

LT-100

Product Data Sheet and System Specification

Dimensions

<i>Base</i>	24 in. x 48 in. (0.6 m x 1.2 m)
<i>Height</i>	60 in. (1.5 m)

Weight

<i>Empty</i>	300 lbs (135 kg)
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Capacity

<i>Maximum storage capacity</i>	32 gal (121 l)
<i>Maximum line capacity</i>	5000 gal (18,527 l)

Detectable Leak Rate

(Probability of detection of 95%
with a probability of false alarm
of 5%)

<i>For line capacities less than 3,400 US gal (12,886 l)</i>	2-hour test: 0.1 gal/h (0.379 l/h) or 0.2 gal/h (0.758 l/h)
	15-minute test: 3.0 gal/h (11.37 l/h)
<i>For line capacities greater than 3,400 US gal (12,886 l)</i>	2-hour test: 0.2 gal/h (0.758 l/h)
	15-minute test: 3.0 gal/h (11.37 l/h)

Power

<i>Skid</i>	Single-phase 120/208 VAC 60 Hz (50 Hz optional)
<i>PLC (controller)</i>	Single-phase 120 VAC 50/60 Hz

Temperature

<i>Operating</i>	-20° to 100° F (-29° to 38° C)
<i>Non-operating</i>	-50° to 200° F (-45° to 93° C)

Pressure

<i>Maximum test pressure</i>	200 psi
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Controller

<i>Allen-Bradley PLC-5 Communications</i>	Vista control/processing software Serial (RS 232)
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Optional Features

The options listed below allow easy integration of the LT-100 into many facilities. They also permit the use of the LT-100 on a wide range of piping. The addition of a "blow-down" valve and/or increased-capacity tanks can extend the maximum line size testable with the LT-100. Maximum testable line size can be extended even further with special-order features.

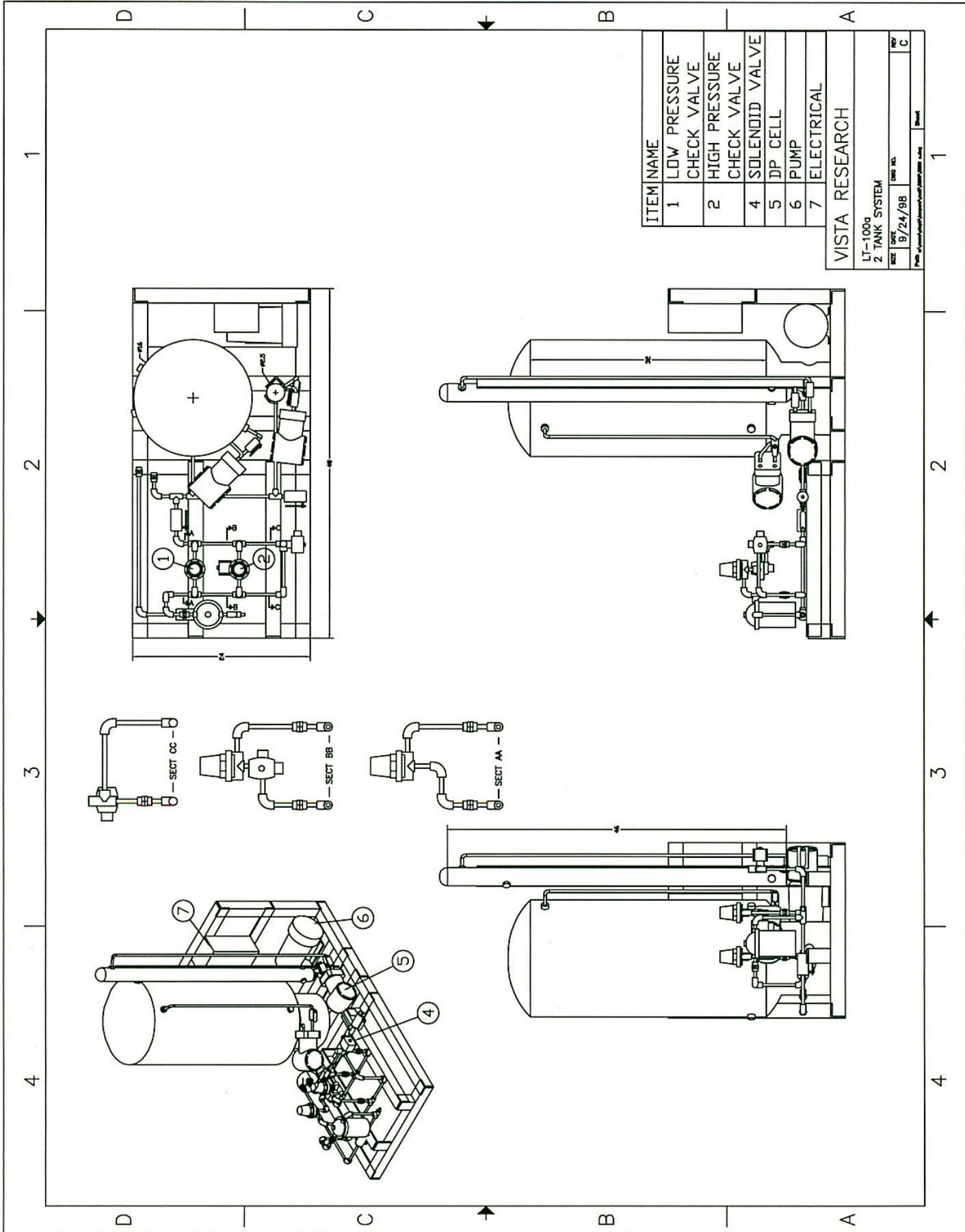
Various power options are available for both the skid and the PLC, so that in most cases existing power at the facility can be used.

