT00001	25.003.00006	100	3500	40	120	G 1	aluminium	aluminium	stainless steel	0,5	6,2
KMGT00017	25.003.00020	200	5000	40	120	G 1	aluminium	aluminium	stainless steel	0,5	6,2
KMGT00004	25.003.00011	500	5000	40	120	G 1	aluminium	aluminium	stainless steel	0,5	6,2
KMGT00006	25.003.00013	1000	5000	40	120	G 1	aluminium	aluminium	stainless steel	0,5	6,2

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

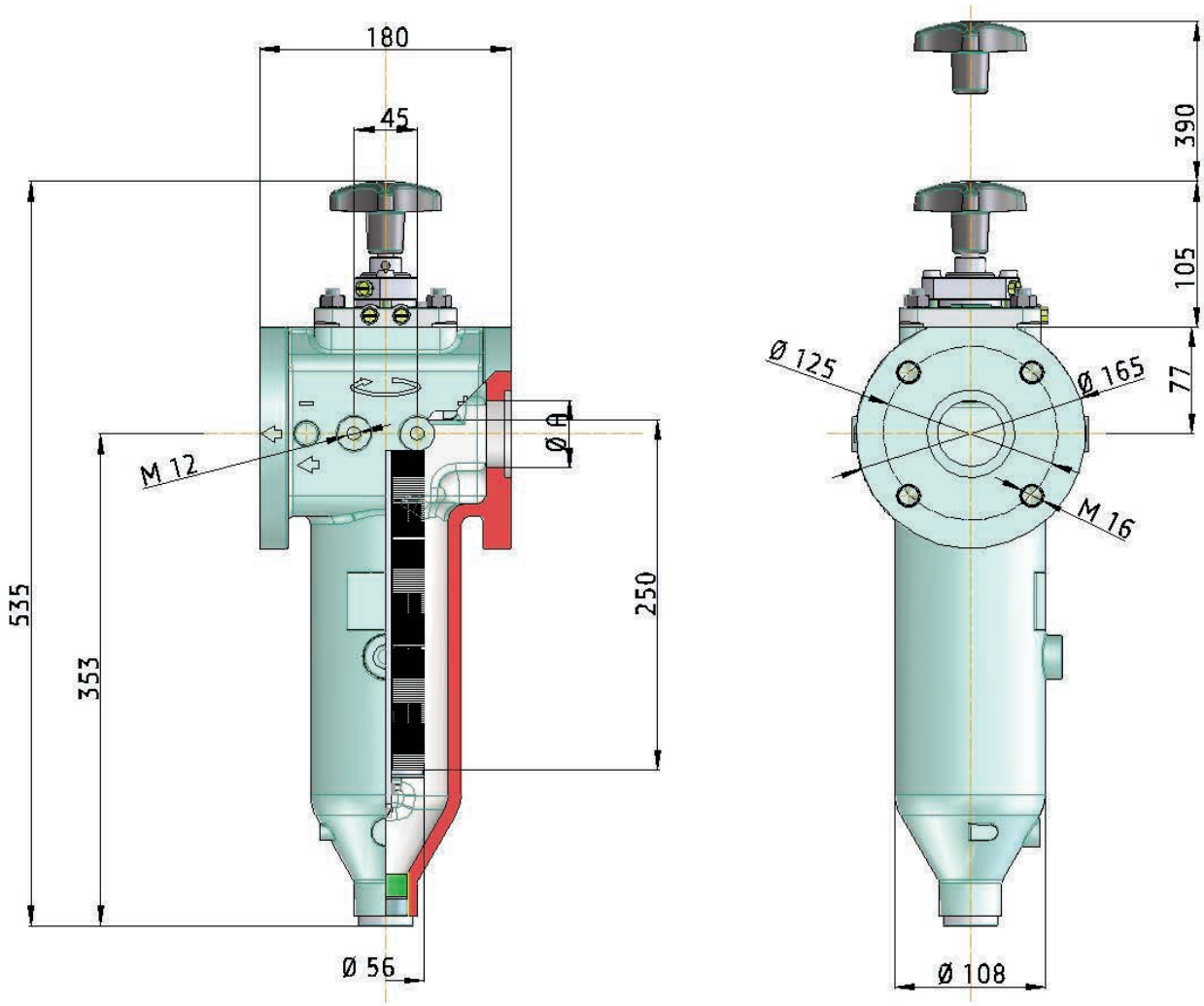


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)
KMGT00015	25.003.00027	200	5000	40	120	G 1	aluminium	aluminium	stainless steel	1	8

