

NFPA 1901 RATING CHART QMID SERIES PUMP

RATED FROM 1000 GPM @ 150 PSI TO 1250 GPM @ 150 PSI
SINGLE STAGE PUMP - 10-1/2" IMPELLER

MAXIMUM ELEVATION AT WHICH THE PUMP WILL DO THE RATING WITH
STANDARD TEST CONDITIONS OF 10 FT. LIFT, 20 FT. OF SUCTION
HOSE & STRAINER.

QMID100 5 IN. HOSE, 7500 FEET
QMID100 6 IN. HOSE, 12500 FEET
QMID125 6 IN. HOSE, 7500 FEET

RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) ***	HORSEPOWER REQUIRED	"L OR S" GEARBOX INPUT DRIVE SHAFT (RPM)*				
				RATIO	RATIO	RATIO	RATIO	RATIO
				2.28	2.05	1.86	1.71	1.58
1000	PUMP MODEL			QMID100-23	QMID100-21	QMID100-19	QMID100-17	QMID100-15
	1000	150	127	1410	1570	1730	1880	2030
	1000	165	141	1460	1620	1790	1940	2100
	700	200	142	1570	1740	1920	2090	2260
	500	250	164	1730	1930	2120	2310	2500
1250	PUMP MODEL			QMID125-23	QMID125-21	QMID125-19	QMID125-17	QMID125-15
	1250	150	152	1450	1610	1770	1930	2090
	1250	165	166	1490	1660	1830	1990	2150
	875	200	159	1580	1760	1940	2110	2290
	625	250	180	1750	1950	2150	2330	2530

RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) ***	HORSEPOWER REQUIRED	"X" GEARBOX INPUT DRIVE SHAFT (RPM) *				
				RATIO	RATIO	RATIO	RATIO	RATIO
				2.83	2.55	2.32	2.13	1.96
1000	PUMP MODEL			QMID100-28	QMID100-25	QMID100-23	QMID100-21	QMID100-19
	1000	150	127	1130	1260	1380	1510	1640
	1000	165	141	1170	1300	1430	1560	1690
	700	200	142	1260	1400	1540	1680	1820
	500	250	164	1400	1550	1700	1850	2020
1250	PUMP MODEL			QMID125-28	QMID125-25	QMID125-23	QMID125-21	QMID125-19
	1250	150	152	1170	1290	1420	1550	1680
	1250	165	166	1200	1330	1470	1600	1740
	875	200	159	1280	1420	1560	1700	1840
	625	250	180	1410	1570	1720	1870	2040

* ENGINE SPEED MUST NOT EXCEED MFR'S MAXIMUM NO-LOAD GOVERNED SPEED.
 ** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN.
 ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY ENGINE SPEED, AVAILABLE HORSEPOWER AND PUMP RATIO.
 *** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.
 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 NFPA 1901 TEST. THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC.
 CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF A NET HORSEPOWER CURVE.
 FOR ROAD OPERATION, ENGINE TORQUE ON PUMP DRIVE LINE SHOULD BE CHECKED PER HALE FORM F-72.

ECD NO	REV	CHANGED FROM	BY	DATE	APVD
03-279	A	RELEASE TO PRODUCTION	SK	09-08-03	MAL



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DRAWN [] INK [] DATE 09-08-03 SIZE A SCALE: FULL

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