

VERTICAL PUMP LIFT STATIONS (VPLS)



Shown: Duplex 0.5 HP pumps with 32 gallon double contained tank and lockable electrical disconnects for each pump. (DVPLS-32-005-1-P-TC-DC)



Shown: Simplex 0.5 HP Pump with 16 gallon double contained tank with seismic tie downs. (SVPLS-16-005-1-P-TC-DC-ST)

Wastech standard pump lift stations are designed for transferring water, chemicals and waste water when a gravity drain is not possible.

- Simplex (one pump) or duplex (two pumps) configuration.
- Multipoint level switch assembly with digital level display.
- Check valves on the discharge of each pump to prevent liquid from flowing back into the tank once the pumps stop.
- Each pump has a separate motor lockable disconnect that allows maintenance work to be performed on one pump while the other is still in service.
- All pump lift stations include a high-high level switch to activate a high level alarm.
- Lift stations require Wastech IPCP series industrial control panels (or equivalent).
- Larger pump and tank sizes and custom configurations available, call or e-mail sales.

Standard Features

- Molded polyethylene tank (16, 32, and 56 gallon tanks standard, custom sizes available)
- Fabricated polypropylene lid
- One or two pumps—CPVC pump head
- Pump suction strainer
- TEFC thermally protected motors
- Lockable disconnect for each pump
- Check valve for each pump with Viton elastomers
- 2" FNPT top mount inlet connection
- 2" FNPT top mount vent connection
- 4"x6" view window for maintenance access
- Multipoint level switch assembly with digital level display
- NEMA 4X junction box to connect to remote control panel

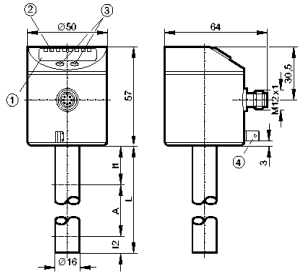


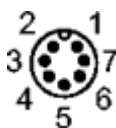
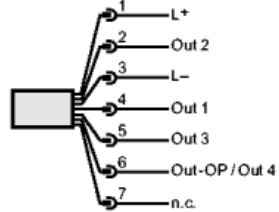
Optional Features

- Fabricated polypropylene double containment tank with float leak switch
- 6' pre-wired flex cable to connect to remote control panel
- Side inlet connection
- Discharge manifold with isolation ball valves
- Seismic tie downs
- PP and PVDF pumps and fittings

ORDERING INFORMATION

| Number of Pumps (Choose One) | |
|--|--|
| SVPLS | Simplex |
| DVPLS | Duplex |
| Tank Volume (Choose One) | |
| -16 | 16 Gallon Polyethylene Molded Tank – Simplex Lift Stations ½ HP and ¾ HP Only |
| -32 | 32 Gallon Polyethylene Molded Tank |
| -56 | 56 Gallon Polyethylene Molded Tank |
| Horsepower (Choose One) | |
| -005 | ½ HP |
| -007 | ¾ HP |
| -010 | 1 HP |
| -015 | 1 ½HP |
| Power Requirements (Choose One) | |
| -1 | 115 VAC/1/60 Hz |
| -2 | 208-230 VAC/1/60 Hz |
| -3 | 208-230 VAC/3/60 Hz |
| -4 | 460 VAC/3/60 Hz |
| Discharge Piping Material (Choose One) | |
| -P | PVC Discharge Piping and Check Valve (Viton Elastomers) |
| -C | CPVC Discharge Piping and Check Valve (Viton Elastomers) |
| Inlet Connection (Choose One) | |
| -TC | Top Connection (2" FNPT) |
| -SC-XX" | Side Connection (2" FNPT) – Specify Height From Bottom To Centerline (min 10") |
| Options (Choose Any) | |
| -DC | Double Containment With Float Leak Switch |
| -FC | 6 FT Elec. Flex Conduit Between Lift Station and Control Panel |
| -ST | Seismic Tie-Downs |
| -VM | Valve Manifold W/ 2 Ball Valves (Viton) and Common 2" Discharge |
| Example Part Number | |
| SVPLS | -16 -005 -1 -P -TC -DC-ST |
| DVPLS | -32 -007 -4 -C -SC-12" -ST-VM |