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

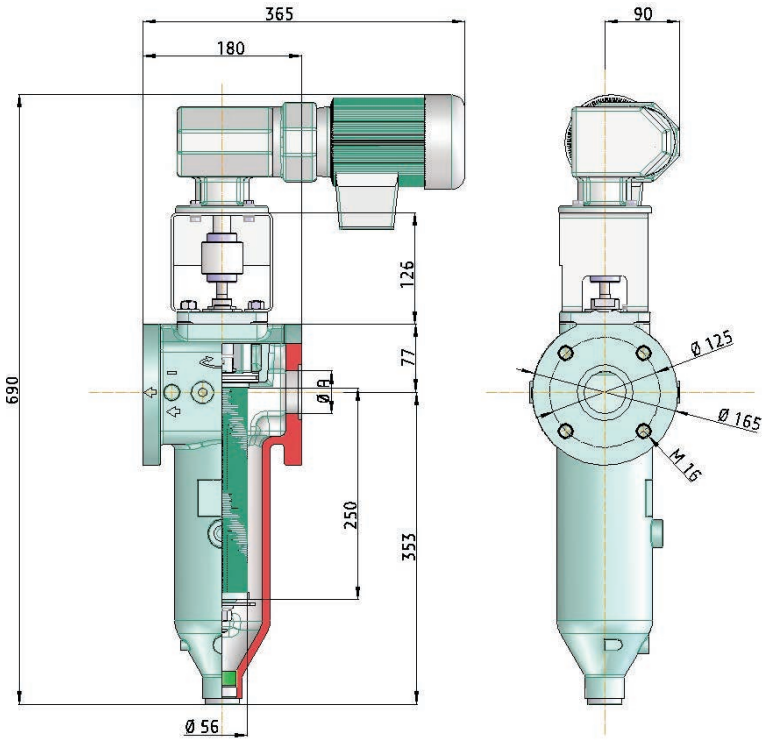


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)
KMGT00011	25.003.00021	50	4000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00014	25.003.00007	100	10000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00021	25.003.00004	150	10000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00005	25.003.00008	200	15000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



GEARMOTOR		
STANDARD EXECUTION		
Voltage	50 Hz	60 Hz
Rated Voltage	230/400 V	266/460V
Rotation	rpm 1,84	rpm 2,21
Power Kw	0,06	
Current absorption	0,55 A	0,33 A
Protection	IP 55	
Insulation class	F	
Painting	RAL 7031	

