

GB6245 - 2006 RATING CHART

8FGR GB SERIES PUMP

FSG-CRV-01478

**RATED FROM 90 Liter/sec @1.03 MPa TO 170 Liter/sec @1.03 MPa
SINGLE STAGE PUMP- 330 mm (13.0 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 150 mm [6 inch] 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 150 mm [6 inch] SUCTION HOSE & STRAINER¹.

RATED CAPACITY (LITER/SEC)	OPERATING CONDITION	CAPACITY (LITER/SEC)	PRESSURE (MPa)	POWER REQUIRED (kW)	"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)
90	PUMP MODEL				CB10/90									
					8FGR90GB-23R		8FGR90GB-21R		8FGR90GB-19R		8FGR90GB-17R		8FGR90GB-15R	
	C1	90	1.03	147	1140	1231	1260	1113	1390	1009	1520	923	1640	855
	C2	63	1.34	168	1260	1272	1400	1144	1540	1040	1680	954	1820	880
	C3	45	1.03	116	1120	985	1250	883	1370	806	1500	736	1620	681
110	PUMP MODEL				CB10/110									
					8FGR110GB-23R		8FGR110GB-21R		8FGR110GB-19R		8FGR110GB-17R		8FGR110GB-15R	
	C1	110	1.03	164	1150	1362	1280	1224	1410	1111	1540	1017	1670	938
	C2	77	1.34	184	1270	1385	1410	1247	1550	1135	1690	1041	1830	961
	C3	55	1.03	123	1130	1040	1260	932	1380	851	1510	778	1640	716
130	PUMP MODEL				CB10/130									
					8FGR130GB-23R		8FGR130GB-21R		8FGR130GB-19R		8FGR130GB-17R		8FGR130GB-15R	
	C1	130	1.03	190	1190	1526	1320	1376	1450	1252	1580	1149	1720	1056
	C2	91	1.34	201	1290	1490	1430	1344	1570	1225	1710	1124	1860	1034
	C3	65	1.03	136	1170	1108	1300	997	1430	906	1560	831	1690	767
150	PUMP MODEL				CB10/150									
					8FGR150GB-23R		8FGR150GB-21R		8FGR150GB-19R		8FGR150GB-17R		8FGR150GB-15R	
	C1	150	1.03	220	1220	1722	1360	1545	1490	1410	1630	1289	1760	1194
	C2	105	1.34	220	1290	1628	1440	1459	1580	1329	1720	1221	1870	1123
	C3	75	1.03	145	1230	1129	1370	1014	1510	920	1640	847	1780	780
170	PUMP MODEL				CB10/170									
					8FGR170GB-23R		8FGR170GB-21R		8FGR170GB-19R		8FGR170GB-17R		8FGR170GB-15R	
	C1	170	1.03	254	1270	1906	1410	1717	1550	1562	1690	1433	1830	1323
	C2	119	1.34	235	1310	1712	1450	1547	1600	1402	1740	1289	1890	1187
	C3	85	1.03	157	1250	1196	1390	1076	1530	977	1670	895	1810	826

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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DLM		MAL		26Jul2016		1 of 2					

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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)
90	PUMP MODEL				CB10/90									
					8FGR90GB-28X		8FGR90GB-25X		8FGR90GB-23X		8FGR90GB-21X		8FGR90GB-19X	
	C1	90	1.03	147	910	1542	1020	1375	1120	1252	1220	1150	1320	1063
	C2	63	1.34	168	1010	1586	1120	1430	1240	1292	1350	1187	1460	1097
	C3	45	1.03	116	900	1226	1000	1104	1110	994	1210	912	1310	843
110	PUMP MODEL				CB10/110									
					8FGR110GB-28X		8FGR110GB-25X		8FGR110GB-23X		8FGR110GB-21X		8FGR110GB-19X	
	C1	110	1.03	164	930	1684	1030	1521	1130	1386	1240	1263	1340	1169
	C2	77	1.34	184	1020	1724	1130	1556	1240	1418	1360	1293	1470	1196
	C3	55	1.03	123	910	1291	1010	1163	1110	1058	1210	971	1320	890
130	PUMP MODEL				CB10/130									
					8FGR130GB-28X		8FGR130GB-25X		8FGR130GB-23X		8FGR130GB-21X		8FGR130GB-19X	
	C1	130	1.03	190	950	1911	1060	1713	1170	1552	1270	1430	1380	1316
	C2	91	1.34	201	1030	1867	1150	1672	1260	1526	1380	1393	1490	1290
	C3	65	1.03	136	940	1379	1050	1234	1150	1127	1250	1037	1360	953
150	PUMP MODEL				CB10/150									
					8FGR150GB-28X		8FGR150GB-25X		8FGR150GB-23X		8FGR150GB-21X		8FGR150GB-19X	
	C1	150	1.03	220	980	2143	1090	1927	1200	1751	1310	1604	1420	1479
	C2	105	1.34	220	1040	2020	1150	1827	1270	1654	1380	1522	1500	1400
	C3	75	1.03	145	990	1403	1100	1262	1210	1148	1320	1052	1430	971
170	PUMP MODEL				CB10/170									
					8FGR170GB-28X		8FGR170GB-25X		8FGR170GB-23X		8FGR170GB-21X		8FGR170GB-19X	
	C1	170	1.03	254	1020	2374	1130	2143	1240	1952	1360	1780	1470	1647
	C2	119	1.34	235	1050	2136	1170	1917	1280	1752	1400	1602	1520	1476
	C3	85	1.03	157	1010	1481	1120	1335	1230	1216	1340	1116	1460	1024

NOTES:

1. NUMBER OF SUCTION HOSES & STRAINERS: 90 L/s (1) HOSE; 110 & 130 L/s (2) HOSES; 150 & 170 L/s (3) HOSES.
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						DLM	MAL	26Jul2016	2 of 2		