

NFPA 1901 RATING CHART

MG PUMP

RATED FROM 500 GPM @ 150PSI TO 1000 GPM @ 150 PSI
SINGLE STAGE PUMP- 8" (20,32 CM) IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF
 10 FT. (3 M) LIFT, 20 FT. (6 M) OF SUCTION HOSE & STRAINER. STANDARD TEST CONDITIONS AND MAXIMUM
 ELEVATION DO NOT INCLUDE TRUCK PIPING LOSSES.****

MG50	4 IN. HOSE, 6900 FEET (2100 M)	MG75	5 IN. HOSE, 5300 FEET (1600 M)
MG50	4-1/2 IN. HOSE, 8400 FEET (2550 M)	MG100	6 IN HOSE, 4800 FEET (1450 M)
MG75	4-1/2 IN. HOSE, 2300 FEET (700 M)		

E-997G

RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) **	HORSEPOWER REQUIRED	PUMP INPUT DRIVE SHAFT (RPM)*												HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA	SCALE NONE			
				RATIO 3.00	TORQUE (LBS-FT)	RATIO 2.67	TORQUE (LBS-FT)	RATIO 2.18	TORQUE (LBS-FT)	RATIO 1.92	TORQUE (LBS-FT)	RATIO 1.71	TORQUE (LBS-FT)	RATIO 1.27	TORQUE (LBS-FT)			RATIO 1.00	TORQUE (LBS-FT)	
500	PUMP MODEL			MG50-30	MG50-26	MG50-21	MG50-19	MG50-17	MG50-12	MG50-10							HALE COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY	DATE 01-03-95	SIZE A	
	500	150	87	1460	315	1640	280	2010	229	2280	201	2560	179	3440	134	4370				105
	500	165	98	1520	340	1710	302	2090	247	2380	217	2670	194	3590	144	4560				113
	350	200	108	1640	346	1850	307	2260	251	2570	221	2880	197	3880	146	4920				115
250	250	134	1820	387	2040	345	2500	282	2840	248	3180	222	4290	164	5440	129				
750	PUMP MODEL			MG75-30	MG75-26	MG75-21	MG75-19	MG75-17	MG75-12	MG75-10							HALE COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY	DATE 01-03-95	SIZE A	
	750	150	111	1530	381	1720	339	2100	277	2390	244	2680	217	3610	161	4580				127
	750	165	122	1590	403	1790	358	2190	292	2490	257	2790	229	3760	170	4770				134
	525	200	125	1670	393	1870	351	2300	285	2610	251	2920	225	3940	167	5000				131
375	250	147	1830	423	2060	376	2520	307	2860	271	3210	241	4330	179	5490	141				
1000	PUMP MODEL			MG100-30	MG100-26	MG100-21	MG100-19	MG100-17	MG100-12	MG100-10							HALE COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY	DATE 01-03-95	SIZE A	
	1000	150	143	1610	465	1810	414	2220	337	2520	297	2820	265	3800	197	4830				155
	1000	165	152	1660	482	1860	430	2280	351	2590	309	2910	275	3910	204	4970				161
	700	200	145	1710	444	1920	396	2350	323	2670	284	2990	254	4030	188	5110				149
500	250	162	1860	458	2090	408	2560	333	2900	294	3260	261	4390	194	5570	153				

* ENGINE SPEED MUST NOT EXCEED MFR'S MAXIMUM NO-LOAD GOVERNED SPEED.
 ** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.
 *** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY THE ENGINE SPEED, AVAILABLE HORSEPOWER, AND PUMP RATIO.
 **** TRUCK PIPING MUST BE OPTIMAL FOR PUMP TO ACHIEVE MAXIMUM ELEVATION FIGURES LISTED ABOVE.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE NOMINAL ±5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE RATING. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF THE NET HORSEPOWER CURVE.

THE PUMPING TORQUE REQUIREMENTS MIGHT EXCEED THE TRUCK'S TRANSMISSION CASE, POWER TAKE-OFF AND DRIVELINE COMPONENT LIMITS. CONTACT THE RESPECTIVE EQUIPMENT MANUFACTURER FOR THEIR APPROVAL OF THE PUMPING APPLICATION.

