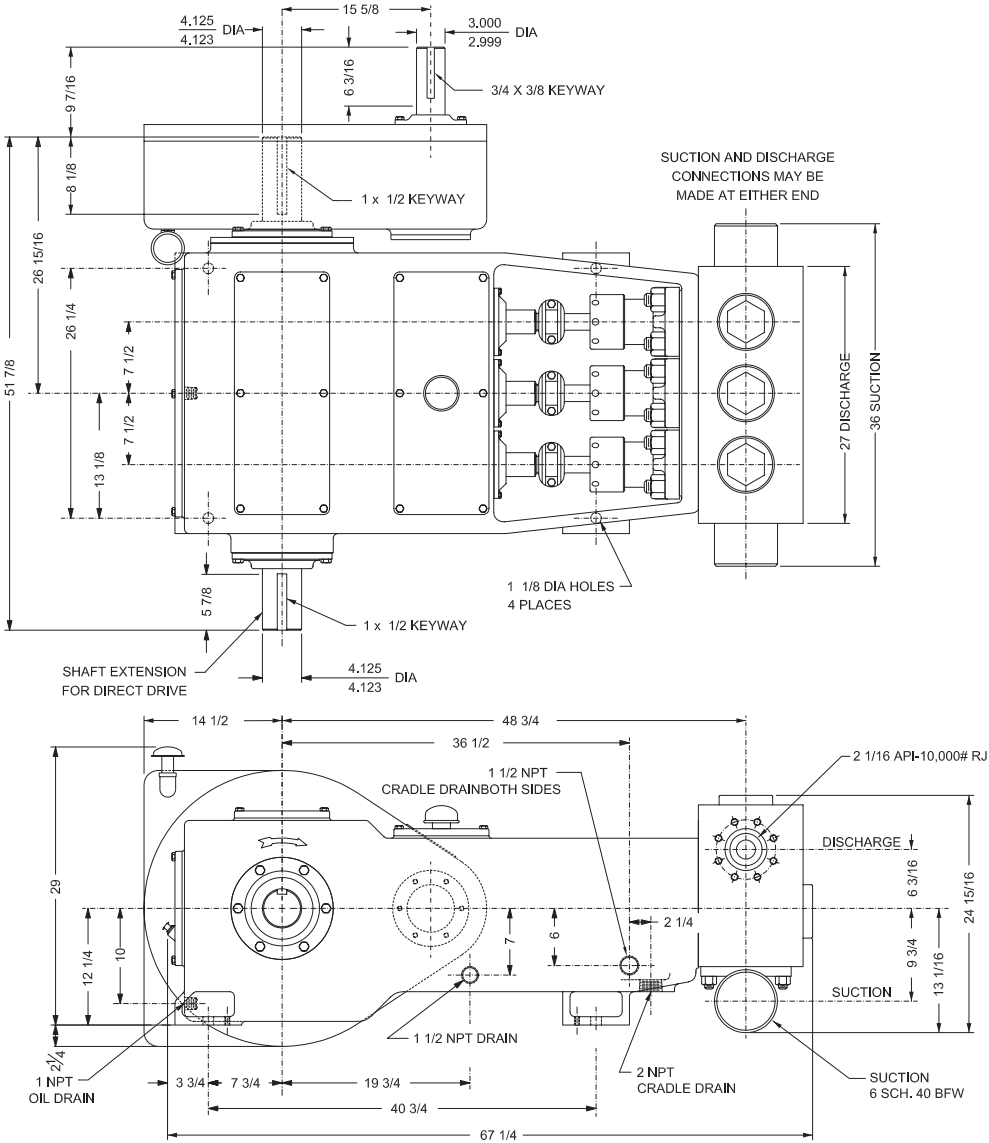


JWS-185 Triplex Well Service Pump



Pump Model	Flange Connections	
	Discharge Connection Sizes	Suction Connection Sizes
JWS-185	2 1/16 API 10,000# RJ	6 STD Pipe

