



**BURT** | PROCESS  
EQUIPMENT

Partners In Global Water Quality

# Pump Lift Stations

Simplex | Duplex  
& Custom Solutions



# 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 180°F (PPS) or 140°F (PES)
- Automatic Off/On pump control
- Rugged acid-resistant construction for safety and durability



**Simplex Units** are 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 on the same day.



**Duplex Units** are 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.



# Standard Pump Lift Stations

## Configuration Matrix for Standard Products

Standard Lift Station										
Tank Material										
-PP	Polypropylene									
-PE	Polyethylene (7-30 gallon only)									
-PF	PVDF									
Pump Configurations										
-S	Simplex (Single Pump)									
-D	Duplex (Dual Pump)									
Tank Volume (Gal.)										
-7	7-Gallon									
-11	11-Gallon									
-15	15-Gallon									
-30	30-Gallon									
-50	50-Gallon									
-115	115-Gallon									
-200	200-Gallon									
-260	260-Gallon									
Flow Rate (Max GPM)										
-XX	Flow Range (Max GPM)									
TDH (FT)										
-XX	TDH (FT)									
Plumbing Materials										
-CV	CPVC									
-PP	Polypropylene									
-PF	PVDF									
Voltages										
-120	120VAC, 60Hz, Single Phase									
-208	208VAC, 60Hz, Single Phase									
-230	230VAC, 60Hz, Three Phase									
-460	460VAC, 60Hz, Three Phase									
Pump Technologies										
-V	Vertical Centrifugal									
-SP	Self-Priming Horizontal Centrifugal									
-S	Submersible									
-AOD	AODD									
Containment										
-L/-LS	Leak Pan/Leak Switch									
-X	No Leak Containment									
SPX	-PP	-S	-7	-50	-50	-CV	-120	-V	-L/-LS	Example Code

# 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.

### Options include:

- Pump Flow: From less than 1 gpm to greater than 3,000 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, hastelloy, and stainless steel
- Instrumentation & Control: Level transmitters, redundant high and high-high level switches, pH monitoring, temperature and analytical measurements as well as leak detection



### Available options include:

- Double containment
- PLC based controls
- Ethernet and remote connectivity
- Explosion proof lift stations with controls
- Custom tank geometries

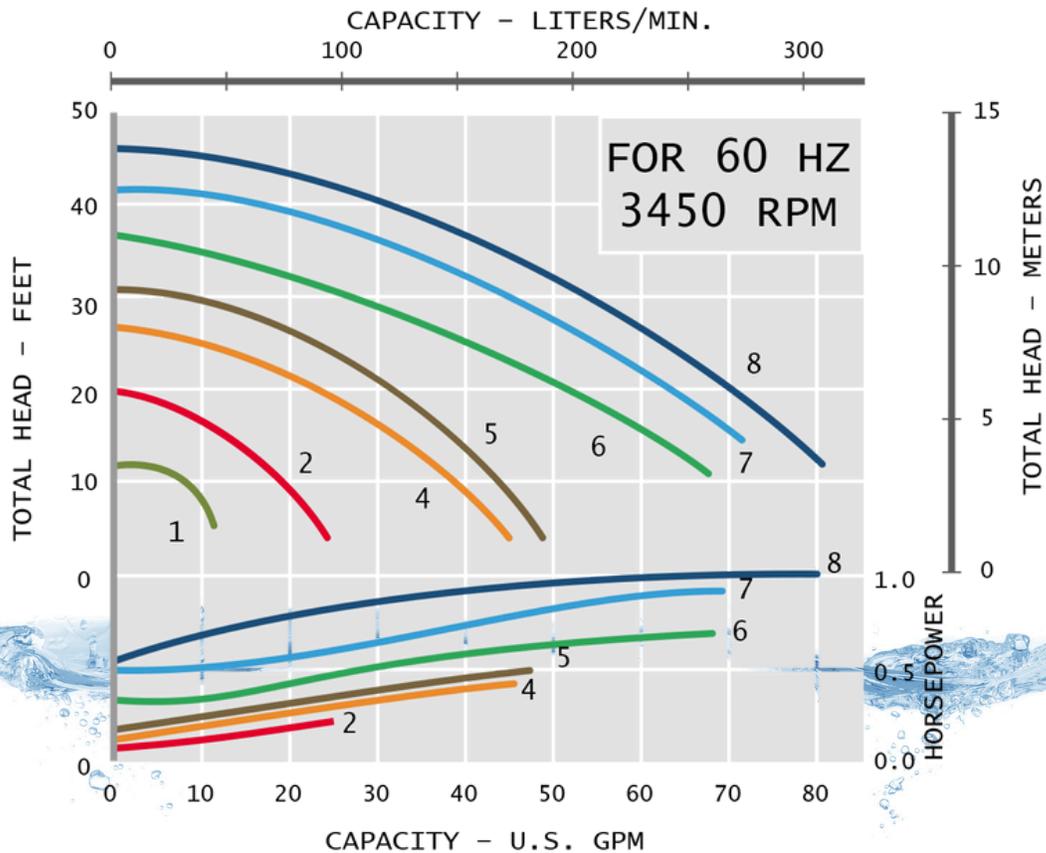
# Custom Lift Stations

## Configuration Matrix for Custom Pump Lift Stations

Custom Lift Station												
Tank Material												
-PP	PP											
-PF	PVDF											
-4	304SS											
-6L	316LSS											
Pump Configurations												
-S	Simplex (Single Pump)											
-D	Duplex (Dual Pump)											
Tank Volume (Gal.)												
-XX	Tank Volume (500-5,000 gallons)											
Flow Rate (Max GPM)												
-XX	Flow Range (typical range 1-3,000gpm available)											
TDH (FT)												
-XX	TDH (FT)											
Containment												
-DC	100% Double Containment											
-L/LS	Leak Pan/Leak Switch											
Tank Configuration												
-C	Cylindrical											
-S	Square/Rectangular											
Pump Technologies												
-VC/HC	Vertical or Horizontal Centrifugal											
-MG	Magnetic Drive											
-SP	Self-Priming											
-AOD	AODD											
Explosion Proof Rating												
-NR	Not Rated											
-C1	Class 1 Div 1											
-C2	Class 1 Div 2											
Piping Material												
-CV	CPVC											
-PV	PVC											
-PP	PP											
-4	304SS											
-6L	316LSS											
Control Panel Options												
-SD	Standard Duplex											
-AB	Allen Bradley PLC											
-SI	Siemens PLC											
-HMI	HMI (If interface screen required – standard 6" – Other options available)											
Voltage												
-120	120VAC, 60Hz, Single Phase											
-208	208VAC, 60Hz, Single Phase											
-230	230VAC, 60Hz, Three Phase											
-460	460VAC, 60Hz, Three Phase											
CUS	-PP	-S	-XX	-XX	-XX	-DC	-C	-VC/HC	-NR	-CV	-SD	Example Code

60Hz

# Lift Station Pump Curve for Part Number Configurator



Finish Thompson  
Self-Priming Pump



ARO Double  
Diaphragm Pump



Price Stainless  
Steel Pump

