

Leak Test Catalog





2019

Leak Tester Configuration

- Application
 - Benchtop or Automation
- Test Types
 - PD, VD, Occ, DO, F, B, C, PR
- Parameters
 - Pressure Range
 - Internal Volume
 - Object Dimensions
 - Desired Speed
- Number of Ports
 - 1-4
- Regulator
 - Manual or Electronic
- Channels *if applicable
 - Concurrent or Sequential
- Communication
 - PLC/IO, RS232, USB[§], Ethernet (TCP/IP), Ethernet (EtherNet/IP[§])

[§]USB and EtherNet/IP can not exist on the same device.

Comparison Chart

	Display	Dimensions	Max Pressure	Connectivity	Valves	# of Test Types	Stored Programs	Power	Test Types
Zaxis PD 	4.3"	6" w, 7" h, 6.5" d	100 psi positive/ -14.7 psi vacuum	USB, I/O, Ethernet (TCP/IP or EtherNet/IP)	Type 1	1	4	120/230 VAC, 50/60 Hz 100 Watts	PD, VD, Occ
iKit 	4.3" Detachable	3" w, 6" h, 6" d	500 psi positive/ -14.7 psi vacuum	RS232, I/O, Ethernet (TCP/IP or EtherNet/IP)	Types 1-3	1	100	Optional 24 VAC, 15 Watts	PD, VD, Occ, F
Isaac HD 	4.3"	6" w, 7" h, 6" d	1,000 psi positive/ -14.7 psi vacuum	USB, RS232, I/O, Ethernet (TCP/IP or EtherNet/IP)	Types 1-4	Up to 4	100	120/230 VAC, 50/60 Hz 100 Watts	PD, VD, Occ, F, B, C, PR
Zaxis 7i 	7"	10" w, 8" h, 9" d	1,000 psi positive/ -14.7 psi vacuum	USB, RS232, I/O, Ethernet (TCP/IP or EtherNet/IP)	Types 1-4	Up to 4	100	120/230 VAC, 50/60 Hz 100 Watts	PD, VD, Occ, F, B, C, PR