Specifications

- Pump Size:**
max. dia. x stroke, in.(mm):
4 1/2 x 5 (114.3 x 127)
- Rated bhp at 450 rpm (kw):** 185 (137.9)
- Maximum pressure:** psi(kPa):
10,000 (68,950)
- Stroke Length** in.(mm): 5 (127)
- Max. Speed** rpm: 450
- Max. plunger** in.(mm): 4 (101.6)
- Max. piston** in.(mm): 4 1/2 (114.3)
- Crankshaft extension:** in.(mm)
Diameter: 4 1/8 (104.78)
Length: 8 1/8 (206.38)
Keyway (width x depth):
1 x 1/2 (25.4 x 12.7)
- Pinion shaft extension,**
if gear unit supplied in.(mm)
For Belt or chain drive:
Diameter: 3 (76.2)
Length: 6 3/16 (157.2)
Keyway (width x depth):
3/4 x 3/8 (19.1 x 9.5)
For direct drive:
Diameter: 3 (76.2)
Length: 6 3/16 (157.2)
Keyway (width x depth):
3/4 x 3/8 (19.1 x 9.5)

Accessory Gear Units:
See accessories for reduction ratios.

- Oil Capacity:** gallons (L)
Crankcase: 8 (30)
Gear unit - Varies with gear ratio:
2.25 to 3.5 (8.52 to 13.25)
- Weight,** Pump only on
wood shipping skids, pounds(Kg):
4000 (1814)
Gear unit, approximate, pounds(Kg):
800 (363)

- Standard Equipment:**
Forged steel fluid end
Forged steel valve covers
Piston & liners or plungers & packing
Slush type valves
Oil level dipstick
Crankcase breather
Stainless steel extension rods
Double extended crankshaft

- Accessories:**
Gear reduction units:
3.22:1, 3.46:1, 4.38:1, 4.96:1
Suction stabilizer
Discharge dampener
Liner flush system
Plunger lubricator
Valve seat puller assembly
Complete unitization with
electric motor or engine drive

JWS-185 Triplex Well Service Pump

Performance Data

English Units

Diameter, in.		Plungers Only 2"			Plungers only 2 1/2"			2 3/4"			3"			3 1/2"			4"			Pistons Only 4 1/2"		
gal/min. per RPM		.2040			.3187			.3857			.4590			.6247			.8160			1.0327		
bbl/min. per RPM		.0049			.0076			.0092			.0109			.0149			.0194			.0246		
RPM	Req'd. hp	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.
450	185	3110	92	2.19	1995	143	3.42	1644	174	4.13	1382	206.6	4.894	1020	281	6.69	780	367	8.74	-	-	-
400	185	3500	82	1.94	2247	127	3.04	1850	154	3.67	1544	183.6	4.371	1140	250	5.95	870	326	7.77	-	-	-
350	185	4000	71	1.70	2548	112	2.66	2110	135	3.21	1776	160.7	3.825	1310	219	5.21	1000	286	6.80	-	-	-
300	185	4660	61	1.46	2973	96	2.28	2470	116	2.75	2072	137.7	3.279	1520	187	4.46	1170	245	5.83	-	-	-
250	185	5600	51	1.21	3567	80	1.90	2960	96	2.30	2487	114.8	2.732	1830	156	3.72	1400	204	4.86	-	-	-
225	185	6220	46	1.09	3964	72	1.71	3290	87	2.07	2763	103.3	2.459	2030	141	3.35	1550	184	4.37	1230	232	5.53
200	185	7000	41	0.97	4459	64	1.52	3700	77	1.84	3109	91.8	2.186	2280	125	2.97	1750	163	3.89	1380	207	4.92
100	132	10000	20	0.49	6350	32	0.76	5250	39	0.92	4444	45.9	1.093	3240	62	1.49	2480	82	1.94	1960	103	2.46
50	66	10000	10	0.24	6350	16	0.38	5250	19	0.46	4444	23.0	0.546	3240	31	0.74	2480	41	0.97	1960	52	1.23
25	33	10000	5	0.12	6350	8	0.19	5250	10	0.23	4444	11.5	0.273	3240	16	0.37	2480	20	0.49	1960	26	0.61

