

# NFPA 1901 RATING CHART

MODEL

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## MG50

## MG75

## MG100

500 @ 150 PSI

750 @ 150 PSI

1000 @ 150 PSI

SINGLE STAGE PUMP 8" IMPELLER

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

MG50, 4 IN. HOSE, 7500 FEET  
 MG50, 4-1/2 IN. HOSE, 8600 FEET  
 MG75, 4-1/2 IN. HOSE, 2000 FEET

MG75, 5 IN. HOSE, 4500 FEET  
 MG100, 5 IN. HOSE, SEA LEVEL  
 MG100, 6 IN. HOSE, 3000 FEET

RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) **	HORSEPOWER REQUIRED	PUMP INPUT DRIVE SHAFT (RPM) *													
				3.00		2.67		2.18		1.92		1.71		1.27		1.00	
				RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)	RATIO	TORQUE (LBS-FT.)
500	PUMP MODEL			MG50-30	MG50-26	MG50-21	MG50-19	MG50-17	MG50-12	MG50-10							
	500	150	79	1430	290	1610	258	1970	210	2230	186	2510	165	3380	122	4290	97
	500	165	86	1500	301	1680	269	2060	219	2340	193	2630	172	3540	128	4490	101
	350	200	98	1610	320	1810	284	2220	232	2520	204	2830	182	3810	135	4840	106
	250	250	123	1800	358	2020	320	2470	261	2810	230	3150	205	4240	152	5390	120
750	PUMP MODEL			MG75-30	MG75-26	MG75-21	MG75-19	MG75-17	MG75-12	MG75-10							
	750	150	103	1510	358	1690	320	2070	261	2350	230	2640	205	3560	152	4520	120
	750	165	114	1570	381	1760	340	2160	277	2450	244	2750	218	3710	221	4710	127
	525	200	116	1650	369	1860	327	2280	267	2580	236	2900	210	3910	156	4960	123
	375	250	136	1820	392	2050	348	2510	284	2850	250	3200	223	4310	166	5470	131
1000	PUMP MODEL			MG100-30	MG100-26	MG100-21	MG100-19	MG100-17	MG100-12	MG100-10							
	1000	150	142	1640	455	1840	405	2250	331	2560	291	2870	260	3870	193	4910	152
	1000	165	157	1710	482	1920	429	2350	346	2670	309	3000	275	4040	204	5130	161
	700	200	137	1710	421	1930	373	2360	305	2680	268	3010	239	4050	178	5140	140
	500	250	153	1860	432	2090	384	2560	314	2910	276	3260	246	4390	183	5580	144
HIGH PRESSURE ***	60	350	178	2090	447	2350	398	2820	331	3270	286	3670	255	4950	189	6280	149
	200	300	150	1940	406	2180	361	2670	295	3030	260	3400	232	4570	172	5810	136

\* ENGINE SPEED MUST NOT EXCEED MANUFACTURER'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.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE AVERAGE FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR ENCOUNTERED FOR THE NFPA 1901 TEST. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BARMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF A NET HORSEPOWER CURVE. THE PUMPING TORQUE REQUIREMENTS MIGHT EXCEED THE ENGINE CRANKSHAFT LIMITS. CONTACT THE ENGINE MANUFACTURER FOR THEIR APPROVAL OF THE PUMPING APPLICATION.



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