

KAS

Технические характеристики

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KAS

Automatic Gap-type Scraper-Filter

For continuous filtration without process interruption

PN 2,5–40
DN 25–300
ANSI 1–12"

DN 25–50 also
as G1–2"

Applications

The self-cleaning automatic KAS is a versatile self-cleaning, virtually maintenance-free filter for removal of particulate contaminants from highly polluted waters as well as other process fluids. It can separate particles from 50µm to 5 mm.

Characteristics

- Continuous filtration without process interruption
- Also suitable for low flow rates
- Suitable for discontinuous & continuous operation
- Suitable for liquids with high viscosity
- Low flush volumes in the cleaning process without process interruption
- External connections for cleaning support possible (steam or solvents)

Brief description

The scraper filter system consists of a housing, filter element and a scraper. Optionally a geared motor, a filter control, drain valve and differential pressure gauge are also included.

The medium to be cleaned flows through the filter inlet into the housing and passes through the filter insert from outside to inside. The optional electronic control panel (or customer DCS) monitors the pending differential pressure over the filter by means of a differential pressure measuring device. A manual and a timer cleaning option are also available.

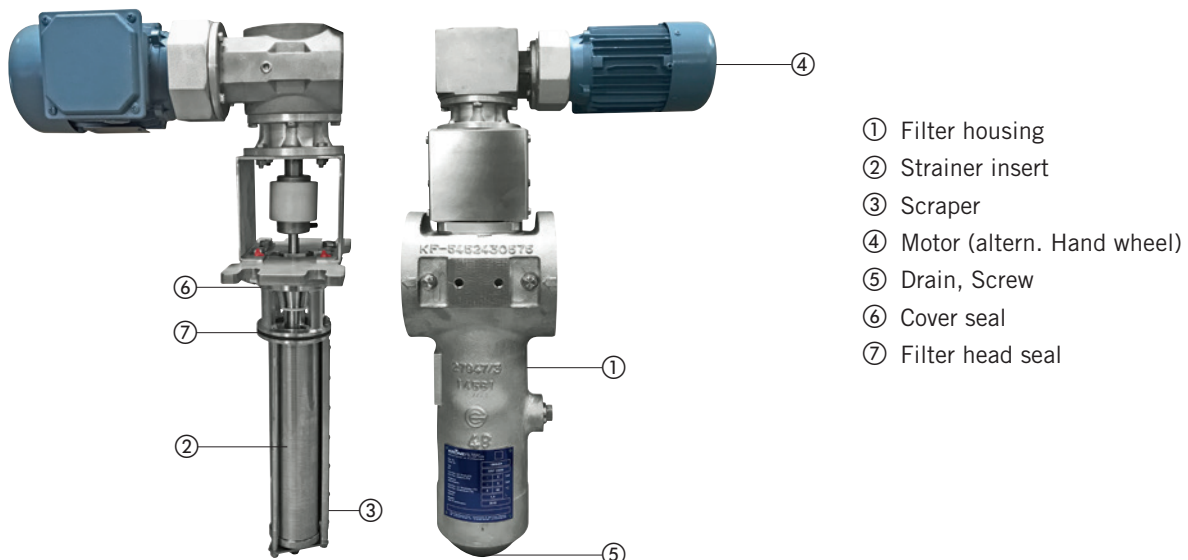
All impurities in the medium that are larger than the gap width are retained on the strainer insert surface. The coarser dirt particles sink into the lower conical part of the housing or form a filter cake on the strainer insert, which is removed by the scraper plate through the rotation of the filter element. The scraping can be done during operation timer based or be continuous. The opening of a purge valve (connected at POS 5) creates a pressure gradient to the working pressure, whereby the retained components are discharged.

Cleaning

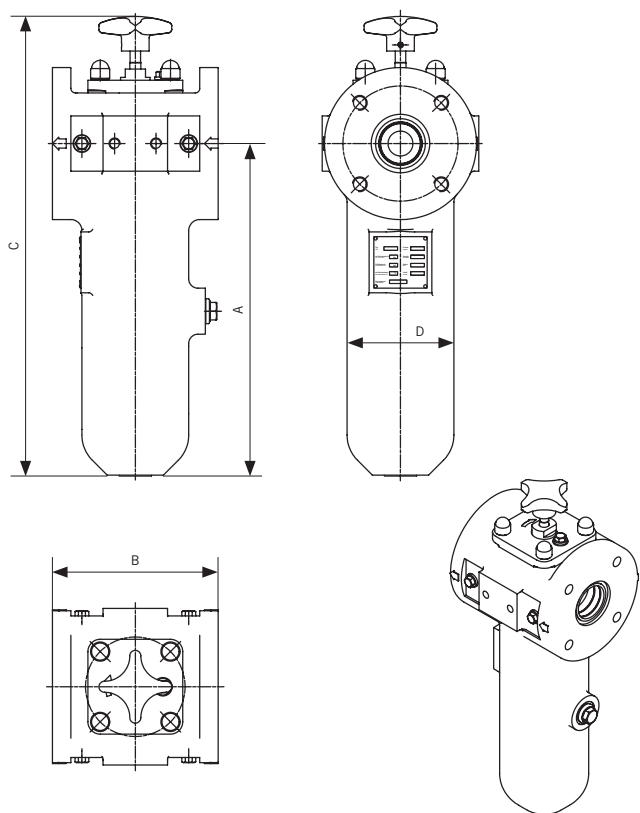
The retained particles form a layer on the screen, which creates a pressure loss. When the previously defined maximum differential pressure is reached, the cleaning process starts by a signal from the control unit or the control room. Depending on the operating conditions, with the control unit the cleaning can also be started manually by pressing a button, or by time control.

