

LS6245 - 2006 RATING CHART

TBP LS SERIES PUMP

FSG-CRV-01476

RATED FROM 32 Liter/sec @1.03 MPa TO 47 Liter/sec @1.03 MPa
TWO STAGE PUMP- 190 mm (7.5 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 & STRAINER¹.

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 & STRAINER¹.

*V & *P PUMP OPERATING CONDITION:

*V PUMP OPERATED WITH TRANSFER VALVE IN VOLUME POSITION (PARALLEL) PUMP OPERATION.

*P PUMP OPERATED WITH TRANSFER VALVE IN PRESSURE POSITION (SERIES) PUMP OPERATION.


RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	GEARBOX INPUT DRIVE SHAFT (Rev/Min) ²							
					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				CB10/31							
					TBP32LS-29		TBP32LS-26		TBP32LS-23		TBP32LS-16	
	C1*V	32	1.03	71	1640	412	1840	368	2050	330	2900	233
	C2*V	22	1.34	88	1820	462	2040	412	2280	369	3230	260
	C3*V	16	1.03	56	1590	336	1780	300	1980	270	2810	190
47	PUMP MODEL				CB10/47							
					TBP47LS-29		TBP47LS-26		TBP47LS-23		TBP47LS-16	
	C1*V	47	1.03	100	1740	548	1950	489	2170	440	3080	310
	C2*P	33	1.34	96	1620	567	1810	507	2020	455	2860	321
	C3*V	23.5	1.03	66	1620	387	1820	344	2030	309	2870	218
MIDDLE PRESSURE ³												
19	PUMP MODEL				CB28/19							
	C1*P	19	2.80	110	1840	573	2070	509	2300	458	3260	323
	C3*P	9.5	2.80	86	1790	457	2010	407	2240	366	3170	258

NOTES:

1. SIZE OF SUCTION HOSE & STRAINER: 32 L/s: 115 mm (4.5 inch); 47 L/s: 125 mm (5 inch).
2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.
3. THE PUMP IS CAPABLE OF THE MIDDLE PRESSURE PERFORMANCE SHOWN. HOWEVER, PUMP IS NOT CAPABLE OF SIMULTANEOUS MIDDLE AND NORMAL PRESSURE OPERATION. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY 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	<div>HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34475 USA</div> <div></div> <div>COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY</div>				
3728	A	INITIAL RELEASE	DLM	25Jul2016	MAL					
5448	B	GB CHANGED TO LS	KTN	17May2021	TAM					
						DRAWN: DLM	CHECKED: MAL	DATE: 25Jul2016	Page 1 of 1	FSG-CRV-01476