

FSG-CRV-01498

SINGLE STAGE PUMP- 203 mm (8.00 inch) DIAMETER IMPELLER

MBP50 4 IN. HOSE, 6400 FEET (1950 m)

MBP50 5 IN. HOSE, 9400 FEET (2860 m)

MBP50 6 IN. HOSE, 10750 FEET (3270 m)

MBP50 4-1/2 IN. HOSE, 7870 FEET (2390 m)

MBP75 5 IN. HOSE, 5610 FEET (1700 m)

MBP75 6 IN. HOSE, 8350 FEET (2540 m)

MBP75 4-1/2 IN. HOSE, 2600 FEET (790 m)

MBP100 6 IN. HOSE, 3630 FEET (1100 m)

NOTES:

1. GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.

2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.

3. 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 POWER, AND PUMP RATIO.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND POWER REQUIREMENTS SHOWN ARE NOMINAL ±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
4566	A	RELEASE TO PRODUCTION	DLM	27Sep2018	MAL
4657	B	CHANGED RATIO FROM 1.65 TO 1.64 TO MATCH OTHER FLEX DOCUMENTS	DLM	16Nov2018	MAL
4870	C	ADDED MBP60GB RATING PAGE 3 of 3	DLM	24Jul2019	MAL

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Ocala, FL 34475 USA



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DRAWN:	CHECKED:	DATE:	Page
DLM	MAL	05Mar2018	1 of 3

FSG-CRV-01498

NFPA 1901 METRIC RATING CHART

MBP FLEX SERIES PTO PUMP

FSG-CRV-01498

RATED 2000 LPM @ 1000 kPa TO 3000 LPM @ 1000 kPa
SINGLE STAGE PUMP- 203 mm (8.00 inch) DIAMETER IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF 3 m LIFT, 6 m OF SUCTION HOSE & STRAINER.
 STANDARD TEST CONDITIONS AND MAXIMUM ELEVATION DO NOT INCLUDE TRUCK PIPING LOSSES.

MBP200M 100 mm HOSE, 1710 m (5620 ft.) MBP200M 110 mm HOSE, 2240 m (7370 ft.) MBP300M 110 mm HOSE, 240 m (1140 ft.)	MBP200M 125 mm HOSE, 2780 m (9130 ft.) MBP300M 125 mm HOSE, 1380 m (4540 ft.)	MBP200M 150 mm HOSE, 3270 m (10750 ft.) MBP300M 150 mm HOSE, 2350 m (7710 ft.)
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RATED CAPACITY (LPM)	CAPACITY (LPM)	PRESSURE (kPa) ¹	POWER REQUIRED (kW)	GEARBOX INPUT DRIVE SHAFT (Rev/Min) ²															
				RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)	RATIO	TORQUE (N-m)
				3.74		2.91		2.60		2.33		1.90		1.64		1.31		1.14	
2000	PUMP MODEL			MBP200M-37F		MBP200M-29F		MBP200M-26F		MBP200M-23F		MBP200M-19F		MBP200M-16F		MBP200M-13F		MBP200M-11F	
	2000	1000	68	1130	575	1450	448	1630	398	1820	357	2230	291	2570	253	3240	200	3710	175
	2000	1100	75	1180	603	1520	468	1700	419	1890	377	2320	307	2680	266	3380	211	3870	184
	1400	1400	83	1270	627	1630	488	1830	435	2040	390	2500	318	2890	275	3630	219	4160	191
	1000	1700	105	1430	703	1840	546	2060	488	2290	439	2810	358	3250	309	4090	246	4680	215
3000	PUMP MODEL			MBP300M-37F		MBP300M-29F		MBP300M-26F		MBP300M-23F		MBP300M-19F		MBP300M-16F		MBP300M-13F		MBP300M-11F	
	3000	1000	86	1220	675	1560	528	1750	471	1950	422	2390	345	2760	298	3470	237	3980	207
	3000	1100	95	1280	709	1640	553	1840	493	2050	443	2510	362	2900	313	3650	249	4180	217
	2100	1400	93	1310	677	1680	528	1880	472	2090	424	2570	345	2970	299	3740	237	4280	207
	1500	1700	110	1450	722	1860	563	2080	503	2320	451	2840	369	3280	319	4140	253	4730	221
HIGH ³ PRESSURE	225	2331	135	1610	798	2060	624	2310	556	2570	500	3150	408	3640	353	4590	280	5250	245
	750	2100	120	1540	743	1980	578	2220	516	2470	464	3030	378	3500	327	4410	260	5040	227

NOTES:

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DRAWN:	CHECKED:	DATE:	Page	
DLM	MAL	05Mar2018	2 of 3	FSG-CRV-01498

FSG-CRV-01498

SINGLE STAGE PUMP- 203 mm (8.00 inch) DIAMETER IMPELLER

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 & STRAINER¹.

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 & STRAINER¹.

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