Double-Ended
Fuel Booster Pump Type 7202

Part No. 568-1-24721-002

Description

The Eaton Type 7202 double-ended fuel pump has been designed primarily for operation from a DC power source and operates in conjunction with a static inverter, which converts a DC supply to three-phase AC, to power the motor. This configuration confers the advantages of brushless AC fuel pump operation on aircraft having only DC supplies.

The pump incorporates an integral fuel flooded, three-phase AC induction motor. Multi-stage pump impellers ensure uninterrupted fuel supply during normal flight, inverted flight and negative G conditions and pump performance is maintained during high rates of climb and at extreme altitudes over a wide fuel temperature range.

The unit is fuel cooled and lubricated, has a dry running capability and is protected against overheating by thermal fuses which rupture in the event of the unit temperature exceeding a preset level.

Design Features

- DC operation with AC induction motor benefits
- Compact and efficient
- Operates in inverted flight and negative G conditions
- High altitude and rate of climb capability
- Explosion-proof and thermally protected
- Affords reliable, maintenance-free operation reducing overall life cycle costs
- Multi-fuel and Dry running capability

Application

- Hawk/T45

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Specification

Pump Type 7202 . . . . . Part No. 568-1-24721-002

Associated static inverter . . . . Part No. 509-1-02401-000

Voltage to associated inverter . 28V DC nominal

Voltage to pump motor . . . . . 18.6V 400Hz, three-phase

Flow rate . . . . . 2773 litres/hr (610 UK gal/hr)

Delivery pressure 48.3kPa (7psig)

Rating

Normal . . . . . Continuous

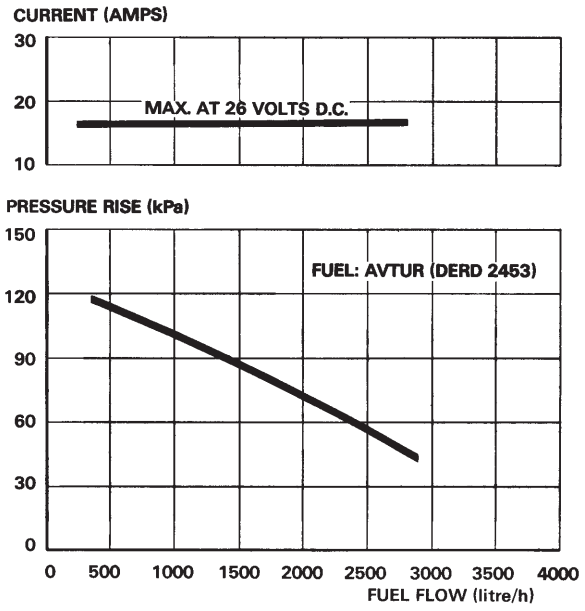
Dry running . . . . . 5 minutes

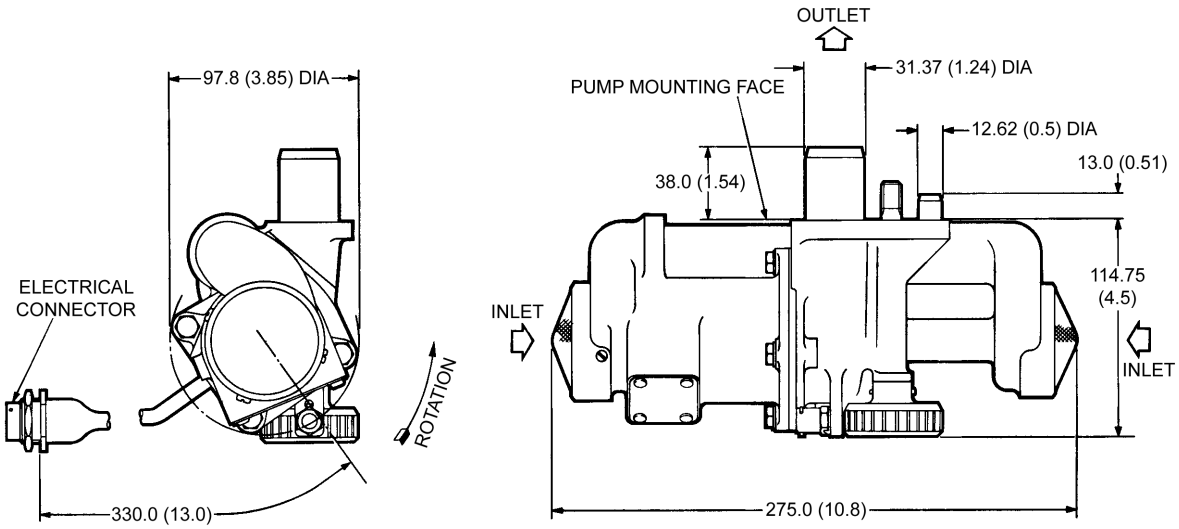
Current consumption . . . . . Refer to graph

Weight 2.27kg (5lb)

Dimensions . . . . . Refer to outline drawing

Typical Performance Curves





Overall Dimensions
shown in mm (in)

Eaton Aerospace Limited
Fuel & Motion Control Systems Division
Abbey Park, Southampton Road
Titchfield, Fareham
Hampshire, PO14 4QA
UK
Tel: +44 (0)1329 853000
Fax: +44 (0)1329 853797
www.eaton.com/aerospace

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