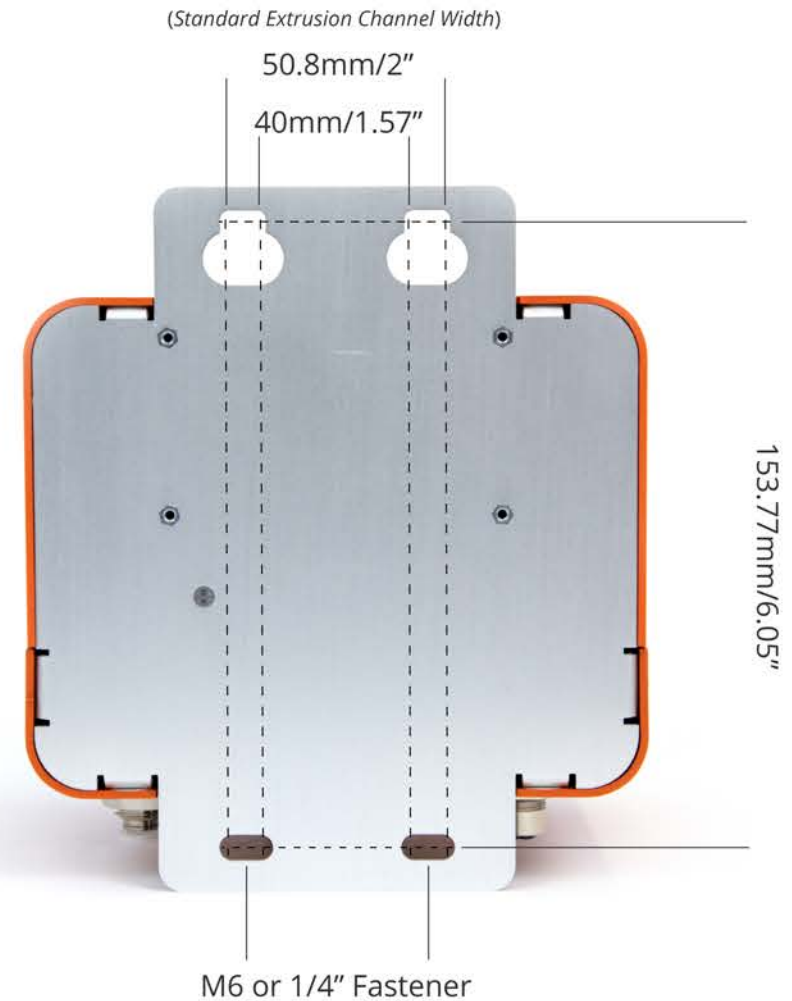
New For
2019

Zaxis PD

A wall mounted, lower cost, single channel alternative for manufacturing cell configurations.

- Intuitive Touchscreen Interface
- 7" Cube
- Electronic Regulator
- Wall Mountable
- Bottom Mounted Connectors
- SPC Storage
- USB Port





❑ Power

120/230 VAC,
50/60 Hz,
100 Watts

❑ Test Port

1/4 FNTP
female bulkhead

❑ Connectivity

USB, I/O,
Ethernet (*TCP/IP*,
EtherNet/IP)

❑ Dimensions

6" wide, 7" high,
6.5" deep

❑ Display

4.3" Color
Touchscreen

❑ Valves

Type 1



Test Types

Pressure Decay,
Vacuum Decay,
Occlusion



Pressure Range

0-30 or 0-100 PSIG



Stored Programs

4

(Allows you to run multiple parameters through a single port)



Number of Test Types

1

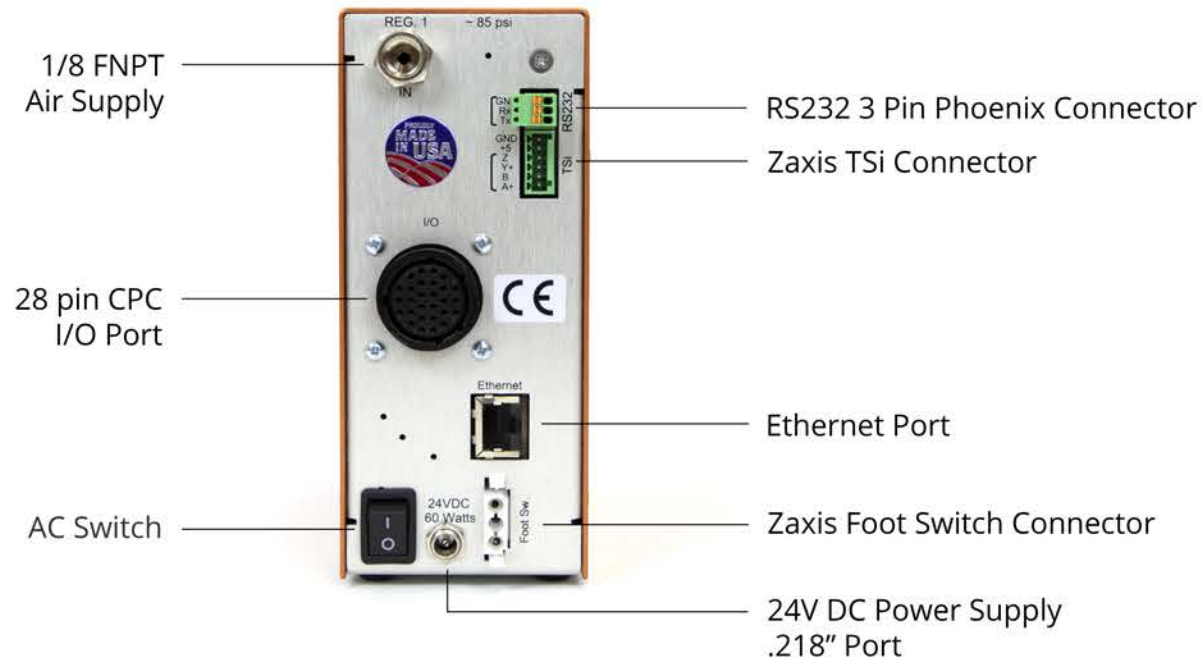
iKit

A slim, compact design that saves on valuable manufacturing space. Easy to concatenate together for automation.

