

**DESCRIPTION** **auto-klean**® 15KA 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 elements into the filter sump. A magnetic insert can be incorporated in the filter cover to give additional protection against ferrous particles. A mounting bracket and sump drain plug are supplied as standard fittings.

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

**ELEMENTS**

|          |   |
|----------|---|
| Diameter | 56mm (2.2")   |
| Length   | 254mm (10") nett.   |
| Mesh     | .038mm (.0015") .076mm (.003") .127mm (.005")<br>.203mm (.008") .254mm (.010") .381mm (.015")<br>.508mm (.020") 1.016mm (.040") |

**CONNECTIONS** 1½" B.S.P.

**PRESSURE**

|                 |   |
|-----------------|---|
| Maximum Working | 7.0 Kg/cm <sup>2</sup> (100 lb/in <sup>2</sup> )  |
| Test            | 14.0 Kg/cm <sup>2</sup> (200 lb/in <sup>2</sup> ) |

Models suitable for operation at higher pressures are available if required.

**MATERIALS**

|          |                        |                                       |
|----------|------------------------|---------------------------------------|
| Standard | Cover & Sump Internals | Aluminium Alloy<br>Mild Steel & Brass |
| Special  | Internals              | Stainless Steel                       |

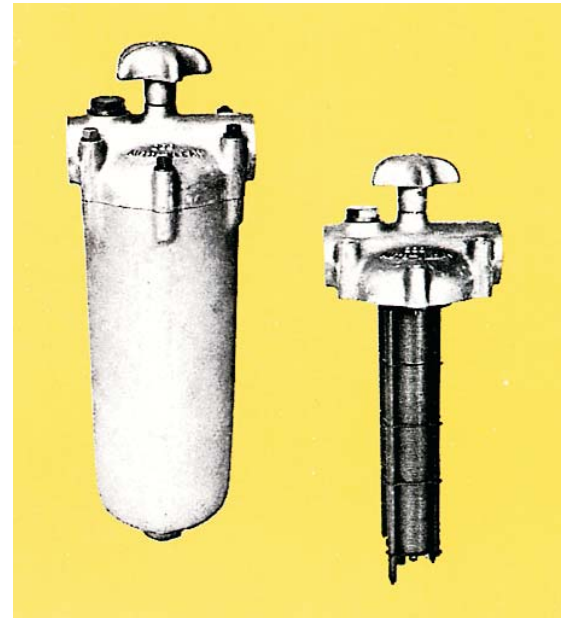
**SUMP CAPACITY** 656 cubic centimetres (40 cubic inches)