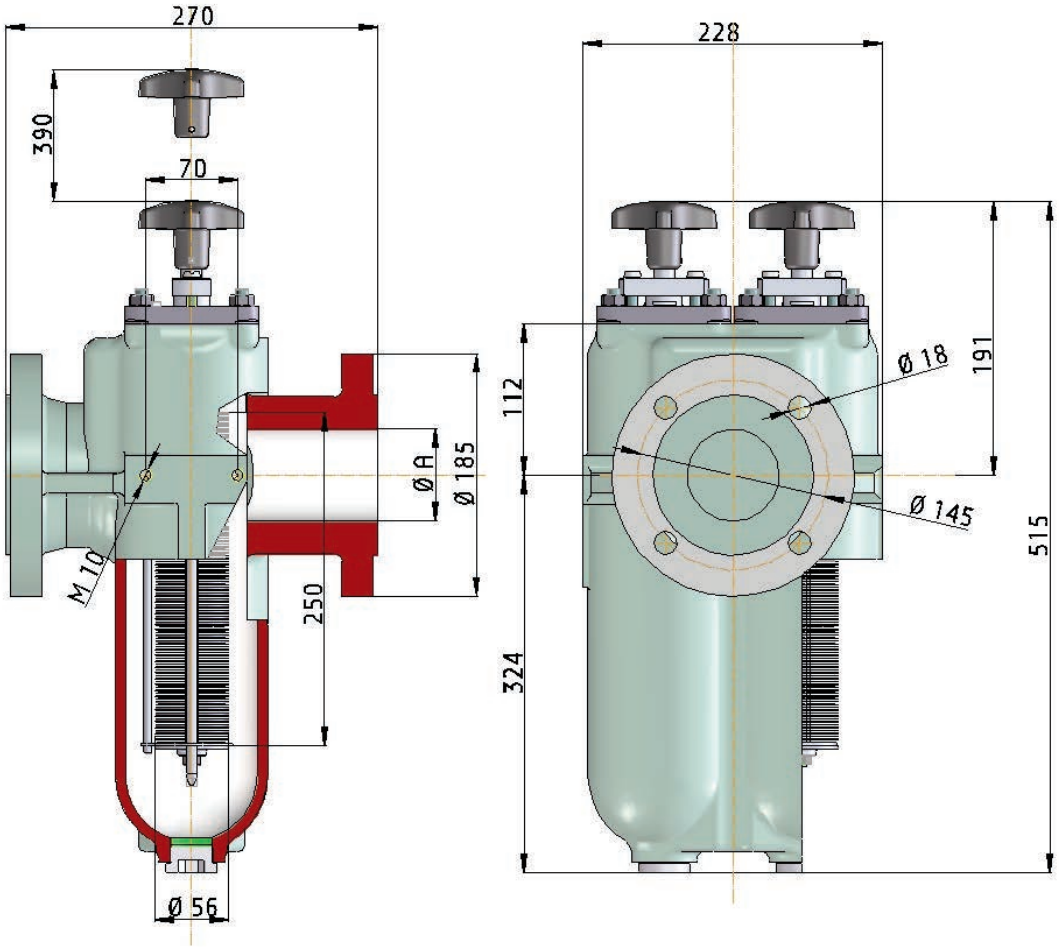
ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)
KMGT00007	25.003.00016	50	4000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00009	25.003.00014	100	13000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00002	25.003.00010	200	15000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGT00022	25.003.00017	500	20000	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

Multiple element filter assembly

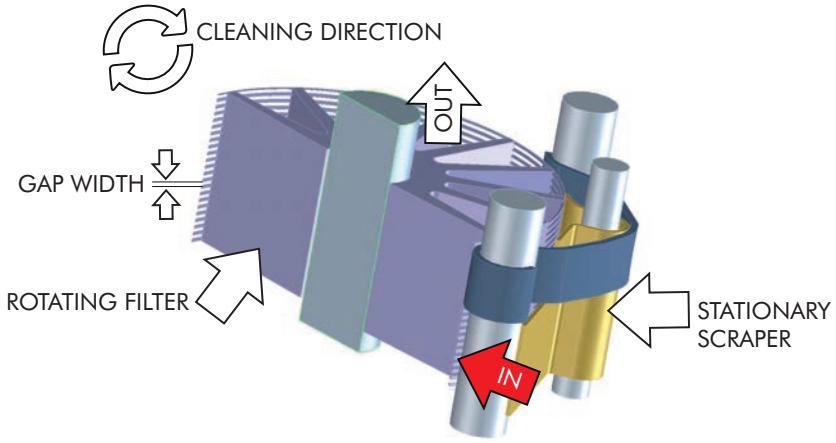


ORDERING INFORMATION

Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGT00023	25.003.00007	100	12000	10	120	DN 50 PN16	gray cast iron	gray cast iron	stainless steel	4	42	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