- Detachable Intuitive Interface
- Small Footprint
- Electronic Regulator
- Easy to Concatenate
- Internal Volume <1 cm³
- SPC (Statistical Process Control) Storage
- EtherNet/IP



Smallest
*Leak Tester on
the Market*



❑ Power
Optional
24 VAC,
15 Watts

❑ Test Port
1/8 FNTP
female bulkhead

❑ Connectivity
RS232, I/O,
Ethernet (TCP/IP,
EtherNet/IP)

❑ Dimensions
3" wide, 6" high,
6" deep

❑ Display
4.3"
Detachable
Touchscreen

❑ Valves
Types 1-3



Test Types

Pressure Decay,
Vacuum Decay,
Occlusion,
Mass Flow

Pressure Range

0-15, 0-100,
or 0-100 PSIG

Stored Programs

100
*(Allows you to run multiple
parameters through a single
port)*

Number of Test Types

1

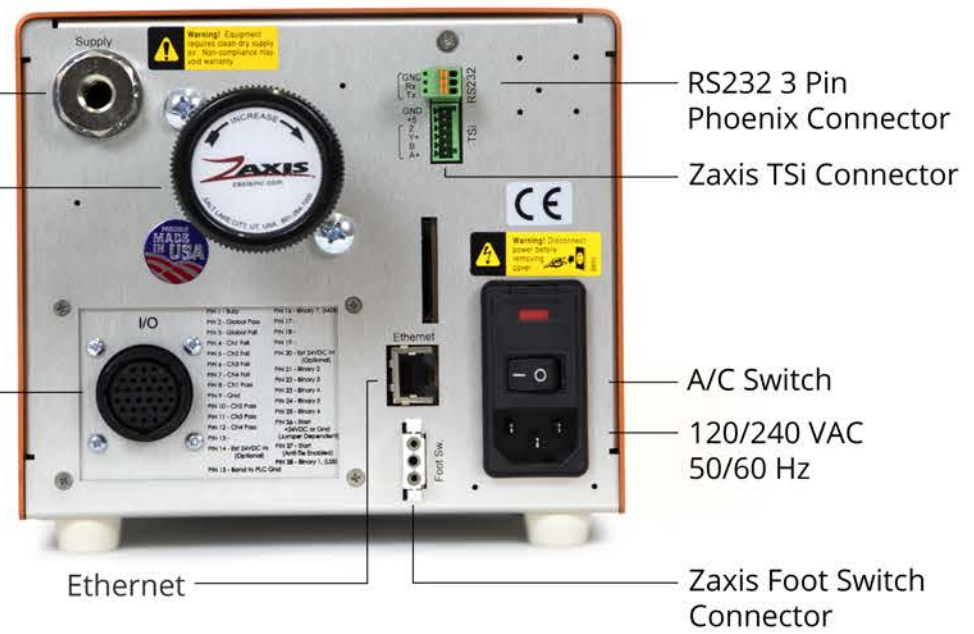
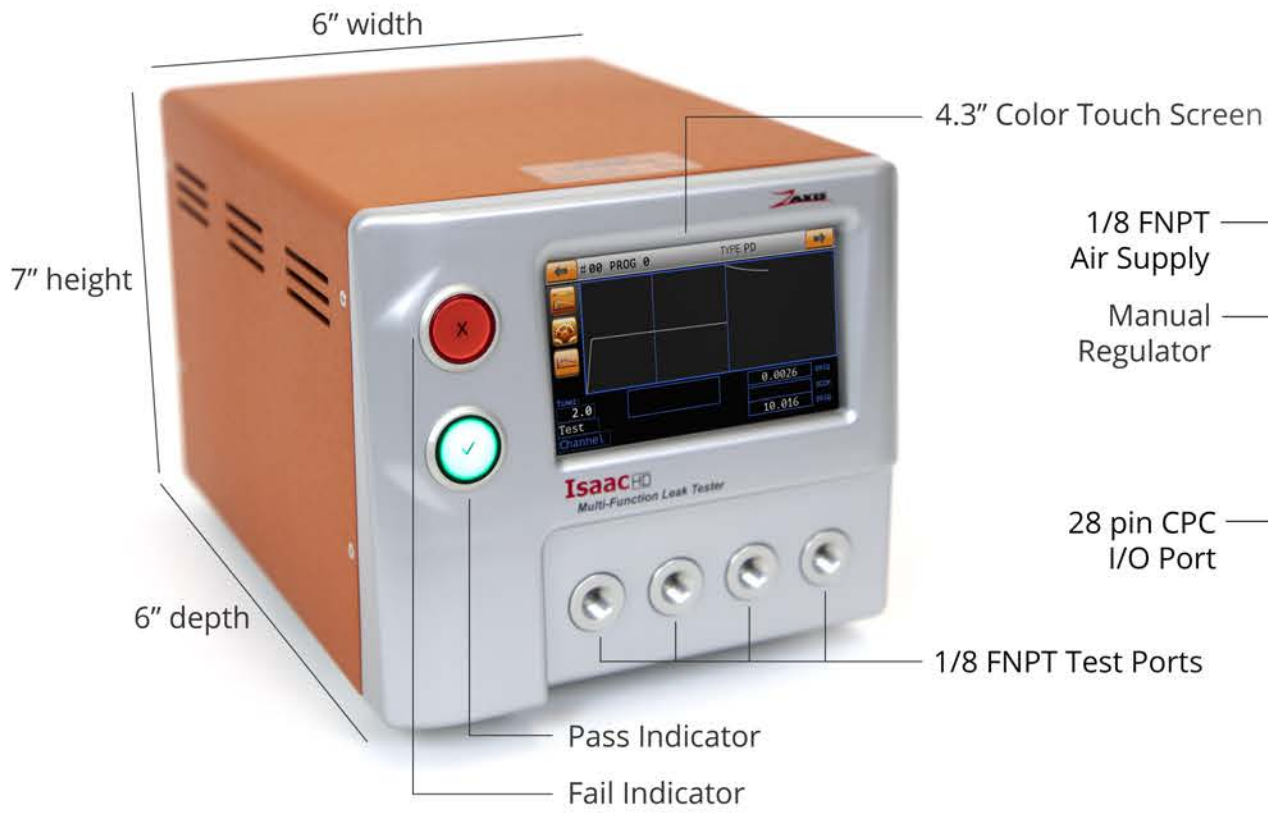
Isaac HD

