CF-15 Oil Pump

Directly couples to any NEMA 56C face motor

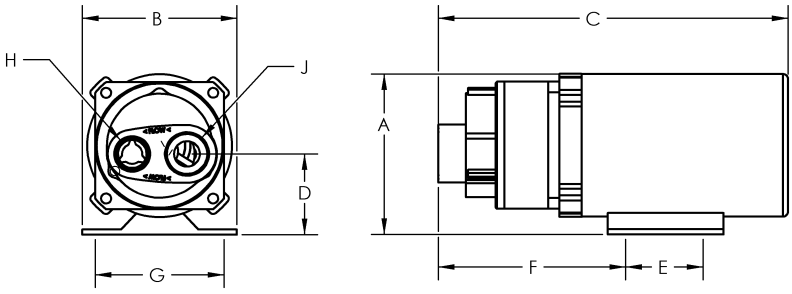
Features

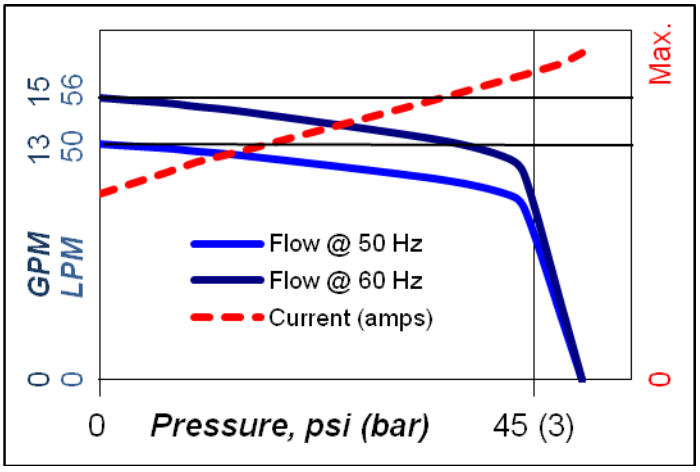
Whisper Vane Technology.

- Industrial build quality.
- Built in Pressure Regulation Valve to set pump performance. Will bypass 100% of pump flow while maintaining pressure.
- Built in reverse flow protection check valve so that discharge port oil pressure cannot motor the pump backwards while Prelube is idle.
- Direct shaft coupling, for simple, long life.
- Pump head can be rotated to four positions to accommodate plumbing.
- Pump can be mounted to any 56 C face motor… AC, DC, or Air.

Pump Dimensions with Representative Motors

Motor Specs.		A*	B*	C*	D	E	F	G	H - J
24V,39 amp D.C.	in	6.3	6.5	18.6	3.2	3.0	7.3	4.0/5.75	H - Discharge Port 1 5/16"-12 (SAE -16) Straight Thread O-Ring
	mm	160	165	472	81	76	186	100/145	
208-230/460 VAC, 4-3.5/1.7 amp, 3 Phase A.C. TEFC	in	7.3	9.1	15.0	3.2	3.0	6.8	4.9	
	mm	186	231	381	81	76	173	125	
115/208-230, 14.3/7..4-7.2 amp, 1 Phase A.C. TEFC	in	8.7	8.4	16.8	3.2	3.0	9.2	4.9	J - Suction Port 1 5/8"-12 (SAE -20) Straight Thread O-Ring
	mm	221	214	427	81	76	234	125	
575 VAC, 1.85 amp, 3Phase A.C. TEFC	in	7.3	9.0	17.4	3.2	3.0	6.8	4.9	
	mm	186	230	442	81	76	173	125	
Air Driven Motor 1 3/4 hp	in	~9.2	7.0	11.0	3.5	3.0	5.9	5.5	
	mm	~233	177	279	89	76	150	140	





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Wetted Materials

- **Anodized Aluminum**
- **Steel**
- **Rubber Viton V884**

Pump Range

Operating Fluid Temperature -40/+150°C.
Min. Viscosity in cSt: 100
Max. Viscosity in cSt: 2,000 intermittent & 800 continuous duty
Maximum Discharge: 15 gpm (56.8 lpm).
Pressure at pump inlet may not be lower than -7.5 psig (-.5 barg).

Plumbing Considerations

The CF15 pump delivers up to 15 gpm (56 l/m) of oil flow. It is a self-priming and quiet-running vane pump. It includes a self-contained, pressure bypass valve to prevent motor overload, and a low-pressure-loss check valve to prevent backflow. This is particularly valuable in prelube applications to prevent backflow from the main engine lube pump. It can produce up to 50 psi (56 l/m) pressure.

Because these oil pumps do not run at high pressure like a hydraulic system, excessive pressure drop caused by small pipes can degrade system performance. Small suction pipes will starve the pump and reduce output flow by causing cavitation. Small pressure pipes will create excessive backpressure that will reduce output flow by causing more bypass flow. Therefore, elbows and long runs of pipe should be avoided. 15 gpm (56 l/m) of cold oil can easily eat up 50 psi (3.4 bar) when the plumbing is too restrictive.

The pump itself does not create pressure. It produces flow. Like a turnstile, every rotation of the pump delivers a metered volume to the other side. Whatever system is connected to the pump has flow resistance that produces backpressure as the pump works to maintain flow.

Available pump motor horsepower can develop only a given amount of pressure, in this case about 50psi (3.4 bar). Each elbow and each inch of pipe has a cumulative effect. If the plumbing uses up all available pressure there will be no pressure left for the job the pump is intended to do.

It is recommended that hose or pipe no smaller than 1” (25mm) be used and that the suction hose in particular is kept as large and short as possible and no longer than 36” (3m). Always use the biggest and shortest hoses practical.

Wiring Considerations

The CF15 can be mounted to any NEMA 56C Motor. The motor and the pump need to be matched to your application to ensure adequate performance. Motor protection should be used in the circuit as pre motor manufacturers recommendation and relevant electric code.

Application Engineering

It is challenging to address every possible installation type. We are always happy to help in choosing an appropriate installation package.

Give us a call for engineering assistance and support. 888-676-7770.