GAP-TYPE FILTER DESIGN



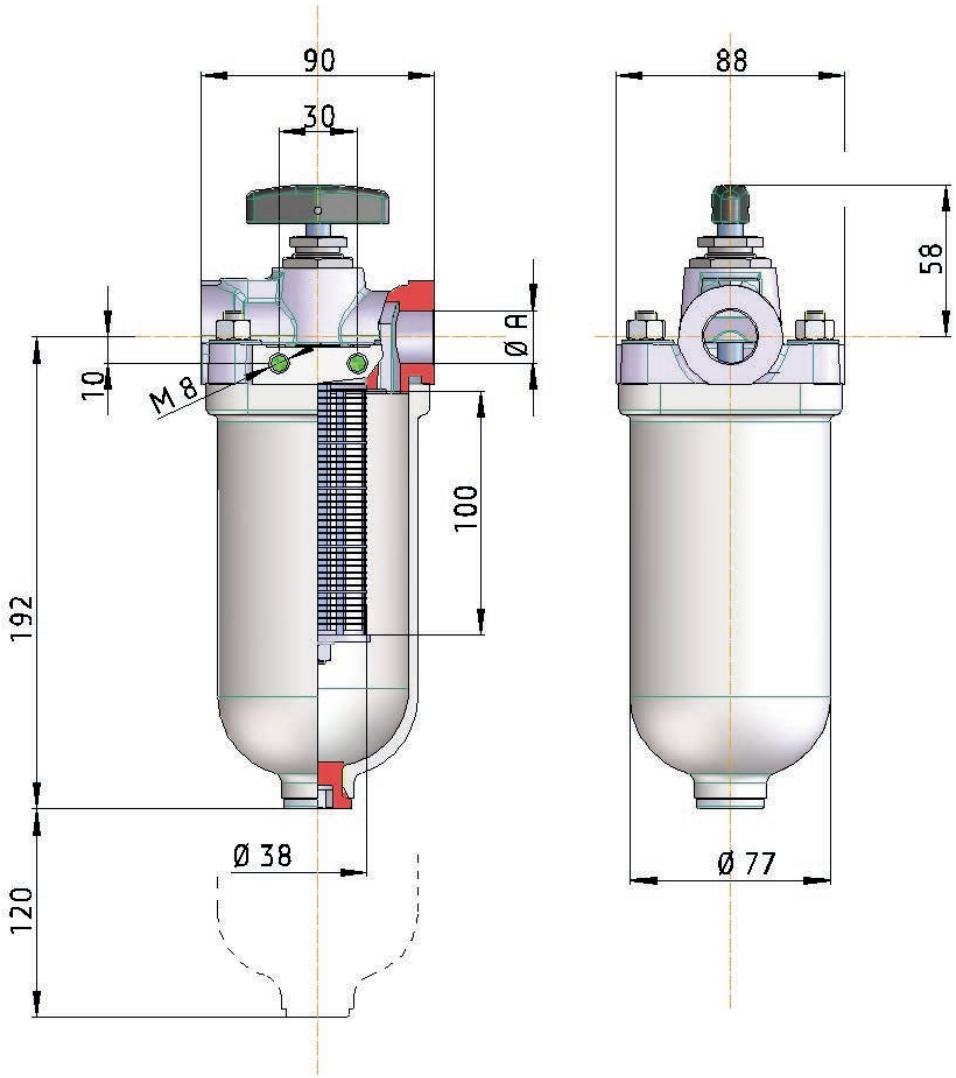
KMGW - Wire gap-type filters (gap widths ≥ 0.03 mm)
Fuels and lubricants

The wire gap-type insert consists of a non-rusting, high-tensile steel wire spiral wound around an aluminium frame. Equal gaps are guaranteed by the exact position of the steel wire on the frame.

As the liquid flows through the insert, dirt particles are deposited on the insert surface. When turning the handle of the filter insert, the dirt particles gather on the row of gap cleaners and sink to the sludge collection chamber.

The sludge is then discharged by opening a ball valve, installed by the customer according to their specific needs.

