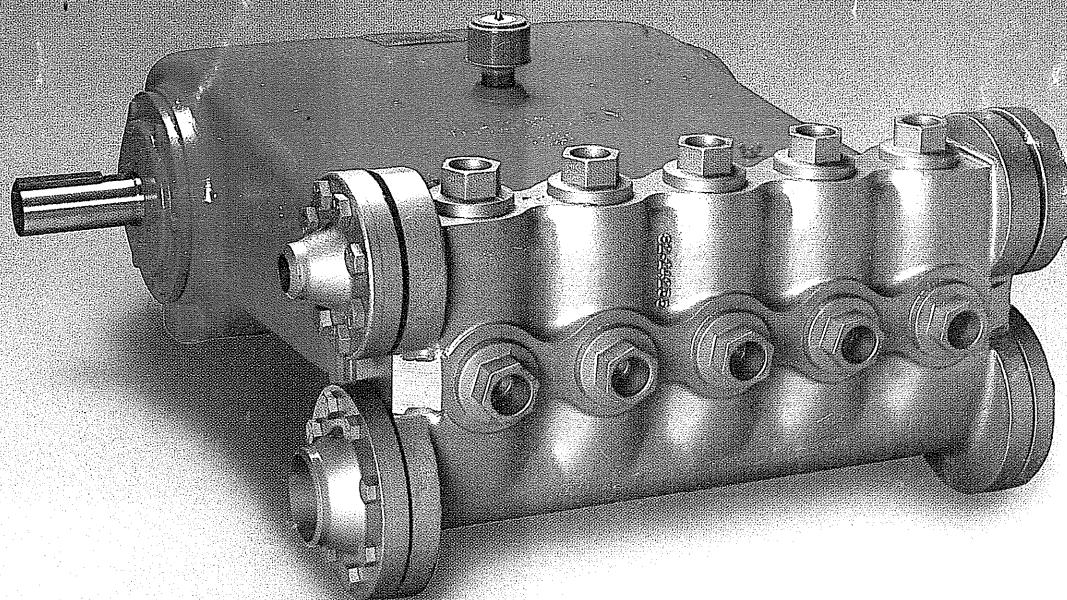


Model

HP-165

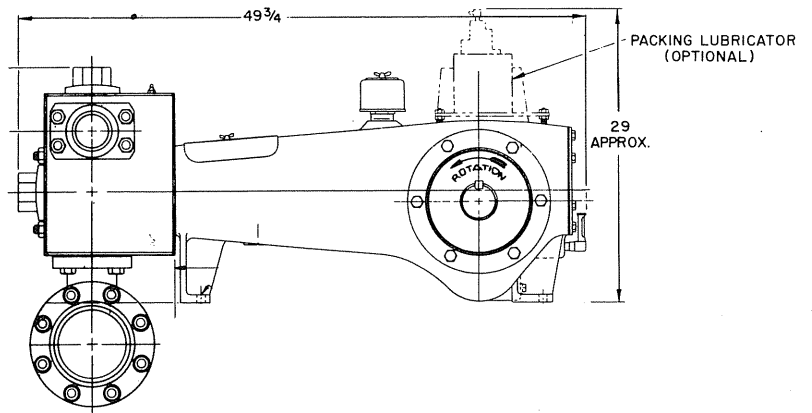
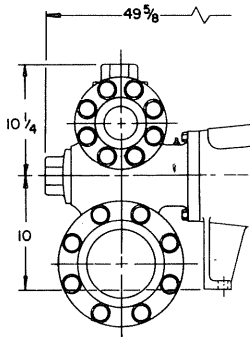
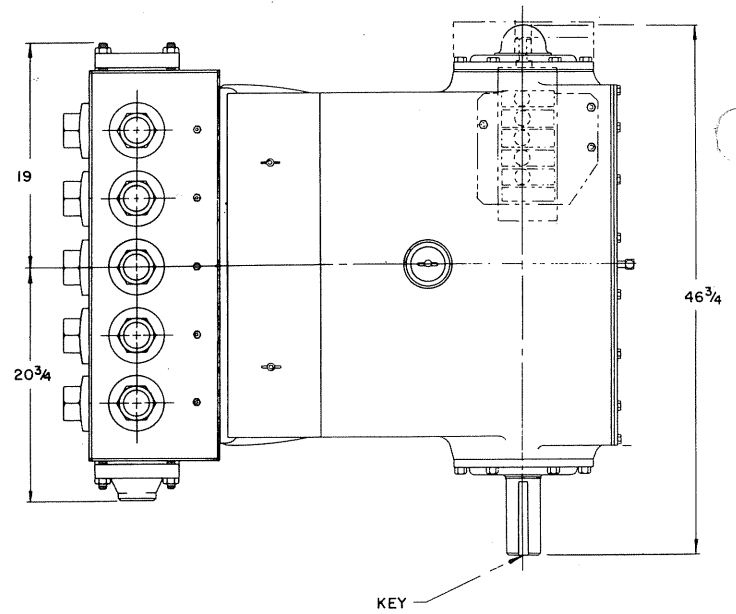
HP-165L Quintuplex
HP-165M Quintuplex

Plunger Pumps from Wheatley



WHEATLEY
PUMP AND VALVE INC.