Metric Units

Diameter, mm		Plungers only 50.8			Plungers only 63.5			69.9			76.2			88.9			101.6			Pistons only 114.3		
Liter/min per RPM		.7722			1.2065			1.4600			1.7375			2.3649			3.0889			3.9094		
M3/min per RPM		.00077			.001207			.00146			.00174			.00236			.00308			.0039		
RPM	Req'd. hp	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.	kg/ cm2	L/ min.	M3/ min.
450	185	220	347	.347	140	543	0.543	116	657	.657	97	782	0.782	72	1064	1.06	55	1390	1.39	-	-	-
400	185	247	309	.309	158	483	0.483	131	584	.584	109	695	0.695	81	946	.946	62	1236	1.23	-	-	-
350	185	283	270	.270	179	422	0.422	150	511	.511	125	608	0.608	92	828	.828	71	1081	1.08	-	-	-
300	185	330	232	.232	209	362	0.362	174	438	.438	146	521	0.521	108	709	.709	82	927	.927	-	-	-
250	185	396	193	.193	251	302	0.302	209	365	.365	175	435	0.435	129	591	.591	99	772	.772	-	-	-
225	185	440	174	.174	279	271	0.271	233	328	.328	194	391	0.391	144	532	.532	110	695	.695	87	880	.880
200	185	495	154	.154	314	241	0.241	262	292	.292	219	348	0.348	162	473	.473	124	618	.618	98	782	.782
100	132	703	77	.077	447	121	0.121	369	146	.146	312	174	0.174	228	236	.236	174	309	.309	138	391	.391
50	66	703	39	.039	447	60	0.060	369	73	.073	312	87	0.087	228	118	.118	174	154	.154	138	195	.195
25	33	703	19	.019	447	30	0.030	369	36	.036	312	44	0.044	228	59	.059	174	77	.077	138	98	.098

(Volumes indicated are displacement of incompressible fluid) Volumetric rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency. These ratings are for intermittent service. Pressure up to those shown may be utilized for a period not to exceed a total of 4 hours in 240 hours. Caution: When pump is equipped with pistons and liners, pressures in excess of 5000 psi(352 kg/cm2) should not be exceeded except for emergencies or intermittent duty of short duration. Speed in excess of 225 rpm is recommended for plunger only and not recommended for pump equipped with pistons for maximum liner and piston life.

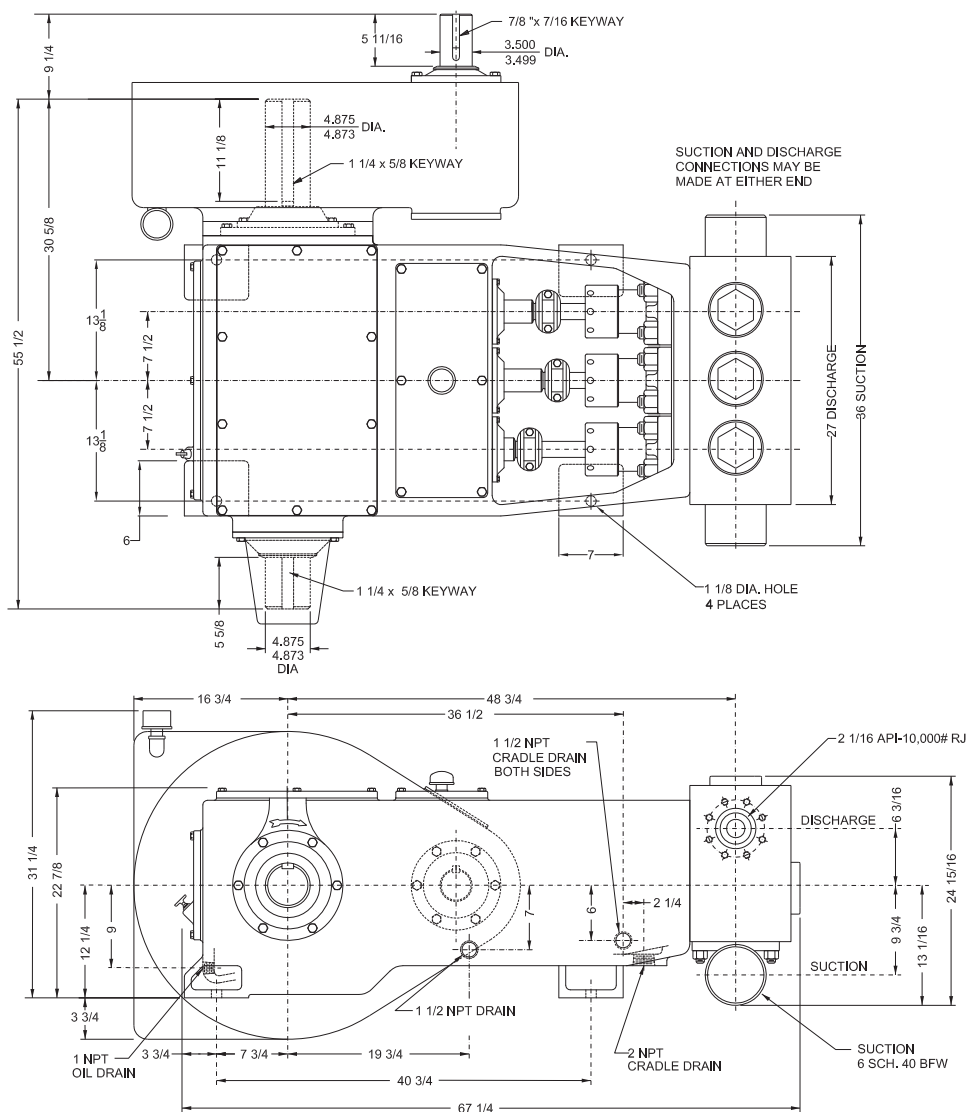
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JWS-340 Triplex Well Service Pump