OVERALL DIMENSIONS



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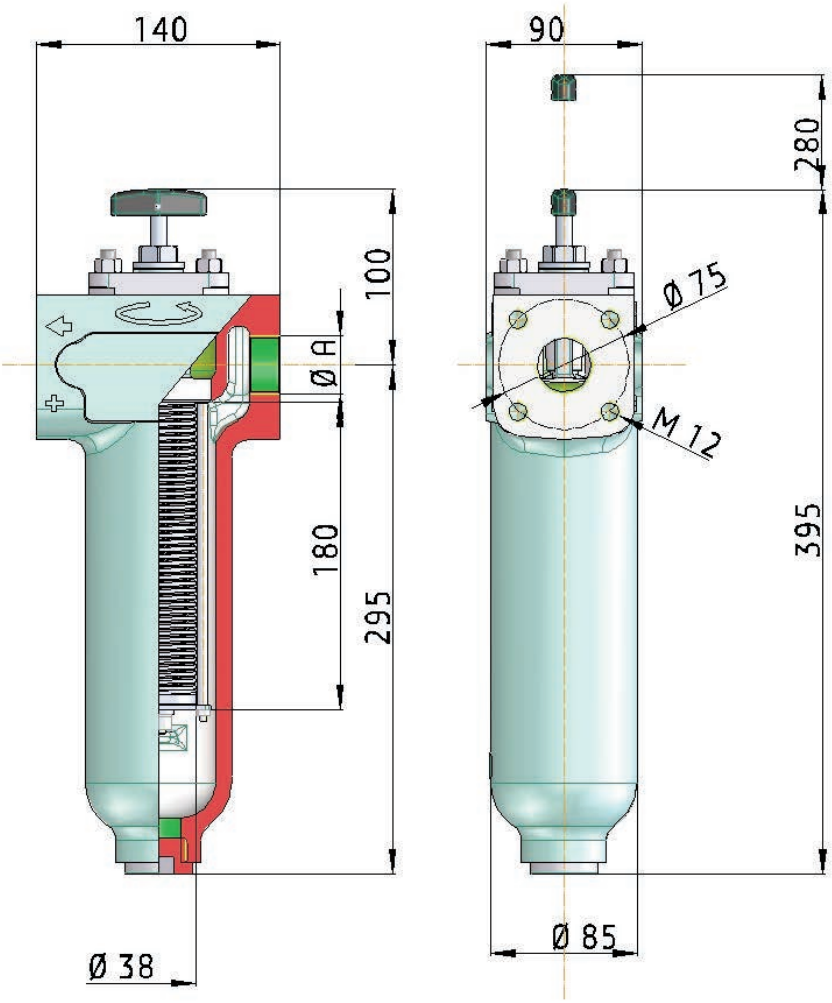
Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGW00007	25.002.00026	30	2100	40 Bar	120°	G 3/4	gray cast iron	steel	stainless steel	0,5	2,2	painted
KMGW00003	25.002.00012	50	3000	40 Bar	120°	G 3/4	gray cast iron	steel	stainless steel	0,5	2,2	painted
KMGW00006	25.002.00024	100	3900	40 Bar	120°	G 3/4	gray cast iron	steel	stainless steel	0,5	2,2	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



