auto-klean
Filter Anything That Flows

# TYPE 02A

**DESCRIPTION** **auto-klean®** 02A self-cleaning filters operate on the edge-filtration principle and are of all-metal plate-type construction.

When required, the sump bowl is made of toughened glass for observation of the liquid flow through the filter. They 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. The filter sump is held firmly in position by a hand screw attached to a quick-release stirrup. Tapped holes for mounting screws are provided on opposite sides of the cover to facilitate installation.



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

**ELEMENTS**

| | |
|---|---|
| Diameter | 25.4mm (1") |
| Length | 19.2mm (¾") nett. |
| Mesh | .076mm (.003") .127mm (.005") |
| | .203mm (.008") .254mm (.010") |

**CONNECTIONS** ¼" B.S.P.

**PRESSURE**

| | |
|---|---|
| Maximum Working | 1.03 bar (15lb/in$^2$) |
| Test | 3.45 bar (50lb/in$^2$) |

**MATERIALS**

| | | |
|---|---|---|
| Standard | Cover | Brass |
| | Sump | Brass or Toughened Glass |
| | Internals | Mild &Stainless Steel, Brass, Monel Metal |
| Special | Cover | Mild Steel |
| | Sump | Mild Steel |

**SUMP CAPACITY** 42.6cm$^3$ (2.6in$^3$)

**WEIGHT** 0.56kg (1¼lb)

**DIMENSIONS** See table 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 .1 to .15 Kg/cm$^2$ (1.5 to 2 lb/in$^2$) across a clean element.

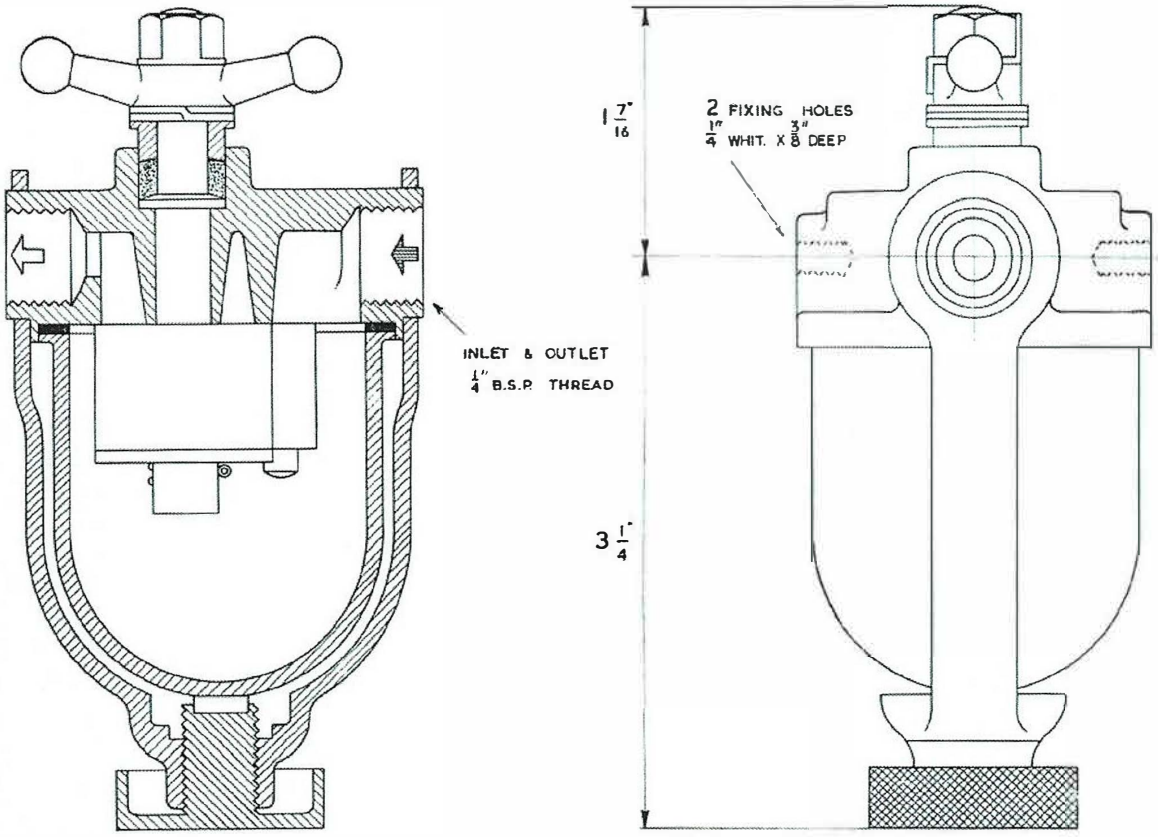
Maximum flow rate for any condition - **273 litres (60 gallons)** per hour.

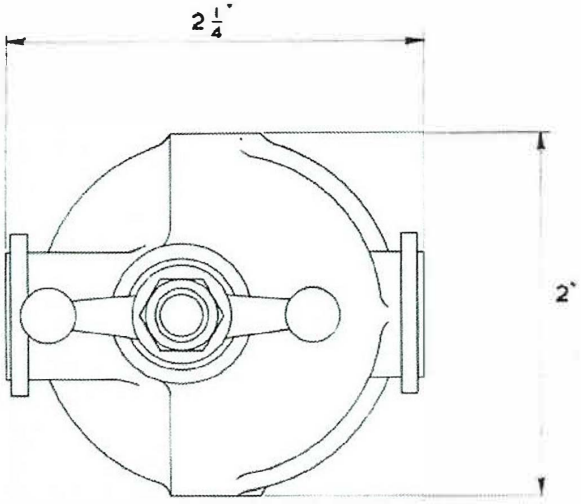
| Service | Auto-Klean Mesh | | Equivalent Gauze Mesh | Free Area | | Capacity | | Viscosity | |
|---|---|---|---|---|---|---|---|---|---|
| | mm | in | | cm$^2$ | in$^2$ | Gallons Per Hour | Litres Per Hour | Seconds Redwood No.1 | Engler Degrees |
| Engine Lubricating | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 15 | 68.2 | 250 | 8.1° |
| Oil Discharge | .127 | .005 | 100 x 100 | 3.9 | 0.6 | 30 | 136.4 | 250 | 8.1° |
| Machine Tool Lub. | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 10 | 45.5 | 500 | 16.2° |
| Oil Discharge | .127 | .005 | 100 x 100 | 3.9 | 0.6 | 20 | 91.0 | 500 | 16.2° |
| Petrol Gravity feed 1ft. head | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 10 | 45.5 | | |
| Pump Discharge | .127 | .003 | 100 x 100 | 2.7 | 0.42 | 20 | 91.0 | | |
| Gas Oil Gravity feed 1ft. head | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 10 | 45.5 | 30 | 1.1° |
| Diesel Fuel Gravity feed 1ft. head | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 7 | 31.8 | 35 to 60 | 1.3° to 2.1° |
| Water and Aqueous Solutions | .076 | .003 | 150 x 150 | 2.7 | 0.42 | 50 | 227.3 | | |

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