Specifications

Pump size

max. dia. X stroke, in.(mm):
4 1/2 x 5 (114.3 x 127)

Rated bhp at 450 rpm (kw): 340 (253.5)

Maximum pressure: psi (kPa):
10,000(68,950)

Stroke length in. (mm): 5 (127)

Max. speed rpm: 450

Max. plunger in.(mm): 4 (101.6)

Max. piston in.(mm): 4 1/2 (114.3)

Crankshaft extension: in. (mm)

Diameter: 4 7/8 (123.8)

Length: 11 3/4 (298.0)

Keyway (width x depth):

1 1/4 x 5/8 (32.0 x 16.0)

Pinion shaft extension,

if gear unit supplied in.(mm)

For belt or chain drive:

Diameter: 3 1/2 (88.9)

Length: 5 11/16 (144)

Keyway (width x depth):

7/8 x 7/16 (22.2 x 11.1)

For direct drive:

Diameter: 3 1/2 (88.9)

Length: 5 11/16 (144)

Keyway (width x depth):

7/8 x 7/16 (22.2 x 11.1)

Accessory gear units:

See accessories for reduction ratios

Oil capacity: gallons(L)

Crankcase: 6 (22.7)

Gear Unit – Varies with gear ratio:

3.5 to 6.5 (13.2 to 24.6)

Weight, pump only on

wood shipping skids pounds (Kg):

5200 (2359)

Gear unit, approximate pounds (Kg):

1100 (499)

Standard Equipment

Forged steel fluid end

Forged steel valve covers

Piston & liners or plungers & packing

Slush type valves

Oil level dipstick

Crankcase breather

Stainless steel extension rods

Double extended crankshaft

Accessories

Gear Reducers

2.27:1, 2.89:1, 3.25:1, 4.38:1, 4.84:1, 5.63:1

Suction stabilizer

Discharge dampener

Liner flush system

Plunger lubricator

Valve seat puller assembly

Complete unitization with

electric motor or engine drive

Pump Model	Flange Connections	
	Discharge Connection Sizes	Suction Connection Sizes
JWS-340	2 1/16 API 10,000# RJ	6 STD Pipe

