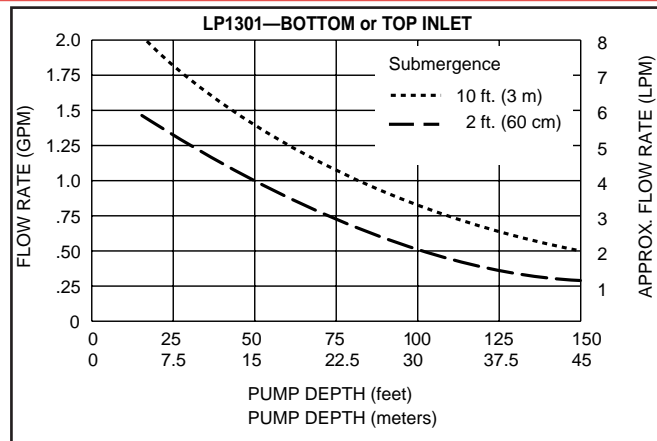
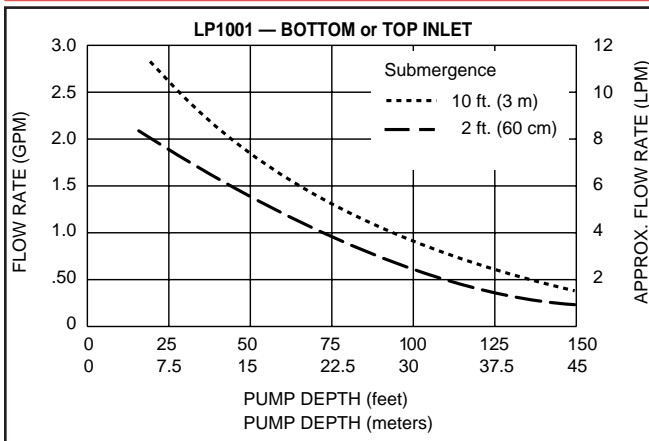


PULSE PUMP® SPECIFICATIONS

Model No.	LP1001	LP1301
Pump Type	Pneumatic displacement	Pneumatic displacement
Inlet	Bottom*	Bottom*
O.D.	2.88" (73 mm)	1.66" (42 mm)
Length	15.5" (39.4 cm)	20" (51 cm)
Weight	3 lbs. (1.4 kg)	2 lbs. (0.9 kg)
Materials	PVC	S.S./Teflon
Fittings: Type	Compression	Compression
Material	Nylon	Stainless steel
Sizes: Liquid Discharge	3/4" (19 mm)	1/2" (13 mm)
Air Supply	1/2" (13 mm)	3/8" (9 mm)
Pump Stroke	.17 gal (650 ml)	.09 gal (350 ml)
Operating pressure range	40-100 psi (275-700kPa)	40-100 psi (275-700kPa)
Maximum lift	230 ft (70 m)	230 ft (70 m)
Maximum flow rate	3 GPM/11.4 LPM (4,320 GPD/16,350 LPD)	2 GPM/7.5 LPM (2,880 GPD/10,900 LPD)
Minimum submergence	Less than 1 ft. (30 cm)	Less than 1 ft. (30 cm)
Density of pumped liquid	Any	Any
Cap sizes	4", 5", 6", & 8" (100, 125, 150, & 200 mm)	2", 3", 4", 5", 6", & 8" (50, 75, 100, 125, 150, & 200 mm)

PULSE PUMP FLOW PERFORMANCE CURVES



Pumps were supplied with 100 psi drive air at all depths. **NOTE:** In reference to these curves, pump depth is defined as the distance down from the top of the well casing to the top of the pump fittings. Submergence is defined as the distance up from the top of the pump to the static water level.

PULSE PUMP JACKETED TUBING



MINTUBE



SPTUBE

Model Description

Discharge O.D.
Air Supply O.D.
Unused O.D.
***Bubbler O.D.**
Min. Bend Radius
Max. Pressure
†Max. Cont. Length

MINTUBE
 Set for 2" (50 mm) well pumps contains 3 tubes
 1/2" (13 mm)
 3/8" (9 mm)
 —
 1/4" (6 mm)
 6" (15 cm)
 360 psi (2,500 kPa)
 250' (75 m)

SPTUBE
 Set for 4" (100 mm) well pumps contains 4 tubes
 3/4" (19 mm)
 1/2" (13 mm)
 3/8" (9 mm)
 1/4" (6 mm)
 7" (18 cm)
 325 psi (2,250 kPa)
 200' (60 m)

*Bubbler tubing is used for on/off level control. More information on this is supplied with controller.
 † These are maximum lengths that can be shipped via UPS. For longer continuous lengths, consult QED.