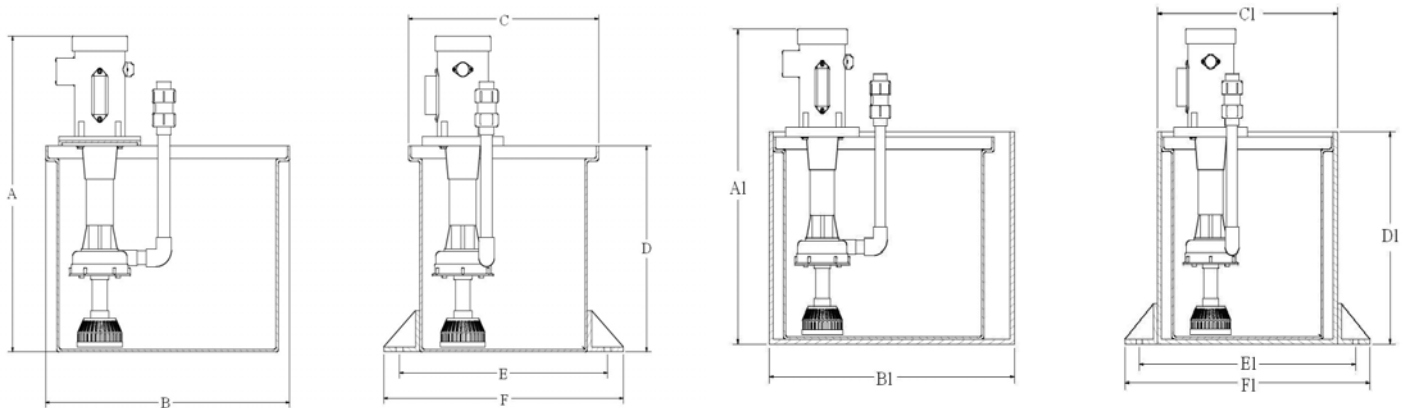
LEVEL SWITCH TECHNICAL INFORMATION

| | |
|---|---|
| <ul style="list-style-type: none"> – Electronic level sensor – Quick disconnect – Probe length L = 18 in – 3 operating outputs (OUT1...OUT3) – 1 overflow output (OUT-OP) – Indication of the level in inches or cm – 4-digit alphanumeric display <div style="text-align: center;">  </div> <p style="text-align: center;"> 1: 4-digit alphanumeric display 2: LEDs 3: Programming buttons 4: Housing connection (flat-pin connector 6.3 mm following DIN 46244) </p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> | <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <p>Output configuration in switching mode: OUT1...OUT3 = operating outputs OUT-OP = overflow output</p> <p>Output configuration in binary mode: OUT1...OUT4 = 8-4-2-1 binary code for level</p> |
|---|---|