THIS CHART DOES NOT TAKE INTO ACCOUNT LOSSES DUE TO MANIFOLD PLUMBING.

E-997G

METRIC RATING CHART

MG PUMP

RATED FROM 2000 LPM @ 1000 kPa TO 3000 LPM @ 1000 kPa
SINGLE STAGE PUMP- 20,32 CM (8") IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF 3 M (10 FT) LIFT, 6 M (20 FT) OF SUCTION HOSE & STRAINER. STANDARD TEST CONDITIONS AND MAXIMUM ELEVATION DO NOT INCLUDE TRUCK PIPING LOSSES. ****

MG200M	100 MM HOSE, 1900 METERS (6250 FT)	MG300M	110 MM HOSE, 400 METERS (1400 FT)
MG200M	110 MM HOSE, 2500 METERS (8250 FT)	MG300M	125 MM HOSE, 1300 METERS (4400 FT)

E-997G

RATED CAPACITY (LPM)	CAPACITY (LPM)	PRESSURE (kPa) **	POWER REQUIRED (kW)	PUMP INPUT DRIVE SHAFT (RPM)*												HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA	SCALE NONE				
				RATIO 3.00	TORQUE (LBS-FT)	RATIO 2.67	TORQUE (LBS-FT)	RATIO 2.18	TORQUE (LBS-FT)	RATIO 1.92	TORQUE (LBS-FT)	RATIO 1.71	TORQUE (LBS-FT)	RATIO 1.27	TORQUE (LBS-FT)			RATIO 1.00	TORQUE (LBS-FT)		
2000	PUMP MODEL			MG200M-30	MG200M-26	MG200M-21	MG200M-19	MG200M-17	MG200M-12	MG200M-10							HALE COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY	DATE 01-03-95	SIZE A		
	2000	1000	63	1460	410	1640	365	2010	298	2280	262	2560	234	3440	174	4370				137	
	2000	1100	69	1530	432	1710	387	2100	315	2380	278	2670	248	3600	184	4570				145	
	1400	1400	76	1630	447	1830	398	2240	325	2540	287	2860	255	3840	190	4880				149	
3000	PUMP MODEL			MG300M-30	MG300M-26	MG300M-21	MG300M-19	MG300M-17	MG300M-12	MG300M-10							HALE COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY	DATE 19-Jun-14	APVD JRP		
	3000	1000	81	1540	505	1730	449	2110	368	2400	324	2690	289	3620	215	4600				169	
	3000	1100	91	1610	538	1810	479	2210	392	2510	345	2820	307	3800	228	4820				180	
	2100	1400	90	1670	513	1880	456	2300	373	2610	328	2930	293	3950	217	5010				171	
	1500	1700	107	1830	557	2050	497	2510	406	2850	358	3200	319	4310	237	5480	186				
<p>* ENGINE SPEED MUST NOT EXCEED MFR'S MAXIMUM NO-LOAD GOVERNED SPEED. ** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES. *** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY THE ENGINE SPEED, AVAILABLE HORSEPOWER, AND PUMP RATIO. **** TRUCK PIPING MUST BE OPTIMAL FOR PUMP TO ACHIEVE MAXIMUM ELEVATION FIGURES LISTED ABOVE.</p> <p>THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE NOMINAL ±5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE RATING. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF THE NET HORSEPOWER CURVE.</p> <p>THE PUMPING TORQUE REQUIREMENTS MIGHT EXCEED THE TRUCK'S TRANSMISSION CASE, POWER TAKE-OFF AND DRIVELINE COMPONENT LIMITS. CONTACT THE RESPECTIVE EQUIPMENT MANUFACTURER FOR THEIR APPROVAL OF THE PUMPING APPLICATION.</p> <p>THIS CHART DOES NOT TAKE INTO ACCOUNT LOSSES DUE TO MANIFOLD PLUMBING.</p>																		REV	DATE	BY	APVD
ECO NO.	CFL3253	F	JRH	JRP	19-Jun-14	JRH	JRP	14-Oct-14													
CHANGED FROM	ADDED INDICATOR TO 500 AND 750 RATINGS.	ADDED METRIC RATINGS	UPDATED W/ NEW DATA																		
E-997G																					