QED's exclusive Jacketed Tubing, with a continuous nylon sheath, helps prevent hangups and loops, makes installation easier (especially in narrow or obstructed casing), and is lightweight with exceptional chemical resistance, outside and in.

Tubing sets are supplied cut to custom lengths. Jacketed tubing and sheath are both Nylon 12, which doesn't swell in water and provides excellent resistance to most liquids and cleanup conditions, including hydrocarbons, fuels, and alka-

lies. For extremes of acidity, consult QED for alternatives.

Two jacketed tubing sets can be used with Pulse Pump models. The SPTUBE set fits LP1001/ LP4600 4" (100 mm) well pumps, with 3/4" (19 mm) discharge and 1/2" (13 mm) air supply. [Note: the 1/4" (6 mm) tube would be used as optional bubbler tube for on/off level control. The 3/8" (9 mm) tube would be unused in this configuration.]

The MINTUBE set fits LP1301/ LP1401 pumps, with 1/2" (13 mm) discharge, 3/8"

(9 mm) air supply, and 1/4" (6 mm) optional bubbler tube.

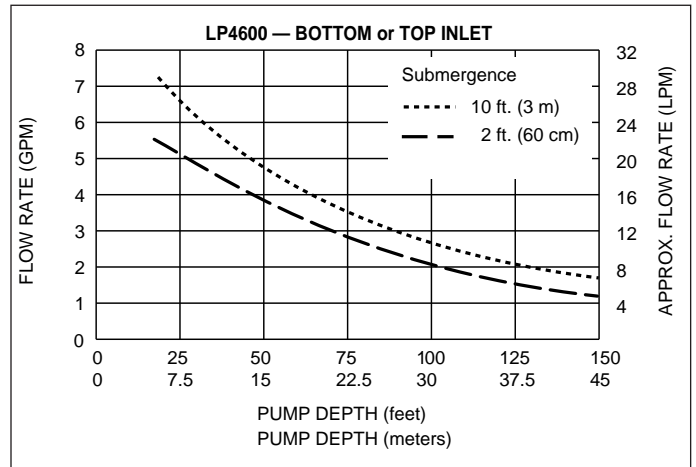
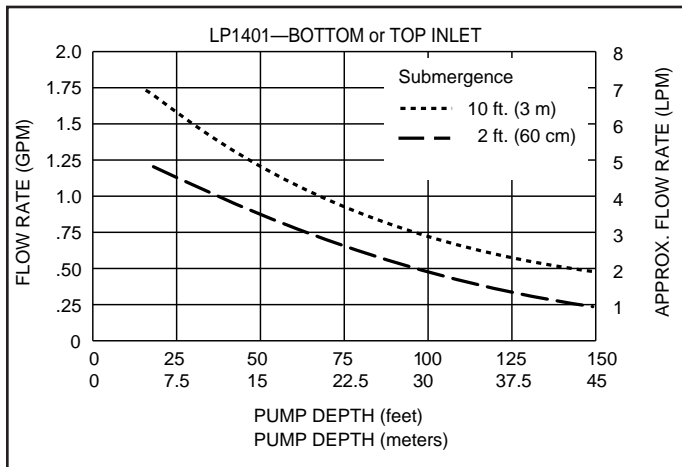
Cable-tied UV-protected Nylon tubing bundles are often specified: Model No. L417, 1/2" & 3/8" (13 & 9 mm), for LP1301/LP1401 pumps, Model No. L413, 3/4" & 1/2" (19 & 13 mm), for LP1001/LP4600.

Pulse Pump systems also use single tubing in Nylon 12 or Teflon, depending on the liquid pumped. See pages 26-27 for specifications.

