PRODUCT DATA SHEET

Model 11C12-4, 11C13-2

PARKER AEROSPACE

Fuel pump cartridge/canister

Product data matrix and performance index

Many civilian and military aircraft utilize 28 VDC power for fuel system products. The 11C12-4/11C13-2 pump utilizes a two piece (cartridge/canister) assembly that allows for the main pumping element (cartridge) to be removed and replaced during service without performing additional maintenance on the fuel tank, such as draining the fuel from the tank to gain access to the pump. The 11C12-4/11C13-2 is used as the main boost pump for the aircraft engines. Extensive qualification testing has been completed, and the 11C12-4/11C13-2 pump assembly has shown excellent field reliability. The combination of certification testing and field experience provides a low risk, cost effective solution for fuel pump applications utilizing a 28 VDC power system.

Product attributes and benefits

- Two piece assembly (cartridge/canister), skin mounted on the bottom of the aircraft fuel tank
- Circumferential, screened inlet utilizing a centrifugal impeller
- 28 volt brushless DC drive system (motor & controller)
- Voltage range is from 18 VDC to 32 VDC
- Motor and controller are fuel cooled for long life

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Fuel pump cartridge/canister

Product data matrix and performance index

Model 11C12-4

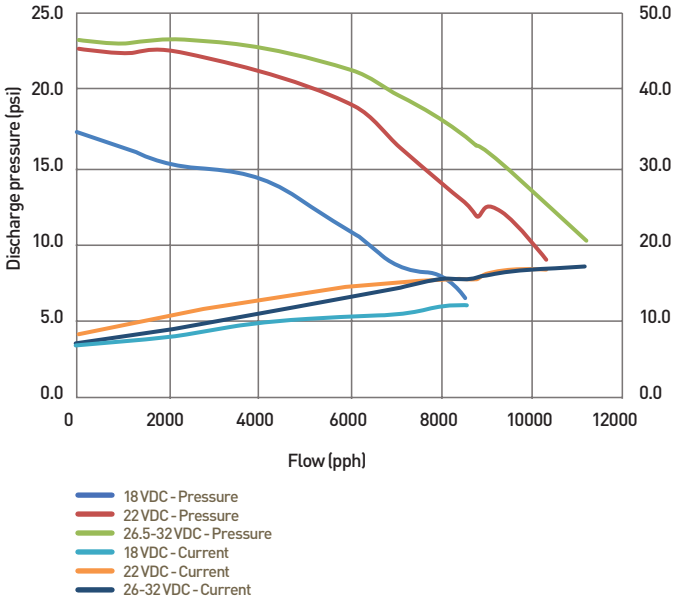
Characteristic	Value
Model number	11C12-4
Application	Cartridge assembly
Pumping data	
Hydraulic element	Single stage, centrifugal
Rated flow	8600 pph
Minimum discharge pressure	13 psig
Typical discharge pressure	16.9 psig at sea level
Maximum operating altitude	45,000 ft
Qualified fuels	Jet A, JP-8, TS-1, RT, Jet B, JP-5
Temperature range	-49°F to +130°F
Duty cycle	Continuous
Motor data	
Motor type	Brushless DC
Voltage	18 - 32 volts
Current at rated flow	15.4 amps at sea level
Maximum current	25 amps
Dry run capability	Yes
EMI filtering	Yes
Stator thermal protection	Yes
Electrical connection	M83723/88H1404N
Geometric assembly data	
Assembly mounting	Into canister
Bypass flow valve	No
Lift capability	No
Approximate envelope (L x W x H)	4.3" x 4.3" x 11.1"
Weight (maximum)	5.2 lbs

Model 11C13-2

Characteristic	Value
Model number	11C13-2
Application	Canister assembly
Geometric assembly data	
Assembly mounting	Tank floor, skin mount
Inlet port	#12 mesh, screened inlet
Discharge port	AS1656-1-16
Discharge check valve	Yes
Bypass flow valve	No
Approximate envelope (L x W x H)	6.5" x 6.5" x 12.2"
Weight (maximum)	3.1 lbs

Pump performance

Typical model 11C12-4/11C13-2 pump performance at sea level for room temperature JP-8 fuel



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