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# PUMPS CATALOG

## Applications

- Cooling
- Lubrication
- Scavenge
- Fuel boost/transfer
- Windshield washer
- Smoke system
- Circulation

## Key features

- Drive: AC/DC motor and Gear Box direct drives
- Flow: .03 - 120 GPM (up to 1500 PSID)
- Housing: investment casting, integrating motor, gear cartridge, bypass valve and controller (as required)
- Wet/flooded motor design for higher reliability
- Eliminates dynamic seal
- Improved motor heat dissipation
- Reduced envelope



**Parker Meggitt  
Defense Systems Division**

# Pumps Catalog By Item

	Description	Fluid type	Flow rate	Discharge pressure (psid)	Inlet pressure (psia)	Fluid Temp °f	Pump-ing Element	Drive type	Shaft speed (rpm)
1	Oil, smoke system	1010 OIL, MIL-L-6081	7	300	14.7	30 to 375	Gear	Electric motor	ND
2	Centrifugal	50/50 PGW OR 50/50 EGW	82	160	16	185	Impeller	Electric motor	ND
3	Motor	55/45 ethylene glycol and deionized water	1.5	25	14.7	0 to 120	Impeller	Electric motor	ND
4	Coolant ac motor driven	60% Ethylene glycol, 30% water, 10% corrosion inhibitor	2.15	90	7.5	-40 to 205	Impeller	Electric motor	ND
5	Coolant ac motor driven	60% Ethylene glycol, 30% water, 10% corrosion inhibitor	2.15	90	7.5	-40 to 205	Impeller	Electric motor	ND
6	Reservoir/ assy windshield washer	80% Isopropyl alcohol 20% distilled water	0.167	30	14.7	ND	Impeller	Electric motor	ND
7	Coolant ac motor driven	Coolanol 25r	2	150	7.5	-40 to 205	Gear	Electric motor	ND
8	Gearbox lubrication	DOD-L-85734	3	103.3	6.4	240	Gerotor	Shaft	6000
9	Gearbox lubrication	DOD-L-85734	6.5	95	14.7	240	Gerotor	Shaft	6162
10	Gearbox lubrication	DOD-L-85734	6.5	103.3	6.4	270	Gerotor	Shaft	6000
11	Lubrication	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	6	105.9	8.8	-40 to 275	Gerotor	Shaft	4200
12	Lubrication	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	6	105.9	8.8	-40 to 275	Gerotor	Shaft	4200
13	Scavenge	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	7	20.9	8.8	-40 to 275	Gerotor	Shaft	4200
14	Centrifugal	EGW	8	55	0.5	60	Impeller	Electric Motor	9,030
15	Coolant ac motor driven	FC-75	1.8	200	22.3	-67 to 203	Gear	Electric motor	ND
16	Main fuel boost	JP-5, MIL-T-5624	15	40	14.7	-30 to 140	Impeller	Electric motor	ND
17	Fuel transfer	JP-5, MIL-T-5624	125	25	14.7	-30 to 140	Impeller	Electric motor	ND
18	Fuel pump assembly	JP-8 turbine fuel IAW MIL-DTL-83133E	3.17	114.7	11	-50 to 149	Gerotor	Electric motor	ND
19	Oil pump assy emergency lube system	Lube oil, DOD-L-85734	0.165	190	14.7	5 to 190	Gerotor	Electric motor	ND
20	Lube main xsmn	MIL-L-23699	1.8	100	14.7	-65 to 300	Gerotor	Shaft	12251
21	Lubrication	MIL-L-23699	4.2	101.3	13.4	ND	Gerotor	Shaft	4200
22	Lube main xsmn	MIL-L-23699	6.5	74	14.7	-65 to 300	Gerotor	Shaft	4391
23	Lube/scavenge & hydraulic	MIL-L-23699 oil or dexron II	9	20	14.7	ND	Gerotor	Shaft	4589
24	Scavenge	MIL-L-23699, MIL-L-7808, OR DERD 2487	0.68	30	14.7	-40 to 275	Gerotor	Shaft	4137
25	Lube nosebox	MIL-L-7808, MIL-L-23699	2.3	50	14.7	-65 to 300	Gerotor	Shaft	9841
26	Lube nosebox	MIL-L-7808, MIL-L-23699	2.3	50	14.7	-65 to 300	Gerotor	Shaft	9841
27	Lube nosebox	MIL-L-7808, MIL-L-23699	2.3	50	14.7	-65 to 300	Gerotor	Shaft	9841
28	Lube nosebox	MIL-L-7808, MIL-L-23699	2.3	50	14.7	-65 to 300	Gerotor	Shaft	9841
29	Intermediate gearbox	Oil per DOD-PRF-85734 OR MIL-PRF-23699	2.07	100	14.5	180	Gerotor	Shaft	4370
30	Tail rotor gearbox	Oil per DOD-PRF-85734 OR MIL-PRF-23699	2.65	100	14.5	180	Gerotor	Shaft	4370

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	Description	Fluid type	Flow rate	Discharge pressure (psid)	Inlet pressure (psia)	Fluid Temp °f	Pump-ing Element	Drive type	Shaft speed (rpm)
31	Reduction gearbox	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	6.94	125	14.3	200	Gerotor	Shaft	5996
32	Main rotor gearbox Lube/Scavenge	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	20 9.5	100 10	14.3	200	Gerotor	Shaft	5,944
33	Assembly, mgb2	OIL PER MIL-PRF-7808, MIL-PRF-23699, DOD-PRF85734	44.1	187.8	7.2	110	Gerotor	Shaft	4042
34	Assembly, mgb1	OIL PER MIL-PRF-7808, MIL-PRF-23699, DOD-PRF85734	55.7	187.8	7.2	110	Gerotor	Shaft	6179
35	Centrifugal	PAO	9.1	86	14.7	85	Impeller	Electric Motor	11,700
36	Circulating Pump	Polyalphaolefin Synthetic Hydrocarbon, Mil-C-87252	18.2	120	16.7	-50 TO 180	Gear	Electric motor	ND
37	Cirulation Pump	Polyalphaolefin Synthetic Hydrocarbon, Mil-C-87252	18.2	120	16.7	-50 TO 180	Gear	Electric motor	ND
38	Pump Boost	SKYDROL LD-4	2	11.4	7.1	-40 TO 200	Gerotor	Electric motor	ND



Parker Meggitt Defense Systems has many years' experience producing high-performance pumps. Our design process considers all aspects of the application before forming an integrated solution resulting in maximum flow and pressure increase for a given volume and weight. We have a wide variety of lubrication and cooling pumps on aerospace, land, and sea applications. Our pumps have been produced in a wide variety of configurations, ranging from gerotors to centrifugal pumps with various drives. Drive methods include the use of AC induction, brushless DC, and direct shaft drive.

Parker Meggitt pumps are found on many platforms, such as the Apache AH-64, Osprey V-22, Eagle F-15, and LCAC. We are developing pumps for various Future Combat Systems (FCS) vehicles for aerospace, land, and sea applications.

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