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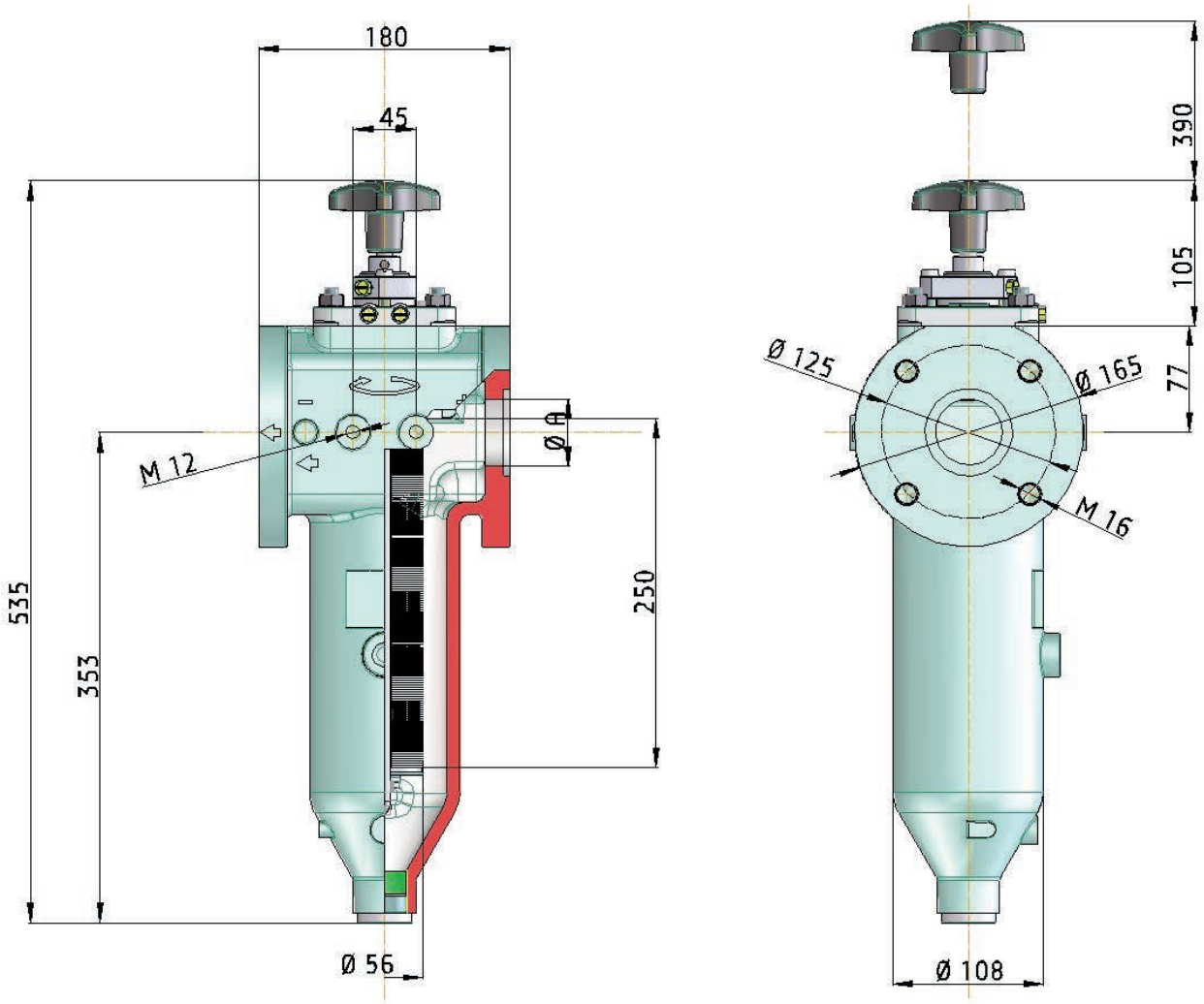
KMGW00008	25.002.00027	30	2100	40	120	G 1	aluminium	aluminium	stainless steel	1	2,2
KMGW00001	25.002.00018	50	3000	40	120	G 1	aluminium	aluminium	stainless steel	1	2,2
KMGW00009	25.002.00032	100	3900	40	120	G 1	aluminium	aluminium	stainless steel	1	2,2