HP-165L



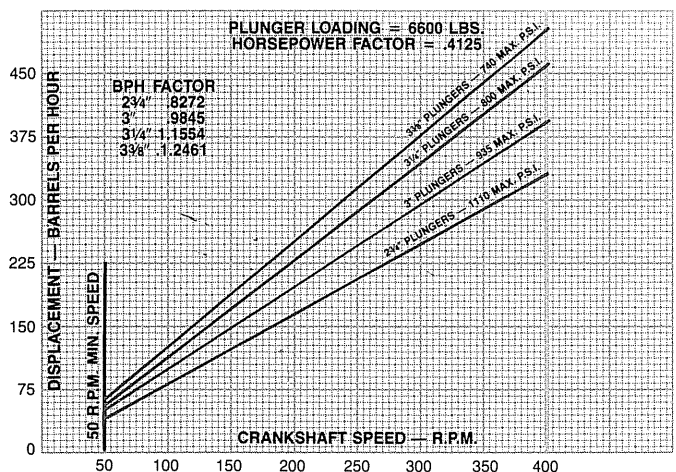
All dimensions are approximate. For exact specifications, request drawings from factory.

**HP-165L
PERFORMANCE CHART**
2 3/4" to 3 3/8" x 4 1/2" Quintuplex Plunger Pump

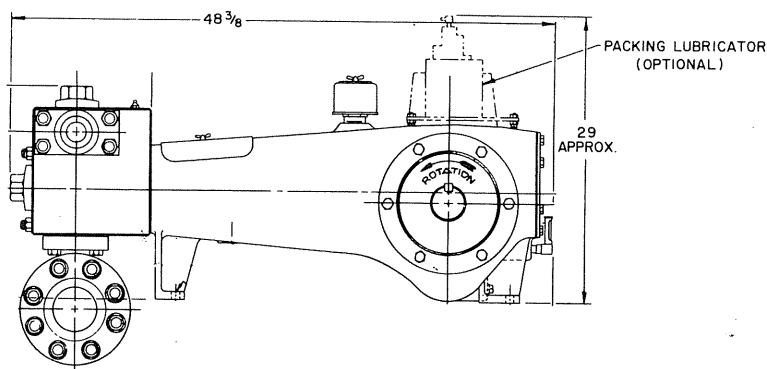
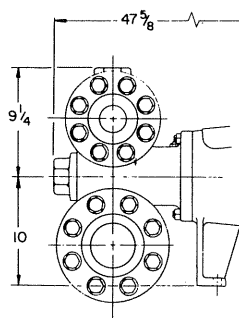
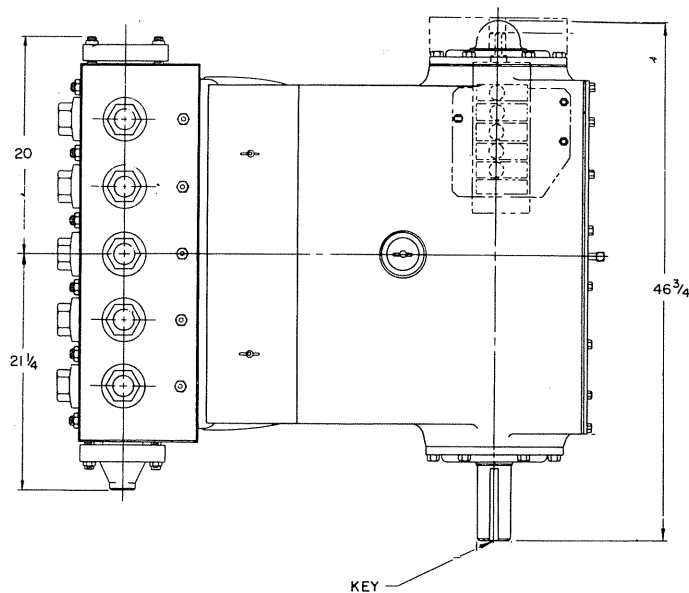
Displacement Volumes (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute			
GPM	BPH	BPD	2 3/4" 1110 psi	3" 935 psi	3 1/4" 800 psi	3 3/8" 740 psi
42	60	1440	73	61	52	
56	80	1920	97	81	69	64
70	100	2400	121	101	87	80
84	120	2880	145	122	104	96
98	140	3360	169	142	121	112
112	160	3840	193	163	138	128
126	180	4320	218	183	156	144
140	200	4800	242	203	173	161
154	220	5280	266	223	190	177
168	240	5760	290	244	208	193
182	260	6240	314	264	225	209
196	280	6720	338	284	242	225
210	300	7200	363	305	260	241
224	320	7680	387	325	277	257
238	340	8160		345	294	273
252	360	8640		366	312	289
266	380	9120		386	329	305
280	400	9600			346	321
294	420	10080			363	337
322	460	11040			398	369
336	480	11520				385
GPM FACTOR			.5785	.6885	.8080	.8714
BPH FACTOR			.8272	.9845	1.1554	1.2461