PULSE PUMP® SPECIFICATIONS

	LP1401	LP4600
Model No.	LP1401	LP4600
Pump Type	Pneumatic displacement	Pneumatic displacement
Inlet	Bottom*	Bottom*
O.D.	1.25" (32 mm)	2.88" (73 mm)
Length	20" (51 cm)	49.5" (126 cm)
Weight	1.5 lbs. (0.7 kg)	8 lbs. (3.6 kg)
Materials	Brass	PVC
Fittings: Type	Barb	Compression
Material	Brass	Nylon
Sizes: Liquid Discharge	1/2" (13 mm)	3/4" (19 mm)
Air Supply	3/8" (9 mm)	1/2" (13 mm)
Pump Stroke	.08 gal (300 ml)	.53 gal (2000 ml)
Operating pressure range	40-100 psi (275-700kPa)	40-100 psi (275-700kPa)
Maximum lift	230 ft (70 m)	230 ft (70 m)
Maximum flow rate	1.8 GPM/6.8 LPM (2,592GPD/9,810LPD)	7.5 GPM/28 LPM (10,800GPD/40,880LPD)
Minimum submergence	Less than 1 ft. (30cm)	Less than 1 ft. (30cm)
Density of pumped liquid	Any	Any
Cap sizes	2", 3", 4", 5", 6", & 8" (50, 75, 100, 125, 150, & 200 mm) (Smaller by special order)	4", 5", 6", & 8" (100, 125, 150, & 200 mm)

PULSE PUMP FLOW PERFORMANCE CURVES



PULSE PUMP CAPS AND ACCESSORIES

STANDARD & ROVING CAPS, WELL HEAD SUPPORTS

MODEL	FOR PUMP MODEL	WELL DIAM.	DESCRIPTION
L210A	LP1301, 1401	2" (50 mm)	Standard Cap-2" (50 mm)
L210B	LP1301, 1401	3" (75 mm)	Standard Cap-3" (75 mm)
L210C	All Models	4" (100 mm)	Standard Cap-4" (100 mm)
L210D	All Models	5" (125 mm)	Standard Cap-5" (125 mm)
L210E	All Models	6" (150 mm)	Standard Cap-6" (150 mm)
L210G	All Models	8" (200 mm)	Standard Cap-8" (200 mm)
L215A	LP1301, 1401	2" (50 mm)	Roving Cap-2" (50 mm)
L212C	LP1301, 1401	4" (100 mm)	Roving Cap-4" (100 mm)
L215C	LP1001, 4600	4" (100 mm)	Roving Cap-4" (100 mm)
L222C	LP1301, 1401 & one 3/4" - discharge pump	4" (100 mm)	Roving Cap-4" (100 mm)
L223C	LP1301, 1401 & 2nd 1/2" (13 mm) discharge pump	4" (100 mm)	Roving Cap-4" (100 mm)
L224C	LP1001, 4600 & 2nd 3/4" (19 mm) discharge pump	4" (100 mm)	Roving Cap-4" (100 mm)
L215E	LP1001, 4600	6" (150 mm)	Roving Cap-6" (150 mm)
L215G	LP1001, 4600	8" (200 mm)	Roving Cap-8" (200 mm)
L220	LP1301, 1401	3" (75 mm) up	Aluminum Well Head Support
L221	LP1001, 4600	4" (100 mm) up	Aluminum Well Head Support

ACCESSORIES

MODEL	FOR PUMP MODEL	DESCRIPTION
L360	All Models	Pulse Sender
L370	All Models	Level Mate
L375	All Models	Level Mate w/Gage
L377	All Models	Level Mate Referenced
L380	All Models	Well Master
L354	All Models	Remote Well Operator/Exhaust Valve
L600	All Models	Remote Well Operator
L374	All Models	Tank Full Shutoff
35547	LP1301, 1401	Roving Air Fitting, 3/8" (9 mm) tube
35548	LP1001, 4600	Roving Air Fitting, 1/2" (13 mm) tube
35750	All Models	Pulse Pump O & M Manual
C1001	LP1001	Top Inlet Adaptor, 4" (100 mm) PVC/S.S.
C1401	LP1401	Top Inlet Adaptor, 1-1/2" (38 mm) Brass
C1602	LP1301	Top Inlet Adaptor, 2" (50 mm)
S1001	LP1001	Bottom Inlet Screen, 4" (100 mm) PVC
35316	LP1301	Bottom Inlet Screen, 2" (50 mm) Teflon
S1401	LP1401	Bottom Inlet Screen, 1-1/2" (38 mm) Brass
L353	All Models	Exhaust Valve, external, TFE-coat for 2"+ wells
L350	LP1001, 4600	Exhaust Valve, in-well, TFE-coat for 4"+ wells
L351	LP1001, 4600	Exhaust Valve, in-well, for 4"+ wells
L355	LP1301, 1401	Exhaust Valve, in-well, TFE-coat for 4"+ wells
L356	LP1301, 1401	Exhaust Valve, in-well, for 4"+ wells
L358	All Models	Exhaust Valve for controller when remote well operators are used

Note: each cap, flange, and accessory kit comes with an illustrated instruction sheet.