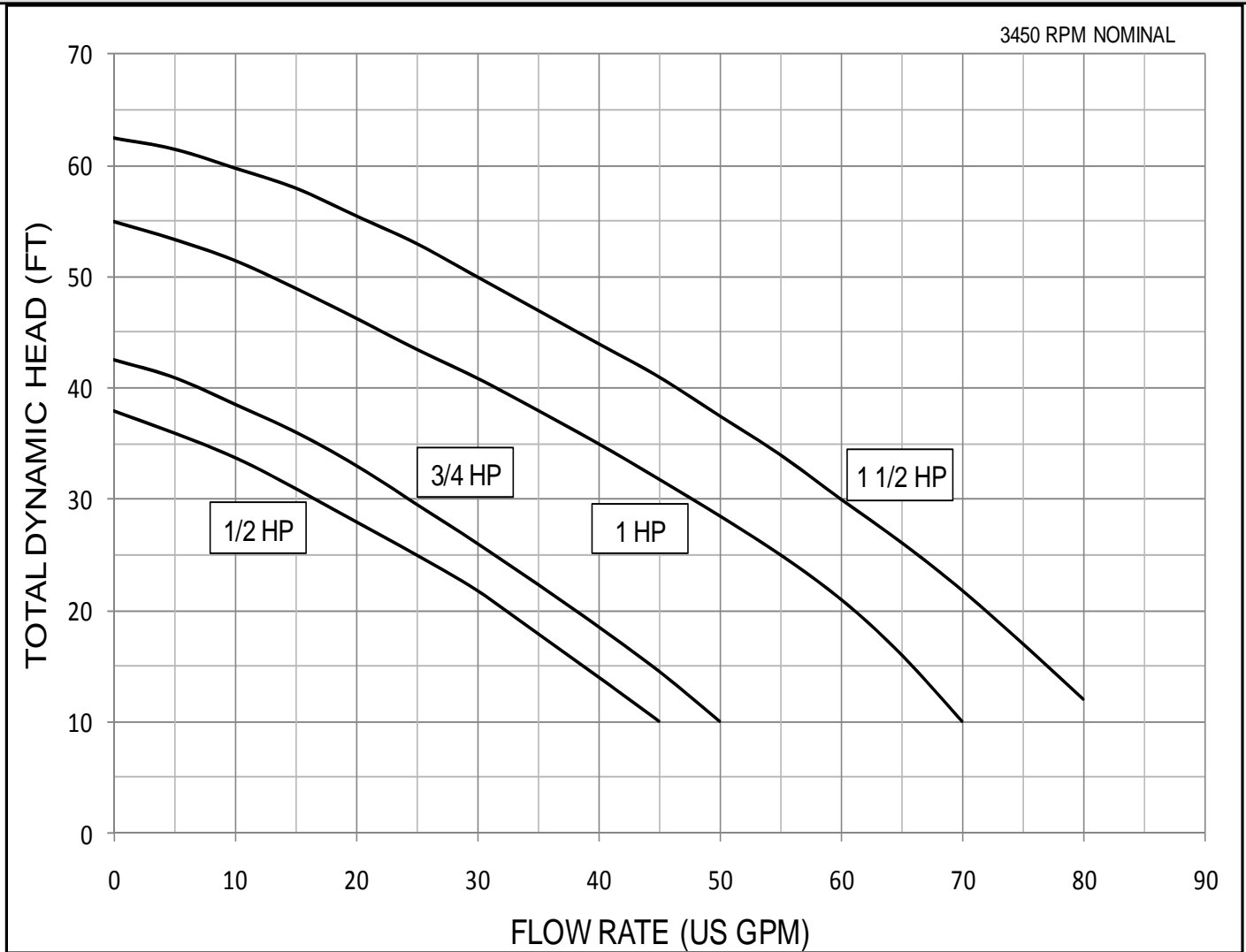
SPECIFICATIONS

| | Part Number | Motor HP | Tank Size (gal) | Overall Dimensions ⁶ | | | | | | | | | | | | Dry Weight (lbs) | | Discharge Connection Size ⁴ |
|----------|--------------|----------|-----------------|---------------------------------|----|----|----|----|----|-------------------------|----|----|----|----|----|----------------------|-------------------|--|
| | | | | Without Double Containment | | | | | | With Double Containment | | | | | | Without Double Cont. | With Double Cont. | |
| | | | | A | B | C | D | E | F | A1 | B1 | C1 | D1 | E1 | F1 | | | |
| SIM PLEX | SVPLS-16-005 | 1/2 | 16 | 28 | 22 | 16 | 20 | 17 | 21 | 29 | 25 | 18 | 21 | 22 | 25 | 65 | 80 | 1 |
| | SVPLS-16-007 | 3/4 | 16 | 30 | 22 | 16 | 20 | 17 | 21 | 31 | 25 | 18 | 21 | 22 | 25 | 65 | 80 | 1 |
| | SVPLS-32-005 | 1/2 | 32 | 30 | 29 | 23 | 22 | 24 | 27 | 31 | 31 | 25 | 22 | 28 | 32 | 80 | 120 | 1 |
| | SVPLS-32-007 | 3/4 | 32 | 32 | 29 | 23 | 22 | 24 | 27 | 33 | 31 | 25 | 22 | 28 | 32 | 80 | 120 | 1 |
| | SVPLS-32-010 | 1 | 32 | 32 | 29 | 23 | 22 | 24 | 27 | 33 | 31 | 25 | 22 | 28 | 32 | 85 | 125 | 1-1/4 |
| | SVPLS-32-015 | 1 1/2 | 32 | 34 | 29 | 23 | 22 | 24 | 27 | 35 | 31 | 25 | 22 | 28 | 32 | 90 | 130 | 1-1/4 |
| | SVPLS-56-005 | 1/2 | 56 | 30 | 34 | 28 | 20 | 29 | 33 | 31 | 37 | 30 | 21 | 34 | 37 | 100 | 165 | 1 |
| | SVPLS-56-007 | 3/4 | 56 | 32 | 34 | 28 | 20 | 29 | 33 | 33 | 37 | 30 | 21 | 34 | 37 | 100 | 165 | 1 |
| | SVPLS-56-010 | 1 | 56 | 32 | 34 | 28 | 20 | 29 | 33 | 33 | 37 | 30 | 21 | 34 | 37 | 105 | 170 | 1-1/4 |
| | SVPLS-56-015 | 1 1/2 | 56 | 34 | 34 | 28 | 20 | 29 | 33 | 35 | 37 | 30 | 21 | 34 | 37 | 110 | 175 | 1-1/4 |