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS



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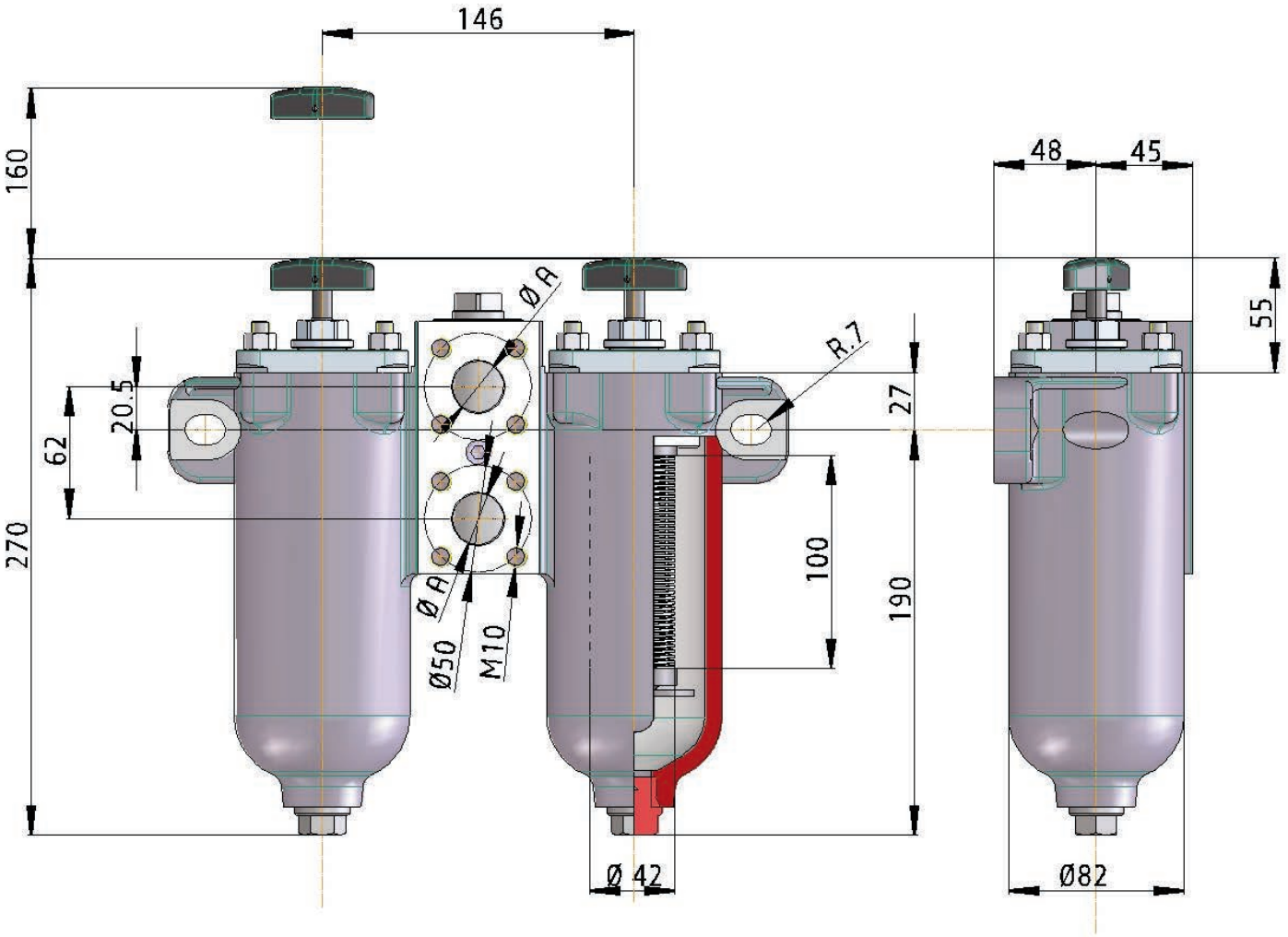
KMGW00012	25.002.00036	30	2800	50	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGW00014	25.002.00029	50	3200	40	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16
KMGW00010	25.002.00033	100	3900	50	120	DN 50 PN 16/40	aluminium	aluminium	stainless steel	2	16

