

# NFPA 1901 RATING CHART QTWO SERIES PUMP

**RATED FROM 1000 GPM @ 160 PSI TO 2000 GPM @ 160 PSI**

**TWO 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.


QTWO100 5 IN. HOSE, 7500 FEET      QTWO150 6 IN. HOSE, 3000 FEET  
 QTWO100 6 IN. HOSE, 12500 FEET      QTWO150 (2) 6 IN. HOSE, 9000 FEET  
 QTWO125 6 IN. HOSE, 7500 FEET

MAXIMUM ELEVATION AT WHICH THE PUMP WILL DO THE RATING WITH STANDARD TEST CONDITIONS OF 8 FT. LIFT (QTWO175) - 6 FT. LIFT (QTWO200), 20 FT. OF SUCTION HOSE & STRAINER.

QTWO175 (2) 6 IN. HOSE, 4500 FEET,      QTWO200 (2) 6 IN. HOSE, 2000 FEET

\* 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.

**E-1151C**

RATED CAPACITY (US GPM)	L OR S GEARBOX INPUT DRIVE SHAFT (RPM)*					RATED CAPACITY (US GPM)	X GEARBOX INPUT DRIVE SHAFT (RPM)*					HALE PRODUCTS, INC. A Unit of IDEC Corporation Conshohocken, PA 19428 USA  CONSULT 800-445-2222 NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	DATE	SCALE	FULL		
	CAPACITY (US GPM)	PRESSURE (PSIG) ***	HORSEPOWER REQUIRED	RATIO	RATIO		RATIO	RATIO	RATIO	RATIO	RATIO						
	2.28	2.05	1.86	1.71	1.58		2.83	2.55	2.32	2.13	1.96						
1000	PUMP MODEL	QTWO100-23	QTWO100-21	QTWO100-19	QTWO100-17	QTWO100-15	1000	PUMP MODEL	QTWO100-28	QTWO100-25	QTWO100-23	QTWO100-21	QTWO100-19	BY DATE MO 8-28-98 RET 3-3-99 DK 9-21-00	CHANGED FROM RELEASE TO PRODUCTION 98-179 A 99-060 B 00-606 C	APPROVED DATE	MATERIAL
	1000 150 143	1420	1580	1740	1890	2050		1000 150 143	1140	1270	1400	1520	1650				
	1000 165 159	1480	1650	1820	1980	2140		1000 165 159	1190	1330	1460	1590	1730				
	700 200 133-156	1280-1590	1420-1770	1560-1950	1700-2120	1840-2300		700 200 133-156	1030-1280	1140-1420	1250-1560	1370-1700	1480-1850				
	500 250 119	1300	1440	1590	1730	1870		500 250 119	1050	1160	1280	1390	1510				
1250	PUMP MODEL	QTWO125-23	QTWO125-21	QTWO125-19	QTWO125-17	QTWO125-15	1250	PUMP MODEL	QTWO125-28	QTWO125-25	QTWO125-23	QTWO125-21	QTWO125-19	CONSULT 800-445-2222 NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	DATE	SCALE	FULL
	1250 150 166	1440	1600	1760	1920	2080		1250 150 166	1160	1290	1410	1540	1680				
	1250 165 183	1500	1660	1830	1990	2160		1250 165 183	1210	1340	1470	1600	1740				
	875 200 175	1360	1510	1670	1810	1960		875 200 175	1100	1210	1340	1450	1580				
	625 250 145	1350	1500	1650	1800	1940		625 250 145	1090	1210	1320	1440	1560				
1500	PUMP MODEL	QTWO150-23	QTWO150-21	QTWO150-19	QTWO150-17	QTWO150-15	1500	PUMP MODEL	QTWO150-28	QTWO150-25	QTWO150-23	QTWO150-21	QTWO150-19	CONSULT 800-445-2222 NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	DATE	SCALE	FULL
	1500 150 198	1480	1650	1820	1980	2140		1500 150 198	1200	1330	1460	1590	1730				
	1500 165 213	1540	1720	1890	2060	2230		1500 165 213	1240	1380	1520	1650	1800				
	1050 200 199	1610	1790	1970	2140	2320		1050 200 199	1300	1440	1580	1720	1870				
	750 250 173	1400	1560	1720	1870	2030		750 250 173	1130	1250	1380	1500	1640				
1750	PUMP MODEL	QTWO175-23	QTWO175-21	QTWO175-19	QTWO175-17	QTWO175-15	1750	PUMP MODEL	QTWO175-28	QTWO175-25	QTWO175-23	QTWO175-21	QTWO175-19	CONSULT 800-445-2222 NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	DATE	SCALE	FULL
	1750 150 220	1510	1680	1850	2020	2180		1750 150 220	1220	1350	1480	1620	1760				
	1750 165 241	1570	1750	1930	2100	2270		1750 165 241	1270	1410	1550	1690	1830				
	1225 200 218	1620	1800	1980	2160	2340		1225 200 218	1310	1450	1600	1730	1890				
	875 250 204	1460	1620	1780	1940	2100		875 250 204	1180	1300	1430	1560	1690				
2000	PUMP MODEL	QTWO200-23	QTWO200-21	QTWO200-19	QTWO200-17	QTWO200-15	2000	PUMP MODEL	QTWO200-28	QTWO200-25	QTWO200-23	QTWO200-21	QTWO200-19	CONSULT 800-445-2222 NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	DATE	SCALE	FULL
	2000 150 253	1560	1730	1910	2080	2250		2000 150 253	1260	1400	1530	1670	1810				
	2000 165 272	1610	1790	1970	2150	2320		2000 165 272	1300	1440	1590	1730	1880				
	1400 200 237	1630	1810	2000	2170	2350		1400 200 237	1310	1450	1600	1730	1880				
	1000 250 246	1510-1570	1680-1950	1850-2150	2020-2340	2180-2530		1000 250 246	1220-1410	1350-1570	1430-1720	1620-1880	1760-2040				
** HIGH PRESSURE	60	600	205	1890	2090	2310	2510	2720	** HIGH PRESSURE	60	600	205	1520	1690	1860	2020	2200
	200	500	190	1720	1920	2110	2300	2490		200	500	190	1390	1540	1700	1850	2000

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