

415Q PUMP PERFORMANCE

ROD LOAD 14855 lbs.

Revised 26-Oct-18
By Gary R. Lake

PUMP

CRANKSHAFT RPM

	Plunger Dia. In.	Plunger Area Sq. In.	GPM per RPM	Max. Pressure PSI	100	200	250	300	350
					GPM	GPM	GPM	GPM	GPM
415Q-5L	4.500	15.9043	1.7212	935	172	344	430	516	602
	4.375	15.0330	1.6269	990	163	325	407	488	569
	4.250	14.1863	1.5353	1045	154	307	384	461	537
	4.125	13.3640	1.4463	1110	145	289	362	434	506
	4.000	12.5664	1.3600	1180	136	272	340	408	476
	3.875	11.7932	1.2763	1260	128	255	319	383	447
	3.750	11.0447	1.1953	1345	120	239	299	359	418
	3.625	10.3206	1.1170	1440	112	223	279	335	391
	3.500	9.6211	1.0412	1545	104	208	260	312	364
415Q-5M	3.250	8.2958	0.8978	1790	90	180	224	269	314
	3.000	7.0686	0.7650	2100	76	153	191	229	268
	2.875	6.4918	0.7026	2290	70	141	176	211	246
	2.750	5.9396	0.6428	2500	64	129	161	193	225
	2.625	5.4119	0.5857	2745	59	117	146	176	205
	2.500	4.9087	0.5312	3025	53	106	133	159	186
415Q-5H	2.250	3.9761	0.4303	3735	43	86	108	129	151
	2.125	3.5466	0.3838	4190	38	77	96	115	134
	2.000	3.1416	0.3400	4730	34	68	85	102	119
	1.875	2.7612	0.2988	5380	30	60	75	90	105
	1.750	2.4053	0.2603	6170	26	52	65	78	91

Brake Horsepower Required 104 208 261 313 365

90% Mechanical Efficiency

400

GPM

688

651

614

579

544

511

478

447

416

359

306

281

257

234

212

172

154

136

120

104

417