



Meggitt Defense Systems

Military & Aerospace Pumps Catalog

Applications

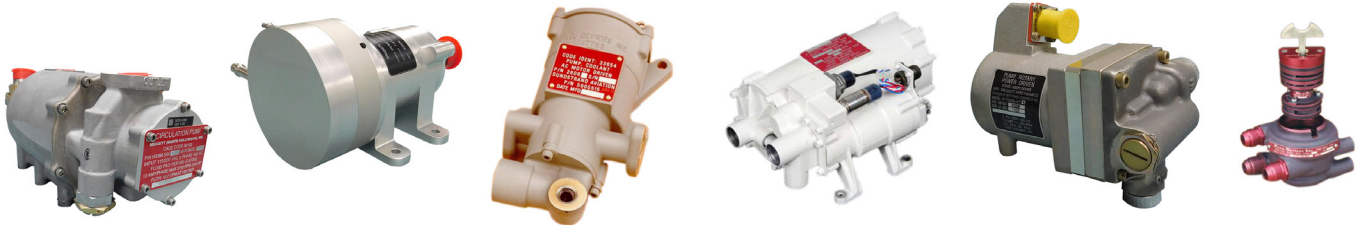
- Cooling
- Lubrication
- Scavenge
- Fuel boost/transfer
- Windshield washer
- Smoke system
- Circulation

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

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Item #	Description	Fluid type	Flow rate (gpm)	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	Coolant ac motor driven	FC-75	1.8	200	22.3	-67 to 203	Gear	Electric motor	ND
15	Main fuel boost	JP-5, MIL-T-5624	15	40	14.7	-30 to 140	Impeller	Electric motor	ND
16	Fuel transfer	JP-5, MIL-T-5624	125	25	14.7	-30 to 140	Impeller	Electric motor	ND
17	Fuel pump assembly	JP-8 turbine fuel IAW MIL-DTL-83133E	3.17	114.7	11	-50 to 149	Gerotor	Electric motor	ND
18	Oil pump assy emergency lube system	Lube oil, DOD-L-85734	0.165	190	14.7	5 to 190	Gerotor	Electric motor	ND
19	Lube main xsmn	MIL-L-23699	1.8	100	14.7	-65 to 300	Gerotor	Shaft	12251
20	Lubrication	MIL-L-23699	4.2	101.3	13.4	ND	Gerotor	Shaft	4200
21	Lube main xsmn	MIL-L-23699	6.5	74	14.7	-65 to 300	Gerotor	Shaft	4391
22	Lube/scavenge & hydraulic	MIL-L-23699 oil or dexron II	9	20	14.7	ND	Gerotor	Shaft	4589
23	Scavenge	MIL-L-23699, MIL-L-7808, OR DERD 2487	0.68	30	14.7	-40 to 275	Gerotor	Shaft	4137
24	Lube nosebox	MIL-L-7808, MIL-L-23699	2.3	50	14.7	-65 to 300	Gerotor	Shaft	9841
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	Intermediate gearbox	Oil per DOD-PRF-85734 OR MIL-PRF-23699	2.07	100	14.5	180	Gerotor	Shaft	4370
29	Tail rotor gearbox	Oil per DOD-PRF-85734 OR MIL-PRF-23699	2.65	100	14.5	180	Gerotor	Shaft	4370



Meggitt 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.

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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