The modular design makes it the work horse of the leak tester family.

- Intuitive Touchscreen Interface
- Modular Design
- 4 Test Ports & 4 Test Types At A Time
- Wide Pressure Range
- Customized Cycle Time
- Multiple Communication Options
- High Sensitivity



Total
*Leak Testing
Solution*



❑ Power

120/230 VAC,
50/60 Hz,
100 Watts

❑ Test Port

1/8 FNTP
female bulkhead

❑ Connectivity

USB, RS232, I/O,
Ethernet (TCP/IP,
EtherNet/IP)

❑ Dimensions

6" wide, 7" high,
6" deep

❑ Display

4.3" Color
Touchscreen

❑ Valves

Types 1-4



Test Types

Pressure Decay,
Vacuum Decay,
Occlusion,
Mass Flow, Burst,
Crack, Chamber



Pressure Range

0-15, 0-100, 0-300, 0-500, 0-1000 PSIG of Positive Pressure or 0-15 PSI of Vacuum
(other ranges available upon request)



Stored Programs

100
(Allows you to run multiple parameters through a single port)



Number of Test Types

Up to 4

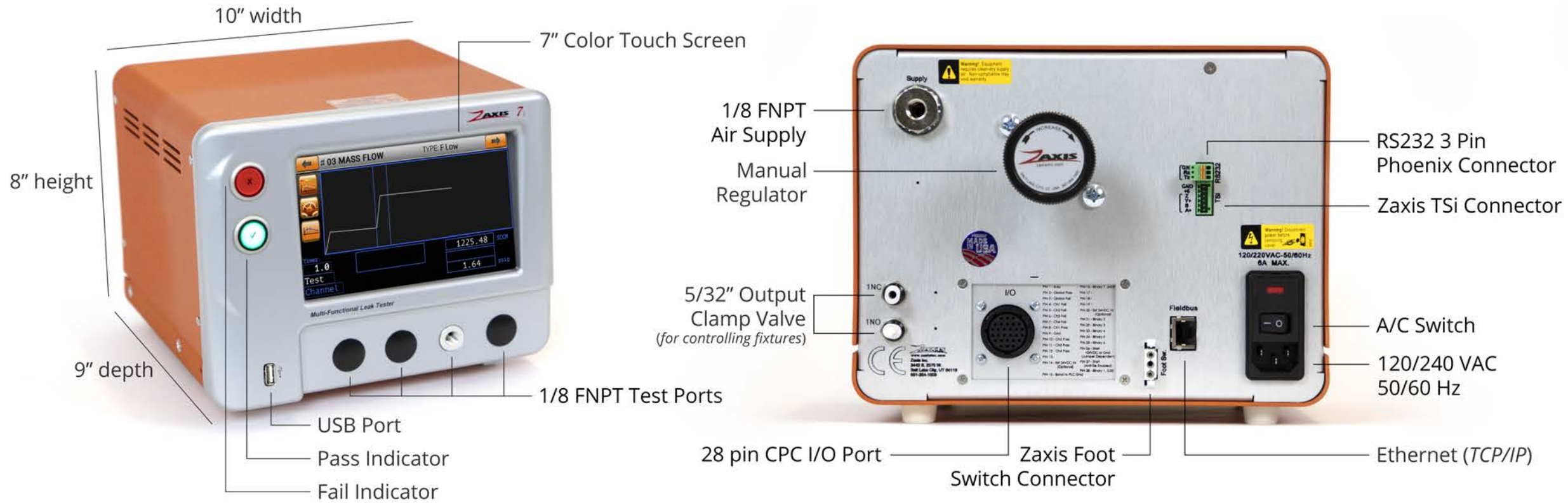
Zaxis 7i

Large feature compacity including a large, easy to use, color touchscreen.

- 7" Color Touchscreen
- Modular Design
- 4 Test Ports & 4 Test Types At A Time
- Wide Pressure Range
- Customized Cycle Time
- Multiple Communication Options
- High Sensitivity



7-inch
High Definition
Display



❑ Power

120/230 VAC,
50/60 Hz,
100 Watts

❑ Test Port

1/8 FNTP
female bulkhead

❑ Connectivity

USB, RS232, I/O,
Ethernet (TCP/IP,
EtherNet/IP)

❑ Dimensions

10" wide, 8" high,
9" deep

❑ Display

7" Color
Touchscreen

❑ Valves

Types 1-4



Test Types

Pressure Decay,
Vacuum Decay,
Occlusion,
Mass Flow, Burst,
Crack, Chamber



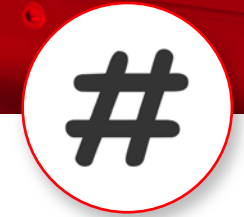
Pressure Range

0-15, 0-100, 0-300, 0-500, 0-1000 PSIG of Positive Pressure or 0-15 PSI of Vacuum
(other ranges available upon request)



Stored Programs

100
(Allows you to run multiple parameters through a single port)



Number of Test Types

Up to 4

NEMA Box

Customization meets durability
in the Zaxis NEMA Box.