By turning the insert by hand or by the geared motor (option), the strainer insert is guided along the tightly fitting scrapers and the filter cake is scraped off. The filter cake sinks down in the housing (depending on the density) and is discharged due to a pressure gradient when the purge valve opens. The valve (optional) on the drain outlet can be opened and closed by a signal from the electronic control panel.

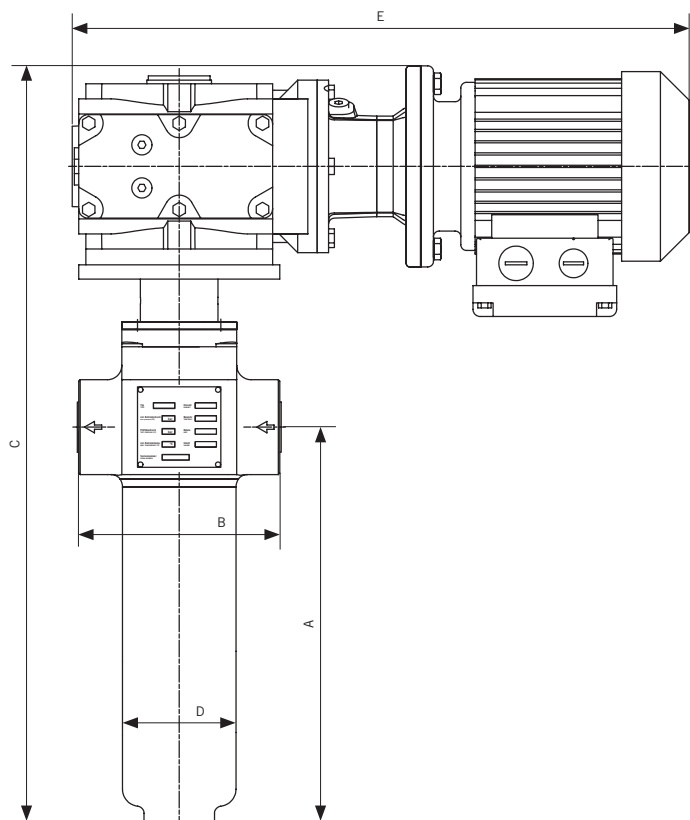
KAS



Technical data and dimensions



Pict. 1 KAS with Hand Wheel (drawing without discharge valve)



Pitc. 2 KAS with Motor (drawing without discharge valve)

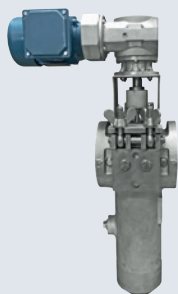
Nom. Diameter	Version	Vessel design pressure	A	B	C	D	E	Max. Flow rate	Volume
		bar	mm	mm	mm	mm	mm	m³/h	L
G1"	Motor	40	161	140	511	79	293	50 µm - 2,0	0,5
								100 µm - 4,5	
								200 µm - 5,0	
G1"	Hand wheel	40	161	140	276	79		50 µm - 2,0	0,5
								100 µm - 4,5	
								200 µm - 5,0	
DN 50/G2"	Motor	40	360	180	611	116	366	50 µm - 5,0	1
								100 µm - 10,0	
								200 µm - 15,0	
DN 50/G2"	Hand wheel	40	360	180	498	116		50 µm - 5,0	1
								100 µm - 10,0	
								200 µm - 15,0	
DN 65–300					On request				

Technical data

Technical data		
	Standard version	Special versions
Filter insert/ filtration degree	0,05–5 mm	–
Filter cover	Cover with hex bolts + nuts	Cover with tommy screws, wing nuts
Venting device	Plug	–
Draining device	Plug	Automatic valves
Connection	EN 1092-1 PN 10/16 or threaded socket G 1–2"	As specified by the customer/ANSI/JIS
Materials		
Housing		
1"	1.4404	1.4571
DN 50/2"	1.4581/1.4404	1.4571
>= DN 65	1.4571	Carbon Steel/Carbon Steel rubber lined
Seals	PTFE/FKM/FEP/VA	On request
Slot wedge wire strainer	1.4404	Super Duplex
Scraper	1.4404	On request
Discharge valve	1.4408	On request
Version		
Gear motor	230/400 V/50 Hz/3 Ph/protection class IP 55	–
Control	Separate/Not mounted with transformer 230/400 V/50 Hz Protection class IP 65, programmable	
Discharge valve	Ball valve, electric, 1.4541	
Surface treatment		
1"	n/a	–
DN 50/2"	n/a	–
>= DN 65	Pickled and passivated	Glass bead blasting

Accessories

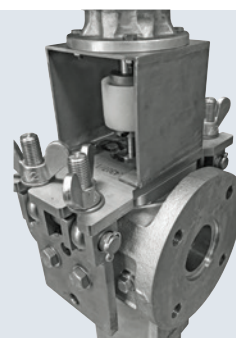
We produce and deliver additional designs and material variants on request.
We solicit your request.



KAS DN 50 special version cover with wing nuts



KAS DN 50 with motor



KAS DN 50 special version cover with wing nuts for fast opening

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