ROS · AVIATION FUEL SYSTEMS

ROS-RYB 30 / 50 / 100

Integrated fuel supply units for 6–80 kgf thrust engines

TECHNICAL DATA SHEET · EN · rev. A

Main pump, ignition pump, fuel filter and the main-line / ignition-line solenoid valves combined in one body. Brushless motor, three-gear head: the third gear keeps the discharge primed, so an air bubble in the fuel line does not put the flame out. RP-3 jet fuel, ≥ 70 % fraction.

PARAMETER	ROS-RYB 30	ROS-RYB 50	ROS-RYB 100
Length 长度	56 mm	—	101 mm
Diameter 直径	29 mm	—	34.5 mm
Mass 重量	120 g	—	300 g
Motor type 电机形式	brushless	brushless	brushless
Motor spec 电机规格	1810-2400 KV	—	—
Power 功率	54 W	50 W	—
Supply voltage 电压范围	3-4S LiPo	3-4S LiPo	—
Flow rate 流量	≥ 30 L/h	≥ 50 L/h	120-150 L/h
Outlet pressure 压力	12 kg/cm² *	—	0.6 MPa
Operating temperature 使用温度范围	-40 … +50 °C	-40 … +50 °C	-40 … +50 °C
Normal service life 正常寿命	25 h	25 h	25 h
Speed 转速	28 800 r/min	—	—
Fuel line 油管材质及规格	Φ4×Φ2.5 PU/PTFE	—	Φ8×Φ5 PU/PTFE
Electrical connector 电连接接口	MR30-FB	MR30-FB	MR30-FB

NOTES / □ □

Every unit is flow- and pressure-tested before shipment. · 每台出厂前做流量与压力测试。

Mounting: avoid severe vibration; keep the pump within 20 cm vertically of the tank. · 安装：避免剧烈震动，与油箱垂直距离 ≤ 20 cm。

* Pressure value for the 30 class is quoted exactly as printed in the source technical-status sheet (unit not normalised). · 30 类压力值按原始技术状态表引用。

Figures are minimum guaranteed values at the stated conditions unless noted otherwise. · 除另行说明外，数值为规定条件下的最低保证值。

ROS Aero Propulsion Co., Ltd.

sales@example.com · +86 000 0000 0000 · WhatsApp +86 000 0000 0000

No. 000, Example Industrial Park, Chengdu, Sichuan, China

Specifications may change without notice — the quotation is authoritative.