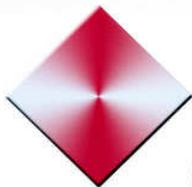


*Filter anything that flows*

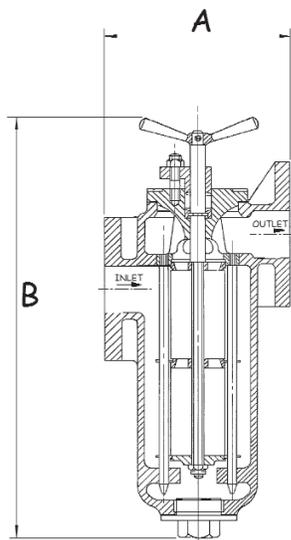


**auto-klean**

filter anything that flows

[www.auto-kleanfiltration.co.uk](http://www.auto-kleanfiltration.co.uk)

# Technical Specification

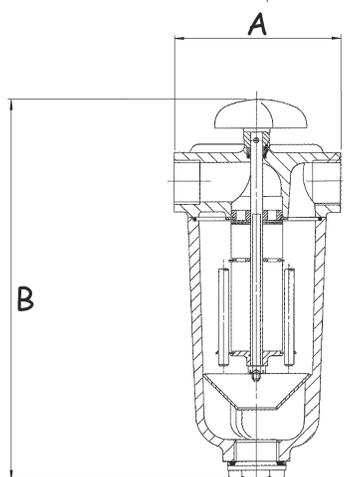


## **Edge Filter** **Standard Product Range**

### **Flanged Units 1" - 3"**

30L • 25L • 20L

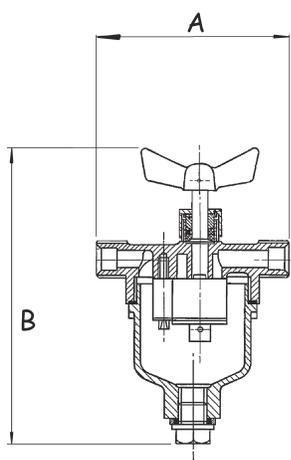
20J • 15J • 10J



### **Threaded Units 1/2" - 1 1/2"**

15KA • 10GA

05E • 05C



### **Compact Threaded Units up to 1/2"**

04AA

04AB



**Larger Capacity, Higher Pressure and Bespoke Units Available on request.**

# Technical Specification

## Overall Dimensions

Model	Inlet/ Outlet Connections	A mm	B mm	Weight kg	Design Pressure Bar G
30L	3" Flanged	330	613	68	5.25
25L	2 1/2" Flanged	330	613	68	5.25
20L	2" Flanged	330	613	68	5.25
20J	2" Flanged	191	388	18	7
15J	1 1/2" Flanged	191	388	18	7
10J	1" Flanged	191	388	18	7
15KA	1 1/2" BSPF	178	522	8.6	7
10GA	1" BSPF	127	284	2.5	8.8
05E	1/2" BSPF	89	193	1.13	8.8
05C	1/2" BSPF	89	182	0.9	8.8
04AA	3/8" BSPM	89	162	0.9	2

Detailed Data Sheets Available on Request

## Material Options

Body & Cover: Cast Iron, Cast Stainless Steel, Aluminium, Brass, Gunmetal  
Internals: Brass & Steel, Stainless Steel, Monel

## Capacities in Litres / Minute

Mesh microns	Water & Aqueous		Viscosity in Centistokes							
	125	250	60	60	122	122	245	245	495	495
MODEL	75	125	75	125	75	125	75	125	75	125
20L, 25L, 30L	300	383	152	227	92	158	58	95	27	50
15KA	218	239	131	148	83	95	48	65	23	35
10J, 15J, 20J	165	169	114	129	72	91	38	57	20	30
10GA	53	60	28	34	22	25	12	17	6.5	9.5
05E	30	50	11	12	7.6	9.5	4.2	6.5	2.1	3.4
05C	11	15	2.7	6.5	1.5	3.8	0.8	2.5	0.4	1.3
04AA	3.8	5	1.1	2.3	0.8	1.6	0.4	1.0	0.2	0.5

(Sizes and flow rates approximate)

For further technical details or information on our other products contact our sales engineer on 0870 421 4206 or visit our web site [www.auto-kleanfiltration.co.uk](http://www.auto-kleanfiltration.co.uk)

# Advantages & Applications

## The auto-lean Advantages

- ◆ Self-cleaning whilst in service – no interruption of liquid flow
  - ◆ Simply cleaned by the turn of a handle – motor or manually operated.
  - ◆ Finest positive full flow filtration – filters all the liquid all the time
    - ◆ Particularly suitable for applications in hostile environments.
    - ◆ Saves space and weight – large capacities to relative size
    - ◆ No fire risk – filter is cleaned without dismantling
    - ◆ Low pressure loss – maintains optimum flow
    - ◆ Lowest overall cost – no costly element renewals
    - ◆ Long life – lasts the life of the engine or plant
    - ◆ Longer service periods between maintenance.
    - ◆ No messy filters to change

Triple Expansion Steam Engine at Kempton Park WW. Auto-lean filter still in operation after 60 years.



