

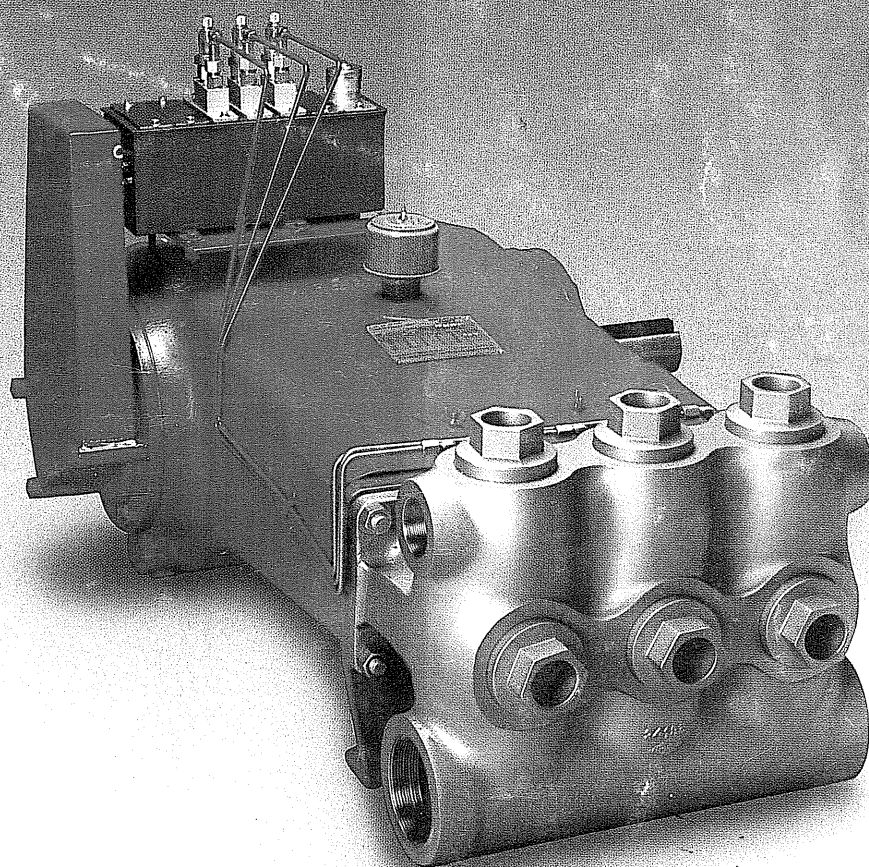
Model

HP-100

HP-100L Triplex

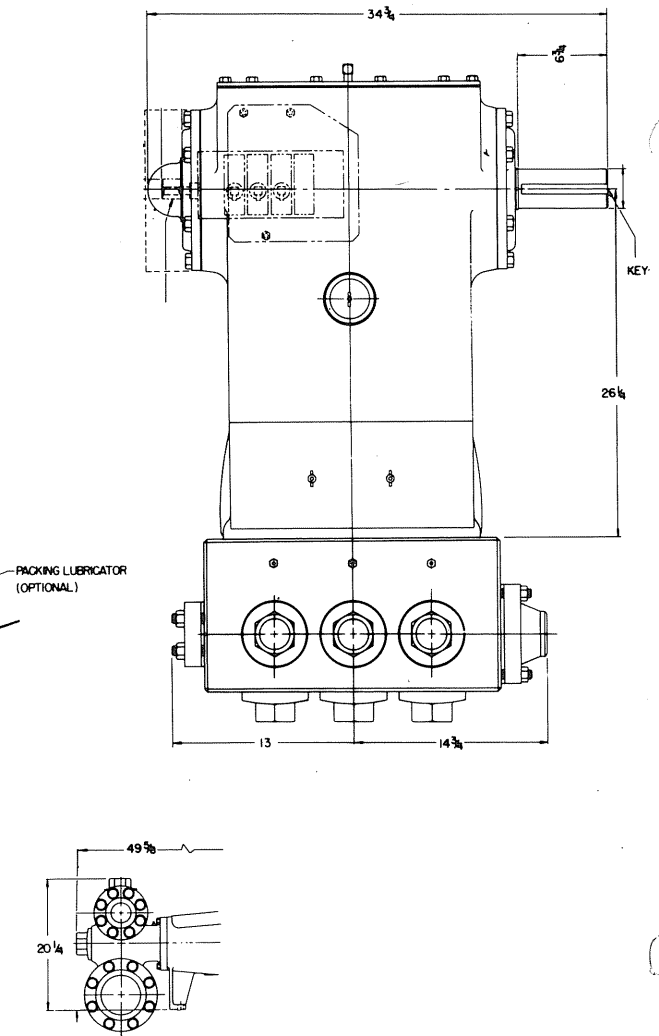
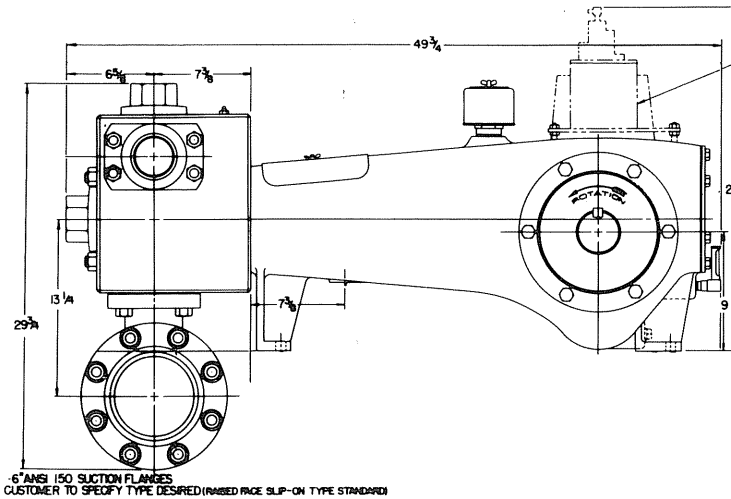
HP-100M Triplex

