

GB6245 - 2006 RATING CHART

QMAX GB SERIES PUMP

E-1247B

RATED FROM 60 Liter/sec @1.03 MPa TO 130 Liter/sec @1.03 MPa
SINGLE STAGE PUMP- 267 mm (10.5 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 & 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)	"L" or "S" GEARBOX INPUT DRIVE SHAFT (Rev/Min) ²										HALE PRODUCTS, INC. A Unit of IDEX Corporation OCALA, FL 34475 USA	SCALE: NONE
					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)		
60	PUMP MODEL				CB10/60										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	SIZE: A DATE: 08DEC2005
					QMAX60GB-23		QMAX60GB-21		QMAX60GB-19		QMAX60GB-17		QMAX60GB-15			
	C1	60	1.03	98	1330	701	1480	630	1630	572	1770	527	1920	486		
	C2	42	1.34	114	1480	736	1650	660	1810	602	1980	550	2140	509		
C3	30	1.03	67	1320	486	1460	439	1610	398	1760	364	1900	337			
80	PUMP MODEL				CB10/80										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	DLN: CHECKED
					QMAX80GB-23		QMAX80GB-21		QMAX80GB-19		QMAX80GB-17		QMAX80GB-15			
	C1	80	1.03	122	1350	860	1510	769	1660	699	1810	641	1960	592		
	C2	56	1.34	130	1520	815	1690	733	1860	666	2030	610	2200	563		
C3	40	1.03	81	1330	584	1480	524	1630	476	1770	439	1920	404			
100	PUMP MODEL				CB10/100										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	APVD: MAL
					QMAX100GB-23		QMAX100GB-21		QMAX100GB-19		QMAX100GB-17		QMAX100GB-15			
	C1	100	1.03	159	1400	1083	1560	972	1710	887	1870	811	2020	751		
	C2	70	1.34	149	1530	931	1700	838	1870	762	2040	698	2210	644		
C3	50	1.03	97	1340	691	1490	621	1640	564	1780	520	1930	480			
120	PUMP MODEL				CB10/120										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	DATE: 03Jan2006
					QMAX120GB-23		QMAX120GB-21		QMAX120GB-19		QMAX120GB-17		QMAX120GB-15			
	C1	120	1.03	182	1480	1174	1640	1059	1800	965	1970	882	2130	816		
	C2	84	1.34	172	1560	1050	1730	947	1900	862	2080	787	2250	728		
C3	60	1.03	107	1380	743	1530	670	1680	610	1840	557	1990	515			
130	PUMP MODEL				CB10/130										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	DATE: 27Jun2016
					QMAX130GB-23		QMAX130GB-21		QMAX130GB-19		QMAX130GB-17		QMAX130GB-15			
	C1	130	1.03	200	1520	1255	1690	1129	1860	1026	2030	940	2200	867		
	C2	91	1.34	179	1580	1082	1750	977	1930	885	2100	814	2280	750		
C3	65	1.03	116	1410	783	1570	703	1720	642	1880	587	2040	541			
MIDDLE PRESSURE³																
13	PUMP MODEL				CB24/13										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	RELEASE TO PRODUCTION
					1990	912	2210	822	2430	747	2650	685	2870	633		
	C3	6.5	2.41	181	1990	870	2210	783	2430	712	2650	653	2870	603		
4	PUMP MODEL				CB28/4										 COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS	GB STANDARD UPDATE
					2040	970	2260	876	2490	795	2720	728	2940	673		
	C3	2	2.76	205	2090	937	2330	840	2560	765	2790	702	3030	646		

NOTES:

1. NUMBER OF SUCTION HOSES & STRAINERS: 60, 80, & 100 (1) HOSE; 120 & 130 (2) 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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 758.0 mm-Hg [29.84 in-Hg] ATMOSPHERIC PRESSURE, 20 °C [68 °F] WATER TEMPERATURE,
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OPERATING CONDITION C3:

THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF SEA LEVEL ALTITUDE,
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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										HALE PRODUCTS, INC. A Unit of IDEX Corporation OCALA, FL 34475 USA	SCALE: NONE
					2.83	TORQUE (N·m)	2.55	TORQUE (N·m)	2.32	TORQUE (N·m)	2.13	TORQUE (N·m)	1.96	TORQUE (N·m)		
60	PUMP MODEL				CB10/60											COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR DOCUMENTS
					QMAX60GB-28X		QMAX60GB-25X		QMAX60GB-23X		QMAX60GB-21X		QMAX60GB-19X			
	C1	60	1.03	98	1070	872	1190	784	1310	712	1430	652	1540	606		
	C2	42	1.34	114	1190	916	1330	819	1460	746	1590	685	1720	633		
	C3	30	1.03	67	1060	605	1180	543	1290	497	1410	455	1530	419		
80	PUMP MODEL				CB10/80										DATE: 08DEC2005	
					QMAX80GB-28X		QMAX80GB-25X		QMAX80GB-23X		QMAX80GB-21X		QMAX80GB-19X			
	C1	80	1.03	122	1090	1065	1210	959	1330	873	1450	800	1570	739		
	C2	56	1.34	130	1220	1016	1360	911	1500	826	1630	760	1770	700		
	C3	40	1.03	81	1070	725	1190	652	1310	592	1430	543	1540	504		
100	PUMP MODEL				CB10/100										DATE: 03Jan2006	
					QMAX100GB-28X		QMAX100GB-25X		QMAX100GB-23X		QMAX100GB-21X		QMAX100GB-19X			
	C1	100	1.03	159	1130	1342	1250	1213	1380	1099	1500	1011	1630	930		
	C2	70	1.34	149	1230	1158	1370	1040	1510	943	1640	868	1780	800		
	C3	50	1.03	97	1080	857	1200	771	1310	707	1430	647	1550	597		
120	PUMP MODEL				CB10/120										DATE: 27Jun2016	
					QMAX120GB-28X		QMAX120GB-25X		QMAX120GB-23X		QMAX120GB-21X		QMAX120GB-19X			
	C1	120	1.03	182	1190	1460	1320	1316	1450	1198	1580	1100	1710	1016		
	C2	84	1.34	172	1250	1310	1390	1178	1530	1070	1670	981	1810	905		
	C3	60	1.03	107	1110	924	1230	834	1350	760	1480	693	1600	641		
130	PUMP MODEL				CB10/130										DATE: 3728	
					QMAX130GB-28X		QMAX130GB-25X		QMAX130GB-23X		QMAX130GB-21X		QMAX130GB-19X			
	C1	130	1.03	200	1220	1564	1360	1403	1500	1272	1630	1171	1770	1078		
	C2	91	1.34	179	1270	1346	1410	1212	1550	1103	1690	1011	1830	934		
	C3	65	1.03	116	1130	977	1260	876	1380	800	1510	731	1640	673		
13	PUMP MODEL				MIDDLE PRESSURE³										DATE: 3728	
					CB24/13											
	C1	13	2.41	190	1600	1135	1780	1020	1960	926	2130	852	2310	786		
	C3	6.5	2.41	181	1600	1081	1780	972	1960	883	2130	812	2310	749		
	4	PUMP MODEL				CB28/4										DATE: 3728
C1		4	2.76	207	1640	1207	1820	1088	2000	990	2180	908	2370	835		
C3		2	2.76	205	1680	1166	1870	1047	2060	951	2250	870	2430	806		

NOTES:

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