

Thermal Management > Thermal Components

PUMPS - by Fluid Type



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.

- > Types: centrifugal, gerotor, spur gear
- > Fluids: PAO, EGW, fuels, and hydraulic oils (lube and scavenge)
- > 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

Contact

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Meggitt Defense Systems

Our product competencies and services:

Ammunition Handling Systems | **Thermal Management** | Countermeasures | Towed Targets | Electronic Systems

PUMPS - by Fluid Type

Item #	DESCRIPTION	FLUID	FLOW RATE (GPM)	DISCHARGE PRESSURE (PSID)	INLET PRESSURE (PSIA)	"DESIGN PT TEMP °F"	FLUID TEMP °F	PUMPING ELEMENT	DRIVE TYPE	SHAFT SPEED (RPM)	WEIGHT (LBS)
1	PUMP - OIL, SMOKE SYSTEM	1010 OIL, MIL-L-6081	7	300	14.7	120	30 TO 375	GEAR	ELECTRIC MOTOR	ND	ND
2	CENTRIFUGAL PUMP	50/50 PGW OR 50/50 EGW	82	160	16	ND	185	IMPELLER	ELECTRIC MOTOR	ND	44
3	PUMP/MOTOR	55/45 ETHYLENE GLYCOL AND DEIONIZED WATER	1.5	25	14.7	104	0 TO 120	IMPELLER	ELECTRIC MOTOR	ND	ND
4	PUMP - COOLANT AC MOTOR DRIVEN	60% ETHYLENE GLYCOL, 30% WATER, 10% CORROSION INHIBITOR	2.15	90	7.5	100	-40 TO 205	IMPELLER	ELECTRIC MOTOR	ND	2.25
5	PUMP - COOLANT AC MOTOR DRIVEN	60% ETHYLENE GLYCOL, 30% WATER, 10% CORROSION INHIBITOR	2.15	90	7.5	100	-40 TO 205	IMPELLER	ELECTRIC MOTOR	ND	2.25
6	RESERVOIR/PUMP ASSY WINDSHIELD WASHER	80% ISOPROPYL ALCOHOL 20% DISTILLED WATER	0.167	30	14.7	ND	ND	IMPELLER	ELECTRIC MOTOR	ND	4.75
7	PUMP COOLANT AC MOTOR DRIVEN	COOLANOL 25R	2	150	7.5	32	-40 TO 205	GEAR	ELECTRIC MOTOR	ND	2
8	GEARBOX LUBRICATION PUMP	DOD-L-85734	3	103.3	6.4	ND	240	GEROTOR	SHAFT	6000	1.2
9	GEARBOX LUBRICATION PUMP	DOD-L-85734	6.5	95	14.7	ND	240	GEROTOR	SHAFT	6162	2.2
10	GEARBOX LUBRICATION PUMP	DOD-L-85734	6.5	103.3	6.4	ND	270	GEROTOR	SHAFT	6000	1.3
11	PUMP LUBRICATION	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	6	105.9	8.8	240	-40 TO 275	GEROTOR	SHAFT	4200	2.7
12	PUMP LUBRICATION	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	6	105.9	8.8	240	-40 TO 275	GEROTOR	SHAFT	4200	2.7
13	PUMP SCAVENGE	DOD-L-85734, MOBIL SHC 626, D-21272 DEXRON II, MIL-L-23699	7	20.9	8.8	240	-40 TO 275	GEROTOR	SHAFT	4200	1
14	PUMP COOLANT AC MOTOR DRIVEN	FC-75	1.8	200	22.3	176	-67 TO 203	GEAR	ELECTRIC MOTOR	ND	3.5
15	PUMP MAIN FUEL BOOST	JP-5, MIL-T-5624	15	40	14.7	ND	-30 TO 140	IMPELLER	ELECTRIC MOTOR	ND	ND
