GB6245 - 2006 RATING CHART

DSD GB SERIES PUMP

FSG-CRV-01477

RATED FROM 47 Liter/sec @1.03 MPa TO 100 Liter/sec @1.03 MPa

SINGLE STAGE PUMP- 260 mm (10.25 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[1].

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[1].

RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	"L" or "R" GEARBOX INPUT DRIVE SHAFT (Rev/Min)[2]									
					RATIO 2.28	TORQUE (N-m)	RATIO 2.05	TORQUE (N-m)	RATIO 1.86	TORQUE (N-m)	RATIO 1.71	TORQUE (N-m)	RATIO 1.58	TORQUE (N-m)
47	PUMP MODEL				CB10/47									
					DSD47GB-23		DSD47GB-21		DSD47GB-19		DSD47GB-17		DSD47GB-15	
	C1	47	1.03	88	1450	579	1610	522	1770	475	1930	435	2090	402
	C2	33	1.34	101	1600	601	1780	540	1960	490	2140	449	2310	416
	C3	23.5	1.03	68	1490	435	1660	390	1830	354	1990	326	2160	300
60	PUMP MODEL				CB10/60									
					DSD60GB-23		DSD60GB-21		DSD60GB-19		DSD60GB-17		DSD60GB-15	
	C1	60	1.03	101	1460	658	1620	593	1780	540	1950	493	2110	456
	C2	42	1.34	108	1610	641	1790	577	1970	524	2150	480	2330	443
	C3	30	1.03	73	1500	465	1660	420	1830	381	2000	349	2160	323
80	PUMP MODEL				CB10/80									
					DSD80GB-23		DSD80GB-21		DSD80GB-19		DSD80GB-17		DSD80GB-15	
	C1	80	1.03	130	1540	809	1710	729	1880	663	2050	608	2230	559
	C2	56	1.34	128	1630	751	1820	673	2000	612	2180	562	2360	519
	C3	40	1.03	84	1500	536	1670	482	1830	440	2000	402	2170	371
90	PUMP MODEL				CB10/90									
					DSD90GB-23		DSD90GB-21		DSD90GB-19		DSD90GB-17		DSD90GB-15	
	C1	90	1.03	149	1590	896	1770	805	1940	734	2120	672	2300	619
	C2	63	1.34	149	1640	868	1820	782	2000	712	2190	650	2370	601
	C3	45	1.03	94	1530	586	1700	528	1880	477	2050	438	2220	404
100	PUMP MODEL				CB10/100									
					DSD100GB-23		DSD100GB-21		DSD100GB-19		DSD100GB-17		DSD100GB-15	
	C1	100	1.03	171	1620	1007	1800	906	1980	824	2160	755	2340	697
	C2	70	1.34	160	1650	928	1830	837	2010	762	2190	699	2380	643
	C3	50	1.03	96	1510	608	1680	547	1850	497	2020	455	2190	419
MIDDLE PRESSURE[3]														
13	PUMP MODEL				CB21/13									
	C1	13	2.07	153	2000	730	2220	658	2440	598	2660	549	2890	505
	C3	6.5	2.07	133	2130	595	2360	537	2600	487	2840	446	3070	413

NOTES:

1. NUMBER & SIZE OF SUCTION HOSES & STRAINERS: 47 L/s (1) 115 mm [4.5 inch] HOSE; 60, 80 & 90 L/s (1) 150 mm [6 inch] HOSE; 100 L/s (2) 150 mm [6 inch] HOSES.
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.

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RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	"X" GEARBOX INPUT DRIVE SHAFT (Rev/Min)[2]									
					RATIO 2.83	TORQUE (N-m)	RATIO 2.55	TORQUE (N-m)	RATIO 2.32	TORQUE (N-m)	RATIO 2.13	TORQUE (N-m)	RATIO 1.96	TORQUE (N-m)
47	PUMP MODEL				CB10/47									
					DSD47GB-23X		DSD47GB-21X		DSD47GB-19X		DSD47GB-17X		DSD47GB-15X	
	C1	47	1.03	88	1160	724	1290	651	1420	592	1550	542	1680	500
	C2	33	1.34	101	1290	745	1430	672	1570	612	1720	559	1860	517
	C3	23.5	1.03	68	1200	540	1340	484	1470	441	1600	405	1740	372
60	PUMP MODEL				CB10/60									
					DSD60GB-23X		DSD60GB-21X		DSD60GB-19X		DSD60GB-17X		DSD60GB-15X	
	C1	60	1.03	101	1170	822	1300	739	1430	672	1560	616	1690	569
	C2	42	1.34	108	1300	794	1440	717	1590	649	1730	597	1870	552
	C3	30	1.03	73	1200	582	1340	521	1470	475	1600	436	1740	401
80	PUMP MODEL				CB10/80									
					DSD80GB-23X		DSD80GB-21X		DSD80GB-19X		DSD80GB-17X		DSD80GB-15X	
	C1	80	1.03	130	1240	1005	1380	903	1510	825	1650	755	1790	696
	C2	56	1.34	128	1310	935	1460	839	1610	761	1750	700	1900	645
	C3	40	1.03	84	1210	665	1340	600	1470	547	1610	500	1740	462
90	PUMP MODEL				CB10/90									
					DSD90GB-23X		DSD90GB-21X		DSD90GB-19X		DSD90GB-17X		DSD90GB-15X	
	C1	90	1.03	149	1280	1113	1420	1003	1560	913	1700	838	1850	770
	C2	63	1.34	149	1320	1079	1460	975	1610	885	1760	809	1900	750
	C3	45	1.03	94	1230	729	1370	655	1510	594	1640	547	1780	504
100	PUMP MODEL				CB10/100									
					DSD100GB-23X		DSD100GB-21X		DSD100GB-19X		DSD100GB-17X		DSD100GB-15X	
	C1	100	1.03	171	1300	1254	1450	1125	1590	1026	1730	943	1880	867
	C2	70	1.34	160	1320	1160	1470	1041	1620	945	1760	870	1910	802
	C3	50	1.03	96	1220	753	1350	680	1490	616	1620	567	1760	522
MIDDLE PRESSURE[3]														
13	PUMP MODEL				CB21/13									
	C1	13	2.07	153	1610	907	1790	815	1960	745	2140	682	2320	629
	C3	6.5	2.07	133	1710	741	1900	667	2090	606	2280	556	2470	513

NOTES:

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