Input H.P. = BPH x PSI ÷ 2200
All figures based on 100% volumetric efficiency in water.

HP-165L PERFORMANCE CHART
2 3/4" to 3 3/8" x 4 1/2" QUINTUPLEX PLUNGER PUMP — VOLUME BASED ON 100% VOLUMETRIC EFF.
POWER BASED ON 90% MECHANICAL EFFICIENCY & MAXIMUM ALLOWABLE PRESSURE



HP-165M



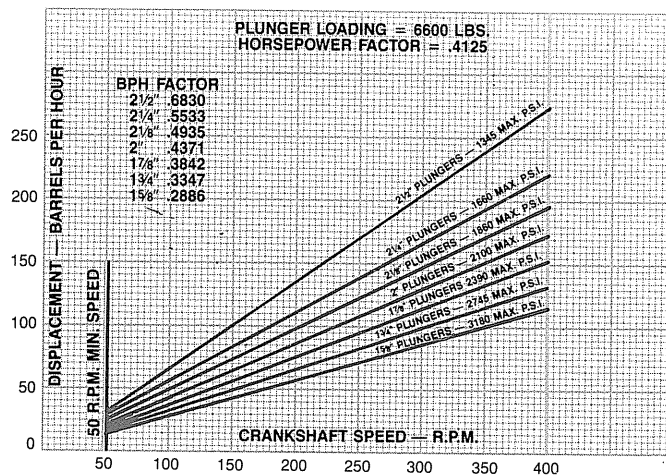
All dimensions are approximate. For exact specifications, request drawings from factory.

**HP-165M
PERFORMANCE CHART**
1 5/8" to 2 1/2" x 4 1/2" Quintuplex Plunger Pump

Displacement Volumes (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute						
			1 5/8" 3100 psi	1 3/4" 2745 psi	1 7/8" 2390 psi	2" 2100 psi	2 1/8" 1860 psi	2 1/4" 1660 psi	2 1/2" 1345 psi
14	20	480	69	60	52				
21	30	720	104	90	78	69	61	54	
28	40	960	139	120	104	92	81	72	59
35	50	1200	173	149	130	114	101	90	73
42	60	1440	208	179	156	137	122	108	88
49	70	1680	243	209	182	160	142	127	102
56	80	1920	277	239	208	183	162	145	117
63	90	2160	312	269	234	206	182	163	132
70	100	2400	347	299	260	229	203	181	146
77	110	2640	381	329	286	252	223	199	161
84	120	2880		359	312	275	243	217	176
91	130	3120			338	297	263	235	190
98	140	3360			364	320	284	253	205
105	150	3600			390	343	304	271	220
112	160	3840				366	324	289	234
119	170	4080				389	344	307	249
126	180	4320					365	325	264
133	190	4560					385	343	278
140	200	4800						361	293
147	210	5040						380	307
154	220	5280						398	322
161	230	5520							337
168	240	5760							351
175	250	6000							366
182	260	6240							381
189	270	6480							395
GPM FACTOR			.2020	.2343	.2689	.3060	.3455	.3873	.4781
BPH FACTOR			.2886	.3347	.3842	.4371	.4935	.5533	.6830

Input H.P. = BPH x PSI ÷ 2200
All figures based on 100% volumetric efficiency in water.