- 4.3" or 7" Touchscreen
- Multiple Size Options
- Customizable Configuration & Orientation
- Durability
- Larger Valve Capacity
- Same Features as Isaac HD



Valves

	Type 1 H	Type 1 L	Type 1 X	Type 2	Type 2 B	Type 3	Type 4	High Flow A	High Flow F
Max PSI	25 psi	50 psi	107 psi	300 psi	130 psi	600 psi	1000 psi	30 psi	60 psi
Flow	7.4 SLPM	4.36 SLPM	2.8 SLPM	25 SLPM	55 SLPM	4 SLPM	13.4 SLPM		
Testers	All	All	All	iKit, Isaac HD, Zaxis 7i	iKit, Isaac HD, Zaxis 7i	iKit, Isaac HD, Zaxis 7i	Isaac HD, Zaxis 7i	Isaac HD, Zaxis 7i	Isaac HD, Zaxis 7i

■ Type 2 Valves

- Patented Design
- Thermally Isolated
- Air Actuated
- Low Wattage
- Aseptic
- Internal Volume <1cc
- High Quality Materials





Connectivity

- 24 VDC I/O
Memory mapped banks with Programmable Logic Controllers

- Ethernet (TCP/IP)
Safe and fast connection with less overhead than a wireless network

- Ethernet (EtherNet/IP*)
Devices can communicate directly with each other rather than through routers or switches

- RS232
Simple legacy system to system communication with long support distance

- USB*
Common and reliable interface with auto-configuration

* EtherNet/IP and USB can not exist on the same device.



■ Regulators

- **Manual** – Highly stable, single pressure setting
- **Second Manual** – Allows for two stable pressure settings
- **Electronic** – Push button calibration with multiple stored settings
- **Vacuum** – Necessary for Vacuum Decay tests
- **Electronic High Bleed** – Helps regulate the difference between high and low pressure settings

■ Fittings

- **Male Luer** – Taper, slip tip, fitting
- **Male Luer Lock** – One-piece, taper fitting with threaded sleeve
- **Female Luer Lock** – Externally threaded fitting made to work with Male Luer Lock fittings
- **Compression Fitting** – Necessary for Vacuum Decay tests
- **Staubli T** – Helps regulate the difference between high and low pressure settings



Quick Connect

Instant pneumatic connections for smooth or threaded external tubes of various sizes.



Fast Fill

Allows the product under test to be filled at a quicker rate. *(For Isaac HD and Zaxis 7i)*



Leak Standard

A calibrated, simulated leak used in circuit with the part under test to help determine parameters.

Fixtures



Clamp Valves

Consist of NO (*Normally Open*) and NC (*Normally Closed*) air ports which activate/deactivate fixtures.



Drawer

Specially designed fixtures, based on customer products that require a chamber tests.



Tombstone

Custom built, in-house, to hold pneumatic sealers, offering safety and stability.



Customization

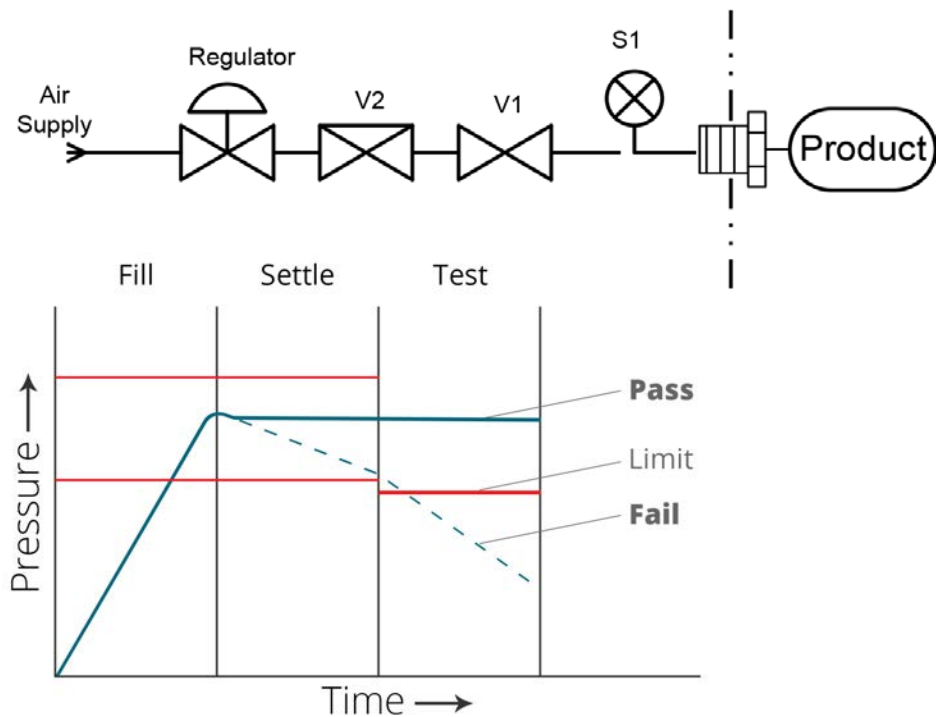
Once a tester has been selected discuss client's automation facility, process, and safety requirements.

