auto-klean
Filter Anything That Flows

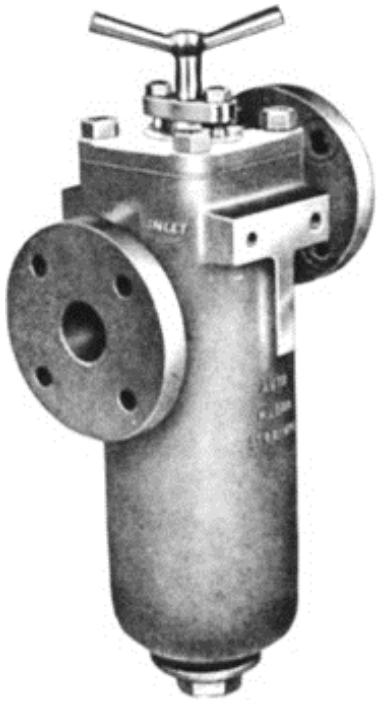
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TYPES 10J, 15J, 20J

DESCRIPTION

auto-klean® 10J, 15J and 20J 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. Standard filter bodies incorporate a sump drain plug, but a drain valve is fitted if required. A magnetic insert can be incorporated in the sump drain plug to give added protection against ferrous particles. Tapped holes for mounting screws are provided on opposite sides of the cover to facilitate installation. These filters can be supplied with either electric motors or ratchet-drive for fully automatic or continuous cleaning. Steam-jacketed designs are available for high temperature service.

10J, 15J and 20J filters for turbine and diesel engine thrust block service are provided with a special cock, which enables the filter to be by-passed in case of an emergency.



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

ELEMENTS

Diameter	56mm (2.2")
Length	190mm (7½") nett.
Mesh	.025mm (.001") .038mm (.0015") .076mm (.003") .127mm (.005") .203mm (.008") .254mm (.010") .381mm (.015") .508mm (.020") 1.016mm (.040")

CONNECTIONS **10J**- 25.4mm (1"),

15J - 38.1mm (1½"),

20J - 50.8mm (2") to B.S. Table E

PRESSURE Maximum Working 7 Kg/cm^2 (100 lb/in^2) at 121°C (250°F) Test 14 Kg/cm^2 (200 lb/in^2).
Models suitable for operation at higher pressures are available if required.

MATERIALS

Standard	Body & Cover	Cast Iron
	Internals	Mild & Stainless Steel, Brass Monel Metal
Special	Body & Cover	Mild or Stainless Steel, Gunmetal, Aluminum Alloy

SUMP CAPACITIES 262cm ^{3} (16in ^{3})

WEIGHTS Filter complete 18 Kg (40lb)
Element only 4.5 Kg (10lb)

