

# LS6245 - 2006 RATING CHART

## MBP LS SERIES PUMP

E-1253F

**RATED FROM 32 Liter/sec @1.03 MPa TO 50 Liter/sec @1.03 MPa**  
**SINGLE STAGE PUMP- 203 mm (8.0 inch) DIAMETER IMPELLER**

**OPERATING CONDITIONS C1 & C2:**

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE,  
 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE,  
 3 m [10 ft] LIFT, 6 m [20 ft] OF SUCTION HOSE & STRAINER<sup>1</sup>.

**OPERATING CONDITION C3:**

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE,  
 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE,  
 7 m [23 ft] LIFT, 9 m [30 ft] OF SUCTION HOSE & STRAINER<sup>1</sup>.

RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	GEARBOX INPUT DRIVE SHAFT (Rev/Min) <sup>2</sup>							
					RATIO 2.91	TORQUE (N-m)	RATIO 2.60	TORQUE (N-m)	RATIO 2.33	TORQUE (N-m)	RATIO 1.65	TORQUE (N-m)
32	PUMP MODEL				CB10/32							
					MBP32LS-29		MBP32LS-26		MBP32LS-23		MBP32LS-16	
	C1	32	1.03	68	1500	432	1680	386	1870	347	2650	245
	C2	22	1.34	84	1690	476	1890	426	2110	381	2980	270
	C3	16	1.03	57	1580	347	1770	310	1970	278	2790	197
40	PUMP MODEL				CB10/40							
					MBP40LS-29		MBP40LS-26		MBP40LS-23		MBP40LS-16	
	C1	40	1.03	75	1560	456	1750	407	1950	365	2760	258
	C2	28	1.34	86	1700	482	1900	431	2120	386	3010	272
	C3	20	1.03	60	1580	361	1770	322	1970	289	2790	204
50	PUMP MODEL				CB10/50							
					MBP50LS-29		MBP50LS-26		MBP50LS-23		MBP50LS-16	
	C1	50	1.03	90	1630	529	1820	473	2030	424	2880	299
	C2	35	1.34	95	1730	527	1940	470	2160	422	3060	298
	C3	25	1.03	66	1610	389	1800	348	2010	312	2840	221

**NOTES:**

1. SIZE OF SUCTION HOSE & STRAINER: 32 L/s: 115 mm (4.5 inch); 40 & 50 L/s: 150 mm (6 inch).
2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.

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

ECO NO.	REV	CHANGED FROM	BY	DATE	APVD	HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY						
0286	A	RELEASE TO PRODUCTION	DLM	03Jan2006	MAL							
0727	B	GB STANDARD UPDATE	RJT	23Jul2008	MAL							
0879	C	REDRAWN	RJT	08Sep2008	MAL							
0879	D	REMOVED 30 & 60 LPS RATING	JRP	30Jun2009	MAL							
3728	E	GB STANDARDS UPDATE	DLM	14Jul2016	MAL							
5448	F	GB CHANGED TO LS	KTN	17May2021	TAM	DRAWN:		CHECKED:		DATE:		Page
						DLM		MAL		08Dec2005		1 of 1



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