

DESCRIPTION auto-klean® 10HCP self-cleaning filters are of all-metal plate-type construction and operate on the edge-filtration principle. The filters are cleaned without interrupting the flow of liquid by one complete turn of the handle attached to the element spindle. This action deposits all the solids accumulated around the element into the filter sump. A magnetic insert can be incorporated in the sump drain plug to give additional protection against ferrous particles.

APPLICATIONS All grades of oils and distillates, water, chemicals, beverages, food products, paints, resins greases, pulp and industrial liquids of every kind.

ELEMENTS

Diameter	38mm (1½")
Length	133.5mm (5¼") nett.
Mesh	.025mm (.001") .038mm (.0015") .076mm (.003") .127mm (.005") .203mm (.008") .254mm (.010") .381mm (.015") .508mm (.020")

CONNECTIONS 1" B.S.P. parallel thread. Can be supplied with 1¼ B.S.P. to special order

PRESSURE

Maximum Working	35.16 Kg/cm ² (500 lb/in ²)
Test	52.74 Kg/cm ² (750 lb/in ²)

MATERIALS

For oil	Cover & Sump Internals	Cast Iron Mild Steel & Brass
For water	Cover & Sump Internals	Cast Iron, both rust protected Non-ferrous and Stainless steel

SUMP CAPACITY Approximately 278.8cm³ (17in³)

WEIGHT 10 Kg (22lb)

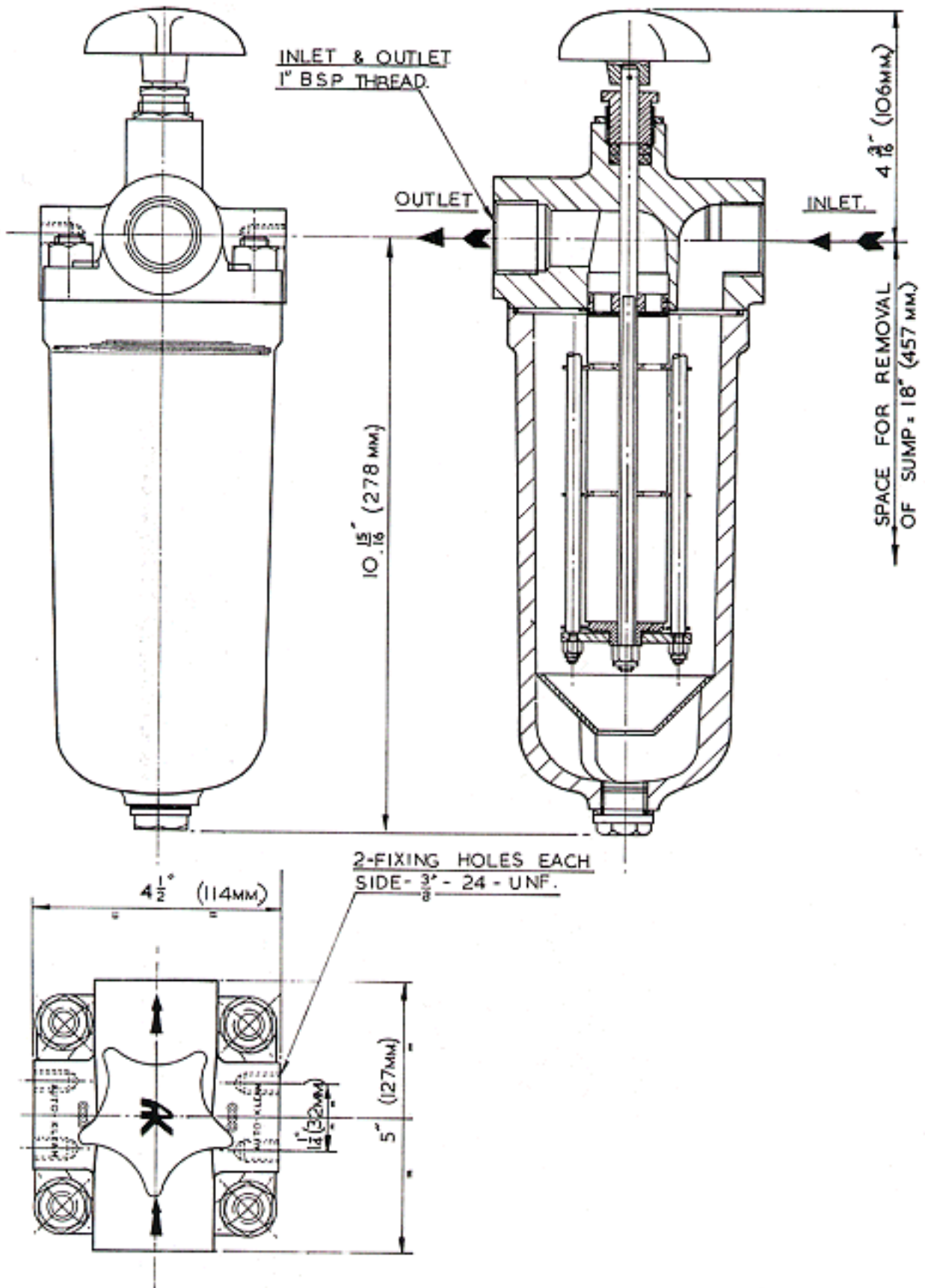
DIMENSIONS See drawing on page 2

FLOW RATES The flow rates listed below cover only a limited range of applications. Capacities for other liquids and filter meshes will be quoted on request. For discharge filters the capacities are based on a pressure drop of 0.1 to .015 Kg/cm² (1.5 to 2lb/in²) across a clean element.

Maximum flow rate for any conditions **5445 litres (1,200 gallons)** per hour.



Service	Auto-Klean Mesh		Equivalent Gauze Mesh	Free Area		Capacity					
	mm	in		cm ²	in ²	Gallons Per Hour			Litres Per Hour		
	Viscosity Seconds Redwood No.1			Viscosity Engler Degrees							
Engine Lubricating Oil Discharge	.025	.001	250 x 250	7.1	1.1	250			8.1°		
	.038	.0015	200 x 200	10.3	1.6	269			1221		
	.076	.003	150 x 150	17.4	2.7	280			1271		
						380			1725		
Machine Tool Lub. Oil Discharge	.038	.0015	200 x 200	10.3	1.6	500	1000	2000	16.2°	32.5°	65°
	.076	.003	150 x 150	17.4	2.7	190	100	50	862	454	227
	.127	.005	100 x 100	26.4	4.1	300	170	90	1362	771	408
						370	250	140	1679	1135	635
Hydraulic Oil	.025	.001	250 x 250	7.1	1.1	60	150	2.1°		4.9°	
						672	270	3050		1225	
						35 to 60			1.3 to 2.1°		
Diesel Fuel Oil Gravity Feed 1ft. head	.025	.001	250 x 250	7.1	1.1	233			1057		
						500	1000	2000	16.2°	32.5°	65°
						500	320	170	2273	1455	773
Boiler Fuel Oil Suction - 2ft water gauge pressure loss	.508	.020	30 x 30	65.8	10.2	200			6.5°		
						450			2050		
						40 Seconds Ford Cup No.4					
Hot Discharge	.127	.005	100 x 100	26.4	4.1	300			1364		
						500			2273		
Spray Paint	.254	.010	60 x 60	49.7	7.7	700			3182		
						500			2273		
Water and Aqueous Solutions	.025	.001	250 x 250	7.1	1.1						
	.076	.003	150 x 150	17.4	2.7						



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