Plunger Pumps
from Wheatley



WHEATLEY
PUMP AND VALVE INC.

HP-100L



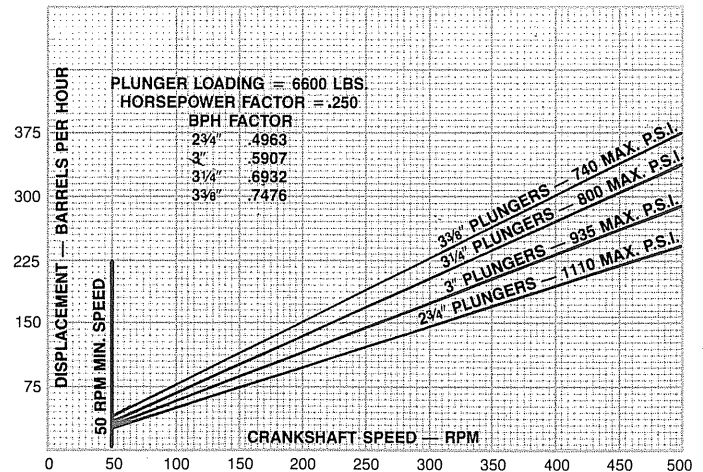
HP-100L
PERFORMANCE CHART
2 3/4" to 3 3/8" x 4 1/2" Triplex Plunger Pump

