

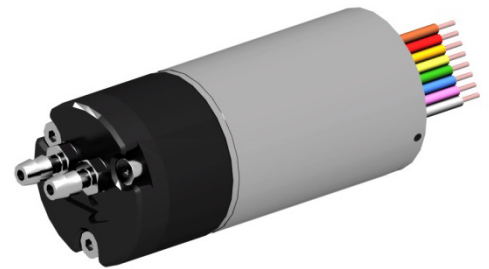
# UAV EFI SYSTEMS

## MICRO GEARS FUEL PUMP > *FP400*

The **FP400** is a micro geared pump developed for UAV electronic fuel injection systems. It has been designed to satisfy the requirements of drones reliability, endurance and maintainability.

### Main features

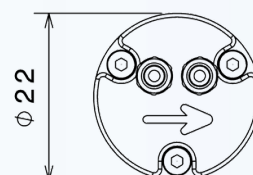
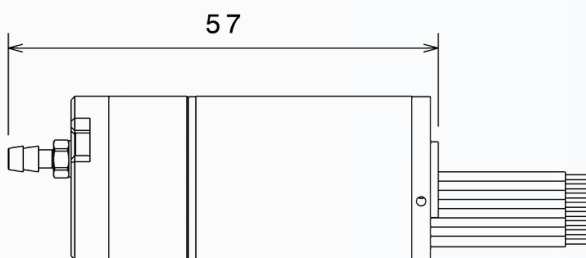
- Smart and robust design; a balance between performance and reliability
- Stainless steel gears, hard anodized aluminum housing, and specially designed FPM seals for a long lifetime
- Brushless motor with sealed self lubricated ball bearings; adequate for flammable environments
- Compatible with most fuels and oils (Jet-A1, JP-5, JP-8, Diesel, AVGas, comercial gasoline and methanol)



### Specifications

- **Max. rated flow:** 18 l/h @ 2.5 bar
- **Max. working pressure:** 5 bar (burst pressure > 10 bar)
- **Max. speed:** 18.000 rpm (do not run at this speed without fuel pressure)
- **Electrical interface:** 3x coil, 3x hall sensor, 1x sensor voltage (3...24VDC), 1x sensor GND
- **Fuel pipe:** 2 mm (internal diameter)
- **Rated power supply:** 12 VDC
- **Max. consumption:** 15 W @ 18.000 rpm and 2.5 bar
- **Weight:** 95 g (with 150 mm wires and connector)

- (1) Always install a 50 µm filter in the suction line
- (2) Use within the specified limits
- (3) Do not run over 10 seconds without fuel
- (4) It is recommended to run with the BMC03 controller from Moscat



Brown - Winding 1  
Red - Winding 2  
Orange - Winding 3  
Yellow - V<sub>Hall</sub>  
Green - GND  
Blue - Hall 1  
Violet - Hall 2  
Grey - Hall 3

Dimensions in mm