16	PUMP FUEL TRANSFER	JP-5, MIL-T-5624	125	25	14.7	ND	-30 TO 140	IMPELLER	ELECTRIC MOTOR	ND	ND
17	FUEL PUMP ASSEMBLY	JP-8 TURBINE FUEL IAW MIL-DTL-83133E	3.17	114.7	11	ND	-50 TO 149	GEROTOR	ELECTRIC MOTOR	ND	14
18	OIL PUMP ASSY EMERGENCY LUBE SYSTEM	LUBE OIL, DOD-L-85734	0.165	190	14.7	ND	5 TO 190	GEROTOR	ELECTRIC MOTOR	ND	4.5
19	PUMP LUBE MAIN XSMN	MIL-L-23699	1.8	100	14.7	240	-65 TO 300	GEROTOR	SHAFT	12251	ND
20	PUMP LUBRICATION	MIL-L-23699	4.2	101.3	13.4	240	ND	GEROTOR	SHAFT	4200	ND
21	PUMP LUBE MAIN XSMN	MIL-L-23699	6.5	74	14.7	240	-65 TO 300	GEROTOR	SHAFT	4391	ND
22	PUMP, LUBE/SCAVENGE & HYDRAULIC	MIL-L-23699 OIL OR DEXRON II	9	20	14.7	140	ND	GEROTOR	SHAFT	4589	ND
23	PUMP SCAVENGE	MIL-L-23699, MIL-L-7808, OR DERD 2487	0.68	30	14.7	275	-40 TO 275	GEROTOR	SHAFT	4137	0.2
24	PUMP LUBE NOSEBOX	MIL-L-7808, MIL-L-23699	2.3	50	14.7	ND	-65 TO 300	GEROTOR	SHAFT	9841	ND
25	PUMP LUBE NOSEBOX	MIL-L-7808, MIL-L-23699	2.3	50	14.7	ND	-65 TO 300	GEROTOR	SHAFT	9841	ND
26	PUMP LUBE NOSEBOX	MIL-L-7808, MIL-L-23699	2.3	50	14.7	ND	-65 TO 300	GEROTOR	SHAFT	9841	ND
27	PUMP LUBE NOSEBOX	MIL-L-7808, MIL-L-23699	2.3	50	14.7	ND	-65 TO 300	GEROTOR	SHAFT	9841	ND
28	PUMP, INTERMEDIATE GEARBOX	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	2.07	100	14.5	ND	180	GEROTOR	SHAFT	4370	0.36
29	PUMP, TAIL ROTOR GEARBOX	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	2.65	100	14.5	ND	180	GEROTOR	SHAFT	4370	0.48
30	PUMP, REDUCTION GEARBOX	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	6.94	125	14.3	ND	200	GEROTOR	SHAFT	5996	1.53
31	PUMP, MAIN ROTOR GEARBOX	OIL PER DOD-PRF-85734 OR MIL-PRF-23699	20	100	14.3	ND	200	GEROTOR	SHAFT	5,944	3.23
32	PUMP ASSEMBLY, MGB2	OIL PER MIL-PRF-7808, MIL-PRF-23699, DOD-PRF85734	44.1	187.8	7.2	ND	110	GEROTOR	SHAFT	4042	6.2
33	PUMP ASSEMBLY, MGB1	OIL PER MIL-PRF-7808, MIL-PRF-23699, DOD-PRF85734	55.7	187.8	7.2	ND	110	GEROTOR	SHAFT	6179	5.7
34	CIRCULATING PUMP	POLYALPHAOLEFIN SYNTHETIC HYDROCARBON, MIL-C-87252	18.2	120	16.7	180	-50 TO 180	GEAR	ELECTRIC MOTOR	ND	32
35	CIRULATION PUMP	POLYALPHAOLEFIN SYNTHETIC HYDROCARBON, MIL-C-87252	18.2	120	16.7	180	-50 TO 180	GEAR	ELECTRIC MOTOR	ND	32
36	PUMP BOOST	SKYDROL LD-4	2	11.4	7.1	70	-40 TO 200	GEROTOR	ELECTRIC MOTOR	ND	8.93

TCO Review #205

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