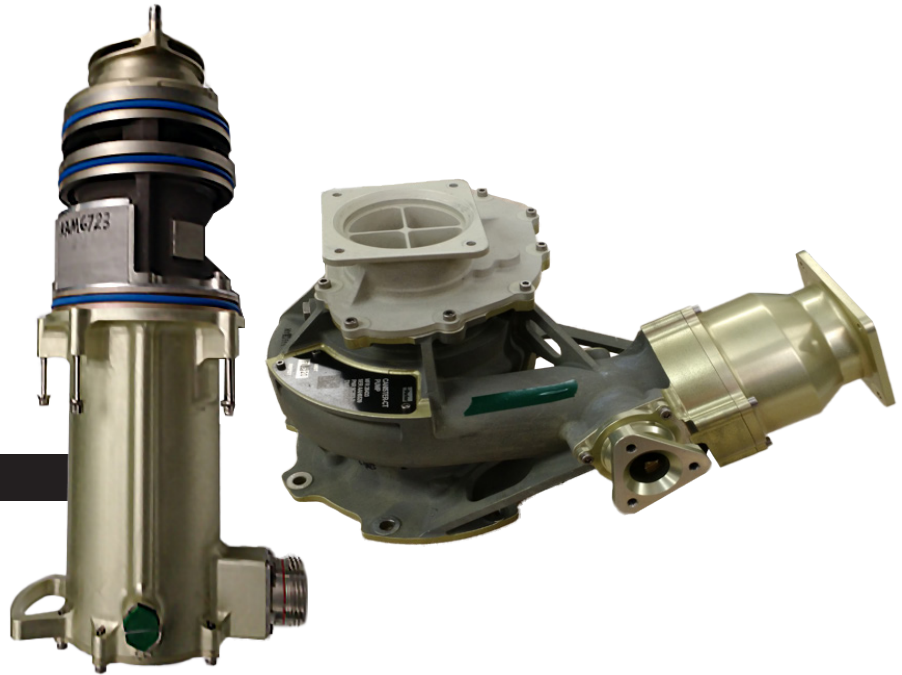


PRODUCT DATA SHEET

Model 9C204-6/9C203-2



PARKER AEROSPACE

Fuel pump cartridge/canister

Product data matrix and performance index

Some civilian aircraft utilize 230 VAC (L-N), variable frequency power for fuel system products. The 9C203-2/9C204-6 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 9C203-2/9C204-6 is spar mounted on the side of the fuel tank and utilizes a liquid ring assembly to “lift” fuel through an inlet snorkel. The pump assembly is connected to a Fixed Frequency Supply Unit (FFSU) that acts as an intermediate power conditioner by accepting the aircraft input power and optimizes it prior to directing power to the pump.

Extensive qualification testing has been completed, and the 9C203-2/9C204-6 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 230 VAC, variable frequency power system.

Product attributes and benefits

- Two piece assembly (cartridge/canister), mounted to the vertical spar of the aircraft fuel tank
- Single inlet utilizing a centrifugal impeller
- Connected to a Fixed Frequency Supply Unit (FFSU) power conditioner that accepts aircraft variable voltage and frequency
- Motor is fuel cooled for long life

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Fuel pump cartridge/canister

Product data matrix and performance index

Model 9C204-6

Characteristic	Value	Pump performance
Model number	9C204-6	<p>Typical model 9C203-2/9C204-6 pump performance at 142 VAC/236 Hz for room temperature Jet A at sea level</p> <p>Discharge pressure (psi)</p> <p>Current (amps per phase)</p> <p>Flow (pph)</p> <p>— Discharge pressure — Current</p>
Application	Cartridge assembly	
Pumping data		
Hydraulic element	Single stage, centrifugal	
Rated flow	110 gpm	
Minimum discharge pressure	35 psig	
Typical discharge pressure	42 psig at sea level	
Maximum operating altitude	43,100 ft	
Qualified fuels	Jet A, TS-1, JP-5, RT	
Temperature range	-40°F to +122°F	
Duty cycle	Continuous	
Motor data		
Motor type	Variable freq. AC	
Voltage/frequency	142 VAC/236 Hz	
Current at rated flow	15.5 amps at sea level	
Maximum current	17.5 amps	
Dry run capability	Yes	
EMI filtering	No	
Stator thermal protection	Yes	
Electrical connection	EN3645-Y0GR48MT	
Geometric assembly data		
Assembly mounting	Into canister	
Bypass flow valve	No	
Lift capability	Up to 18"	
Approximate envelope (L x W x H)	13.3" x 7" x 5.6"	
Weight (maximum)	13.95 lbs	

Model 9C203-2

Characteristic	Value
Model number	9C203-2
Application	Canister assembly
Geometric assembly data	
Assembly mounting	Spar, wall mount
Inlet port	4 bolt custom flange
Discharge port	4 bolt custom flange
Discharge check valve	Yes
Bypass flow valve	No
Approximate envelope (L x W x H)	7.9" x 10.3" x 14.1"
Weight (maximum)	7.55 lbs