DIMENSIONS See drawing on page 2

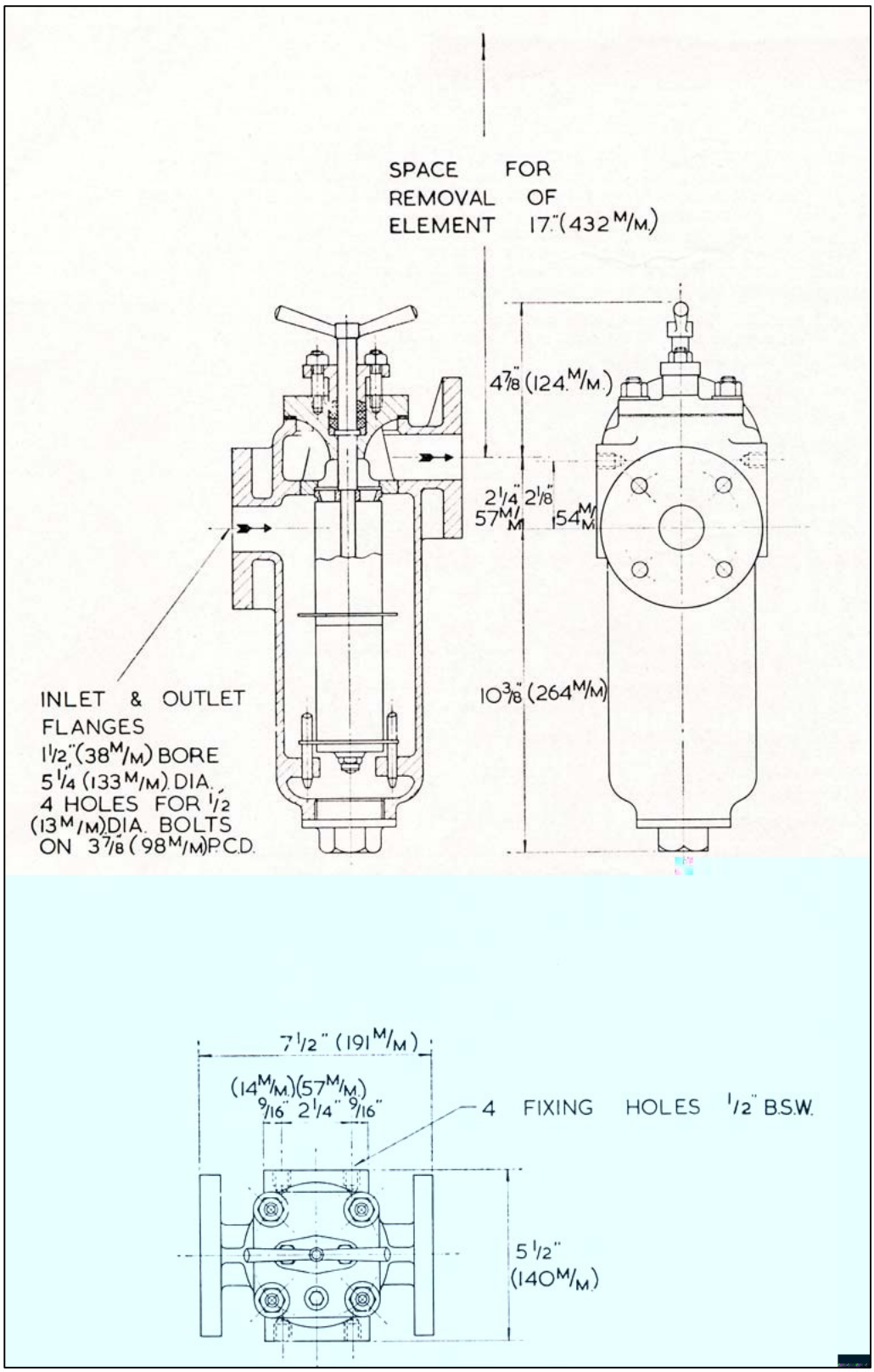
FLOW RATES The flow rates listed below cover only a limited range of applications. Capacities for other liquids and filter meshes will be quoted on request. For discharge filters the capacities are based on a pressure drop of 0.1 to .015 Kg/cm ^{2} (1.5 to 2lb/in ^{2}) across a clean element.

Maximum flow rate for any conditions 18 meters^3 (4,000 gallons) per hour.

Type 10J, 15J and 20J

Service	Auto-Klean Mesh mm	Auto-Klean Mesh in	Equivalent Gauze Mesh	Free Area cm^2	Free Area in^2	Capacity Gallons Per Hour	Capacity Litres Per Hour
						Viscosity Seconds Redwood No.1	Viscosity Engler Degrees
						250	8.1°
Engine & Thrust Block Lubricating Oil Discharge	.038 .076 .127	.0015 .003 .005	200 X 200 150 X 150 100 X 100	22.7 49.7 74.8	4.3 7.7 11.6	650 150 0 170 0	2955 6819 7728
						500 1000 2000	16.2° 32.5° 65°
Machine Tool Lubricating Oil Discharge	.076 .127	.003 .005	150 X 150 100 X 100	49.7 74.8	7.7 11.6	950 500 260 1200 750 400	4319 2273 1182 5455 3410 1818
						35 to 60	1.3° to 2.1°
Diesel Fuel Oil Gravity Feed 1ft. head	.038 .076	.0015 .003	200 X 200 150 X 150	27.7 49.7	4.3 7.7	350 500	1591 2273
						Up to 200	Up to 6.5°
Boiler Fuel Oil Discharge	.127 .254	.005 .010	100 X 100 60 X 60	74.8 118.7	11.6 18.4	190 0 210 0	8637 9548
Water and Aqueous Solutions	.076 .254	.003 .010	150 X 150 60 X 60	49.7 118.7	7.7 18.4	218 0 223 0	9910 10138

Type 15J


SPACE FOR
REMOVAL OF
ELEMENT 17"(432 M/M.)
4 7/8 (124.M/M.)
2 1/4" 2 1/8"
57 M/M 54 M/M
10 3/8" (264 M/M)
INLET & OUTLET
FLANGES
1 1/2" (38 M/M) BORE
5 1/4 (133 M/M) DIA.
4 HOLES FOR 1/2
(13 M/M) DIA. BOLTS
ON 3 7/8 (98 M/M) P.C.D.
7 1/2" (191 M/M)
(14 M/M) (57 M/M)
9/16" 2 1/4" 9/16"
4 FIXING HOLES 1/2" B.S.W.
5 1/2"
(140 M/M)