

Pump Lift Stations

Simplex & Duplex Solutions

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SIMPLEX & DUPLEX SYSTEMS

Standard Pump Lift Stations

Classic Series Pump Lift Stations are designed for applications where gravity drainage is not an option.

Standard Features

- Wide range of flows & pressures to choose from
- Smooth interior for ease of cleaning
- CPVC or polypropylene corrosion resistant pump
- Withstand temperature to 180F (PPS) or 140F (PES)
- Automatic Off/On pump control
- Rugged acid resistant construction for safety and durability



Simplex Units for applications where pump redundancy is not required.

Tanks range in size from 7 to 50 gallons and are available in molded high density polyethylene (HDPE) or natural polypropylene. Covers are 1/2" thick bolt-down polypropylene.

Simplex Lift Stations are completely automated and designed to handle the most aggressive chemical solutions. Most units are off-the-shelf and can often be shipped same day.



Duplex Units for cases when pump redundancy is required for high inlet flow conditions and to eliminate downtime.

Duplex Lift Stations come standard with alternating pump controls to even out wear and promote longer pump life.

When flow into the system spikes and the level rises above the normal pump turn-on setting, the system will trigger both pumps to run simultaneously until level returns to the pump turn-off setting.

Optional high level alarm sounds when liquid level rises above the second pump turn-on setting.



CUSTOM PUMP LIFT STATIONS

Custom Series Pump Lift Stations

Custom Series Pump Lift Stations are designed by Burt Process application engineers who work with clients to develop custom solutions tailored to unique system requirements.

Some options include:

Pump Flow: From less than 1 gpm to greater than 1,000 gpm

Pump Technologies: Vertical or horizontal centrifugal, positive displacement, gear, magnetic drive, grinder, metering, self-priming, and air operated diaphragm

Pump Configurations: Simplex, duplex and triplex

Tanks: Capacities from 5 to 15,000 gallons; Materials of construction including polypropylene, PVC, CPVC, PVDF (Kynar), fiberglass and stainless steel.

Instrumentation & Control: Level transmitters, redundant high and high-high level switches, temperature and analytical measurements as well as leak detection.



Available options include:

- Double containment
- PLC based controls
- Ethernet and remote connectivity
- Hazardous location
- lift stations with controls
- Unique tank geometries



Lift Station Part Number Configurator

Polypropylene (PPS) Polyethylene (PES)

BURT | PROCESS EQUIPMENT

PPS/PES

Tank Volume Gallons (select one)

PPS	PES
7	7
11	11
15	15
30	30
50	-
115	-
200	-
260	-

Pump Size (select from curves config.)

PPS	PES
1	1
2	2
4	4
5	5
7	-
8	-
12	-
16	-

Voltage

11 (Single Phase 120V) (Pumps 1, 2, 4, and 5)
 12 (Single Phase 208V) (Pumps 1, 2, 4, and 5)
 32 (Three Phase 230V) (Pumps 4, 5, 7, and 8)
 34 (Three Phase 460V) (Pumps 4, 5, 7, 8, 12, and 16)

Simplex or Duplex

5
 D (30 gal. and up)

Note:
 *Duplex lift stations come standard with UL listed control panels
 **Contact factory for Size 12 & 16 Performance Pump Curves

60Hz

Lift Station Pump Curve for Part Number Configurator