## Full Refurbishment Programme Available For Existing Strainers

### Typical Applications

#### Oils

Lubricating  
Heavy Fuel  
Diesel & Petrol  
Hydraulic  
Cooking  
Transformer  
Cutting

#### Water

Cooling  
Process  
Steam  
Effluent

#### Anything That Flows

#### Other Liquids

Solvents  
Inks & Paints  
Acids  
Honey

Beer & Beverages  
Adhesives  
Clay Slip  
Food Products.



### Typical Industries

Chemical  
Marine  
Petro-chemical  
Steel & Metal Manufacturing  
Vehicles & Mobile Equipment

Oil Fired Plant  
Power Generating  
Water Treatment  
Food Manufacture  
Hydraulic Plant

Military  
Mining & Quarrying  
Brewing & Beverages  
Paints & Ink  
Effluent Treatment



# Operation Principle

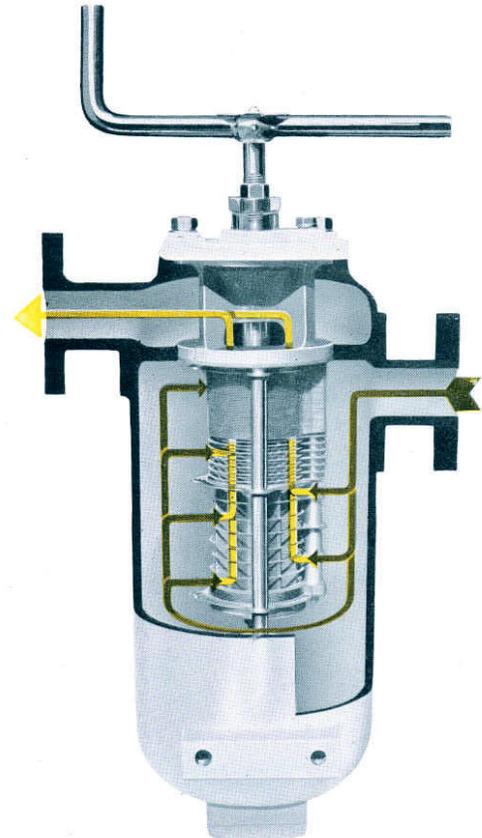
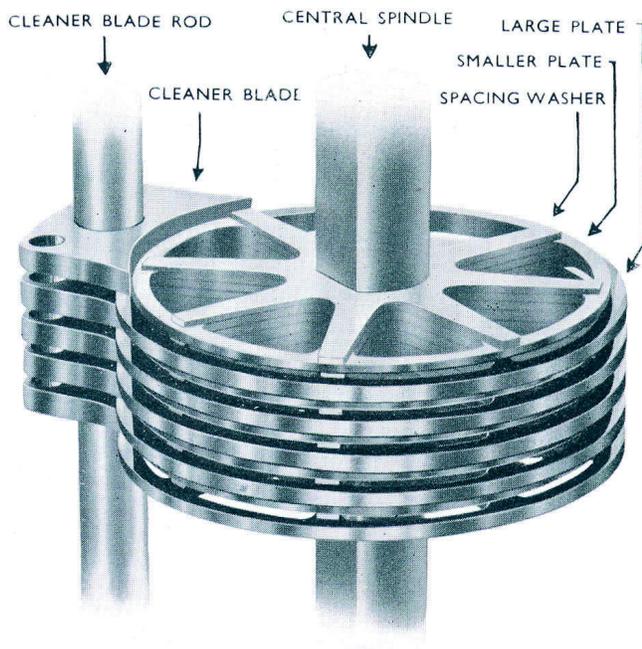
For almost a century, **auto-klean**, a British company, has been at the forefront of design and development of filter engineering, providing solutions for almost every need.

The vast range of fluids handled range from water to highly viscous resins, from liquified gases to high temperature steam and from liquids under vacuum conditions to high pressure hydraulic oils.

auto-klean manufacture a complete range of filters designed to protect engineering plant by the continuous removal of harmful or unwanted solids from fluids. The outstanding feature of most of these filters is that they are self-cleaning whilst in service, either by mechanical operation, or manually by the turn of a handle.

## Operation Principle

Filtration down to 25 microns is effected by passing the fluid through a series of narrow slots in the wall of a cylindrical element. The slots are created by a series of discs separated by spacing washers. The thickness of these washers determines the size of the slot and therefore the level of filtration. A cleaning blade mounted on a fixed shaft projects into each slot.



The liquid flows from outside to inside the element and as it passes through the narrow slots any solids are captured on the edge of the plates and accumulate round the wall of the element.

Cleaning of the element can be undertaken whilst the filter is still in service. All that is required is to rotate the handle on top of the filter. This rotates the shaft on which the discs are mounted against the fixed shaft on which are the cleaning blades. Any solids which have accumulated on the discs are removed by the cleaning blades and are discharged into the filter sump.

Rotation can be effected manually or by an electric, hydraulic or pneumatic motor. Cleaning can be activated by differential pressure or timer.

The sump is easily accessible and solids can be removed through a drain plug or valve.

# Other Products



*Complete Turnkey Packages*



*Duplex Strainers*



*Simplex Strainers*



*Y - Type Strainers*



*Automatic self cleaning backwash filters for water applications 4" - 30" line sizes*



*Cartridge Filters*

## **auto-klean filtration**

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