Test Types

What is a Leak Test: A leak test is used to determine if an object, product, or system functions within a specified leak limit.

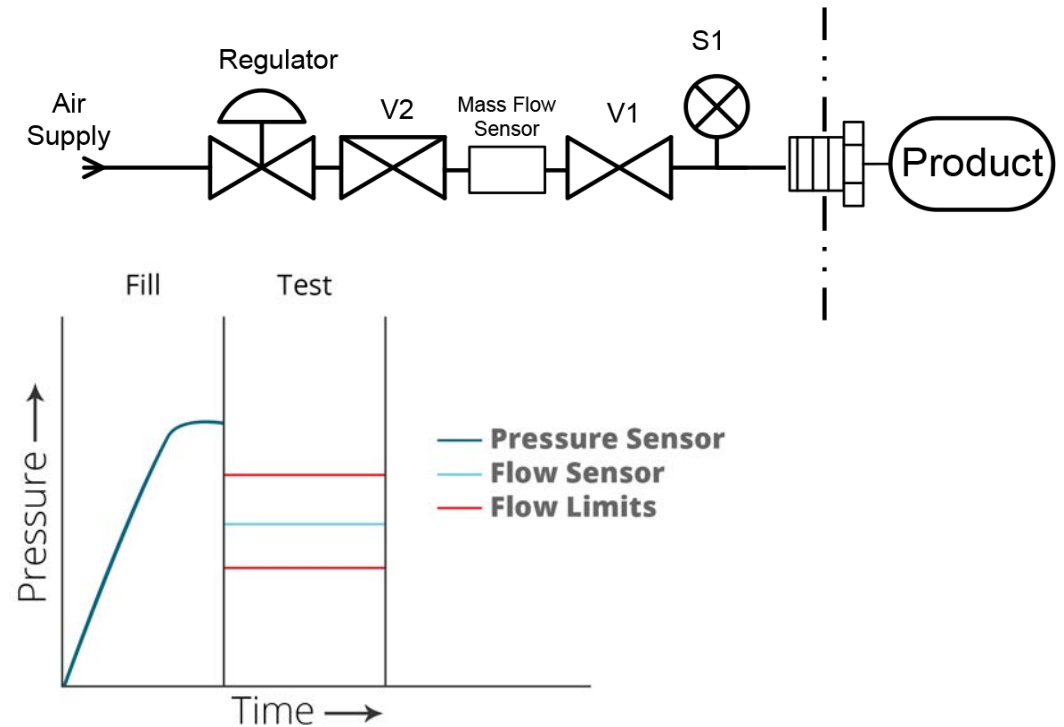
Pressure Decay

Used to test the leak rate of a sealed component with one opening.



Mass Flow

Measures the flow of air through an object.





Other Test Types

Occlusion - Signifies if the object's passage is blocked.

Burst - Measures the maximum pressure at catastrophic failure.

Crack - Detect events such as a valve opening.

Chamber - Used to find leaks in sealed packaging or devices.

Specialty - Zaxis offers several high precision specialty tests when standard leak tests are not enough.

Service & Calibration

- All Zaxis leak testers can be returned for repair/service or calibration with written return authorization and case number.
- Sensors should be calibrated annually in accordance with the National Institute of Standards and Technology (NIST).

