# **FSG-CRV-01486**

### **LS6245 - 2006 RATING CHART**

## 80FCK SERIES PUMP WITH "CK" GEARBOX

RATED FROM 90 Liter/sec @1.03 MPa TO 170 Liter/sec @1.03 MPa SINGLE STAGE PUMP- 318 mm (12.5 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 150 mm [6 inch] 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 150 mm [6 inch] SUCTION HOSE & STRAINER<sup>1</sup>.

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	NG ON	≻ (C)	ZE_	s ED	PUMP INPUT DRIVE SHAFT (Rev/Min) <sup>2</sup>									
RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	RATIO	TORQUE (N-m)								
RA AP, TEI	ER N	AP.	(RES	Q S X		<b>8</b>								
O $\Box$	P 2	οΞ	P.	_ &	1.75	<b>0</b>								
	PUMP MODEL				CB10/90									
					80FCK90LS-17									
90	C1	90	1.03	170	1520	1068								
	C2	63	1.34	211	1740	1158								
	C3	45	1.03	147	1650	850								
	PUMP MODEL				CB10/110									
						10LS-17								
110	C1	110	1.03	188	1550	1158								
	C2	77	1.34	227	1760	1230								
	C3	55	1.03	154	1650	889								
	PUMP MODEL				CB10/130									
400					30LS-17						Т			
130	C1	130	1.03	206	1570	1252								
	C2	91	1.34	240	1760	1303								
	C3	65	1.03	161	1670	921								
	PUMP MODEL				CB10/150 80FCK150LS-17									
450											1		Γ	
150	C1	150	1.03	227	1600	1353								
	C2	105	1.34	253	1760	1372								
	C3	75	1.03	177	1680	1009			004	0/470				
	PUMP MODEL				CB10/170 80FCK170LS-17									
170				0.50								1		<u> </u>
170	C1	170	1.03	256	1640	1489								
	C2	119	1.34	271	1770	1460								
	C3	85	1.03	195	1690	1104								

#### NOTES:

- 1. NUMBER OF SUCTION HOSES & STRAINERS: 90 L/s (1) HOSE; 110 & 130 L/s (2) HOSES; 150 & 170 L/s (3) HOSES.
- 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 ±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.

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