



# NFPA 1901 RATING CHART

## QMAX/QMAX<sup>XS</sup> MIDSHIP PUMP WITH "XLG" GEARBOX

RATED FROM 1000 GPM @ 150 PSI TO 2250 GPM @ 150 PSI

SINGLE STAGE PUMP- 10.50" IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF 10 FT LIFT, 20 FT OF SUCTION HOSE & STRAINER. STANDARD TEST CONDITIONS AND MAXIMUM ELEVATION DO NOT INCLUDE TRUCK PIPING LOSSES.

QMAX/QMAX<sup>XS</sup>100 5 IN. HOSE, 7500 FEET (2285 M) QMAX/QMAX<sup>XS</sup>150 6 IN. HOSE, 3000 FEET (915 M)  
 QMAX/QMAX<sup>XS</sup>100 6 IN. HOSE, 12500 FEET (3810 M) QMAX/QMAX<sup>XS</sup>150 (2) 6 IN. HOSE, 9000 FEET (2740 M)  
 QMAX/QMAX<sup>XS</sup>125 6 IN. HOSE, 7500 FEET (2285 M)

MAXIMUM ELEVATION AT WHICH THE PUMP WILL PERFORM THE RATING WITH STANDARD TEST CONDITIONS OF 8 FT LIFT (QMAX175) - 6 FT LIFT (QMAX200 & QMAX225), 20 FT OF SUCTION HOSE & STRAINER. STANDARD TEST CONDITIONS AND MAXIMUM ELEVATION DO NOT INCLUDE TRUCK PIPING LOSSES.

QMAX/QMAX<sup>XS</sup>175 (2) 6 IN. HOSE, 8000 FEET (2440 M) QMAX/QMAX<sup>XS</sup>225 (3) 6 IN. HOSE, 7000 FEET (2130 M)  
 QMAX/QMAX<sup>XS</sup>200 (2) 6 IN. HOSE, 7000 FEET (2130 M)

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RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) **	HORSEPOWER REQUIRED	PUMP INPUT DRIVE SHAFT (RPM)*										HALE PRODUCTS, INC. A Unit of IDEX Corporation Ocala, FL 34474 USA	SCALE NONE
				RATIO 2.83	TORQUE (LBS-FT)	RATIO 2.55	TORQUE (LBS-FT)	RATIO 2.32	TORQUE (LBS-FT)	RATIO 2.13	TORQUE (LBS-FT)	RATIO 1.96	TORQUE (LBS-FT)		
1000	PUMP MODEL			QMAX100-28		QMAX100-25		QMAX100-23		QMAX100-21		QMAX100-19		HALE COPY/RIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR FACSIMILES	SIZE A
	1000	150	127	1160	575	1280	521	1410	473	1540	433	1670	399		
	1000	165	141	1200	616	1330	556	1460	506	1590	465	1720	430		
	700	200	142	1260	591	1400	532	1540	484	1680	443	1820	409		
1250	PUMP MODEL			QMAX125-28		QMAX125-25		QMAX125-23		QMAX125-21		QMAX125-19		DATE 01/20/1998	
	1250	150	152	1160	688	1280	624	1410	566	1540	518	1670	478		
	1250	165	166	1200	728	1330	657	1460	598	1590	549	1720	508		
	875	200	159	1260	663	1400	597	1540	543	1680	497	1820	459		
1500	PUMP MODEL			QMAX150-28		QMAX150-25		QMAX150-23		QMAX150-21		QMAX150-19		AP/VD	
	1500	150	186	1210	806	1340	728	1470	663	1600	609	1740	560		
	1500	165	203	1250	853	1380	773	1520	701	1650	646	1800	592		
	1050	200	180	1290	731	1430	659	1570	601	1710	551	1860	507		
1750	PUMP MODEL			QMAX175-28		QMAX175-25		QMAX175-23		QMAX175-21		QMAX175-19		DATE 6/4/2012	
	1750	150	205	1220	883	1350	798	1490	723	1620	665	1760	612		
	1750	165	226	1270	934	1410	842	1550	766	1690	702	1830	648		
	1225	200	196	1290	797	1430	719	1570	655	1710	601	1860	553		
2000	PUMP MODEL			QMAX200-28		QMAX200-25		QMAX200-23		QMAX200-21		QMAX200-19		BY JRP	
	2000	150	240	1260	999	1400	899	1540	817	1680	749	1820	692		
	2000	165	262	1300	1059	1440	956	1590	866	1730	796	1880	732		
	1400	200	217	1300	878	1440	792	1590	718	1730	660	1880	607		
2250	PUMP MODEL			QMAX225-28		QMAX225-25		QMAX225-23		QMAX225-21		QMAX225-19		CHANGED FROM REDRAWN; ADDED QMAX-XS	
	2250	150	286	1330	1128	1470	1020	1620	926	1760	852	1910	785		
	2250	165	298	1380	1134	1530	1022	1680	931	1830	855	1980	790		
	1575	200	250	1350	972	1500	875	1650	795	1790	733	1950	673		
HIGH PRESSURE ***	PUMP MODEL			QMAX200-28		QMAX200-25		QMAX200-23		QMAX200-21		QMAX200-19		APPROV RET	
	200	350	210	1610	685	1790	617	1970	560	2140	516	2330	474		
	60	400	250	1720	642	1910	578	2090	528	2280	484	2480	445		

\* ENGINE SPEED MUST NOT EXCEED MFR'S MAXIMUM NO-LOAD GOVERNED SPEED.  
 \*\* GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.  
 \*\*\* THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY THE ENGINE SPEED, AVAILABLE HORSEPOWER, AND PUMP RATIO.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE NOMINAL ±5% FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE RATING. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF THE NET HORSEPOWER CURVE.

FOR ROAD OPERATION, ENGINE TORQUE ON PUMP DRIVE LINE SHOULD BE CHECKED PER HALE FORM F-72. 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.

\*\*\*\*PUMP IS CAPABLE OF MAXIMUM ELEVATION LISTED WITH SPECIFIC CONFIGURATION AND ACCESSORIES.

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