| | | | | | | | | | | | | | | | | | | |
|-------|--------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-------|
| DUPLX | DVPLS-32-005 | 1/2 | 32 | 30 | 29 | 23 | 22 | 24 | 27 | 31 | 31 | 24 | 22 | 28 | 32 | 120 | 155 | 1 |
| | DVPLS-32-007 | 3/4 | 32 | 32 | 29 | 23 | 22 | 24 | 27 | 33 | 31 | 24 | 22 | 28 | 32 | 120 | 155 | 1 |
| | DVPLS-32-010 | 1 | 32 | 32 | 29 | 23 | 22 | 24 | 27 | 33 | 31 | 24 | 22 | 28 | 32 | 130 | 165 | 1-1/4 |
| | DVPLS-32-015 | 1 1/2 | 32 | 34 | 29 | 23 | 22 | 24 | 27 | 31 | 31 | 24 | 22 | 28 | 32 | 140 | 175 | 1-1/4 |
| | DVPLS-56-005 | 1/2 | 56 | 30 | 34 | 28 | 20 | 29 | 33 | 33 | 37 | 29 | 21 | 34 | 37 | 140 | 205 | 1 |
| | DVPLS-56-007 | 3/4 | 56 | 32 | 34 | 28 | 20 | 29 | 33 | 33 | 37 | 29 | 21 | 34 | 37 | 140 | 205 | 1 |
| | DVPLS-56-010 | 1 | 56 | 32 | 34 | 28 | 20 | 29 | 33 | 35 | 37 | 29 | 21 | 34 | 37 | 150 | 215 | 1-1/4 |
| | DVPLS-56-015 | 1 1/2 | 56 | 34 | 34 | 28 | 20 | 29 | 33 | 31 | 37 | 29 | 21 | 34 | 37 | 160 | 225 | 1-1/4 |


Notes:

1. Remote control panel required – Please visit our website for details.
2. Maximum service temperature for all lift stations: 140 F
3. Standard valve elastomers are Viton. EPDM available upon request.
4. Standard lift station connections are socket and threaded (FNPT). Flanged connections available upon request.
5. Lift stations with valve manifold (VM) option have a 2" common socket connection. Other connections (flanged, threaded) available upon request.
6. Tolerance for dimensions B-F $\pm 2\%$

PUMP PERFORMANCE CURVES

PUMP MOTOR FULL LOAD AMPS (FLA)
VERTICAL PUMP MOTOR FLA

| Voltage | 1/2 HP | 3/4 HP | 1 HP | 1 1/2 HP |
|---------------------|--------|--------|------|----------|
| 115 VAC/1/60 Hz | 7.4 | 9.6 | 11.8 | 16 |
| 208-230 VAC/1/60 Hz | 3.7 | 4.8 | 5.9 | 8 |
| 208-230 VAC/3/60 Hz | 2 | 2.6 | 3.6 | 4.6 |
| 460 VAC/3/60 Hz | 1 | 1.3 | 1.8 | 2.3 |