GB6245 - 2006 RATING CHART

QTWO GB SERIES PUMP

RATED FROM 65 Liter/sec @1.03 MPa TO 125 Liter/sec @1.03 Mpa

TWO STAGE PUMP- 267 mm (10.5 inch) DIAMETER IMPELLER

FSG-CRV-01481

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[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 150 mm [6 inch] SUCTION HOSE & STRAINER[1].

***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)	"LK" or "XK" GEARBOX INPUT DRIVE SHAFT (Rev/Min)[2]											
					RATIO 2.52	TORQUE (N-m)	RATIO 2.30	TORQUE (N-m)	RATIO 2.04	TORQUE (N-m)	RATIO 1.89	TORQUE (N-m)	RATIO 1.71	TORQUE (N-m)	RATIO 1.61	TORQUE (N-m)
	PUMP MODEL				CB10/65											
65					QTWO65GB-25		QTWO65GB-23		QTWO65GB-21		QTWO65GB-19		QTWO65GB-17		QTWO65GB-16	
	C1*V	65	1.03	122	1280	907	1400	829	1580	735	1710	679	1890	614	2010	577
	C2*P	45	1.34	109	1160	896	1270	819	1430	727	1540	675	1710	608	1820	571
	C3*V	32.5	1.03	92	1290	684	1410	626	1600	552	1720	513	1910	462	2030	435
	PUMP MODEL				CB10/80											
80					QTWO80GB-25		QTWO80GB-23		QTWO80GB-21		QTWO80GB-19		QTWO80GB-17		QTWO80GB-16	
	C1*V	80	1.03	139	1300	1024	1430	931	1610	827	1740	765	1920	694	2050	650
	C2*P	56	1.34	142	1240	1091	1360	995	1530	884	1650	820	1830	739	1950	694
	C3*V	40	1.03	100	1300	734	1420	672	1600	596	1730	552	1910	500	2040	468
	PUMP MODEL				CB10/95											
95					QTWO95GB-25		QTWO95GB-23		QTWO95GB-21		QTWO95GB-19		QTWO95GB-17		QTWO95GB-16	
	C1*V	95	1.03	162	1320	1171	1450	1066	1640	942	1760	878	1950	792	2080	743
	C2*V	67	1.34	163	1410	1106	1550	1006	1750	891	1880	829	2080	750	2220	702
	C3*V	47.5	1.03	116	1310	843	1430	772	1620	681	1740	634	1930	572	2050	538
	PUMP MODEL				CB10/110											
110					QTWO110GB-25		QTWO110GB-23		QTWO110GB-21		QTWO110GB-19		QTWO110GB-17		QTWO110GB-16	
	C1*V	110	1.03	180	1340	1286	1470	1172	1660	1038	1790	963	1980	870	2110	817
	C2*V	77	1.34	174	1430	1165	1570	1061	1770	941	1910	872	2110	790	2250	741
	C3*V	55	1.03	123	1310	897	1440	816	1630	721	1750	671	1940	606	2060	570
	PUMP MODEL				CB10/125											
125					QTWO125GB-25		QTWO125GB-23		QTWO125GB-21		QTWO125GB-19		QTWO125GB-17		QTWO125GB-16	
	C1*V	125	1.03	207	1390	1424	1520	1302	1720	1151	1850	1070	2050	966	2180	908
	C2*V	88	1.34	194	1450	1277	1590	1164	1800	1029	1940	954	2140	865	2280	812
	C3*V	62.5	1.03	131	1340	935	1470	853	1660	755	1790	700	1980	633	2110	594
	MIDDLE PRESSURE[3]															
	PUMP MODEL				CB30/13											
13	C1*P	13	3.00	157	1470	1017	1610	929	1820	822	1960	763	2170	689	2310	647
	C3*P	6.5	3.00	144	1460	941	1600	859	1810	759	1950	705	2160	636	2300	598
	HIGH PRESSURE[3]															
	PUMP MODEL				CB41/4											
4	C1*P	4	4.14	215	1720	1192	1880	1091	2130	963	2290	896	2530	811	2700	760
	C3*P	2	4.14	210	1720	1167	1880	1068	2130	943	2290	877	2530	794	2700	744

HALE PRODUCTS, INC.
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SCALE: NONE | SIZE A | DATE: 01AUG2016 | DRAWN DLM | CHECKED MAL

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3278	A	DLM	01Aug2016	INITIAL RELEASE

APVD MAL

NOTES:

1. NUMBER OF SUCTION HOSES & STRAINERS: 65 & 80 L/s: (1) HOSE; 95, 110 & 125 L/s: (2) HOSES.
2. SPEED MUST NOT EXCEED ENGINE MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.
3. THE PUMP IS CAPABLE OF THE MIDDLE PRESSURE AND HIGH PRESSURE PERFORMANCE SHOWN. HOWEVER, PUMP IS NOT CAPABLE OF EITHER SIMULTANEOUS MIDDLE AND NORMAL PRESSURE OR HIGH 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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