JWS-340 Triplex Well Service Pump

Performance Data

English Units

Diameter, in.		Plungers Only 2 3/4"			Plungers Only 3"			3 1/2"			4"			Pistons Only 4 1/2"		
gal/min. per RPM		.3857			.4590			.6247			.8160			1.0327		
bbl/min. per RPM		.0092			0.0109			.0149			.0194			.0246		
RPM	Req'd. hp	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.	PSI	gal/ min.	bbl/ min.
450	340	3020	174	4.13	2539	206.6	4.894	1870	281	6.69	1430	367	8.74	-	-	-
400	340	3400	154	3.67	2857	183.6	4.371	2100	250	5.95	1610	326	7.77	-	-	-
350	340	3890	135	3.21	3265	160.7	3.825	2400	219	5.21	1840	286	6.80	-	-	-
300	340	4530	116	2.75	3809	137.7	3.279	2800	187	4.46	2140	245	5.83	-	-	-
250	340	5440	96	2.30	4571	114.8	2.732	3360	156	3.72	2570	204	4.86	-	-	-
225	340	6040	87	2.07	5078	103.3	2.459	3730	141	3.35	2860	184	4.37	2260	232	5.53
200	340	6800	77	1.84	5713	91.8	2.186	4200	125	2.97	3210	163	3.89	2540	207	4.92
100	252	10000	39	.92	8403	45.9	1.093	6220	62	1.49	4760	82	1.94	3760	103	2.46
50	126	10000	19	.46	8403	23.0	0.546	6220	31	.74	4760	41	.97	3760	52	1.23
25	63	10000	10	.23	8403	11.5	0.273	6220	16	.37	4760	20	.49	3760	26	.61

Metric Units

Diameter, mm		Plungers Only 69.9			Plungers Only 76.2			88.9			101.6			Pistons only 114.3		
Liter/min. per RPM		1.4600			1.7375			2.3649			3.0889			3.9094		
M ³ /min per RPM		.00146			.00174			.00236			.00308			.00391		
RPM	Req'd. hp	kg/ cm ²	L/ min.	M ³ / min.	kg/ cm ²	L/ min.	M ³ / min.	kg/ cm ²	L/ min.	M ³ / min.	kg/ cm ²	L/ min.	M ³ / min.	kg/ cm ²	L/ min.	M ³ / min.
450	340	214	657	.657	178.5	782	0.782	132	1064	1.06	101	1390	1.39	-	-	-
400	340	240	584	.584	200.9	695	0.695	148	946	.946	114	1236	1.23	-	-	-
350	340	275	511	.511	229.6	608	0.608	170	828	.828	130	1081	1.08	-	-	-
300	340	321	438	.438	267.8	521	0.521	198	709	.709	152	927	.927	-	-	-
250	340	385	365	.365	321.4	435	0.435	237	591	.591	182	772	.772	-	-	-
225	340	427	328	.328	357.0	391	0.391	263	532	.532	202	695	.695	160	880	.880
200	340	481	292	.292	401.7	348	0.348	297	473	.473	227	618	.618	180	782	.782
100	252	703	146	.146	590.8	174	0.174	437	236	.236	335	309	.309	264	391	.391
50	126	703	73	.073	590.8	87	0.087	437	118	.118	335	154	.154	264	195	.195
25	63	703	36	.036	590.8	44	0.044	437	59	.059	335	77	.077	264	98	.098

(Volumes indicated are displacement of incompressible fluid) Volumetric rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency. These ratings are for intermittent service. Pressure up to those shown may be utilized for a period not to exceed a total of 4 hours in 240 hours. Caution: When pump is equipped with pistons and liners, pressures in excess of 5000 psi(352 kg/cm²) should not be exceeded except for emergencies or intermittent duty of short duration. Speed in excess of 225 rpm is recommended for plunger only and not recommended for pump equipped with pistons for maximum liner and piston life.

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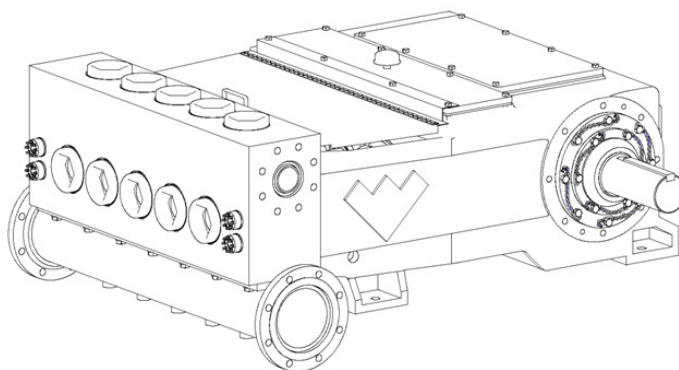
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QWS550 Quintuplex Pump

The Yalong QWS550 Quintuplex power pump is a single-acting 5" stroke well service pump rated at 550 HP in intermittent duty service. This versatile pump is offered with a High strength forged alloy steel cylinder.



