

# MG6062 Water Cooled Electromagnet

# e2v technologies

### **DESCRIPTION**

Water cooled electromagnet for use with linear accelerator magnetrons M5125, MG5125, MG5125X, MG5193 and MG6060.

## **GENERAL DATA**

### Electrical (See note 1)

The electromagnet coils should be fed from a constant current power supply.

#### Calibration

An individual calibration chart is supplied with each electromagnet (see below).

## Cooling

MG6062 is water cooled via  $^{1}/_{2}$ -inch Polyflow adaptors; it may be connected in series with the magnetron.

Minimum water flow required (see note 4) . . . 5.0 I./min Inlet water temperature (see note 3) . . . . 40 °C max

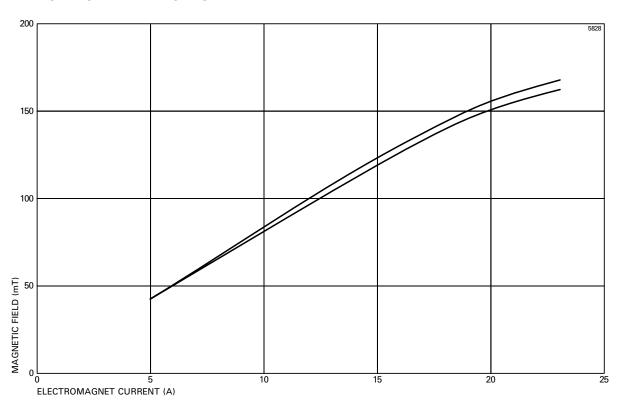
#### Mechanical

An AFC mounting facility is provided by four threaded holes on the yoke.

### **NOTES**

- The DC electrical connections are made via flexible cables to screw clamps on the yoke (see outline). The positive lead goes to the bottom connector and the negative lead to the top connector.
- The field coil resistance increases after initial switch on, due to heating effects, necessitating an increase in voltage to maintain a constant current.
- 3. The field coil resistance varies with inlet water temperature.
- 4. For a water flow of 5 l./min, a pressure of approximately 1.25 kg/cm<sup>2</sup> is required.

## **TYPICAL CALIBRATION CHART**

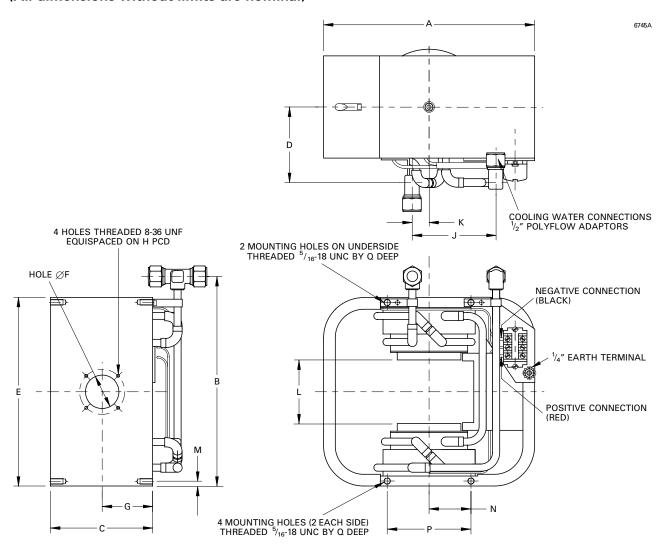


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## **OUTLINE**

## (All dimensions without limits are nominal)



Ref	Millimetres	Inches
A	252.0 max	9.921 max
В	250.0	9.843
С	122.0 max	4.803 max
D	90.0	3.543
E	225.0 max	8.858 max
F	40.0	1.575
G	60.0 + 0.5	2.362 + 0.020
Н	53.97	2.125
J	100.0	3.937
K	20.0	0.787
L	75.44 min	2.970 min
M	6.0	0.236
Ν	50.0 + 0.5	1.969 + 0.020
Р	100.0	3.937
Q	15.0 min	0.591 min

Inch dimensions have been derived from millimetres.

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