For networking multiple LT-100 systems, or integrating the LT-100 into an existing SCADA system, there are multiple communication protocols and wiring types available.

For stand-alone applications, Vista Research can provide a workstation with a complete user interface to the LT-100, including data recording and printing capability.

Code	Category	Option	Comments
Capacity			
BD		<i>Blow-down valve</i>	<ul style="list-style-type: none"> ▪ Eliminates storage tank ▪ Reduces contained capacity to 2 gal ▪ Reduces footprint to 24 x 36 in. This option is pictured at right
Power			
P2		<i>Skid power</i>	Three-phase 230/480 VAC 60 Hz (50 Hz skid power available)
P3		<i>PLC power</i>	Single-phase 208 VAC 50/60 Hz
Extended Temperature			
XT		<i>Operating</i>	-40° to 150° F (-40° to 66° C)
		<i>Non-Operating</i>	-50° to 200° F (-45° to 93° C)
Controller			
DH		<i>Allen-Bradley PLC-5</i>	Communication options: DH+, fiber optic
GE		<i>GE Fanuc 90-30</i>	Communication options: RS232, GENius, fiber optic
User Interface			
SM		<i>System monitor</i>	<ul style="list-style-type: none"> ▪ Pentium-based PC ▪ Windows NT ▪ Wonderware ▪ Vista GUI software
Alternate Configuration			
		<i>Valve Vault Unit</i>	The LT-100 system is also available in a configuration suitable for installation in a valve vault. This version of the LT-100, which is fully submersible, is specially designed for the harsh environment of a valve vault.





ITEM	NAME
1	LOW PRESSURE CHECK VALVE
2	HIGH PRESSURE CHECK VALVE
4	SOLENOID VALVE
5	DP CELL
6	PUMP
7	ELECTRICAL

VISTA RESEARCH
 LT-1000g
 Z TANK SYSTEM
 DATE: 9/24/98
 DRAW. NO. C
 Part of a complete system. See drawing LT-1000g-001 for details.