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

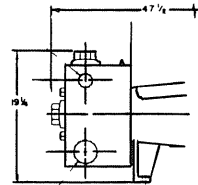
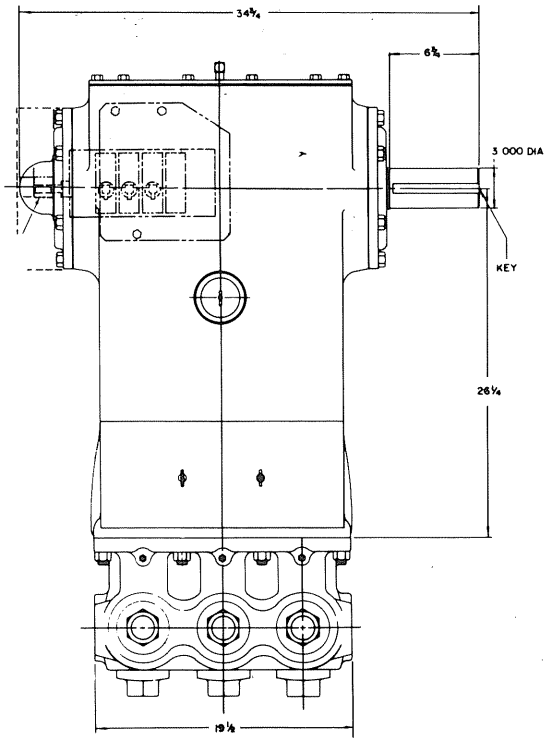
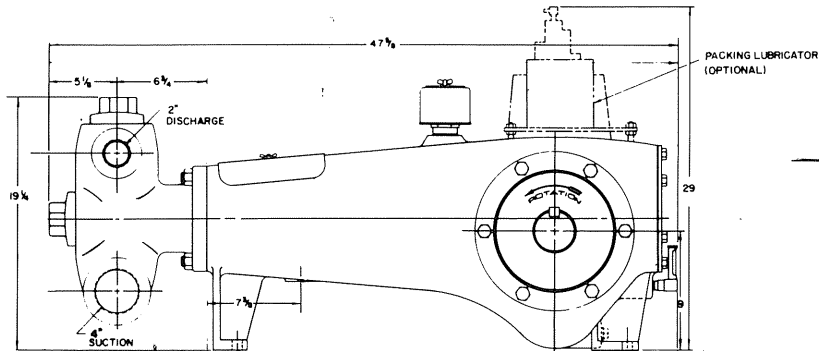
Displacement Volumes (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute			
GPM	BPH	BPD	2 3/4" 1110 psi	3" 935 psi	3 1/4" 800 psi	3 3/8" 740 psi
21	30	720	60	61		
28	40	960	81	68	58	54
35	50	1200	101	85	72	67
42	60	1440	121	102	87	80
49	70	1680	141	119	101	94
56	80	1920	161	135	115	107
63	90	2160	181	152	130	120
70	100	2400	201	169	144	134
84	120	2880	242	203	173	161
91	130	3120	262	220	188	174
98	140	3360	282	237	202	187
105	150	3600	302	254	216	201
112	160	3840	322	271	231	214
119	170	4080	343	288	245	227
126	180	4320	363	305	260	241
140	200	4800	403	339	289	268
154	220	5280	443	372	317	294
168	240	5760	484	406	346	321
182	260	6240		440	375	348
196	280	6720		474	404	375
210	300	7200			433	401
224	320	7680			462	428
252	340	8160			490	455
266	360	8640				481
GPM FACTOR			.3471	.4131	.4748	.5228
GPH FACTOR			.4963	.5907	.6932	.7476

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

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



HP-100M



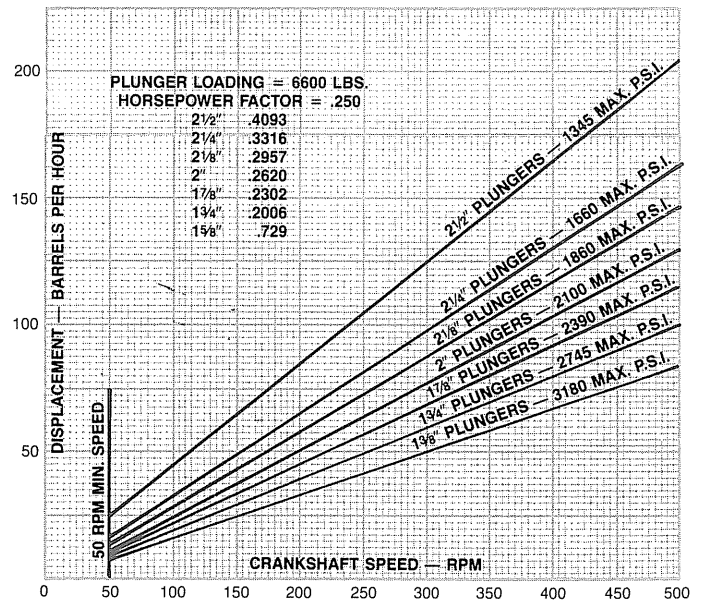
All dimensions are approximate. For exact specifications, request drawings from factory.

