

**E-1232E**

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.\*\*\*

MBP50	4 IN. HOSE, 6900 FEET (2100 M)	MBP75	5 IN. HOSE, 5300 FEET (1600 M)
MBP50	4-1/2 IN. HOSE, 8400 FEET (2550 M)	MBP100	6 IN HOSE, 4800 FEET (1450 M)
MBP75	4-1/2 IN. HOSE, 2300 FEET (700 M)		

"SILENCER SERIES" GEARBOX INPUT DRIVE SHAFT (RPM)*														HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA				HALE <small>COPYRIGHT © 2006 IDEX CORPORATION NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY</small>				SCALE NONE	
RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) **	HORSEPOWER REQUIRED	RATIO 3.74	TORQUE (LBS-FT)	RATIO 2.91	TORQUE (LBS-FT)	RATIO 2.60	TORQUE (LBS-FT)	RATIO 2.33	TORQUE (LBS-FT)	RATIO 1.64	TORQUE (LBS-FT)										
500	PUMP MODEL			MBP50-37		MBP50-29		MBP50-26		MBP50-23		MBP50-16											
	500	150	87	1170	393	1500	306	1680	273	1880	244	2660	173										
	500	165	98	1220	424	1570	329	1760	294	1960	264	2780	186										
	350	200	108	1320	430	1690	336	1900	299	2120	268	3000	189										
	250	250	134	1460	483	1870	377	2100	335	2340	301	3320	212										
750	PUMP MODEL			MBP75-37		MBP75-29		MBP75-26		MBP75-23		MBP75-16											
	750	150	111	1230	474	1580	369	1760	331	1970	296	2790	209										
	750	165	122	1280	500	1640	390	1840	348	2050	312	2910	220										
	525	200	125	1340	490	1720	382	1930	340	2150	305	3050	215										
	375	250	147	1470	527	1890	410	2120	365	2360	328	3350	231										
1000	PUMP MODEL			MBP100-37		MBP100-29		MBP100-26		MBP100-23		MBP100-16											
	1000	150	143	1290	580	1660	451	1860	402	2070	362	2940	255										
	1000	165	152	1330	601	1710	468	1910	419	2140	374	3030	264										
	700	200	145	1370	554	1760	431	1970	385	2200	345	3120	243										
	500	250	162	1490	572	1920	444	2150	396	2390	356	3400	251										
* 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.																							
ECO NO.	REV	CHANGED FROM		BY	DATE	APVD												DRAWN ERB	DATE	SIZE	SCALE		
472	B1	CHANGED 2.30 RATIO TO 2.33		MJP	11/8/2006	MAL												APRVD MAL	06-14-04	A	NONE		
472	B2	ADDED 3.74 RATIO		MM	2/2/2010	MAL																	
1007	C	FIXED THE 2.91 RATIO METRIC TORQUE VALUES		ICC	8/16/2010	PRW																	
CFL3253	D	ADDED INDUCER TO 500 AND 750 RATINGS		JRH	12-Jun-14	JRP																	
CFL3304	E	UPDATED W/ NEW DATA		JRH	9-Oct-14	JRP																	
E-1232E																							

METRIC RATING CHART

MBP "SILENCER SERIES"

BOOSTER 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. \*\*\*\*

MBP200M	100 MM HOSE, 1900 METERS (6250 FT)	MBP300M	110 MM HOSE, 400 METERS (1400 FT)
MBP200M	110 MM HOSE, 2500 METERS (8250 FT)	MBP300M	125 MM HOSE, 1300 METERS (4400 FT)

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				"SILENCER SERIES" GEARBOX INPUT DRIVE SHAFT (RPM)*												<div>HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA</div>				SCALE NONE	
RATED CAPACITY (LPM)	CAPACITY (LPM)	PRESSURE (kPa) **	POWER REQUIRED (kW)	RATIO 3.74	TORQUE (N-m)	RATIO 2.91	TORQUE (N-m)	RATIO 2.60	TORQUE (N-m)	RATIO 2.33	TORQUE (N-m)	RATIO 1.64	TORQUE (N-m)								
2000	PUMP MODEL			MBP200M-37		MBP200M-29		MBP200M-26		MBP200M-23		MBP200M-16									
	2000	1000	67	1180	540	1520	419	1700	375	1890	337	2690	237								
	2000	1100	74	1230	571	1570	448	1760	399	1970	357	2790	252								
	1400	1400	81	1320	587	1690	459	1890	410	2110	367	3000	258								
	1000	1700	101	1460	658	1880	511	2100	457	2350	409	3330	288								
3000	PUMP MODEL			MBP300M-37		MBP300M-29		MBP300M-26		MBP300M-23		MBP300M-16									
	3000	1000	86	1240	662	1590	516	1780	461	1990	412	2820	291								
	3000	1100	94	1280	702	1650	545	1840	489	2060	436	2920	308								
	2100	1400	97	1350	687	1730	536	1940	478	2160	430	3070	302								
	1500	1700	111	1480	717	1900	558	2120	500	2370	447	3360	316								