HP-165M PERFORMANCE CHART
1 5/8" TO 2 1/2" X 4 1/2" QUINTUPLEX PLUNGER PUMP — VOLUME BASED ON 100% VOLUMETRIC EFF.
POWER BASED ON 90% MECHANICAL EFFICIENCY & MAXIMUM ALLOWABLE PRESSURE



Model HP-165 for Medium and Low Pressure Applications

Field Proven Reliability Since 1916

Founded in 1916, Wheatley Pump and Valve Inc. has the reputation for providing quality, dependable products to the petroleum and other industries, worldwide. For more than 70 years Wheatley's advanced technology has solved industry's flow control problems. The result is a complete line of reciprocating plunger pumps, from 6 to 1800 horsepower, ideally suited for salt water disposal, water-blast, reverse osmosis, and a variety of other industrial applications.

From 14 to 336 Gallons Per Minute

The HP-165L delivers up to 336 gallons per minute at 740 psi. For higher pressure applications, the HP-165M delivers up to 77 gallons per minute at 3,180 psi.

Designed for durability, easy maintenance, and simple installation, these smooth-acting quintuplex pumps maintain continuous high volumetric efficiency, day after day . . . year after year.

Power End Features:

Wheatley's Exclusive Offset Crankshaft

By offsetting the crankshaft, our engineers have reduced vertical thrust loads by more than 40 percent. Crankshaft vibration is virtually eliminated and friction, heat and wear are significantly reduced.

Low Profile Power Frame

Wheatley pumps feature a low profile power end making them particularly suitable for close-quarter applications. Our power frames are manufactured from close-grained, one-piece castings. They are precision-bored to provide dimensional stability and matched alignment of the stuffing box, wiper box, crosshead, pony rod and plunger.

High Capacity Roller Bearings

We have simplified the alignment of the high-capacity tapered roller bearings to allow for easy adjustment from outside the pump. Bearing housings are precision-machined and interchangeable.

Fluid End Features

Your Choice of Materials

All Wheatley fluid ends are precision-machined to exacting tolerances. HP-165 fluid ends are available in your choice of ductile iron, aluminum bronze, or forged steel. Special alloy materials are available to meet difficult requirements.

Dual suction and discharge connections provide for the attachment of relief valves, bypass circuits, pressure gauges, dampeners or other accessories.

Wheatley Quality Plungers

To provide maximum versatility, plungers are available in several high quality materials. For the ultimate in plunger surface hardness, the exclusive Wheatloy™ plunger is made from a stainless steel body coated with a special nickel alloy. Other available materials are chrome oxide, and, for maximum corrosion resistance, solid ceramic plungers. You may choose either Wheatloy or solid ceramic plungers at no extra charge.

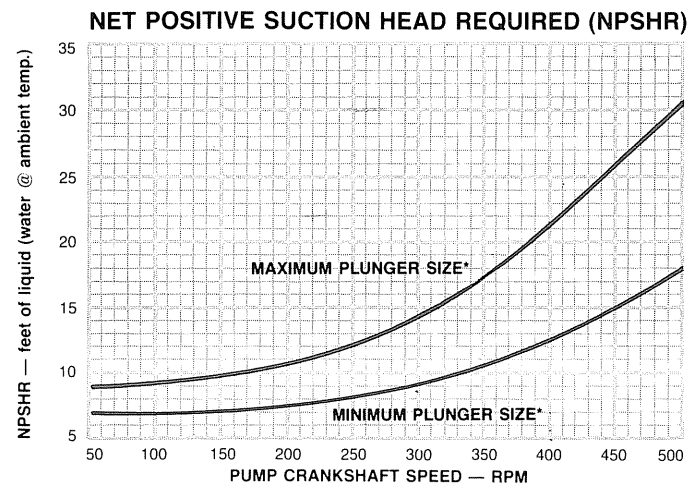
Packing

Wheatley offers several packing options, at no extra charge, to meet most pumping applications. The following table describes our standard packing availability. Other packing materials are available on request.

STYLE	DESCRIPTION/APPLICATION
838	Hard-core, non-adjustable for general service. Lubrication required.
845	Hard-core, non-adjustable for broader temperature range. Lubrication preferred.
255	Adjustable braided for Amine, Glycol or similar service. No lubrication required.
265	Adjustable alternating rings of flax and lead for higher temperature applications. No lubrication required.

Precision Pump Valves

Precision machining and strict quality control standards assure proper valve standoff and maximum operating life. Standard valve construction features Celcon¹ or formed stainless steel discs with stainless steel seats. Synthetic seal wing-guided valves are optional. Other seat and disc materials are also available to meet your application requirements.



*Refer to the individual pump model performance curve for minimum and maximum plunger sizes. Interpolate for all plunger sizes between minimum and maximum to obtain the corresponding NPSHR value.

¹Trademark of Celanese Corporation