HP-100M
PERFORMANCE CHART
1 5/8" to 2 1/2" x 4 1/2" Triplex Plunger Pump

Displacement Volumes (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute						
GPM	BPH	BPD	1 5/8" 3180 psi	1 3/4" 2745 psi	1 7/8" 2390 psi	2 in 2100 psi	2 1/8" 1860 psi	2 1/4" 1660 psi	2 1/2" 1345 psi
7	10	240	59	50	43	38	34	30	24
14	20	480	116	100	87	76	68	60	49
21	30	720	174	150	130	115	101	90	73
28	40	960	231	200	174	153	135	121	98
35	50	1200	289	249	217	191	169	151	122
42	60	1440	347	299	261	229	203	181	147
49	70	1680	405	350	304	267	237	211	171
56	80	1920	463	399	348	305	271	241	195
63	90	2160		449	391	344	304	271	220
70	100	2400		499	434	382	338	302	244
77	110	2640			478	420	372	332	269
84	120	2880				458	406	362	293
91	130	3120				496	440	392	318
98	140	3360					473	422	342
105	150	3600						452	366
112	160	3840						483	391
119	170	4080							415
126	180	4320							440
133	190	4560							464
140	200	4800							489
GPM FACTOR			.1211	.1404	.1612	.1834	.2071	.2322	.2866
BPH FACTOR			.1729	.2006	.2302	.2620	.2957	.3316	.4093

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

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



Model HP-100 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 7 to 250 Gallons Per Minute

For moderate pressure, medium volume applications, the HP-100L delivers up to 250 gallons per minute at 740 psi. For higher pressure applications, the HP-100M delivers up to 56 gallons per minute at 3,180 psi.

Designed for durability, easy maintenance, and simple installation, the HP-100 maintains 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-100 fluid ends are available in your choice of ductile iron, aluminum bronze, or forged steel. Special alloy materials can be furnished 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 Wheataloy™ 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 Wheataloy or solid ceramic plungers at no extra charge.

Packing

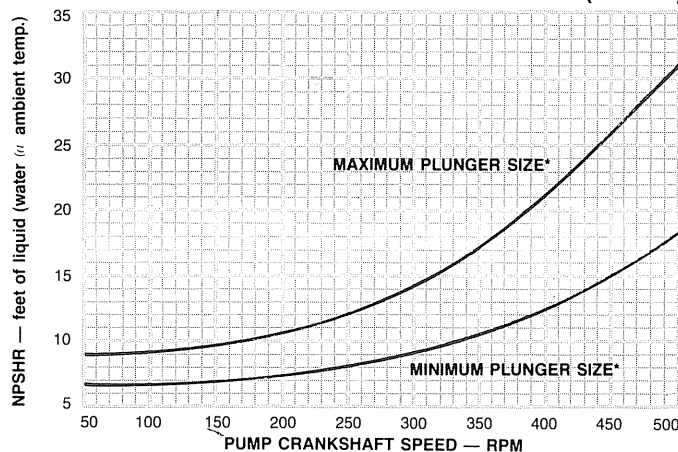
Wheatley offers several packing options, at no extra charge, to meet most pumping applications. The following table describes our standard packing availability. Other packing materials are available on request.

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.

NET POSITIVE SUCTION HEAD REQUIRED (NPSHR)



*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.

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