**WEIGHT** 8.6 kg (19lb)

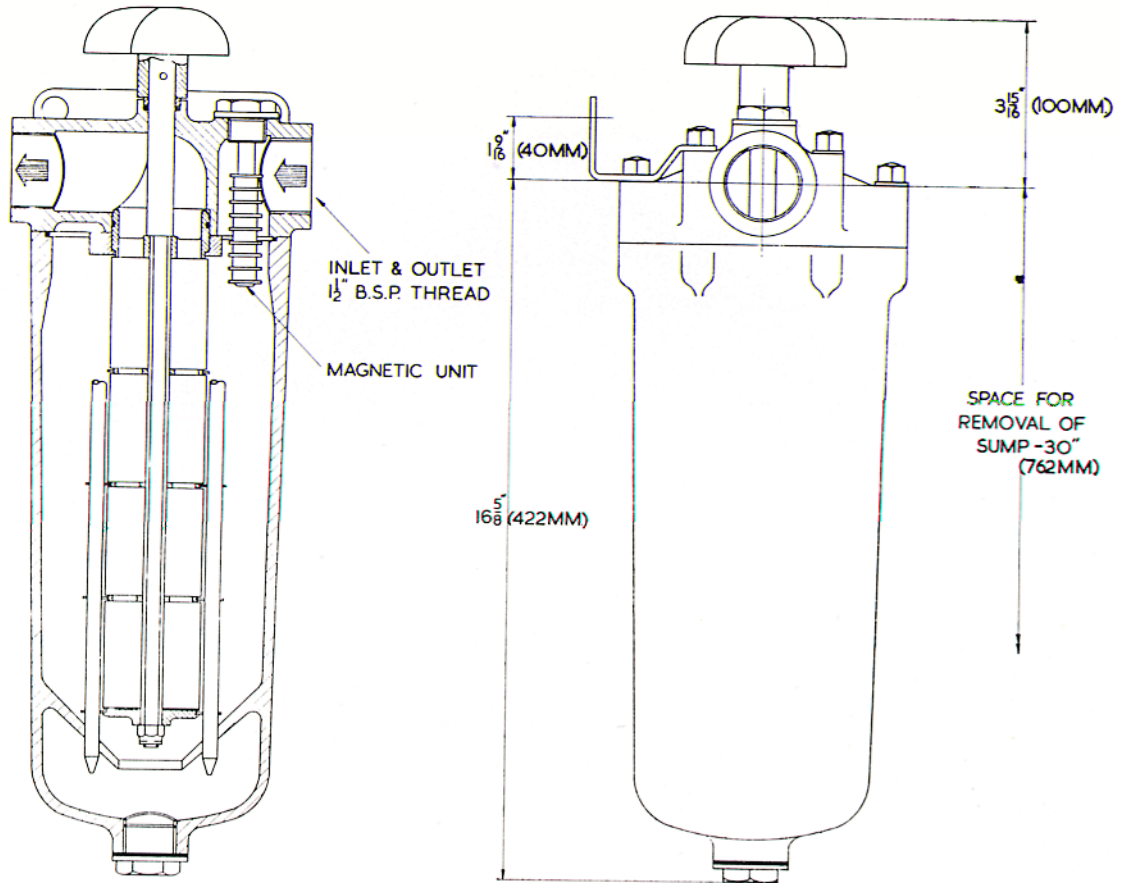
**DIMENSIONS** See drawing on page 2

**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<sup>2</sup> (1.5 to 2lb/in<sup>2</sup>) across a clean element.

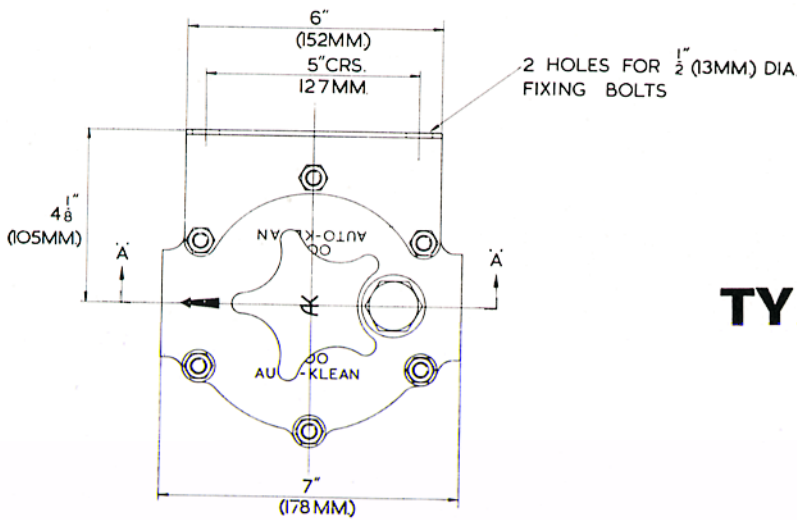
Maximum flow rate for any conditions **18 metres<sup>3</sup> (4,000 gallons)** per hour.



| Service                                | Auto-Klean Mesh |       | Equivalent Gauze Mesh | Free Area       |                 | Capacity                    |     |              |                          |      |      |
|--|-----------------|-------|-----------------------|-----------------|-----------------|-----------------------------|-----|--------------|--------------------------|------|------|
|  | mm              | in    |                       | cm <sup>2</sup> | in <sup>2</sup> | Gallons Per Hour            |     |              | Litres Per Hour          |      |      |
| Engine Lubricating<br>Oil Discharge    | .038            | .0015 | 200 x 200             | 37.1            | 5.75            | <b>Viscosity</b>            |     |              | <b>Viscosity</b>         |      |      |
|  | .076            | .003  | 150 x 150             | 67.1            | 10.4            | <b>Seconds Redwood No.1</b> |     |              | <b>Engler Degrees</b>    |      |      |
|  | .127            | .005  | 100 x 100             | 98.7            | 15.3            | <b>250</b>                  |     |              | <b>8.1°</b>              |      |      |
|  |                 |       |                       |                 |                 | 850                         |     |              | 3870                     |      |      |
| Machine Tool<br>Lub. Oil Discharge     | .076            | .003  | 150 x 150             | 67.1            | 10.4            | <b>500</b>                  |     |              | <b>16.3° 32.6° 65.2°</b> |      |      |
|  | .127            | .005  | 100 x 100             | 98.7            | 15.3            | 1090                        | 630 | 300          | 4995                     | 2870 | 1364 |
|  |                 |       |                       |                 |                 | 1250                        | 860 | 460          | 5680                     | 3910 | 2091 |
|  |                 |       |                       |                 |                 | <b>35 to 60</b>             |     |              | <b>1.3° to 2.1°</b>      |      |      |
| Diesel Fuel Gravity<br>Feed 1 ft. head | .038            | .0015 | 200 x 200             | 37.1            | 5.75            | <b>550</b>                  |     |              | <b>2500</b>              |      |      |
|  | .076            | .003  | 150 x 150             | 67.1            | 10.4            | <b>750</b>                  |     |              | <b>3410</b>              |      |      |
| Boiler Fuel<br>Discharge               | .127            | .005  | 100 x 100             | 98.7            | 15.3            | <b>Up to 200</b>            |     |              | <b>Up to 6.5°</b>        |      |      |
|  | .254            | .010  | 60 x 60               | 158.7           | 24.6            | <b>1500</b>                 |     |              | <b>6830</b>              |      |      |
| Paints & Elements<br>Discharge         | .038            | .0015 | 200 x 200             | 37.1            | 5.75            | <b>1600</b>                 |     |              | <b>7280</b>              |      |      |
|  | .076            | .003  | 150 x 150             | 67.1            | 10.4            | <b>5</b>                    |     |              | <b>Ford Cup No.4</b>     |      |      |
| Water and<br>Aqueous Solutions         | .076            | .003  | 150 x 150             | 67.1            | 10.4            | <b>38</b>                   |     |              | <b>5</b>                 |      |      |
|  | .127            | .005  | 100 x 100             | 98.7            | 15.3            | <b>120</b>                  |     |              | <b>38</b>                |      |      |
|  | .254            | .010  | 60 x 60               | 158.7           | 24.6            | <b>120</b>                  |     |              | <b>120</b>               |      |      |
|  |                 |       |                       |                 |                 | 1500                        | 600 | 190          | 6830                     | 2730 | 865  |
|  |                 |       |                       |                 | 1600            | 1100                        | 450 | 7280         | 5000                     | 2050 |      |
|  |                 |       |                       |                 | <b>2300</b>     |                             |     | <b>10456</b> |                          |      |      |
|  |                 |       |                       |                 | <b>2875</b>     |                             |     | <b>13070</b> |                          |      |      |
|  |                 |       |                       |                 | <b>3160</b>     |                             |     | <b>14365</b> |                          |      |      |



SECTION A-A



## TYPE 15KA

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