Performance Ratings

Diameter (in)		Plunger Only 2.75			Plunger Only 3			Plunger or Piston 3.5			Plunger or Piston 4			Piston Only 4.5		
GPM /RPM		0.6428			0.7650			1.0412			1.3600			1.7212		
BPM /RPM		0.0153			0.0182			0.0248			0.0324			0.0410		
RPM	HP	PSI	GPM	BPM	PSI	GPM	BPM	PSI	GPM	BPM	PSI	GPM	BPM	PSI	GPM	BPM
450	550	2900	289.3	6.89	2500	344.2	8.20	1800	468.6	11.16	1400	612.0	14.57	1100	774.6	18.44
400	550	3300	257.1	6.12	2800	306.0	7.29	2000	416.5	9.92	1600	544.0	12.95	1200	688.5	16.39
350	550	3800	225.0	5.36	3200	267.7	6.37	2300	364.4	8.68	1800	476.0	11.33	1400	602.4	14.34
300	550	4400	192.8	4.59	3700	229.5	5.46	2700	312.4	7.44	2100	408.0	9.71	1600	516.4	12.29
250	550	5300	160.7	3.83	4400	191.2	4.55	3300	260.3	6.20	2500	340.0	8.10	2000	430.3	10.25
225	550	5900	144.6	3.44	4900	172.1	4.10	3600	234.3	5.58	2800	306.0	7.29	2200	387.3	9.22
200	550	6600	128.6	3.06	5500	153.0	3.64	4100	208.2	4.96	3100	272.0	6.48	2500	344.2	8.20
100	325	7800	64.3	1.53	6600	76.5	1.82	4800	104.1	2.48	3700	136.0	3.24	2900	172.1	4.10
50	209	10000	32.1	0.77	8400	38.2	0.91	6200	52.1	1.24	4700	68.0	1.62	3700	86.1	2.05
25	104	10000	16.1	0.38	8400	19.1	0.46	6200	26.0	0.62	4700	34.0	0.81	3700	43.0	1.02

QWS550 Triplex Pump

Features

- All fluid cylinders are made from forged alloy steel material for increased durability and extended life.
- Pistons/plungers are easily removed through the front of the cylinder and do not require the fluid cylinder or even the liners/stuffing boxes to be removed.
- Premium oilfield style pistons/Tungsten carbide coated plungers
- Fully supported crankshaft with double taper main and cylindrical center roller bearings for long life and durability.
- Premium extension rod oil seal with four seals to keep power end oil clean.
- Quick change out valve caps with click-lok that lets you change out just the valve without special tools.

Specifications

- | | |
|-------------------------|-----------------------|
| • Rated Power | 550 HP |
| • Stroke Length | 5.00 in (127 mm) |
| • Maximum Speed | 450 RPM |
| • Minimum Speed | 25 RPM |
| • Rated Rod Load | 59,820 lb (27,134 kg) |
| • Weight | 7,800 lb (3,538 kg) |
| • Oil Capacity | 12 Gal. (46 L) |
| • Mechanical Efficiency | 90% |

Special Notes

1. Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. Operating power required by the pump is calculated by the formula: $HP = (psi \times gpm) / 1,543$, where psi is the actual operating pressure in psi units, and gpm is the actual pumping capacity in gpm.
3. API-674 and NACE-compliant designs are available on request. Consult YLPT for specific details and exceptions to these standards.
4. Standard piston/plunger sizes are shown; however, other sizes may be available on request. Consult YLPT for performance and pressure ratings.
5. Consult YLPT for assistance with pump selection on applications where actual operating inlet pressures are greater than 10 percent of the rated discharge pressure of the pump model selected.
6. For operation below 200 RPM, an auxiliary lubrication system is required. .