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

OVERALL DIMENSIONS

Duplex filter assembly



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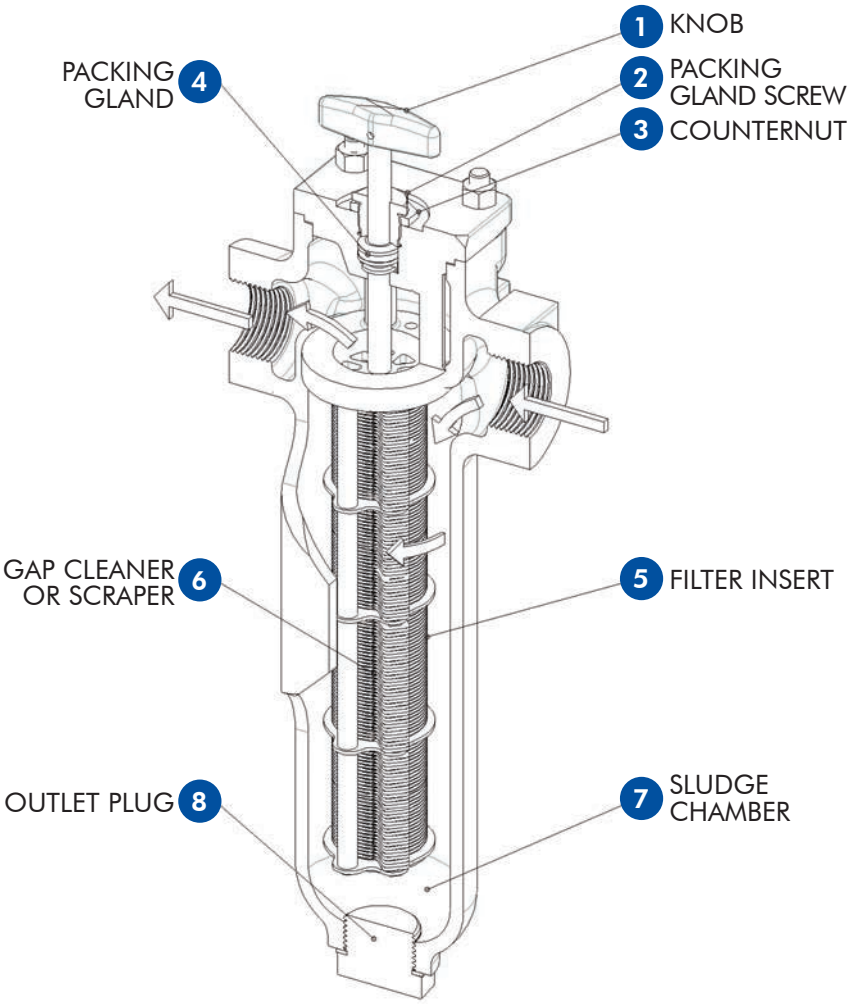
Filtrec filter assembly	Filter insert	Gap width (µm)	Nominal flow rate (l/h) *	Max. operating pressure (bar)	Max. operating temp. (°C)	Port size -A-	Material head	Material Housing	Media pack material	Volume (l)	Weight approx. (kg)	External treatment
KMGW00004	25.002.00019	50	2000	20	120	Ø24	gray cast iron	gray cast iron	stainless steel	2 x 0,5	6,5	painted
KMGW00002	25.002.00014	100	3000	20	120	Ø 24	gray cast iron	gray cast iron	stainless steel	2 x 0,5	6,5	painted

*Max flow rates apply to liquids with a viscosity of 72 (cSt) with Dp of 0,2 to 0,4 bar.

USER TIPS



To service the filter insert (5), turn it by using the knob (1) one or two times. The gap cleaner or scraper (6) removes the contaminant that drops down into the housing's sludge chamber (7).

The contaminant can then be discharged by unscrewing the plug (8).

Cleaning is most effective when servicing is done immediately after the end of operation, so that the scraped contaminant drops down easily into the housing's sludge chamber.

If leaks occur from the packing gland (4), loosen its counternut (3) and gently tighten the packing gland screw (2).

Take care that the knob can rotate easily, as too much tightening can damage the packing gland.

After that, tighten the counternut again Should the filter insert be heavily contaminated, remove it, immerse it in detergent, and wash it out.

If the knob does not rotate, never use excessive force to turn it.

Damaged filter inserts or those that can no longer be turned must be replaced.

FILTREC®

www.filtrec.com

Technical information may change without notice

CT84-rev.03/25